

REPUBLIC OF KENYA



MIGORI COUNTY ASSEMBLY

**MIGORI COUNTY ASSEMBLY
P.O BOX 985– 40400
MIGORI.**

**PROPOSED CONSTRUCTION OF MIGORI COUNTY ASSEMBLY OFFICES AND
COMMITTEE ROOMS PHASE ONE**

MCA/T/02/2023-2024

OCTOBER, 2023

INTRODUCTION

- 1.1 This standard tender document for procurement of equipment has been prepared for use by public entities in Kenya in the procurement of all types of equipment as per the Public Procurement and Assets Disposal Act 2015.
- 1.2 The following general directions should be observed when using the document;
 - (a) Specific details should be furnished in the invitation to tender notice and in the special conditions of contract. The final document to be provided to the tenderers should not have blank spaces or give options.
 - (b) The instructions to tenderers and the General conditions of contract should remain unchanged. Any necessary amendments to these parts should be made through the special conditions of contract and appendix to instructions to tenderers respectively.
- 1.3
 - (a) Information contained in the invitation to tender shall conform to the data and information in the tender documents to enable potential tenderers to decide whether or not to participate in the tender and shall indicate any important tender requirements.
 - (c) The invitation to tender shall be issued as an advertisement in accordance with the regulations or a letter of invitation addressed to tenderers who have expressed interest following an invitation for expression of interest for which the invitation is issued.
- 1.4 The cover of the tender document should be modified to include:
 - I. Tender number.
 - II. Tender name.
 - III. Name of procuring entity.

SECTION I - INVITATION FOR TENDERS
Date 13th October, 2023

Tender REF NO: MCA/T/02/2023-2024

Tender name: CONSTRUCTION OF COUNTY ASSEMBLY OFFICES AND COMMITTEE ROOMS PHASE ONE

Detailed tender documents can be downloaded from our website-
www.migoriassembly.go.ke or [Public Procurement Information Portal\(PPIP\)-www.tendersgo.ke](http://www.tendersgo.ke).

Duly completed tender documents in plain sealed envelopes clearly marked with relevant category tender number and description should be addressed to:

THE CLERK
MIGORI COUNTY ASSEMBLY
P.O. BOX 985-40400
SUNA-MIGORI

Or be deposited in the tender box situated at The Migori County Assembly, on or before 27th October, 2023 at 10.00am

Tenders will be opened immediately thereafter in the presence of tenderers or their representatives who may wish to attend at the County Assembly Cafeteria. We shall ensure that the representatives who will choose to attend shall be screened and sanitized before accessing the tender opening venue.

Bidders will also be expected to maintain social distance of at least 1.5 meters away during tender opening.

Late bids will not be accepted.

Any inquiry can be channeled through email address: ***odiwuoroluoch54@gmail.com***

SIGNED BY: ODIWUOR HESBORN OLUOCH
AG, SUPPLY CHAIN MANANGEMENT OFFICER 1
FOR: THE CLERK, MIGORI COUNTY ASSEMBLY

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SECTION II - INSTRUCTIONS TO TENDERERS

2.1. Eligible Tenderers

- 2.1.1 This Invitation for Tenders is open to all tenderers eligible as described in the Appendix to Instructions to Tenderers. Successful tenderers shall provide the services for the stipulated duration from the date of commencement (hereinafter referred to as the term) specified in the tender documents.
- 2.1.2 The procuring entity's employees, committee members, board members and their relatives (spouse and children) are not eligible to participate in the tender unless where specially allowed under section 131 of the Act.
- 2.1.3 Tenderers shall provide the qualification information statement that the tenderer (including all members of a joint venture and subcontractors) is not associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the services under this Invitation for tenders.
- 2.1.4 Tenderers involved in the corrupt or fraudulent practices or debarred from participating in public procurement shall not be eligible.

2.2 Cost of Tendering

- 2.2.1 The Tenderer shall bear all costs associated with the preparation and submission of its tender, and the procuring entity, will in no case be responsible or liable for those costs. Regardless of the conduct or outcome of the tendering process
- 2.2.2 The price to be charged for the tender document shall not exceed Kshs .5,000/=
- 2.2.3 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.

2.3 Contents of Tender Document

- 2.3.1 The tender documents comprise the documents listed below and addenda issued in accordance with clause 2.5 of these instructions to tenderers.
- (i) Instructions to Tenderers
 - (ii) General Conditions of Contract
 - (iii) Special Conditions of Contract
 - (iv) Schedule of Requirements

- (v) Details/Specifications of the motor vehicles
- (vi) Form of Tender
- (vii) Price Schedules
- (viii) Contract Form
- (ix) Confidential Business Questionnaire Form
- (x) Tender security Form
- (xi) Performance security Form

- (xii) Declaration Form
- (xiii) Request for Review Form

2.3.2 The Tenderer is expected to examine all instructions, forms, terms and specification in the tender documents. Failure to furnish all information required by the tender documents or to submit a tender not substantially responsive to the tender documents in every respect will be at the tenderers risk and may result in the rejection of its tender.

2.4 Clarification of Tender Documents

2.4.1 A Candidate making inquiries of the tender documents may notify the Procuring entity by post, fax or by email at the procuring entity's address indicated in the Invitation for tenders. The Procuring entity will respond in writing to any request for clarification of the tender documents, which it receives not later than seven (7) days prior to the deadline for the submission of the tenders, prescribed by the procuring entity. Written copies of the Procuring entities response (including an explanation of the query but without identifying the source of inquiry) will be sent to all candidates who have received the tender documents.

2.4.2 The procuring entity shall reply to any clarifications sought by the tenderer within 3 days of receiving the request to enable the tenderer to make timely submission of its tender.

2.4.3 Preference where allowed in the evaluation of tenders shall not exceed 15%

2.5 Amendment of Tender Documents

2.5.1 At any time prior to the deadline for submission of tenders, the Procuring entity, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer, may modify the tender documents by issuing and addendum.

2.5.2 All prospective tenderers who have obtained the tender documents will be notified of the amendment by post, fax or email and such amendment will be binding on them.

2.5.3 In order to allow prospective tenderers reasonable time in which to take the amendment into account in preparing their tenders, the Procuring entity, at its discretion, may extend the deadline for the submission of tenders.

2.6 Language of Tenders

2.6.1 The tender prepared by the tenderer, as well as all correspondence and documents relating to the tender exchanged by the tenderer and the Procuring entity, shall be written in English language. Any printed literature furnished by the tenderer may be written in another language provided they are accompanied by an accurate English translation of the relevant passages in which case, for purposes of interpretation of the tender, the English translation shall govern.

2.7. Documents Comprising the Tender

2.7.1 The tender prepared by the tenderer shall comprise the following components:

- (a) A Tender Form and a Price Schedule completed in accordance with paragraph 2.8, 2.9 and 2.10 below
- (b) Documentary evidence established in accordance with paragraph 2.1.2 that the tenderer is eligible to tender and is qualified to perform the contract if its tender is accepted;
- (c) Tender security furnished in accordance with paragraph 2.12 (if applicable)
- (d) Declaration Form.

2.8. Form of Tender

2.8.1 The tenderer shall complete the Tender Form and the Price Schedule furnished in the tender documents, indicating the services to be provided.

2.9. Tender Prices

2.9.1 The tenderer shall indicate on the form of tender and the appropriate Price Schedule the unit prices and total tender price of the services it proposes to provide under the contract.

2.9.2 Prices indicated on the Price Schedule shall be the cost of the services quoted including all customs duties and VAT and other taxes payable.

2.9.3 Prices quoted by the tenderer shall remain fixed during the Term of the contract unless otherwise agreed by the parties. A tender submitted with an adjustable price quotation will be treated as non-responsive and will be rejected, pursuant to paragraph 2.20.5

2.10. Tender Currencies

2.10.1 Prices shall be quoted in Kenya Shillings

2.11. Tenderers Eligibility and Qualifications

2.11.1 Pursuant to paragraph 2.1 the tenderer shall furnish, as part of its tender, documents establishing the tenderers eligibility to tender and its qualifications to perform the contract if it's tender is accepted.

2.11.2 The documentary evidence of the tenderer's qualifications to perform the contract if its tender is accepted shall establish to the Procuring entity's satisfaction that the tenderer has the financial and technical capability necessary to perform the contract.

2.12. Tender Security

2.12.1 The tenderer shall furnish, as part of its tender, a tender security for the amount and form specified in the Appendix to Instructions to Tenderers.

2.12.2 The tender security shall not exceed 2 per cent of the tender price.

2.12.3 The tender security is required to protect the Procuring entity against the risk of Tenderer's conduct which would warrant the security's forfeiture, pursuant to paragraph 2.12.7

2.12.4 The tender security shall be denominated in Kenya Shillings or in another freely convertible currency, and shall be in the form

- a) Cash.
- b) A bank guarantee.

2.12.5 Any tender not secured in accordance with paragraph 2.12.1. and 2.12.3 shall be rejected by the Procuring entity as non-responsive, pursuant to paragraph 2.20.5

2.12.6 Unsuccessful Tenderer's tender security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of tender validity

2.12.7 The successful Tenderer's tender security will be discharged upon the tenderer signing the contract, pursuant to paragraph 2.29, and furnishing the performance security, pursuant to paragraph 2.30

2.12.8 The tender security may be forfeited:

- (a) if a tenderer withdraws its tender during the period of tender validity.
- (b) in the case of a successful tenderer, if the tenderer fails:
 - (i) to sign the contract in accordance with paragraph 2.29 or
 - (ii) to furnish performance security in accordance with paragraph 2.30.
- (c) If the tenderer reject correction of an arithmetic error in the tender.

2.13. Validity of Tenders

2.13.1 Tenders shall remain valid for 150 days after date of tender opening pursuant to paragraph 2.18. A tender valid for a shorter period shall be rejected by the Procuring entity as non-responsive.

2.13.2 In exceptional circumstances, the Procuring entity may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The tender security provided under paragraph 2.12 shall also be suitably extended. A tenderer granting the request will not be required nor permitted to modify its tender.

2.14. Format and Signing of Tenders

2.14.2 The original and all copies of the tender shall be typed or written in indelible ink and shall be signed by the tenderer or a person or persons duly authorized to bind the tenderer to the contract. All pages of the tender, except for un-amended printed literature, shall be initialed by the person or persons signing the tender.

2.14.3 The tender shall have no interlineations, erasures, or overwriting except as necessary to correct errors made by the tenderer, in which case such corrections shall be initialed by the person or persons signing the tender.

2.15 Submission, Sealing and Marking of Tenders

2.15.1 The Tenderer shall submit electronically and provide hard similar copy of what has been submitted electronically, in a single, sealed envelope (one (1) envelope process). The Tenderer shall place the following separate, sealed envelopes:

Inner Envelops:

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

The inner envelopes shall:

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

The outer envelope (s) in which the inner envelopes are enclosed shall:

- a) Be addressed to the Procuring Entity in accordance with ITT
 - b) Bear the specific identification of this Tendering process indicated in accordance with ITT; and
 - c) Bear a warning not to open before the time and date for Tender opening.
- 2.15.2 Duly completed tender documents in plain sealed envelopes clearly marked with relevant category tender number and description should be addressed to:

**THE CLERK
MIGORI COUNTY ASSEMBLY
P.O. BOX 985-40400
SUNA-MIGORI**

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

2.16. Deadline for Submission of Tenders

2.16.1 Tenders must be received by the Procuring Entity at the address and no later than the date and time 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**.

2.16.2 The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the tendering document in accordance with ITT9, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

2.16.3 Tenders must be received by the Procuring entity at the address specified under paragraph 2.15.2 not later than 27th October, 2023 at 10.00 a.m.

2.16.4 Bulky tenders which will not fit the tender box shall be received by the procuring entity as provided for in the appendix.

2.17. Modification and Withdrawal of Tenders

2.17.1 The tenderer may modify or withdraw its tender after the tender's submission, provided that written notice of the modification, including substitution or withdrawal of the tenders, is received by the Procuring entity prior to the deadline prescribed for submission of tenders.

- 2.17.2 The tenderer's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of paragraph 2.15. a withdrawal notice may also be sent by fax or email but followed by a signed confirmation copy, postmarked not later than the deadline for submission of tenders.
- 2.17.3 No tender may be modified after the deadline for submission of tenders.
- 2.17.4 No tender may be withdrawn in the interval between the deadline for submission of tenders and the expiration of the period of tender validity. Withdrawal of a tender during this interval may result in the Tenderer's forfeiture of its tender security, pursuant to paragraph 2.12.7.

2.18. Opening of Tenders

- 2.18.1 The Procuring entity will open all tenders in the presence of tenderers' representatives who choose to attend, at *10.00 a.m. on 27th October, 2023* and in the location specified in the invitation for tenders. The tenderers' representatives who are present shall sign a register evidencing their attendance.
- 2.18.2 The tenderers' names, tender modifications or withdrawals, tender prices, discounts, and the presence or absence of requisite tender security and such other details as the Procuring entity, at its discretion, may consider appropriate, will be announced at the opening.
- 2.18.3 The Procuring entity will prepare minutes of the tender opening, which will be submitted to tenderers that signed the tender opening register and will have made the request.

2.19 Clarification of Tenders

- 2.19.1 To assist in the examination, evaluation and comparison of tenders the Procuring entity may, at its discretion, ask the tenderer for a clarification of its tender. The request for clarification and the response shall be in writing, and no change in the prices or substance of the tender shall be sought, offered, or permitted.
- 2.19.2 Any effort by the tenderer to influence the Procuring entity in the Procuring entity's tender evaluation, tender comparison or contract award decisions may result in the rejection of the tenderers' tender.

2.20 Preliminary Examination and Responsiveness

- 2.20.1 The Procuring entity will examine the tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the tenders are generally in order.
- 2.20.2 Section 74(2) Subject to section 79(2)(b) of the Act 2020, 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.

2.20.3 The Procuring entity may waive any minor informality or non-conformity or irregularity in a tender which does not constitute a material deviation provided such waiver does not prejudice or affect the relative ranking of any tenderer.

2.20.4 Prior to the detailed evaluation, pursuant to paragraph 2.20, the Procuring entity will determine the substantial responsiveness of each tender to the tender documents. For purposes of these paragraphs, a substantially responsive tender is one which conforms to all the terms and conditions of the tender documents without material deviations the Procuring entity's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.

2.20.5 If a tender is not substantially responsive, it will be rejected by the procuring entity and may not subsequently be made responsive by the tenderer by correction of the nonconformity.

2.21. Conversion to single currency

2.21.1 Where other currencies are used, the Procuring entity will convert those currencies to Kenya Shillings using the selling exchange rate on the date of tender closing provided by the Central Bank of Kenya.

2.22. Evaluation and Comparison of Tenders

2.22.1 Information relating to the evaluation of Tenders and recommendation of contract award, shall not be disclosed to Tenderers or any other persons not officially concerned with the Tendering process until information on the Intention to Award the Contract is transmitted to all Tenderers.

2.22.2 The Procuring entity's evaluation of a tender will take into account, in addition to the tender price, the following factors, in the manner and to the extent indicated in paragraph 2.22.3.

(a) operational plan proposed in the tender;

(b) deviations in payment schedule from that specified in the Special Conditions of Contract

2.22.3 Pursuant to paragraph 2.22.2. the following evaluation methods will be applied.

(a) Operational Plan

(i) The Procuring entity requires that the services under the Invitation for Tenders shall be performed at the time specified in the Schedule of Requirements. Tenders offering to perform longer than the procuring entity's required delivery time will be treated as non-responsive and rejected.

- (b) Deviation in payment schedule
- (i) Tenderers shall state their tender price for the payment on schedule outlined in the special conditions of contract. Tenders will be evaluated on the basis of this base price. Tenderers are, however, permitted to state an alternative payment schedule and indicate the reduction in tender price they wish to offer for such alternative payment schedule. The Procuring entity may consider the alternative payment schedule offered by the selected tenderer.

2.22.4 The tender evaluation committee shall evaluate the tender within 30 days from the date of opening the tender.

2.23. Contacting the Procuring entity

2.23.1 Subject to paragraph 2.19 no tenderer shall contact the Procuring entity on any matter relating to its tender, from the time of the tender opening to the time the contract is awarded.

2.23.2 Any effort by a tenderer to influence the Procuring entity in its decisions on tender evaluation, tender comparison, or contract award may result in the rejection of the Tenderers' tender.

2.24 Post-qualification

2.24.1 The Procuring entity will verify and determine to its satisfaction whether the tenderer that is selected as having submitted the lowest evaluated responsive tender is qualified to perform the contract satisfactorily.

2.24.2 The determination will take into account the tenderer financial and technical capabilities. It will be based upon an examination of the documentary evidence of the tenderers qualifications submitted by the tenderer, pursuant to paragraph 2.11.2, as well as such other information as the Procuring entity deems necessary and appropriate

2.24.3 An affirmative determination will be a prerequisite for award of the contract to the tenderer. A negative determination will result in rejection of the Tenderer's tender, in which event the Procuring entity will proceed to the next lowest evaluated tender to make a similar determination of that Tenderers' capabilities to perform satisfactorily.

2.25 Award Criteria

2.25.1 Subject to paragraph 2.29 the Procuring entity will award the contract to the successful tenderer whose tender has been determined to be substantially responsive and has been determined to be the lowest evaluated tender, provided further that the tenderer is determined to be qualified to perform the contract satisfactorily.

2.25.2 To qualify for contract awards, the tenderer shall have the following: -

- (a) Necessary qualifications, capability experience, services, equipment and facilities to provide what is being procured.
- (b) Legal capacity to enter into a contract for procurement
- (c) Shall not be insolvent, in receivership, bankrupt or in the process of being wound up and is not the subject of legal proceedings relating to the foregoing.
- (d) Shall not be debarred from participating in public procurement.

2.26. Procuring entity's Right to accept or Reject any or all Tenders

2.26.1 The Procuring entity reserves the right to accept or reject any tender, and to annul the tendering process and reject all tenders at any time prior to contract award, without thereby incurring any liability to the affected tenderer or tenderers or any obligation to inform the affected tenderer or tenderers of the grounds for the Procuring entity's action. If the Procuring entity determines that none of the tenders is responsive, the Procuring entity shall notify each tenderer who submitted a tender.

2.26.2 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

2.26.3 A tenderer who gives false information in the tender document about its qualification or who refuses to enter into a contract after notification of contract award shall be considered for debarment from participating in future public procurement.

2.27 Notification of Award

2.27.1 Prior to the expiration of the period of tender validity, the Procuring entity will notify the successful tenderer in writing that its tender has been accepted.

2.27.2 The notification of award will signify the formation of the contract subject to the signing of the contract between the tenderer and the procuring entity pursuant to clause 2.9. Simultaneously the other tenderers shall be notified that their tenders were not successful.

2.27.3 Upon the successful Tenderer's furnishing of the performance security pursuant to paragraph 2.29 the Procuring entity will promptly notify each unsuccessful Tenderer and will discharge its tender security, pursuant to paragraph 2.12

2.28 Signing of Contract

2.28.1 At the same time as the Procuring entity notifies the successful tenderer that its tender has been accepted, the Procuring entity will simultaneously inform the other tenderers that their tenders have not been successful.

2.28.2 Within fourteen (14) days of receipt of the Contract Form, the successful tenderer shall sign and date the contract and return it to the Procuring entity.

2.28.3 The contract will be definitive upon its signature by the two parties.

2.28.4 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.

2.29 Performance Security

2.29.1 The successful tenderer shall furnish the performance security in accordance with the Conditions of Contract, in a form acceptable to the Procuring entity.

2.29.2 Failure by the successful tenderer to comply with the requirement of paragraph 2.29 or paragraph 2.30.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the tender security, in which event the Procuring entity may make the award to the next lowest evaluated tender or call for new tenders.

2.30 Corrupt or Fraudulent Practices

2.30.1 The Procuring entity requires that tenderers observe the highest standard of ethics during the procurement process and execution of contracts. A tenderer shall sign a declaration that he has not and will not be involved in corrupt or fraudulent practices.

2.30.2 The Procuring entity will reject a proposal for award if it determines that the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question

2.30.3 Further a tenderer who is found to have indulged in corrupt or fraudulent practices risks being debarred from participating in public Procurement in Kenya.

Appendix to Instructions to Tenderers

Notes on the Appendix to the Instruction to Tenderers

1. The Appendix to instructions to tenderers is intended to assist the procuring entity in providing specific information in relation to corresponding clause in the instructions to Tenderers included in Section II and has to be prepared for each specific procurement.
2. The procuring entity should specify in the appendix information and requirements specific to the circumstances of the procuring entity, the procuring of the procurement, and the tender evaluation criteria that will apply to the tenders.
3. In preparing the Appendix the following aspects should be taken into consideration;
 - (a) The information that specifies and complements provisions of Section II to be incorporated.
 - (b) Amendments and/or supplements if any, to provisions of Section II as necessitated by the circumstances of the specific procurement to be also incorporated.
4. Section II should remain unchanged and can only be amended through the Appendix to instructions to tenders.
5. Any clause to be included in the appendix to instructions to tenderers must be consistent with the applicable public procurement law and regulations.

Appendix to instructions to Tenderers

The following information for the procurement of insurance services shall complement, supplement, or amend, the provisions on the instructions to tenderers. Wherever there is a conflict between the provisions of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers.

Instruction to tender reference	<i>Particulars of Appendix to instructions to tenderers</i>
Tender Currencies	<i>As per 2.10 above</i>
Address	<i>As per 2.15.2 above</i>
Deadline for Submission of Tenders	<i>As per 2.16.1 above</i>

Opening of tenders	<i>As 2.18.1 above</i>

(Complete as necessary)

SECTION III - GENERAL CONDITIONS OF CONTRACT

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SECTION III GENERAL CONDITIONS OF CONTRACT

3.1. Definitions

3.1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) “The Contract” means the agreement entered into between the Procuring entity and the tenderer, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) “The Contract Price” means the price payable to the tenderer under the Contract for the full and proper performance of its contractual obligations
- (c) “The Services” means services to be provided by the tenderer including any documents, which the tenderer is required to provide to the Procuring entity under the Contract.
- (d) “The Procuring entity” means the organization procuring the services under this Contract
- (e) “The Contractor” means the organization or firm providing the services under this Contract.
- (f) “GCC” means the General Conditions of Contract contained in this section.
- (g) “SCC” means the Special Conditions of Contract
- (h) “Day” means calendar day

3.2. Application

3.2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other part of the contract

3.3. Standards

3.3.1 The services provided under this Contract shall conform to the standards mentioned in the schedule of requirements.

3.4. Use of Contract Documents and Information

3.4.1 The Contractor shall not, without the Procuring entity’s prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or

information furnished by or on behalf of the Procuring entity in connection therewith, to any person other than a person employed by the contractor in the performance of the Contract.

3.4.2 The Contractor shall not, without the Procuring entity's prior written consent, make use of any document or information enumerated in paragraph 2.4.1 above.

3.4.3 Any document, other than the Contract itself, enumerated in paragraph 2.4.1 shall remain the property of the Procuring entity and shall be returned (all copies) to the Procuring entity on completion of the contract's or performance under the Contract if so required by the Procuring entity.

3.5. Patent Rights

3.5.1 The Contractor shall indemnify the Procuring entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the services under the contract or any part thereof.

3.6 Performance Security

3.6.1 Within twenty-eight (28) days of receipt of the notification of Contract award, the successful tenderer shall furnish to the Procuring entity the performance security where applicable in the amount specified in SCC

3.6.2 The proceeds of the performance security shall be payable to the Procuring entity as compensation for any loss resulting from the Tenderer's failure to complete its obligations under the Contract.

3.6.3 The performance security shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring entity and shall be in the form of:

- a) Cash.
- b) A bank guarantee.
- c) Such insurance guarantee approved by the Authority.
- d) Letter of credit.

3.6.4 The performance security will be discharged by the Procuring entity and returned to the Candidate not later than thirty (30) days following the date of completion of the Contractor's performance of obligations under the Contract, including any warranty obligations, under the Contract.

3.7. Delivery of services and Documents

3.7.1 Delivery of the services shall be made by the Contractor in accordance with the terms specified by the procuring entity in the schedule of requirements and the special conditions of contract

3.8. Payment

- 3.81. The method and conditions of payment to be made to the contractor under this Contract shall be specified in SCC
- 3.82. Payment shall be made promptly by the Procuring entity, but in no case later than sixty (60) days after submission of an invoice or claim by the contractor

3.9. Prices

- 3.9.1 Prices charges by the contractor for Services performed under the Contract shall not, with the exception of any price adjustments authorized in SCC vary from the prices quoted by the tenderer in its tender or in the procuring entity's request for tender validity extension the case may be. No variation in or modification to the terms of the contract shall be made except by written amendments signed by the parties.
- 3.9.2 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)
- 3.9.3 Where contract price variation is allowed the variation shall not exceed 10% of the original contract price
- 3.9.4 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request.

3.10. Assignment

- 3.10.1 The Contractor shall not assign, in whole or in part, its obligations to perform under this Contract, except with the Procuring entity's prior written consent.

3.11. Termination for Default

- 3.11.1 The Procuring entity may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Contractor terminate this Contract in whole or in part:
 - (a) if the Contractor fails to provide any or all of the services within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring entity.
 - (b) If the Contractor fails to perform any other obligation(s) under the Contract
 - (c) If the Contract in the judgment of the Procuring entity has engaged in corrupt or fraudulent practices in competing for or in executing the contract
- 3.11.2 In the event the Procuring entity terminates the contract in whole or in part, it may procure, upon such terms and in such manner as it deems appropriate, services similar to those undelivered, and the Contractor shall be liable to the Procuring entity for any excess costs for such similar services. However, the contractor shall continue performance of the contract to extent not terminated.

3.12. Termination for Insolvency

- 3.12.1 The Procuring entity may at any time terminate the contract by giving written notice to the Contractor if the contractor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the contractor, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the procuring entity.

3.13. Termination for Convenience

- 3.13.1 The Procuring entity by written notice sent to the contractor, may terminate the contract in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the procuring entities convenience, the extent to which performance of the contractor of the contract is terminated and the date on which such termination becomes effective.
- 3.13.2 For the remaining part of the contract after termination the procuring entity may elect to cancel the services and pay to the contractor an agreed amount for partially completed services.

3.14 Resolution of Disputes

- 3.14.1 The procuring entity and the contractor shall make every effort to resolve amicably by direct informal negotiations and disagreement or disputes arising between them under or in connection with the contract
- 3.14.2 If after thirty (30) days from the commencement of such informal negotiations both parties have been unable to resolve amicably a contract dispute either party may require that the dispute be referred for resolution to the formal mechanisms specified in the SCC.

3.15. Governing Language

- 3.15.1. The contract shall be written in the English language. All correspondence and other documents pertaining to the contract, which are exchanged by the parties shall be written in the same language.

3.16. Applicable Law

- 3.16.1 The contract shall be interpreted in accordance with the laws of Kenya unless otherwise expressly specified in the SCC.

3.17 Force Majeure

3.17.1 The Contractor shall not be liable for forfeiture of its performance security, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

3.18 Notices

3.18.1 Any notices given by one party to the other pursuant to this contract shall be sent to the other party by post or by Fax or Email and confirmed in writing to the other party's address specified in the SCC.

3.18.2 A notice shall be effective when delivered or on the notices effective date, whichever is later.

SECTION IV -SPECIAL CONDITIONS OF CONTRACT

Notes on Special Conditions of Contract

1. The clauses in this section are intended to assist the procuring entity in providing contract-specific information in relation to corresponding clauses in the General Conditions of Contract
2. The Provisions of Section IV complement the General Conditions of Contract included in Section III, specifying contractual requirements linked to the special circumstances of the procuring entity and the insurance cover required. In preparing Section IV, the following aspects should be taken into consideration.
 - (a) Information that complement provisions of Section III must be incorporated; and
 - (b) Amendments and/or supplements to provisions of Section III, as necessitated by the circumstances of the specific insurance cover required must also be incorporated.
3. Where there is a conflict between the provisions of the special conditions of contract and the provisions of the general conditions of contract, the provisions of the special conditions of contract shall prevail over the provisions of the general conditions of contract.
4. Any clause to be included in this section must be consistent with the applicable public procurement law and regulations.

**COUNTY ASSEMBLY OF MIGORI
PROPOSED CONSTRUCTION OF M.C.A PLAZA**

Specifications & Bills of Quantities

PHASE 1

OCTOBER, 2023

TRADE PREAMBLES/ SPECIFICATIONS

NOTES:

Descriptions of the measured works in these bills of quantities shall be read in conjunction with these preambles. Where there is a conflict between the said descriptions and these preambles, clarification should be sought from the Architect. Should the Contractor find no parallel specification for items described in the bills, he should notify the Architect and seek further directions before pricing and/or proceeding with the work.

Any work which may be condemned because of the Contractor's failure to observe the provision here above shall be rectified at the Contractor's cost.

The term Engineer wherever used in this section refers to the project Structural Engineer

TRADE PREAMBLES GENERAL

GENERALLY

Generally for the purpose of the proposed buildings the following British standard specifications are referred to or their equivalent Kenya Bureau of standard specifications.

Glossary of general building terms to conform to B.S. 3589.

Schedule of weights of Building materials to conform to B.S. 648

Glossary of formwork terms to conform to B.S. 4330

Glossary of terms relating to timber preservation to conform to B.S. 426.

Glossary of terms relating to builder's hardware to conform to B.S. 3827, Part 1-4.

Glossary of terms relating to internal flooring, external rendering and floor screeding to conform to B.S. 4049.

Glossary of terms applicable to sanitation to conform to B.S. 4118.

Glossary of terms used in glass industry to conform to B.S. 3447.

Glossary of terms applicable to paint to conform to B.S. 2015.

Glossary of terms applicable to landscapes work shall conform to B.S. 3975.\

Methods of testing plasters top to conform to B.S. 2782.

Fire tests on building materials and structures to conform to B.S. 476 part 2, 3, 4, 5, 6, and 7.

EXCAVATIONS AND EARTHWORKS

STANDARDS APPLICABLE

The following British standard specifications are referred to herein after.

Methods of tests for stabilized soils B.S. 1924.

The following codes of practice are referred to:

Earth works to conform to C.P. 2003.

Foundations and substructure to conform to C.P 101

Protection of building against water from underground to conform to C.P. 102.

Excavations for foundations to conform to C.P. 204

INSPECTION AND SITE VISIT

The Contractor shall be deemed to have visited the site and have ascertained the nature of the soil and/or materials in which excavations are required.

SETTING OUT

Setting out for excavations for the column bases the strips foundations shall be approved by the Architect and Structural Engineers before work is commenced and all excavations, filling and hardcore shall be approved before being concreted or covered up. **Any excavations made in excess of Architects instructions shall be filled with concrete class 1:4:8 at Contractor's expense.**

Excavations for the bases shall be to the widths, depths and levels shown of the Architects and Engineer's drawings.

FILLING

Filling back where required shall be with selected hard dry materials from excavations.

Hardcore filling where required shall consist of hard broken blocks, broken stone, or other inert materials broken to gauge 100 mm downwards before being placed. It shall be laid in layers not exceeding 200 mm thick, well-watered, rammed and compacted to the Engineer's approval.

RATES FOR FILLING

The rates for filling or disposal of any material shall include for any double handling. Disposal of all surplus excavated materials, etc., shall be as instructed and rates shall include for loading and removing from site to approved dumping sites.

RATES FOR CART AWAY

Rates for cart away shall include for loading and carting off the site to a tip to be provided by the Contractor. Contractor's attention is drawn to the local authority requirements pertaining to tips, spreading and leveling on site of surplus excavated material may be carried ONLY with the approval of the Architects.

BLINDING

The surfaces of hardcore arising from hardcore fill or from hardcore exposed after breaking up floor bed shall be leveled and properly graded as required and blinded with good quality laterite material, gravel or murrum which shall be watered before concreting.

INSECTICIDE TREATMENT

All the blinded surfaces of hardcore shall be treated with 'Dagnet FT' or other equal approved insecticide in accordance with the manufacturer's instructions.

POLYTHENE SHEETS D.P.M.

On all floor beds the Contractor shall provide and fix a damp proof polythene sheet damp proof membrane of the gauge specified in the measured works section of these Bills of quantities. The membrane shall be laid over blinding within plinth and with minimum laps of 300 mm.

PROTECT WORK

The Contractor shall protect all the works in this trade from any damage whatsoever.

GROUND WATER LEVEL

The Contractor shall make all necessary enquiries concerning ground water level on the site, and shall take all necessary precautions and allow for variations from normal level when working on any part of the site.

APPROVAL OF EXCAVATIONS

The Contractor shall inform the Architect when excavations are complete, and shall obtain Architect's approval before commencing any filling or concreting work.

CLASSIFICATION OF EXCAVATION

Excavations measured in these Bills of Quantities shall be as follows:

Rock or hard material. This shall comprise excavation in all materials which cannot be removed except by blasting or by use of metal wedges and sledge hammers or by mechanical compressed air equipment.

In normal or soft material, this shall include excavations in materials which can be removed without recourse to methods described for rock above.

The Architect will determine the class and extent of each type of excavated material. When the Contractor considers that the excavated material is of class (a) above, he must inform the Architect in sufficient time for the Architect to determine the class and precise extent of such material.

CONCRETE WORK

GENERALLY

A competent Foreman who shall be fluent in spoken English shall be employed on the site whose first duty will be to supervise all stages of preparation and placing of the concrete. Credentials of the foreman shall be issued to the Architects before commencement of the works.

Before construction commences the Contractor shall supply to the Engineer for his approval, the proposed layouts of his concreting plant and on site workshops, details of formwork systems and the construction equipment e.g. cranes, chutes, scaffolding which he proposes using for the structural work.

The Contractor is to check all drawings carefully before any part of the work is carried out. Should there be any discrepancy in the information shown on the drawings the Contractor will be responsible for pointing this out to the Engineer before any of the work which is affected is carried out,. Only when the Engineer has corrected the discrepancy in writing may this work be carried out.

Bending schedules will be issued and these are to be checked by the Contractor. Should there be any discrepancy between the bending schedule and drawings, the drawing will take precedence, but the discrepancy must be pointed out to the Engineer before the work affected is carried out.

Under no circumstances is the Contractor to proceed with concreting without obtaining the final approval of the Engineer in writing with regard to reinforcement, formwork, plant, etc.

CODES OF PRACTICE

Insitu concrete shall be in accordance with B.S. Code of practice BS 8110: Part 2, 1997 and in accordance with any amendments to this which may have been issued at the time of inviting tenders.

Precast concrete shall be in accordance with Section 5 of BS 8110: Part 2, 1997 and in accordance with any amendments to this which have been issued at the time of inviting tenders.

MATERIALS

Samples of materials the Contractor proposes using throughout the job shall be tested and/or approved by the Engineer in writing before deliveries to the site are commenced.

CEMENT

Unless otherwise specified, cement shall be ordinary Portland Cement in Accordance with B.S. 12 part 1971.

The Cement manufacturer's name shall be given to the Engineer before work commences and no other manufacturer's cement will be allowed on the site without approval of the Engineer. Cement should not be older than six (6) months from the date of manufacture.

No two types of cement may be used together in combination. All cement shall be delivered to the site in the original sealed bags of the manufacturer or in bulk containers approved by the Engineer. Re-bagged cement shall not be used for the works.

Cement shall be stored in a dry shed or container, the floor of which shall be raised above the ground and it shall at all times be protected from deterioration due to moisture or other causes. It shall as far as possible be used in the order in which it is delivered to the site and cement which upon inspection by the Engineer is considered by him to have deteriorated in any way shall be removed from the site with immediate effect.

WATER

Water for mixing and curing concrete shall be clean and fresh and shall only be obtained from the Municipal Council mains. Where doubts exist as to the suitability of the water it shall be tested at the Contractor's expense in accordance with B.S. 3148. 1959.

AGGREGATES

Aggregates shall conform with the requirements of B.S. 882 1965 and are to be approved in all respects by the Engineer before work commences.

All aggregates are to be obtained from one source for the whole of the works and are to be uniform in colour and hardness

The grading of aggregates shall be one within the limits set out in B.S 882 and as later specified and the grading, once approved, shall be adhered to throughout the works and not varied without the approval of the Engineer.

Fine aggregates shall be clean, coarse siliceous sand of good sharp hard quality and shall be free from lumps of stone, earth, loam, dust, salt, organic matter or any other deleterious substances.

Coarse aggregates shall be good, hard, clean approved black-trap or similar stone, free from dust, decomposed stones, clay, earthy matter, foreign substances, fibre and thin elongated or laminated pieces.

If in the opinion of Engineer the aggregate meets with the above requirements but is dirty or adulterated in any manner it shall be screened and/or washed with clean water if he so directs at the Contractor's expense.

Fine aggregates shall be of grading zones 1 to 3. Sand of grading zone 4 may not be used unless the Contractor can show by trial mixes that by the use of this he can produce concrete which is of the required quality.

Coarse aggregates shall be of 18 mm. Maximum size down to 4.5 mm and shall be graded according to B.S. 882.

Aggregates shall be stored on concrete paved areas with dividing walls between each type. On no account shall aggregates be stock piled on the ground.

BATCHING

All materials for concrete shall be measured separately by weight in approved weight batching equipment. Such equipment shall be checked at weekly intervals at the Contractor's expense and shall be accurate to within 2%

ADDITIVES

No additives other than those specified shall be used in the concrete without the written approval of the Architects and/or Engineer.

CONCRETE MIXES

Preliminary design mix cubes shall be made using the proportions of material as ascertained from the grade analysis. Six cubes are to be made for each mix, three to be tested at 7 days and three to be rested at 28 days. The preliminary cube test results shall exceed the works cube strength specified in the table below by at least 33.3%.

No structural concrete shall be made until the Engineers have approved the preliminary works cube test results. Thereafter these approved proportions shall be adhered to throughout the works, and may only be varied on the instructions of the Architect.

The mixes for concrete in the various parts of the works are listed below. The 28 days strengths refer to tests made on 6 in or 4 in cubes made in accordance with B.S.1881.

Concrete mixes shall be designed in accordance with BS 8110 and proportions of cement, fine aggregates, coarse aggregate and water shall be chosen by the Contractor to achieve the specified minimum cube crushing strength together with the appropriate workability.

Grade/ Location	Minimum work Cube Strength at 28 days	Nominal size of Coarse aggregate	Maximum Cement per Cubic M.	Minimum Cement per Cubic M.,	Slump
Reinforced Concrete (Design Mix)	25.0N./ M2	20 mm	540 Kg./CM	240Kg/CM	25mm
Reinforced Concrete (Nominal Mix)	21.0 N./ M2	20mm	-	-	25mm
Blinding and Mass concrete	21.0 N/M2	40mm	-	-	-

WORKABILITY

The concrete shall be just sufficiently workable for it to be placed and compacted without difficulty to produce the densest finished concrete consistent with the method of compaction specified.

The slump test is to be used as a guide for maintaining constant workability and the tolerance on the slumps specified shall not exceed (20mm).

MIXING

When the aggregate natural water content exceeds the specified dry condition the amount of water added to the mix shall be adjusted to maintain the correct consistency as determined by the slump test.

All mixing shall be done by power operated rotating drum mixers which shall be fitted with an accurate water gauge to be checked at weekly intervals Mixing shall continue until the concrete is of an even colour or consistency or for the period recommended by the manufacturer of the mixer or for 2 minutes, whichever is the longer. The entire mix shall be discharged before charging the mixer, The volume of the mixed materials shall not exceed the rated capacity of the mixer

At all times mixers must be maintained in a clean condition. Prior to the first mix being agitated in the mixer, a rich cement/sand mix shall be used to coat the inside of the drum, the surplus material being emptied away and not used in the works.

READY MIXED CONCRETE

Ready mixed concrete may only be used with the permission of the Engineer. The use of ready-mixed concrete shall not relieve the Contractor of any of his obligations and the appropriate clauses of this specifications shall apply to the Ready-Mixed concrete supplier. Concrete test tubes shall be taken on the site at the point and time of discharge in accordance with this specification irrespective of any cubes that the supplier may take at his own works.

FINISHES

The surface finish of the concrete on the various parts of the works will be as follows:

Normal finish- This finish is obtained from the use of properly designed moulds of closely jointed sawn boards. Small surface blemishes caused by entrapped air will be permitted but the surface shall be free of voids, honey combing or other large blemishes.

Fair Faced Finish - This finish is to be obtained by the use of properly designed moulds having a hard smooth surface. The concrete surface shall be smooth and even with sharp, true arises.

Only very minor surface blemishes should occur and there shall be no staining or discoloration.

EXPOSED AGGREGATE FINISHES

An exposed aggregate finish may be obtained by the use of approved cement which shall be applied to the face of the formwork. Once the formwork has been struck, and in accordance with the retarding agent's manufacturer's instructions, the surface shall be brushed and/or washed to remove the surface cement and expose the aggregate.

STRENGTH AND SOUNDNESS

The strength and soundness of the concrete will be generally determined by cube tests, Schmidt hammer tests or by any other method which the Architect considers to be appropriate and suitable. The opinion of the Architect regarding the soundness and acceptability of the finished concrete shall be final.

MAKING GOOD

No patching or making good shall be undertaken without the written permission of the Architect. It may only be done by a method to be approved by the Architect and if the Contractor wishes to make good any part of the work he will be required to submit to the Architect for his approval full details of the proposed methods of carrying out the making good.

COVER

The cover to reinforcement shall be as stated on the drawings subject to a tolerance of -0 +5mm

TOLERANCES

All concrete surfaces in the finished structure shall be within 5 mm of the theoretical position shown on the drawings.

TRANSPORTING AND PLACING CONCRETE

All machinery platforms, barrows, buckets and shovels used in the transporting and placing of concrete shall be cleaned before concreting commences and on cessation of works.

Concrete shall be discharged from the mixer into a clean level watertight platform or into a clean watertight container. It shall be transported in a manner which ensures that at the point of deposition it is of the correct quality and consistency. All platforms and containers shall be cleaned of the old concrete before fresh concrete is discharged onto them.

Concrete shall be compacted in its final position as soon as possible and before 30 minutes from the time when agitation ceases. When ready-mixed concrete is supplied in purpose agitators and in accordance with B.S. 1926: 1962 the total time taken between the introduction of cement to mix and compaction shall not exceed two hours.

No extra water shall be added to the mix after it has left the mixer. Concreting shall be carried out continuously up to all approved joints.

Should the concreting be stopped due to mechanical malfunctions, accidents, etc., the Architect shall be informed immediately so that necessary measures and precautions can be taken. The cost of any additional work caused by these stoppages shall be the responsibility of the Contractor.

Concrete shall not be dropped from a height which causes segregation, undesirable finish or defective structural quality. When flexible chutes are used they shall be kept free from coatings or hardened concrete.

Pumping of concrete will only be permitted with the written approval of the Engineer.

Notwithstanding any of the above any concrete which shows signs of initial setting before or during placing shall not be used and it shall be removed at the Contractor's expense.

Concrete in foundations and other underground work shall be protected from admixture with falling earth or rock during and after placing.

COMPACTION

Unless otherwise specified all concrete is to be vibrated. The vibration shall be carried out by experienced operators and with immersion type vibrators to the Engineer's approval. The concrete shall be carefully rammed and vibrated in layers so that a homogenous dense mass is obtained.

Vibration must not be allowed to disturb any recently placed concrete that has begun to set. Any water accumulating on the surface of newly placed concrete shall be removed by approved means, and no further concrete shall be placed thereon until water is removed.

Sufficient vibrators shall be provided to correspond with the rate of depositing of the concrete. The vibration shall be continuous throughout the placing of the concrete. Standby vibrators should be on site during all concrete placing.

The Contractor is responsible for maintaining the reinforcement in its correct position, according to the drawings before and during concreting. During concreting a competent steel fixer must be in attendance on the concretors to adjust and correct the positions of any reinforcement which may be displaced. Conduits must be similarly adjusted and cared for. The Contractor must allow for all expenses in connection with vibrating in his rates for concrete and no claim in respect of his not doing so will be allowed

CURING

Concrete shall be protected from adverse weather conditions after placing. Steps shall be taken to prevent excessive rates of evaporating of water from all surfaces due to high temperatures and/or drying winds.

Concrete shall be protected for at least 4 days unless the Engineer approves a lesser period.

During the curing period, horizontal surfaces shall be protected from excessive evaporating of water by:

- a) Formwork in close contact with the concrete, or
- b) Direct continuous application of water, preferably in the form of a mist so as not to damage the surface, or
- c) Covering with an absorbent material kept damp, or an impermeable sheet, close Enough to the surface to prevent excessive circulation of air, or
- d) Other approved means

CONCRETING IN HOT WEATHER

Suitable means shall be provided to ensure that the temperature of the concrete on placing does not exceeding 32 degrees Celsius (90 degrees Fahrenheit)

Concrete shall not be placed around reinforcement of against surfaces which are too hot to touch. All surfaces shall be thoroughly dampened immediately prior to placing the fresh concrete to prevent excessive absorption of water.

Concrete shall be maintained in a damp condition for a minimum of 4 days after placing.

PROTECTION

All concrete faces and edges, particularly those which are exposed without rendering or decoration in the final structure, shall be adequately protected from damage and discolouration at all times.

REINFORCEMENT

Steel reinforcement shall consist of:-

Mild steel bars complying with B.S.4449: 1969

Cold worked, square twisted, bars to B.S. 4461; 1969. High tensile bars shall have a minimum yield stress of 60,000 lb/sq. in (410 N/mm²)

Welded fabric reinforcement to B.S. 4483: 1969

Note: Square twisted bars shall be formed by a 'Torsion controlled' process.

If required by the Architect the Contractor shall provide test certificates from an approved testing authority for the reinforcement being used in the works.

BENDING

Bending of reinforcement shall be carried out at ambient temperatures. The bending dimensions shall apply with B.S. 4466: 1969 unless otherwise specified on the bending.

Temporary bending and subsequent straightening of reinforcement shall be avoided whenever possible. When permitted by the Architect this shall be carried out at ambient temperatures and the internal radius of such bends shall not be less than 4 diameters for mild steel and 6 diameters for cold worked bars.

WELDING

Where welding of plain mild steel bars is approved it shall be carried out in accordance with B.S. 1856: 1964. In the case of steel other than mild steel, details of the welding techniques to be used shall be submitted for approval, and such trials made as required to demonstrate the effect of the welding.

FIXING

All bars and fabric shall be fixed in the position shown on the drawings within the tolerances specified in B.S. 4466. In no case shall the cover specified on the drawings be reduced by more than 5 mm.

Displacement of reinforcement beyond the specified tolerances shall be prevented by supporting the bars sufficiently and securely fixing them together at intersections where necessary.

Spacers shall be used to maintain the cover to all steel and shall be of dense cement mortar unless otherwise other materials are approved by the Architect.

Unless otherwise indicated on the drawings steel fabric shall be lapped at least 300 mm at the ends and sides of square meshes.

Chairs, stools, etc. shall be used to maintain clearance between two or more layers of reinforcement. These in addition to all tying wire must be provided by the Contractor and deemed to be included in the rates for reinforcement.

The fixing of reinforcement shall be checked before and during concreting and particular attention shall be given to the position of top steel in cantilever sections. No steel shall be surrounded by concrete unless it is in its correct position and free from mud, oil paint, retardant, loose rust, or other foreign matter.

No laps shall be made in the reinforcement except where shown on the drawings or where approved by the Engineer.

POSITION OF ELECTRICAL CONDUITS

Unless otherwise instructed by the Engineer or his representative, all electrical conduits to be positioned within the reinforced concrete shall be fixed inside the steel cages and beams and columns and between the top and bottom steel layers in slabs and similar members. The proposed positions shall be shown accurately on a plan to be submitted to the Engineer or his representative, whose approval shall be obtained before any such conduits are placed.

CONCRETE COVER TO REINFORCEMENT

Unless otherwise directed the concrete cover to rod reinforcement over main bars in any face shall be:

Foundation against each face	75 mm
Foundation against blinding	50 mm
Columns	40 mm
Beams	25 mm
Slabs	20 mm

FORMWORK

All formwork shall be of sufficient thickness and with joints close enough to prevent undue leakage of liquid from the concrete and fixed in proper alignment, level and plumb and supported on sufficiently strong bearers, shores, braces, plates, etc., properly held together with bolts or other fastenings to prevent displacement, vibration or movement by weight of materials, men and plant on the same and so wedged and clamped to permit ease of removal of the formwork without jarring the concrete. All formwork shall be treated with an approved mould oil to facilitate efficient easing and removal.

Ribbed walls shall be formed with linings of fibre glass, or steel sheet or other approved materials on the ribbed face. Ribs formed by nailing or screwing timber fillets to main formwork shall not be used for the works.

'Fair face' surfaces shall be clean, smooth, even, true to form and free from all board marks, joint marks, honey combing, pitting, formwork ties, etc. and the Contractor is to provide smooth lining to the forms which will achieve the required finish.

Great care shall be taken to make and maintain all joints in the formwork as tight as possible, to prevent the leakage of grout during vibration with consequent honey combing.

The faces of formwork next to the concrete must be sufficiently true to leave the concrete even enough to take the plaster or finishings as afterwards described herein.

The greatest care must be taken to ensure that all sawdust shavings, chips and other debris are removed from the formwork before concrete is placed in position and necessary arrangements must be made by leaving out a board in the bottom of the formwork or otherwise as required.

The erection, easing and striking of the formwork must be done under the personal supervision of a competent foreman, and any damage occurring through faulty formwork or its incorrect removal shall be made good by the Contractor at his own expense.

No patching or making good of concrete is to be done before inspection of the stripped concrete surface by the Engineer. Only chases, holes and cast-in items as described and detailed on the Engineer's drawings will be allowed. Additional requirements by the Contractor or Sub-Contractors require the Engineer's approval before incorporating in the works.

Should any concrete fail to comply with this specification or in the opinion of the Architect is not up to the standards of this specification, the faulty concrete shall be broken down and replacing any concrete shall be the responsibility of the Contractor at his own cost.

STRIKING FORMWORK

Formwork shall be struck at such a time and in such a manner as to cause no damage to the concrete.

In any case formwork shall not be removed before the following minimum times have elapsed

Sides of beams, columns and edges of slabs	3 clear days
Soffits of beams and slabs	14 days
Vertical props	21 days

WALLING

WALL REINFORCEMENT

Where so specified, shall consist of Hoop Iron 25 mm wide, one strip per 75 mm of wall thickness, laid in alternate joints for the full length of walls, lapped and cramped at running joints and full width of wall at angles and intersections.

CHASING

In load bearing walling for electrical conduit, pipes, etc., is to be kept to a minimum. The size to be cut and position and runs of chases are to be approved by the Architect before any cutting is commenced. Horizontal runs will not be permitted. All walls less than 200 mm thick shall be reinforced.

NATURAL STONE WALLING

Where masonry walls are specified, they shall be constructed of Natural Blue Stone and finished as described under the specification item description in the measured works section of these Bills of Quantities.

MORTARS

Cement mortar shall consist of one part of Portland Cement, three parts of sand by volume,

The cement /lime mortar shall consist of one part of Portland Cement, one part of lime and six parts of sand by volume.

The ingredients of mortar shall be measured in proper gauge boxes on boarded platform the ingredients being thoroughly mixed dry, and again whilst adding water. In the case of cement/lime mortar the sand and lime shall be mixed first and then the cement added. All mortar is to be thoroughly mixed to a uniform consistence with only sufficient water to obtain a plastic condition suitable for trowelling. No mortar that has commenced to set is to be used or re-mixed.

SETTING OUT

The Contractor shall provide proper setting out rods and set out with the same all work showing openings, heights, cills and lintels and shall build the various walls, and piers to the thicknesses, widths and heights shown upon the drawings. No part of the walling shall be carried up more than three feet higher at one time than any other part and in such cases the jointing shall be made in long steps so as to prevent cracks arising and all walls shall be leveled round at floors and wall heads.

BONDING

All blocks shall be properly bonded together and in such a manner that no vertical joints in any one course shall be within 115 mm of a similar joint in the course immediately above and below. Alternate courses of walling at all angles and intersections shall be carried through the full thickness of the adjoining walls.

All perpend, reveals, quoins and other angles and joints of the walls, etc. shall be built strictly true and square.

LAYING AND JOINTING

All bricks and blocks are to be well wetted before laying and tops of walls where left off shall be well wetted before commencing building. All joints are to be 9 mm thick and flushed up and grouted in solid as the works proceeds.

All the other faces shall be cleaned down on completion with a wire brush or as necessary and mortar droppings, smear marks, etc., removed and rates must include for this.

PUTLOG HOLES

All putlog holes shall be carefully, properly and completely filled up on completion of walling and before plastering is commenced.

FAIR FACE

Walling described as fair faced shall be built with selected blocks and pointed with neat recessed joints.

DAMP PROOF COURSE

Damp proof course shall be bituminous felt complying with B.S. 743 weighing not less than 3.80 Kg per metre, free from tears, holes, lapped and 150 mm at running joints and full width of wall at angles, and intersections and bedded in hot bitumen on a levelling screed of cement and sand (1:4) 10 mm thick neatly pointed where exposed.

PRICES TO INCLUDE

The prices for walling shall include for all straight cutting, bonding, plumbing angles, forming reveals, pinning up to underside of concrete soffits and cutting up to sides of columns and cutting and pinning ends of lintels and cills.

CARPENTRY

TIMBER

All timber shall be in accordance with the latest approved Grading Rules issued by the Government of Kenya (legal notice No. 358). Timber for carpentry shall be second (or select) grade.

GENERALLY

All timber shall be inspected as it arrives on the site by the Contractor, and any timber brought on the site and not complying with the Specification or not approved must be removed forthwith from the site and only approved timber shall be used in the works.

The Contractor shall upon signing the Contract, purchase sufficient supplies of specified hardwood to avoid possible shortages of a later date.

SPECIES OF TIMBER

The following timber shall be used:-

Standard Common names

Cypress, Podo, Cedar, Camphor, African Mahogany (Munyama), Meru Oak

TOLERANCES IN THICKNESS

Shall conform with the following extracts from the Government of Kenya Grading Rules (or the Metric equivalent)

1) Hardwood Grading: (First and Second Grades)

The following tolerances in thickness will be admitted:-

- a) 1.5 mm oversize on pieces up to 25 mm in thickness
- b) 1/8 in. oversize on pieces over 25 mm and up to 50 mm in thickness
- c) 6 mm oversize on pieces over 50 mm in thickness

2) Softwood grading: Strength Grades (for carpentry)

First and Second Grades. Undersize not allowed

Oversize: all timber to be sawn oversize by 1.5 mm per 25 mm thickness and width. Not more than 3 mm in thickness and not more than 6 mm in width.

3) Softwood Grading: Appearance, grades (for Joinery) First and Second Grades

All as for Strength Grades above

All timber shall be free of live or dead borer beetle or other insect attack when brought upon the site. The Contractor shall be responsible up to the end of the maintenance period for executing at his own cost all work necessary to eradicate insect attack of timber which becomes evident including the replacement of timber attacked or suspected of being attacked, notwithstanding that the timber concerned may have already been inspected and passed as fit for use.

SEASONING OF TIMBER

All timber shall be seasoned to a moisture content of not more than 22% for carpentry.

WORKMANSHIP

All Carpenter's work shall be accurately set out in strict accordance with the drawings and shall be framed together and securely fixed in the best responsible manner with properly made joints: all bands, nails and screws etc. shall be provided as necessary, directed, and approved, and the Contractor's prices shall allow for all the foregoing.

All workmanship shall be of the best quality.

All Carpenter's work shall be left with sawn surfaces except where particularly specified to the wrought.

DIMENSIONS

Dimensions of timber for Carpentry left with sawn faces shall comply with the previous clause specifying tolerance in thickness. Dimensions for wrought members shall be as described in joinery.

JOINTING

All timber shall be as long as possible and practicable to eliminate joints. Where joints are unavoidable surfaces shall be in contact over the whole area of the joint before fastenings are applied.

No nails, screws or bolts are to be fixed in any split end. If splitting is likely, or is encountered in the course of the work, holes for nails are to be pre-bored at diameters not exceeding 4/5th of the diameter of the nails. Clenched nails must be bent at right angles to the grain. Bull dog connectors shall also be used for connections where appropriate.

Lead holes are to be bored for all screws. When the use of bolts is specified the holes are to be bored from both sides of the timber and are to be of the diameter $D + 1.6$, where D is the diameter of the bolt. Nuts must be brought up tight but care is to be taken to avoid crushing of the timber under the washers.

ROOF COVERING GENERALLY

Roof covering shall be specified in the measured works section of these Bills of Quantities.

JOINERY

ALL TIMBER

All timber shall be FIRST (OR PRIME) Grade. Species of timber and tolerance shall be as defined under "Carpentry."

GENERALLY

All joiner's work shall be accurately set out on boards to full size for the information and guidance of the artisans before commencing the respective works, with all joints, iron work and other works connected therewith fully delineated, Such setting out must be submitted to the Architect and approved before such respective works are commenced.

All joiner's work shall be cut out and framed together soon after the commencement of the building as is practicable, but not be wedged up or glued until the building is ready for fixing of the same. Any portions that warp, wind or develop/shakes or other defects within six months after completion of the Works shall be removed and new portions fixed in their place together with all other work which may be affected thereby, all at the Contractor's own expense.

All work shall be properly mortised, tenoned, housed, shouldered, dovetailed notched, pinned, braided, mitred etc., as directed to the satisfaction of the Architect and all properly glued up with the best quality glue.

Joints in joinery must be as specified or detailed, and so designed and secured as to resist or compensate for any stresses to which they may be subjected. All nails, sprigs, etc., are to be punched and puttied. Loose joints are to be made where provision must be made for shrinkage and glued joints where sealed joints are required.

All exposed surfaces of joinery work shall be wrought and all arises 'cased off' by planing and sand papering to an approved finish suitable to the specified treatment.

INSECT DAMAGE

All timber shall be free from insect damage as defined under 'carpentry'

SEASONING OF TIMBER

All timber shall be seasoned to a moisture content of not more than 15%.

DIMENSIONS

3 mm Reductions of specified sizes will be allowed to each wrought face except where described as finished sizes in which joinery shall hold up to the full dimensions.

The Contractor is to note that all joinery timber sizes are nominal unless otherwise state as finished sizes. These nominal sizes have been calculated in accordance with Standard Method of Measurement of Building Works for East Africa (2008), 2nd edition Metric and no regard has been taken of metric sizes of timber at present being sold.

FIXING JOINERY

All beads, fillets and small members shall be fixed with round or oval brads or nails well punched in and stopped. All larger members shall be fixed with screws. Brass screws shall be used for fixing of all hardwoods, the heads, let in and palleted over with wood to match the grain.

BEDDING FRAMES, ETC.

The Contractor's rates must include for bedding frames, sills, etc., in mortar or dressing surfaces of walls etc. in lieu.

PLUGGING CONCRETE AND WALLS

Round wood plugs shall not be used, all work described shall be fixed with screws to plugs formed by drilling concrete walls, etc., with a proper tool of suitable size at 750 mm spacing and filing the holes completely with 'philplug' rawl plastic or rawl plugs in accordance with the manufacturer's instructions. Alternatively and where so agreed by the Architect hardwood dovetailed fixing slips, dipped in 'wolmanol' or 'Celcure B' solution and cut and pinned or bedded in cement mortar (1:3) may be used.

BLOCKBOARD

Shall be laminated board faced both sides with 4 mm plywood. Exposed edges shall be lipped with 19 mm hardwood and rates shall include for lipping.

PROTECTION OF JOINERY

All fixed joinery which in the opinion of the architect is liable to become bruised or damaged in any way, shall be completely cased and protected by the Contractor until the completion of the works.

FLUSH DOORS

All flush doors shall be manufactured to the thicknesses specified and consists of 100 mm wide framing all round with horizontal core battens at not more than 75 mm centres pressure impregnated as described and bored with 12 mm diameter ventilation holes at 300 mm centres. Doors shall have two lock blocks and be faced both sides with 6 mm plywood as specified and have 25 mm mahogany twice rebated lipping all round and otherwise be equal to an approved sample. External flush doors shall be as described above but faced both sides with marine quality plywood.

PRICES TO INCLUDE

Prices of items hereafter shall include for the foregoing labours, etc., and in addition all prices for linear items are to include all internal and external angles, either mitred or tongued, all fair, fitted, stopped, notched or returned ends, all similar incidental labours and all short lengths.

BOTTOM EDGES

Bottom edges of doors shall be painted with one coat of approved prime before fixing.

IRONMONGERY

All locks and ironmongery shall be fixed with screws etc., to match. Before the wood work is painted, handles shall be removed carefully stored and re-fixed after completion of painting and locks oiled and left in perfect working order. All keys shall be labelled with the door reference numbers marked on labels before handing over to the Architect on completion.

METAL WORKS

ALL MATERIALS

Shall be of the best quality, free from defects. The materials in all stages of transportation, handling and piling shall be kept clean and injury from, breaking, bending and distortion prevented

NAILS, SCREWS AND BOLTS

Shall be of the best quality mild steel of lengths and weights approved by the Architect. Nails shall be to B.S. 1202 and bolts to B.S 916.

WORKMANSHIP

All work shall be carried out in the most workmanlike manner and strictly as directed by the Architect.

Welding shall be neatly cleaned off and units shall be prefabricated in the workshop whenever possible, the minimum of site welding being employed.

All screwed work shall have full internal and external threads and holes shall have been cleared off. Counter-sinking must be concentric.

RAINWATER GOODS

Prices shall include for building in, casting in or cutting mortises to form fastenings, all making good, joints, short lengths and all extra joints in the case of fittings.

FIXING METAL WINDOWS AND DOORS

The Contractor's prices for fixing metal windows, doors, etc., shall include for assembling and fixing, cutting mortises for lugs in concrete or walling and running with cement mortar (1:4) bedding frames in similar mortar and pointing in mastic, bedding cills, transoms and mullions in mastic, making good plaster around frames both sides and fixing, oiling and adjusting all fittings

MILD STEEL

Steel for burglar bars and reinforcement shall comply with B.S. 15. No work shall be fabricated until site dimensions have been checked and no additional claim will be accepted should final dimensions differ from those on the drawings.

All welds shall be ground smooth and the Contractor shall ensure that the metal work is prepared for painting as described in painting and decorating.

The Contractor is to ensure that all work is erected plumb and true and be so maintained until properly secured by permanent fixing.

STRUCTURAL HOLLOW SECTIONS

All hollow sections are to be connected by electric arc welding

For butt welds the fusion surfaces of each member must be properly aligned and prepared.

PAINTING

All steel is to be wire brushed and sanded, and any loose scale, dirt or grease shall be removed before any painting is commenced. One coat of red oxide primer type A to BS 2523 shall be applied at the shop. Any damage to the priming paint shall be made good to the Architect's satisfaction.

PLASTER WORK AND OTHER FINISHES

CEMENT

The cement shall be as previously described in 'Concrete Work'.

SAND

The sand shall be as described for fine aggregate but that for plastering shall be light in colour and well graded to a suitable fineness in accordance with the nature of the work in order to obtain the finish directed.

LIME

The lime for plastering shall comply with B.S. 890 Class 'A' for non-hydraulic lime and shall be as rich as obtainable and to approval. It must be freshly burnt and shall be slaked at least one month before being used by drenching with water, well broken up and mixed and the wet mixture shall be passed through a sieve of sixty four meshes to the square inch. Lime putty shall consist of freshly slaked lime as above described, saturated with water until semi-fluid and passed through a fine sieve: it shall then be allowed to stand until superfluous water has evaporated and it has become of the consistency of thick paste, in no case for a shorter period than one month before use, during which it must be kept damp and clean and no portion of it allowed to become dry.

Alternatively, hydrated lime with 70% average calcium oxide content may be used and it must be protected from dampness until required for use. It shall be soaked to a putty at least 24 hours before use.

COMPOSITION OF PLASTERS, ETC.

A mix referred to as 1:4 shall mean 41 kg of cement and 0.45 cm. of sand. All other mixes shall be construed in a like manner.

HACKING ETC.

The prices for all paving and plastering, etc. shall include for hacking concrete surfaces and for raking out joints of walls 13 mm deep and for cross scoring undercoats to form a proper key.

Plastering on walls generally shall be taken to include flush faces of lintels, beams, etc. in same.

All surfaces to be paved or plastered must be brushed clean and well wetted before each coat is applied. All cement pavings and plaster shall be kept continually damp in the intervals between application of coat and for seven days after the application of the final coat.

DUBBING OUT

Where required shall be composed of one part of cement to six parts of sand.

Partially or wholly set materials will not be allowed to be used or re-mixed. The plaster, etc., mixes must be used within two hours of being combined with water.

FINISH GENERALLY

All screeds and paving shall be finished plump, square, smooth, hard and even and junctions between surfaces shall be perfectly true, straight and square.

All work shall be approved and any not complying with the above shall be hacked away and replaced at the Contractor's expense.

ARISES AND ANGLES

All arises and angles shall be clean and sharp or slightly rounded or thumb covered as directed including neatly forming mitres.

MAKING GOOD

All making good shall be cut out to a rectangular shape, the edges undercut to form dovetail key and finished flush with the face of the surrounding paving or plaster. cut out and make good all cracks, blister and other defects and leave the whole of the work perfect on completion.

PRICES TO INCLUDE

In addition to the foregoing, prices of superficial items are to include for work in narrow widths, all linear labours, angles and arises, all fair edges, for making good up to or stopping to a line at the required level at top of skirting or dado rails where directed and for making good up to windows doors frames and similar.

The prices for all linear items unless otherwise measured are to include for all short lengths, angles and arises, mitres and ends of every description.

FLOOR SCREEDS

Shall be composed of cement and sand and shall not be laid in an area exceeding one hundred and twenty square feet during any period of 24 hours. As bays are formed, batten strips must be used to retain the exposed edge of the screed.

Lime plastering shall consist of first coat in cement lime and sand (1:2:9) and finish coat of lime putty skin with 10% cement added. The two coats shall have a total finished coat of not less than 12 mm thick.

The first coat shall be trowelled to a perfectly true and even surface and finished with a wood float, the surface being sprinkled with water from a brush during the process and before it has set, thoroughly scratched to form key. The finishing coat shall not be less than 1 mm thick thoroughly worked with trowel and sprinkled with water as before and be brought to a uniform smooth hard surface.

Lightweight roof screeds shall consist of cement, sand and pumice (1:3:7) and finished with a 13 mm layer of cement and sand (1:4). Screeds shall not be laid in areas exceeding one hundred and twenty square feet during any period of 24 hours. As bays are formed batten strips must be used to retain the exposed edge of the screed. Screeds shall be finished to falls and crossfalls to receive other finishes as specified.

WALL TILES

Shall be approved quality and of approved size and thickness, with associated fittings all to B.S. 1281. Tiles shall be well soaked in water, laid with straight horizontal and vertical joints and bedded in cement screed (1;4) and pointed in white cement and cleaned down on completion all to Architect's approval.

Rates for linear items shall include for all special fittings and cutting at angles and intersections.

GLAZING

GLASS

All glass shall be of British manufacture complying with B.S. 952, free from flaws, bubbles, specks and other imperfections. All glass shall be delivered in proper containers with maker's name, guarantee, type of glass and thickness or weight of glass attached to the outside of the containers.

Glass panes shall be cut to sizes to fit the openings with not more than 1.5 mm play all round and where puttied shall be sprigged to wood or clipped to metal frames.

Clear sheet glass shall be ordinary glazing (O.Q.) quality. Polishes plate glass shall be G.G. quality.

Obscured glass shall be rough cast plain rolled glass 6 mm thick.

Wired glass shall be polished Georgian wired glass 6 mm thick.

BEADS AND WASHLEATHER

The glass to doors and screens and other places where vibration may occur shall be bedded in wash leather with beads and fixed with brass cups and screws.

The timber rebates shall be cleaned, primed and painted with one coat of oil paint.

PUTTY

For glazing in wood frames shall be composed to pure linseed oil and powdered whitting free from grit in accordance with B.S, 544 type 1 putty.

Putty for glazing in metal frames shall be quick hard setting tropical putty specifically manufactured for use with steel windows.

Rebates of metal frames receiving glass shall be prepared and treated with primer for putty prior to glazing and putty shall be primed ten days after glazing.

BEDDING STRIPS

Shall be of plastic or wash leather approved by the Architect and shall be cut to fit exactly the line of frame and beads

ON COMPLETION

Remove all broken scratched or cracked panes and replace with new to the satisfaction of the Architect; clean inside and out with an approved cleaner. On no account shall windows be cleaned by scraping with glass.

PAINTING AND DECORATING

GENERALLY

The Contractor shall arrange his programme for work such that all other trades within the area where painting is being done are completed before painting begins. Before painting the Contractor must prepare the surfaces to the satisfaction of the Architect and in accordance with the paint manufacturer's instructions.

All plaster, metal, wood or other surface which are to receive paint, stain, polish, distemper or paintwork of any description are to be carefully inspected by the painting Sub-Contractor and the main Contractor before paintwork commences. The Sub-Contractor should ensure that all such surfaces are finished (by the main Contractor) satisfactorily before commencing any paintwork as he (the Sub-Contractor) will be held responsible for any defective paintwork arising from the background being of unsatisfactory finish prior to the paint being applied on it.

PAINTING GENERALLY

All materials are to be of the best quality and shall be of an approved proprietary brand selected from the latest Schedule of approved paints issued by the Ministry of Works.

All materials to be applied externally shall be of exterior quality and/or recommended by the Manufacturers for external use.

All materials shall be delivered on site intact in the original sealed drums or tins and shall be mixed and applied strictly in accordance with manufacturer's instructions and to the approval of the Architect.

Unless specifically instructed or approved by the Architect no paints distemper, etc., are to be thinned or otherwise adulterated, but are to be used as supplied by the Manufacturers and direct from the tins,

If required by the Architect the Contractor is to provide at his own expense samples of paints, etc., with containers and cases to be forwarded carriage paid by the Contractor for analysis to a laboratory.

The priming, undercoats and finishing coats shall each be of differing tints and the priming and undercoats shall be the correct brands and tints to suit the respective coats, in accordance with the Manufacturer's instructions. All finishing coats shall be of colours and tints selected by the architect. Each coat must be approved by the Architect before the next coat is applied.

Each coat shall be properly dry and in the case of oil or enamel paints shall be well rubbed down with fine glass paper before the next coat is applied. The paintwork shall be finished smooth and free from brush marks.

Colour cards of all paints, etc., shall be submitted to and samples prepared for approval of the Architect before laying on and such samples, when approved, shall become the standard for work.

Oil paints, emulsion paints, and distempers shall be applied by means of a brush or spray gun or rollers of an approved type, where so agreed by the Architect. No painting is to be done in wet weather or on surfaces which are not thoroughly dry.

Prices of paint, distemper, etc. shall include for preparation of surfaces, rubbing down between each coat, stopping, knotting, etc., and all other work in connection and as described and as necessary to obtain a first class and proper finish to approval.

Emulsion paint on ceiling and all undercoats of emulsion paint and completed oil painting on walls shall be completed before floorings are laid. Final coats of emulsion paints on walls shall be applied after such flooring has been laid complete.

SAMPLES

The Contractor shall furnish at the earliest possible opportunity before work commences and at his own cost, samples of painting for the Architect's approval and any further samples in the case of rejection until such samples are approved by the Architect and such samples when approved shall be the minimum standard for the work to which they apply.

The Architect may reject any materials or workmanship not in his opinion up to the approved samples and these must be removed from the site without delay.

PREPARATION AND PRIMING OF PLASTER, ETC., SURFACES

Plaster surfaces shall be perfectly smooth, free from defects and ready for decoration. All such surfaces shall be allowed to dry for a minimum period of six weeks, stopped with approved plaster stopping compound and rubbed down flush, as necessary, and then be thoroughly brushed down and left free from all efflorescence, dirt and dust immediately prior to decorating.

Plaster surfaces which are to be finished with emulsion, oil or enamel paint, shall be primed with Leyland primoplas P.20 or other equal and approved and applied in accordance with the Manufacturer's instructions.

PREPARATION AND PRIMING OF FIBREBOARD

Fibreboard or similar surfaces shall be lightly brushed down to remove all dirt, dust and loose particles and have all nail holes or other defects stopped with an approved plaster stopping compound rubbed down flush and left with a texture to match surrounding materials and shall receive one coat primer at last.

PREPARATION AND PRIMING OF METAL WORK

All surfaces shall be thoroughly brushed down with wire brushes, sanded and scraped where necessary to remove all scale rust, etc., immediately prior to decoration and given one coat of red oxide primer, where severe rust exists and if approved by the Architect a proprietary de-rusting solution may be used in accordance with the Manufacturer's instructions.

Galvanised surfaces shall be treated before painting with a solution of calcium plumbate, applied in strict accordance with the Manufacturer's printed instructions (agent, : M/S Dodwell & Co., Nairobi) or with an approved calcium plumbate primer.

PREPARATION AND PRIMING WOODWORK

All woodwork shall be rubbed down, all knots covered with a thick coat of good shellac or aluminum knotting; primed with one coat of approved ready mixed proprietary wood primer and all cracks, nails holes, defects and uneven surfaces, etc., stopped and faced up with hard stopping rubbed down flush. Plywood shall be brushed filled over the entire surface

Woodwork to receive finishes other than paint shall have all stains removed and shall be well rubbed down and have all defects leveled with hard stopping of a colour to match the adjoining surface.

WOOD PRESERVATIVE

All woodwork in contact with walling or plaster shall be treated after cutting and preparation but before assembly or fixing with one coat of approved wood preservative.

WAX POLISH

Wax polish shall be furniture polish of an approved brand, and wood surfaces shall be clean, smooth, free from oil or grease or any other blemishes. A minimum of two coats shall be applied to approval.

EMULSION PAINT

Emulsion paint shall be of approved brand. After preparation as specified above a minimum of three coats shall be applied using a thinning medium of water only if and as recommended by the Manufacturer.

An approved plaster primer tinted to match may be used for the first coat.

ENAMEL PAINT ON METAL WORK AND WOODWORK

Enamel paint shall be of approved brand. Apply one undercoat and two finishing coats, after preparation and priming as specified above.

IRONMONGERY

Where instructed, all ironmongery on existing components to be painted shall be removed from joinery, steel windows and louvres before painting is commenced, and shall be cleaned and oiled and adjusted if necessary and re-fixed after completion of painting.

PAINTING ITEMS

Painting items as billed hereafter shall include for preparing and priming surfaces as described above.

COVER UP

Cover up all floors, fittings, etc., with dust sheets when executing all painting and decorating works.

CLEANING AND TOUCH UP

Paint splashes, spots and stains shall be removed from floors, woodwork, etc., any damaged surfaces touched up and the whole of the work left clean and excellent upon completion.

Item	Description	Amount
	<p><u>GENERAL AND PARTICULAR PRELIMINARIES</u></p> <p><u>DEFINITION OF TERMS</u></p> <p><u>GENERALLY</u></p> <p>A <u>PRICING ITEMS OF PRELIMINARIES AND PREAMBLES</u></p> <p>The following clauses are given for the guidance of the Contractor in the preparation of his tender.</p> <p>The Contractor must allow in his tender any sum he may consider necessary in respect of these clauses by way of pricing the clauses as required.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>In the case of the contractor leaving unpriced any Preliminary Items, then he shall be deemed to have considered that the rate for the remaining items in the bills of Quantities are sufficient to perform the services and obligations in the items not priced without charge.</p> <p>Wherever in the Contractor's priced Tender Documents no price appears against an item of Preliminaries or Bills of Quantities, the value of such item shall be deemed to be included in their prices for the other items in the Preliminaries and Bills of Quantities.</p> <p>Only those items which are priced in this Section, Preliminaries, of the Bills of Quantities - will be reviewed for adjustment in the event of a variation and any such adjustment in each case shall be in accordance with the merits of each priced item in relation to the variation involved. Therefore it is a condition of this Contract that this Section is priced according to the merits of each item</p> <p><u>DEFINITION OF TERMS</u></p> <p>B <u>Employer</u></p> <p>The term 'The Employer' shall be deemed to mean The County Government of Migori. The term 'Employer', 'Client' and 'Owner' wherever used in this Tender Document shall be synonymous</p> <p>C <u>Architect</u></p> <p>The term "Architect" shall be deemed to mean The County Architect, Department of Public Works - County of Migori</p> <p>D <u>Quantity Surveyor</u></p> <p>The term 'The Quantity Surveyor' shall be deemed to mean The County Quantity Surveyor, Department of Public Works - County of Migori</p> <p>E <u>Engineer</u></p> <p>The term "Engineer" shall be deemed to mean any of the following firms appointed by the Employer to carry out the work under reference</p> <p><u>(a) Electrical and Mechanical Engineers</u></p>	<p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>

	<p>The County Electrical Engineer, Department of Public Works - County of Migori</p> <p><u>(b) Structural/Civil Engineers</u> The County Structural Engineer, Department of Public Works - County of Migori</p> <p><u>(b) Mechanical Engineers</u> The County Mechanical Engineer, Department of Public Works - County of Migori</p>	
	Carried to Collection	0.00
	<p><u>DEFINITIONS CONTINUED:-</u></p> <p>A <u>Contractor</u> The term "Contractor" shall mean the person or persons, firm or Company whose tender has been accepted by the employer and includes the Contractor's legal personal representatives, successors and permitted assigns.</p> <p>B <u>Sub-Contractor</u> The term "Sub-Contractor" shall be deemed to mean the person or persons, partnership, firm or company who has or have been engaged by the Contractor to carry out any Sub-Contract works forming part of this Contract and shall include his or their heirs, etc. as described above or who shall be appointed by the Employer to carry out the Sub-Contract Works.</p> <p>C <u>Approved or Approval</u> Means approved or approval in writing by the Architect unless otherwise specified.</p> <p>D <u>Architect's Instructions</u> <u>Architect's Instructions:</u> Means drawings, detail instructions, directions explanations, approval or orders issued in writing by the Architect or Architect's representative.</p> <p>E <u>'Works'</u> The term 'the works' wherever used hereinafter and in all contract documents shall mean all or any portion of the works, materials and articles wherever the same are being manufactured or prepared which are to be used in the execution of this contract and whether the same be on site or not. It shall also be deemed to include of all sub-contractors and of all variations.</p> <p>F <u>"Ditto"</u> "Ditto" shall mean the whole of the preceding description except as qualified in the section in which it occurs. Where it is in brackets, it shall mean the whole of the preceding description which is contained within the appropriate brackets.</p>	

<p>G</p>	<p><u>Direct or Directions</u> Means directed or directions by the Architect.</p>	
<p>H</p>	<p><u>Contract Drawings</u> The term “the contract Drawings” wherever used hereinafter and in all contract documents shall be deemed to imply the drawings referred to in this document.</p>	-
<p>J</p>	<p><u>Provisional:</u> Provisional: Means that the quantity, description or value of work so described may be varied or executed in whole or in part or omitted entirely from the contract as directed and shall be measured and valued in accordance with the contract.</p>	-
<p>K</p>	<p><u>Site:</u> Site: The term “the site” shall mean the lands and other places on, under, in or through which the works are to be executed or carried out and any other lands or places provided by the employer for the purpose of this contract.</p>	-
Carried to Collection		0.00
<p>A</p>	<p><u>Definition of Abbreviation and Terms</u> The following abbreviations are used throughout these Bills of Quantities to denote the unit of measurement, etc., and the contractor should take due of the under mentioned:- cm / m³ - to denote Cubic Metres sm / m² - to denote Square Metres lm - to denote Liner Metres mm - to denote Millimetre nr/no - to denote Enumerated item mn - to denote Meganewton kg - to denote Kilogramme prs - to denoted Pairs sum/item - to denote pricing on lumpsum basis BS - to denote British Standard current before the date of invitation to tender unless otherwise specifically stated. B.S.C.P. - to denote British Standard Code of practice current three months before the date of invitation to tender unless otherwise specifically stated. SMM - to denote Standard Method of Measurement of Building for East Africa. "MS" Shall mean measured separately VAT' Shall mean Value Added Tax'. <u>The following terms, wherever they occur, shall be interrupted as hereunder:-</u></p>	-

B	The term " approved " " directed " or " selected " shall mean the approval, direction or selection of the Architect.	
C	<p><u>Removal</u></p> <p>The term "removal" shall be held to mean all requisite cutting away, breaking up, sawing or unbolting or cutting by flames as may be required and for handling or basketing the old materials to convenient position on site</p>	
D	<p><u>Clear Away</u></p> <p>The term "clear away" shall be held to mean removal from the site to a tip provided by the contractor including all necessary wheeling, handling, and cartage.</p>	
E	<p><u>Fixing Only</u></p> <p>The term "fixing only" shall be held to mean and including ordering, unloading, unpacking, checking, storing, distributing, assembling, hoisting and fixing complete, and return of empty cases carriage paid to supplier and all costs and charges of work involved in obtaining replacement of goods damaged in transit, and also for replacement by the contractor of goods or materials damaged or rendered unserviceable subsequent to delivery.</p>	
F	<p><u>'Singular and Plural'</u></p> <p>Words importing the singular only wherever used hereinafter and in all Contract Documents shall also include the plural and vice versa where the context required.</p>	
Carried to Collection		
A	<p><u>SITE</u></p> <p>The site for the proposed works is situated at the County Assembly compound, County Government of Migori</p>	
B	<p><u>VISIT THE SITE</u></p> <p>Before tendering, the Contractor should visit the site and satisfy himself as to local conditions, water, lighting services, the accessibility of the site, the full extent and character of operations, the nature of the ground, the supply of and conditions affecting labour services and materials necessary for the execution of the Contract works generally and shall make all necessary allowances and provisions for his tender as no claim for want of knowledge in this respect will be allowed. If unable to locate the site, he should apply to the Project Manager or directions to enable him to do so.</p>	
C	<p><u>SCOPE OF CONTRACT.</u></p> <p>The Employer intends to construct a 3-storey office block based on the Architectural and Engineering drawings and information provided;-</p>	

D	<p>DRAWINGS</p> <p>Drawings used for the tender documents are attached to the tender. Contractor to note that any difference between the tender drawings and the construction drawings / and or measured quantities do not give room for any claims.</p> <p>Before submitting tenders Contractors may examine all the drawings and satisfy themselves regarding all details as no claim by reason of ignorance to this connection will be entertained</p> <p>The Contractor shall satisfy himself as to the correctness of all drawings and measurements. If the Contractor finds any discrepancy into the drawing or between the drawings and the Bills of Quantities, he shall immediately refer the same to the Consultants who shall decide which shall be followed</p> <p>Figured dimensions will be used in preference to scales mentioned on or attached to any drawing.</p> <p>The Contractor is to take the necessary particulars for ordering his materials and work from the drawings and the work in progress on the building and not use the Bills of Quantities for that purpose.</p> <p>While every effort shall be made to furnish the contractor with all necessary details, the contractor shall not demand bar bending schedules more than six weeks before they are required to be fixed on site</p>	
Carried to Collection		
A.	<p><u>GENERAL MATTERS</u></p> <p><u>EQUIPMENT</u></p> <p>The Contractor shall make available on site as and when required by the Architect a modern and accurate level together with levelling staff, Ranging rods and one 30 metre metallic measuring tape.</p>	
B	<p><u>SUFFICIENCY OF TENDER</u></p>	

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 which rates and prices shall cover all his obligations under the contract and all matters and things necessary for the proper execution, completion and maintenance of the works. Any items left unpriced by the Contractor in the Bills of Quantities shall be deemed to have been included within the rates of the other priced items

C INSURANCE

The contractor shall insure as required by clause 30 of the conditions of contract in Tender documents. No payment on account for the work executed will be made to the Contractor until he has satisfied the Architect either by production of an Insurance Policy or an insurance certificate that the provisions of the Insurance Clauses have been complied with in all respect and payment for premiums made as necessary.

The insurance cover shall include: Contractor’s All Risks Policies, Third Party Liability and Workmen’s Compensation. The Contractor shall further indemnify the Employer against all claims arising out of the execution of the Contract Works.

D BOND OR SECURITY DEPOSIT.

The Contractor will be required to furnish a Bond from approved and well reputed Bank or Insurance Company in a sum equal to 10% of the Contract sum, using the standard form of Bond provided. Alternatively the Architect may at his discretion, accept a security deposit in cash in lieu of the Bond. The deposit is to be of the same amount as the Bond. No payment on account for the work executed will be made to the Contractor until he has submitted the performance Bond to the Architect duly signed, sealed and stamped from an approved Bank.

E SIGNBOARD

The Contractor shall provide, erect and maintain throughout the Contract period and afterwards clear away a signboard in accordance with Drawing CS 1. The height of the lowest board on signboard not to be lower than 1.80m above surrounding ground levels. No other signboard of advertising will be permitted without the written authority from the Architect. Signboard comprises a strong well braced frame set in foundations with a “Title” board and separate boards for all consultants, main and Sub-contractors. The whole of the supports and boards must be well painted and the lettering, which must not exceed 50mm high on the consultants boards, motifs etc. must be carried out by an experienced sign writer to the approval of the signboard as indicated above shall be erected within four (4) weeks from the date of possession of the site.

Carried to Summary

A. SITE OFFICE

The office shall be completed and ready for use within (2) two weeks from the date of site possession subjected to liquidated damages of kshs 30,000.00 per day from non- completion. The site office shall be equipped with sufficient furniture to permit the Architect to hold site meetings in it, and for the Clerk of Works and any other site staff to operate efficiently. Site office shall not be used for storage of materials. The Contractor shall make connections to existing drain and water mains all to the satisfaction of the Architect and Local Authority. The Contractor shall pay for all charges for connections, and water bills during construction and maintenance period. The Contractor shall also allow for providing the services of a cleaner for keeping both office and the closet in a clean and sanitary condition from commencement to the completion of the works.

B WHITE ANTS AND TERMITES

Allow for destroying any white ants and termites' nests found in the vicinity of the buildings, destroying Queen Ants, depositing cyanide lumps in holes and tunnels and filling with hard-core and murram well rammed and scaled.

C SITE LEVELS

Before commencing work the Contractor must arrange for and agree with Consultants the existing site levels and similarly establish and agree a bench mark. Any survey beacons disturbed shall be reinstated at the contractor cost

D WORK TO BE OPENED UP AT THE REQUEST OF THE ARCHITECT

The Contractor shall, at the request of the Architect within such time as the Architect shall name, open for inspection any work covered up, and should the Contractor refuse or neglect to comply with such request, the Architect may employ workmen other than those employed by the Contractor to open up the same. If the said work has been covered up in contravention of the Architect's instructions, or if, on being opened up, it be found not in accordance with the drawings of Bills of Quantities or the instructions of the Architect, the expenses of opening and covering it up again whether done by the Contractor or by the Architect, shall be borne by and be recoverable from the Contractor or may be deducted from any monies due to the Contractor. If the work has not been covered up in contravention of such instructions and be found in accordance with the said drawings and Bills of Quantities, then the expenses aforesaid shall be and requiring immediate attention, the Architect shall within a reasonable time after the work has been opened, make or cause to be made the inspection thereof, and the expiration of such time,

if such inspection shall not have been made the Contractor may cover up the same and shall not be required to open it up again for inspection except at the expense of the Employer.

E PUBLIC AND PRIVATE ROADS, PAVEMENT, ETC.

The Contractor will be required to make good at his own expense any damage he may cause to the present approach road surfaces during the period of the Works.

F OVERTIME

	<p>The Contractor shall be responsible for any extra costs for overtime working he considers will be necessary in order to complete the work within the contract period or time for completion</p>	
Carried to Summary		
<p>A</p>	<p><u>PROTECTION OF WORK</u></p> <p>In the event of any damage occurring to the Works, materials, sewers, drains, gullies, paths or other works on the site in temporary possession of the Contractor for the purpose of this Contract, either from the weather, want of proper protection, defects, or insufficiency of the Works or any other cause whatsoever during the progress of the Works, the Contractor alone shall be responsible and shall without extra charge, make good all damage and pay all costs which may be levied.</p>	
<p>B</p>	<p><u>HEALTH, SITE SAFETY AND FIRST AID FACILITIES</u></p> <p>The Contractor shall comply at all times with the requirements of HSE and ensure that the safety of his work people and authorized visitors to the site is protected at all times. In particular there shall be proper provision of planked footways and guard rails to scaffolding, etc, protection against falling materials and tools and the site to be kept tidy and clear of dangerous rubbish.</p> <p>The Contractor shall appoint a Safety Officer and notify the Safety Inspector of his name. The Safety Officer shall be on site at all times and all directions given by the Architect to the Safety Officer shall be deemed to be Architect's Instructions, and shall be complied with promptly without additional cost to the contract.</p> <p>The Architect shall be empowered to suspend work in the Site should he consider these conditions are not being observed, and no claim arising from such a suspension will be allowed.</p>	
<p>C</p>	<p><u>FIGURED DIMENSIONS</u></p> <p>Figured dimensions are to be followed in preference to dimensions scaled from the drawings but whenever possible dimensions are to be taken on the site or from the buildings. Before any work is commenced by Sub-contractor or specialist firms, dimensions must be checked on the site and/or buildings and agreed with Main Contractor, irrespective of the comparable dimensions shown on the drawings. The Contractor shall be responsible for the accuracy of such dimensions.</p>	
<p>D</p>	<p><u>WORKS PROGRAMME</u></p>	

	<p>The Contractor shall, upon possession of site draw up a works programme, Setting out the order in which the works are to be carried out with the appropriate date thereof. The works programme is to be agreed with the Architect within a maximum of six (6) weeks from the date of possession of site and no deviation from the order set out in the programme will be permitted without the written consent of the Architect. The Main Contractor permitted without the written consent of the Architect. The Main Contractor will be responsible for arranging the above programme with all sub-contractors including nominated sub-contractors and nominated suppliers. Payment shall not be certified and made to the Contractor unless the progress schedule is approved and agreed upon within the stipulated time indicated above.</p> <p>E <u>ACCESS TO SITE AND TEMPORARY ROADS</u> Means of access to the site shall be agreed with the Architect prior to the commencement of the works and the Contractor must allow for building any temporary access roads, culverts, bridges, roadside rain-water drains for the transport of materials, plant and workmen including the provision of any other means of gaining access to the site. Upon completion of the works the Contractor shall remove such temporary access roads, temporary culverts, etc and make good and reinstate all works and services disturbed to the satisfaction of the Architect and the Local Authority.</p>	
Carried to Summary		
<p>A</p> <p>B</p> <p>C</p>	<p><u>DISTURBANCE</u> Tenderers should note that normal activities shall be continuing within and in the surrounding building during the construction period. Minimum disturbance by noise, dust, water or movement of vehicles, materials, labour or plant must be caused to the function of the existing adjacent buildings in the vicinity and the occupants and staff therein. The Contractor shall comply with all instructions issued by the Employer or Architect with regard to minimizing such disturbances.</p> <p><u>RESTORATION OF DAMAGE TO EXISTING PROPERTY</u> The Contractor shall exercise utmost care and precaution to ensure that all existing property is well protected during construction operations. Any damage to such property caused by the Contractors' workmen or Sub-Contractors shall be repaired or restored to the Architect and Employer's satisfaction at the Contractor's expense</p> <p><u>SURVEY BEACONS</u></p>	

The Contractor will be required to protect from damage all the survey beacons found or to be installed on the site. Any survey beacon disturbed by the main Contractor or his Sub-Contractor whilst carrying out the contract works shall be re-established in the correct positions by a licensed Land Surveyor without delay to the satisfaction of the Architect and the Director of of Surveys and the Responsibility and expense of the reinstatement shall be borne by the Contractor. Survey beacons shall be inspected and their presence confirmed and certified by the Architect on completion of the contract works. Final payment certificates shall not be released to the Contractor until a certificate to this effect is furnished to the Quantity Surveyor. Should the Contractor not reinstate (re-establish) the beacons within eight (8) weeks from the date of Architect’s instructions and which date shall be taken to be the date of practical completion, the employer shall engage and pay a licensed surveyor to establish the disturbed beacons and the amounts payable for the Surveying services shall be deducted from any sum of money due or to become due to the contractor, the said monies shall be a debt payable by the Contractor to the Employer.

D PREVENTION OF NUISANCE

The works and such sections of the site necessary shall be under the entire care and control of the Contractor during the whole period of the contract and to ensure that the Contractor has representatives or agents and workmen (Employees) shall take all possible precautions to prevent any nuisance, inconveniences or injury to the holders or occupiers of the existing neighbouring or surrounding properties and to the public generally and shall at all times keep all the paths and roads affected by the works in a safety of all traffic, pedestrians and public in general.

E TRANSPORT TO AND FROM THE SITE

The contractor shall include in his tender prices for the transport of materials, workmen, etc. to and from the site of the proposed works, at such hours and by such routes as per regulations that shall be issued by the police and the Local Authority.

F PROTECTIVE CLOTHING: STAFF & CONSULTANTS AT ALL TIMES

The Contractor shall provide all protective or any other special clothing or equipment for his employees and consultants that may be necessary. This shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, overalls, etc. according to the type of work. The Contractor shall ensure that safety helmets, reflectors and boots are worn by all staff, visitors and consultants on site at all times.

Carried to Summary

A ENVIRONMENTAL CONDITIONS

The Contractor is to comply with the Environmental Conditions of Approval.

B EXISTING PROPERTY AND SERVICES

The Contractor shall take every precaution to avoid damage to the existing property including roads, cables, drains, boundary wall and other services and he will be held responsible for all damages arising from the execution of this contract to the aforementioned and he shall make good any damage when directed at his own expense to the satisfaction of the Architect and the Local Authority.

C **WATER AND ELECTRICITY SUPPLY FOR THE SITE AND THE WORKS**

The Contractor shall provide at his own cost and risk all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connections to the nearest suitable water and electricity main and for metering the same. He must also provide temporary storage tanks and meter as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the Architect. The Contractor shall pay all charges in connection therewith. No guarantee is given that sufficient water will be available from the main and the Contractor, must make his own arrangements for augmenting this supply at his own cost if necessary.

D **TELEPHONE**

The Contractor shall provide and maintain in the site office a telephone throughout the course of contract and shall pay all charges and rentals in connection herewith. The telephone shall be available for use by the Architect or his representatives during working hours. The contractor shall also provide one mobile phone equipment and line with maximum charges

E **AREA TO BE OCCUPIED BY THE CONTRACTOR**

The area to be occupied by the Contractor for use as storage or erection of workshops etc shall be defined on the site by the Architect and the Contractor must confine his activities to the areas so marked and must ensure his own and Sub-contractor's workmen do not trespass on the adjoining property or cause inconvenience to its occupiers.

F **STAMP DUTY CHARGES**

The Contractor shall allow for the payment of all stamp duty charges in connection with the Performance Bond and Contract Agreement

G **OCCUPATION CERTIFICATE**

At the completion of the Works, the Contractor shall apply for and obtain the Occupation Certificate from the Local Authority and see that it is duly completed and signed in accordance with conditions laid down by current By-Laws.

Carried to Summary

A. SANITATION OF THE WORKS FOR WORKERS

The sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities and the Architect. roof, sides and partitions. The site of the latrine shall be agreed with the Architect and the works shall not be commenced before the sanitary accommodation has been approved by the Architect and the Authorities. The Contractor will be required to pay all conservancy charges and employ adequate sweepers on the site to ensure clean maintenance and daily disinfecting of the latrines upon completion of the works. The latrines and any temporary drain shall be removed and all works and surfaces disturbed made good and whole area disinfected and left clean and free from pollution all to the satisfaction of Architect and local authorities.

B. SETTING OUT

The Contractor shall set out the works in accordance with the dimensions and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels so set out by him and will be required to amend all errors arising from inaccurate setting out or discrepancy in the dimensions or levels marked on the drawings, such errors or discrepancies must be reported by the Contractor to the Architect for his immediate attention. No work shall be commenced by the Contractor until he has received written instructions from the Architect to adjust such discrepancies which may have been proved. Upon receipt of such instructions the contractor shall thereupon be responsible for the accurate setting out of the work giving effect to the adjustments necessary to comply with such instructions, and no claim for extra expense or relief may be made thereafter.

C SHOP DRAWINGS

The Contractor shall prepare for scrutiny and issue to the Consultants, copies of detailed shop drawings of all specialist works. Following the Architect's checking of these shop drawings the Contractor shall immediately amend them as necessary and when approved, promptly issue to the Consultants four copies for general use.

The scrutiny of shop drawings by the Consultants shall be for general conformity, including conformity with the work of others and to co-ordinate the contract work in space. Such approval shall not imply any further indication of correctness

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Carried to Summary	
<p>A. <u>MATERIALS AND WORKMANSHIP</u></p> <p>All materials and workmanship used in the execution of the works shall be of the quality and description herein described unless otherwise stated. Samples of all materials proposed to be permanently incorporated in the works must be submitted to the Architect for his approval before the bulk of the materials are delivered to the site. The contractor shall be responsible for ordering all materials as early as necessary to ensure that such materials are on the site as and when required for the works.</p> <p>B. <u>STORAGE OF MATERIALS</u></p> <p>The Contractor shall provide at his own cost where directed on the site weather proof lock-up sheds for the safe storage and custody of materials for the works including sub-contractor's materials and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the Architect. No material shall be stored or stocked on suspended slabs without the prior approval of the Architect. Materials stored off-the-site shall not be paid for unless the Architect has given a written approval for the storage away from the site.</p> <p>The Contractor shall also provide at his own cost where directed on the site separate weather proof lock-up sheds for the safe storage and custody of materials for the works for other Nominated Contractors directly appointed by the Client for the same Works and for the use of their workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the Architect. The Nominated Contractors shall provide their own padlocks and shall be solely responsible for the materials and equipment stored therein.</p> <p>C. <u>TESTING</u></p> <p>The Contractor shall arrange at the request of the Architect for testing of materials and portions of work at his own expense. If the tests fail, the affected materials or work shall be removed and replaced at the Contractor's costs. The tests will be performed in an approved manner and by an approved testing authority.</p> <p>NOTE: The Contractor must allow in his concrete rate all costs in connection with the making of the cubes, curing, transport, crushing by Local Authority and obtaining the test certificate.</p> <p>TESTS: Contractor must conduct all tests as would be required by the Architect / Engineer from time to time and include but not limited to;- Material tests, Portion of work tests and surface tests on work surfaces before, during construction and finished works.</p>	

Schedule of such tests is to be obtained from the engineer during tendering and no claims shall be entertained for ignorance

D. LABOUR CAMPS

The Contractor will generally not be permitted to house labour on the site and the Contractor must make all necessary arrangement for transportation of labour to and from the site where necessary This will be with the express permission of the Architect.

Carried to Summary

A. LABOUR

Unless the Architect otherwise agrees, the Contractor is to recruit locally all his unskilled labour and as much as possible of his skilled labour.

B. NOTICES

For notices to be served under the conditions of contract:- The Contractor shall notify the Architect an address where notice may be served upon him or in the event of his failing to do so. Notices shall be deemed served upon the Contractor if sent by Registered post to his usual place of business or left at his office on the site.

C. SECURITY OF WORKS

The Contractor shall be entirely responsible for the security of the works, stores materials, personnel, etc., both his own and for other Nominated Contractors directly engaged by the Client in the same Works, and shall provide all necessary watching, lighting and other precautions as necessary to ensure the security and the protection of the public.

D. TEMPORARY DISPOSAL OF RAINWATER

The Contractor shall provide and maintain all necessary temporary gutters, downpipes, chutes, earth or other drains, etc. for conveying rainwater from the building and site works. Embankment and sides of excavations shall be shaped to such slopes that soil erosion does not take place. The Contractor shall allow for temporary drainage, pumping and piping for keeping the buildings, services and entire site free from accumulation of and flooding with water and soil. The Contractor shall reinstate the existing ground to the satisfaction of the Architect on practical completion of the works.

	Carried to Summary	
	<p style="text-align: center;">-</p> <p>A. <u>FAIR WAGES AND GOVERNMENT ACT ETC.</u></p> <p>The Contractor shall comply with the regulations of wages (Building and Construction Industry) order and shall be responsible for compliance by Sub-Contractor employed in the execution of the Contract. If required he shall notify the Architect of the names and address of all such Sub-contractors. Should a claim be made to the Employer alleging the contractor's default in payment of fair wages to any workman employed on contract and if proof thereof satisfactory to the Architect is furnished by the Labour Department ,the Architect may, failing payment by the Contractor, pay the claim out of any monies due or which may become due to the Contractor under this contract.</p> <p>The working hours shall be those generally worked by good employers in the Contractor shall furnish the Architect if called upon to do so such particulars of the rates of wages, hours and conditions of labour referred to above as the Architect shall direct. The Contractor shall also be required to comply with all other Government Acts, regulations and orders in connection with employment of labour.</p> <p>B. <u>WORKING HOURS</u></p> <p>Building and Civil Engineering Trade. No work shall be carried out at night or on gazetted holidays unless the Architect shall direct. No work shall be covered up or shall any correcting be carried out without prior approval of the Architect.</p> <p>C. <u>REMOVAL OF RUBBISH</u></p>	

The Contractor is to remove all rubbish from the site from time to time and as instructed by the Architect and leave the site clean and tidy on completion. Heaped soils, materials etc. Shall on completion of works be spread and levelled properly to the satisfaction of the Architect.

D. PLANT, TOOLS, SCAFFOLDING AND VEHICLES

Allow for providing all scaffolding, plant, tools and vehicles required for the proper execution of the works 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.

All such plant, tools and scaffolding shall comply with all regulations whether general or local in force throughout the period of the Contract and shall be altered or adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations

Carried to Summary

A. 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 Architect and such directions and instructions shall be deemed to have been given to the Contractor in accordance with the conditions of contract.

B. METHOD OF MEASUREMENT

The whole of the works contained in these Bills of Quantities is measured on the basis of the current Standard methods of Measurement in Building works for East Africa (First Edition Metric). All work in this contract that is liable to adjustment has been measured as “provisional” in these Bills of Quantities, and no excavation, foundation work so described shall be filled in or covered up until all measurements needed for the adjustments of variations have been made by the Quantity Surveyor.

The rates set down by the Contractor against each item in these Bills of Quantities shall, unless otherwise expressly provided to the contrary, or unless there is a separate item for extra labour, cutting or waste, shall be deemed to include for waste on materials, carriage and cartage, carrying in and return of empties, hoisting, setting, fitting and fixing in position making and all other labour and everything else necessary for the proper completion and all other labour and everything else necessary for the proper completion of each item of cutting shall include for consequent waste.

C. PROVISIONAL SUMS

The term “Provisional Sum” wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(1) of the standard method of measurement. Such sums are net and no addition shall be made to them for profit.

Carried to Summary

A. 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 Architect to execute work or to provide and fix materials or goods are described herein as nominated Sub-Contractor. Persons or firms so nominated to supply goods or materials are described as Nominated suppliers.

B. ADJUSTMENT OF P.C. SUMS

In the Final account all P.C. sums shall be deducted and the amount properly expended upon the Architect order in respect or each of them added to the contract sum. The Contractor shall produce to the Architect such quotations, invoices or bills properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Item of "Attendance" following P.C. sums shall be adjusted pro rata to the amount paid in the Final Account. Should the Contractor be permitted to tender and his tender be accepted for any work for which a P.C. sum is included in these Bills of Quantities, profit will be allowed at the same rate as it would be if works were executed by a Nominated Sub-contractor.

C. CONSULTANTS SITE OFFICES

The Contractor shall provide properly ventilated lockable offices for the Consultants sole use with a concrete or timber floor and glazed windows.

Clerk of Works/Consultants office and equipment to be provided are as detailed below:

Number of rooms: 2 rooms

Equipment to provide; Computer, Internet, Printers, Tables and chairs, drawing desk / table, pin boards and safety and first aid equipment

The equipment will be returned to the Contractor at the completion of the project

The Contractor shall also provide, erect and maintain a lock-up European type latrine for the sole use of the Consultants and to the services of a sweeper, pay all charges and keep clean during the period of the works

The Contractor shall keep on the site and maintain in good condition one dumpy or quickset level, metric levelling staff, one 30 metre steel tape for the use of the Consultants.

D. PHOTOGRAPHY

Allow for a digital camera ; weekly digital photographs, processing of the same including photo albums for the duration of the project. The camera shall revert to the Employer at expiry of contract.

E SAMPLES

The Contractor shall furnish at the earliest possible opportunity before works commences and at his own cost, samples of materials or workmanship that may be called for by the Consultants for their for his approval or rejection and any further samples in the case of rejection until such samples are approved by the Consultants and such samples when approved shall be the minimum standard for the works to which they apply

Carried to Summary

A. ADJUSTMENT OF PROVISIONAL SUMS.

In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the Architect order added, to the Contract Sum, such works shall be valued as described for variations in clause 30 read "thirty" of the conditions of contract, but should any part of the work be executed by a Nominated Contractor, the value of such work 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.

B. NOMINATED SUB-CONTRACTOR

When any work is ordered by the Architect to be executed by nominated sub-contractors, the Contractors shall enter into Sub-contracts shall thereafter be responsible for such Sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractor any or all of the facilities described in these preliminaries. work concerned in the P.C. sums under the description "Add for Attendance". The Contractor will be required to obtain approval of the Architect in writing before employing any pf his own (I.e. nominated) Sub-contractor for any portion of the works.

C. ATTENDANCE TO NOMINATED SUB-CONTRACTORS

Under the terms and conditions of the Main Contract, the main contractor shall accept responsibility for providing the following services for Nominated sub-contractors:

D. General Attendance

The following services are described as "allow for general attendance":

- (a) Use, for the purpose of the subcontract works of any scaffolding belonging to or provided by the contractor while it remains so erected upon the site, provided that no warranty or other liability on the part of the contractor or of his other sub-contractors shall be created or implied in regard to the fitness, condition or suitability of the said scaffolding.
- (b) Provision of water, lighting, watching and attendance for the purpose of the sub-contract works.
- (c) Use of sanitary accomodation,messrooms and welfare facilities.
- (d) Provision of space for erection of offices or stores or space for storage of plant and materials
- (e) Clearing away rubbish produced by them.

Carried to Summary

A. Special Attendance

(a) 'Taking delivery' shall mean the provision of unskilled labour necessary to attend upon the sub-contractors workmen for the purpose of unloading plant and materials when received upon the site and placing in position within the sub-contractor's storage space or store.

(b) 'Hoisting' shall mean the provision of unskilled labour and the use of any contractor's standing plant for the purpose of assisting the sub-contractor's workmen in hoisting the sub-contractor's plant and materials to the various levels but not placing to its final position.

(c) 'Providing Power' shall mean the provision of power during the course of the works and during the period of maintenance.

B. ALTERATIONS TO BILLS, PRICING E.T.C.

Any unauthorised alterations or qualifications 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.

C. BLASTING OPERATIONS

Blasting will only be allowed with the express permission of the Architect in writing. All blasting operations shall be carried out at the Contractor's sole cost and risk in accordance with any Government regulation in force in force for the time being, and any special regulation laid down by the Architect governing the use and storage of explosives.

D. HOISTING

Throughout these Bills of Quantities generally no mention is made of heights for hoisting. All prices must include for hoisting and fixing at any level of the works. Where a particular level is specified the Contractor shall price accordingly.

E. MATERIALS ARISING FROM EXCAVATIONS

Materials of any kind obtained from the excavation shall be the property of the Employer. Unless the Architect 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 the materials which the contractor would otherwise have had to supply with the written permission of the Architect. 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 Summary	
A.	<p><u>CLEANING UP</u></p> <p>On completion and as necessary during the course of the works the Contractor sanitary fittings, clean out all gulley and drain and leave the buildings and the entire site in a clean and habitable condition to the satisfaction of the Architect.</p>	
B.	<p><u>HOARDING</u></p> <p>The Contractor shall allow for providing and clearing away on completion such hoarding or fencing and access gates as may be necessary for the protection of the works and the public, all to the Architect approval and local authority requirements. The Contractor will be responsible for paying any fees or taxes in respect of hoarding. The hoarding and gates shall be painted as directed by the Architect. The Contractor shall allow for maintaining the hoarding and gates throughout the contract and clearing away and making good disturbed surfaces upon completion. All the material arising will remain the property of the Contractor and he should allow for credit against this accordingly.</p>	
C.	<p><u>INCREASE OR DECREASE IN COST</u></p> <p><u>THIS IS A FIXED PRICE CONTRACT.</u> No Adjustment to the contract price in respect of rise or fall of cost of materials and labour and other matters affecting the cost of execution of the works shall be entertained.</p>	
D.	<p><u>LOCAL AUTHORITY BY-LAWS AND CHARGES</u></p> <p>The Contractor shall comply with all local Authorities by-laws and pay for all charges in connection therewith. The Contractor should therefore allow in his tender for such expenses.</p>	
E.	<p><u>SECTIONAL COMPLETION.</u></p> <p>Not with standing the completion of the whole works, the contractor is required to have practically completed any agreed work sections within a period specified from commencement.</p>	
F	<p><u>GOVERNMENT ACTS REGARDING WORKFORCE, ETC.</u></p>	

<p>Allow for complying with all Government Acts, Orders and Regulations in connection with the Employment of Labour and other matters related to the execution of the works. The tender price 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 to the safety, health or welfare of workpeople.</p> <p>The Contractor must acquaint himself duly with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc and allow accordingly in his tender.</p> <p>No claim in respect of want of knowledge in this connection will be entertained</p>	
Carried to Summary	
<u>PRELIMINARIES AND GENERAL CONDITIONS.</u>	
-	
<u>COLLECTION</u>	
-	
Brought forward from Page	
1/01	
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	<u>Contractor to allow for working space in his rates</u>				
A	Excavate to reduce levels in final trimming and levelling: commencing from formation levels 200 mm deep.	m3	112	-	-
B	Excavate trenches for strip footing: starting reduced levels; to depths not exceeding 1500 mm from formed levels	m3	130	-	-
C	Excavate pits for column bases: starting reduced levels; to depths not exceeding 1500 mm from formed levels	m3	118	-	-
D	Excavate pits for lift bases: starting reduced levels; to depths not exceeding 1500 mm from formed levels	m3	11	-	-
E	Ditto; not exceeding 3000 mm depth	m3	3	-	-
F	Extra over excavation for excavating in hard murrum.	m3	19	-	-
G	Extra over excavation for excavating in rock ; all classes.	m3	19	-	-
H	Grade and compact sub-base or filling to falls, cross falls and slopes: compact to: 98% MDD (Heavy Duty Compaction)	m2	293	-	-
	<u>Disposal of Excavated materials</u>				
J	Backfill and compact in layers : selected excavated material around foundations : placed in 200 mm thick layers : well watered and compacted to 95% MDD	m3	179	-	-
K	Surplus excavated material : remove and deposit in spoil heaps on site ; cart away to approved dumping site	m3	83	-	-
	<u>Disposal of water</u>				
L	Keep excavations free from all water by baling, pumping or otherwise	Item	1	-	-
	<u>Planking and strutting</u>				
M	Planking and strutting to sides of all excavations : keep excavation free from all fallen materials	Item	1	-	-
	<u>Fillings and Levelling</u>				

N	Approved hardcore filling: 300 mm thick (overall) : deposit, hand-pack, level and compact in layers not exceeding 150 mm thick : to receive blinding (m/s)	m3	88		-
P	Approved quarry dust or murrum material in filling to make up levels to hardcore surfaces	m2	293		-
Q	<u>Soil poisoning</u> Chemical anti-termite treatment to subsoil or filling: dragnet 30% EC or equal and approved : provide ten years guarantee	m2	293		-
Carried to collection				-	-
CONCRETE WORK					
<u>In situ Concrete : Class 15/25mm</u>					
A	50 mm Thick blinding layer : under ground beam / substructure walls	m2	87		-
B	Ditto : under column bases.	m2	79	-	-
C	Ditto : under lift shaft base slab	m2	10	-	-
<u>In situ concrete : class 25/20 : vibrated : reinforced</u>					
D	Column Bases	m3	31	-	-
E	Ground Beams / Strip footing	m3	22	-	-
F	Stub Columns	m3	2	-	-
G	800 mm Thick lift shaft base	m3	8	-	-
H	150 mm Thick surface bed : laid in panels : including ramps	m2	289	-	-
J	Steps; entrance	m3	1	-	-

K	200 mm Thick walls	m2	15	-	-
	REINFORCEMENT				
	<u>Mesh fabric reinforcement to BS 4483 : reference A142 weighing 2.22kg per square metre : 200mm laps</u>				
L	BRC A142 weighing 2.22kg per square metre : in surface beds	m2	289	-	-
	<u>Reinforcement to BS 4449:1997 , Grade 460B high strength type 2 Ribbed bars with proof stress of 460 N/mm2; Including all necessary cutting, bending fixing and provision of spacer blocks and stools to S.E's detail</u>				
M	Assorted Steel Bars of all sizes	Kg	6232	-	-
	FORMWORK				
	<u>Sawn formwork including spacers : to</u>				
N	Vertical sides : walls	m2	30	-	-
P	Ditto : column bases	m2	65	-	-
Q	Ditto : ground beams / strip footing	m2	51	-	-
R	Ditto : stub columns	m2	30	-	-
S	Vertical edge of bed : over 150 mm but not exceeding 225mm wide	m	75	-	-
T	Edges of risers and ramps; ditto	m	6	-	-
U	Ditto; lift shaft base	m	8	-	-
	<u>Labours and sundries</u>				
V	One layer 500 gauge polythene sheet damp proof membrane : under beds : 300mm laps.	m2	289	-	-
W	Ditto; underneath lift shaft base	m2	10	-	-

	Carried to collection			-	-
	<u>Substructure Walling</u> <u>Natural stone or Hollow blocks (7.0 N/mm²) : in cement and sand (1:3) mortar ; 20 gauge hoop iron every alternate course</u>				-
A	200 mm Thick Walling	m2	88		-
B	150 mm Thick Walling ; decorative columns	m2	28		-
	<u>Plinth Finishes</u> <u>15 mm Thick render; steel trowelled hard and smooth to surfaces</u>				-
C	Walls; vertical	m2	24		-
	<u>Prepare and apply three coats; approved bituminous paint to rendered wall surfaces</u>				-
D	Walls; vertical	m2	24		-
	Carried to collection			-	-
	<u>COLLECTION FOR SUBSTRUCTURES</u>	Page		-	
		No		-	
	Total Brought Forward from Page No.	2/1		-	-
		2/2		-	-
		2/3	Above	-	-
				-	

	<u>Element No. 01: Substructures</u>				
	<u>Total Carried to Summary</u>				-
	- <u>ELEMENT NO. 2</u> <u>REINFORCED CONCRETE SUPERSTRUCTURE</u> <u>In situ concrete: class 25/20 : vibrated : reinforced</u>				
A	Steps	m3	1	-	-
B	Beams (All levels)	m3	60	-	-
C	200 mm Thick walling	m2	84	-	-
D	Columns	m3	21	-	-

E	150 mm Thick suspended Slabs	m2	866	-	-
F	200 mm Thick suspended slabs: gutter slab	m2	44	-	-
G	175 mm Thick suspended slab; Lift shaft	m2	4	-	-
H	<u>Extra over slab for:-</u> Edge mouldings; sloping but not exceeding 15 degrees	m2	44	-	-
J	150 mm Thick gutter upright	m2	22	-	-
K	Ring beams and corbels	m3	17	-	-
<u>REINFORCEMENT</u>					
<u>Reinforcement to BS 4449:1997 , Grade 460B high strength type 2 Ribbed bars with proof stress of 460 N/mm2; Including all necessary cutting, bending fixing and provision of spacer blocks and stools to S.E's detail</u>					
L	Assorted Steel Bars of all sizes	Kg	26089	-	-
<u>FORMWORK</u>					
<u>Sawn formwork : to</u>					
M	Vertical sides and soffits of beams	m2	337	-	-
N	Ditto; gutters	m2	104	-	-
P	Vertical sides; concrete walls	m2	168	-	-
Q	Ditto : Columns	m2	321	-	-

R	Soffits of suspended slabs	m2	958	-	-
S	Edges of suspended slabs not exceeding 225 mm girth	m	232	-	-
<u>Element No. 02: Reinforced Concrete Superstructure</u>					
<u>Total Carried to Summary</u>					-
<u>ELEMENT NO 3</u>					
<u>STAIRS & STAIRCASE FINISHES</u>					
<u>In situ concrete : class 25/20 : vibrated : reinforced</u>					
A	Steps	m3	4.0	-	-
B	175 mm Thick landings	m2	23	-	-
C	175 mm Thick waists ; sloping	m2	48	-	-
D	Beams; Staircase	m3	2	-	-
<u>High tensile steel bar reinforcement to BS 4461 (provisional)</u>					
E	Assorted Steel work reinforcement	Kg	1,843	-	-

				-	-
	<u>Sawn formwok : to</u>			-	-
F	Soffits of landings	m2	23	-	-
	-			-	-
G	Sloping soffits of stairs/waist	m2	48	-	-
	-			-	-
H	Vertical edge of risers/landings : over 150 but not exceeding 225mm high	m	153	-	-
				-	-
J	Sides of beams	m2	21	-	-
				-	-
K	Vertical edge of open string 350mm (extreme) wide : cut to profile of treads and risers	m	20	-	-
				-	-
	<u>STAIRCASE FINISHES</u>			-	-
	<u>Tiling, Paving and the like</u>			-	-
	<u>Supply and fix approved ceramic floor tiles : fixed with and including supply of proprietary adhesive or tile grout on cement and sand mortar (1:4) screed beds (m.s) : jointed and pointed in matching coloured proprietary grouting :</u>			-	-
L	10 mm Thick paving in landing	m2	23		Rate C
M	10 mm Thick paving to tread 300 mm wide	m	153		Rate C
N	10 mm Finish to riser 153 mm high	m	153		Rate C
P	10 x 150 mm High skirting with rounded top edge.	m	33		Rate C
Q	10 mm Finish to open string of staircase 350mm (maximum) girth including return to sloping soffits and rounding at edges of treads, risers and return	m	20		Rate C
R	Ditto to wall string 250mm (maximum) high including rounded top] edge and small cover at junciton with treads and risers	m	56		Rate C
	<u>Insitu Finishings</u>				
	<u>12 mm Lime plaster in two coats :steel trowelled finish :on concrete or blockwork :to</u>			-	-

S	Plastered soffits of suspended landings and beams	m2	23		-
T	Plastered sloping soffits of stairs	m2	48		-
<u>In-situ Finishings; Backings, Screeds and the like;</u>					
<u>Cement and sand (1:4) trowelled screeds : on concrete : to</u>					
U	10 mm Thick paving in landing	m2	23		-
V	10 mm Thick paving to tread 300 mm wide	m	153	-	-
W	10 mm Finish to riser 153 mm high	m	153	-	-
X	10 x 150 mm High skirting with rounded top edge.	m	33	-	-
Carried to collection				-	-
<u>Balusters & Balustrading</u>					
<u>The following in staircase balustrading (to include levels, bends wreather ramps etc)</u>					
<u>Mild steel railing comprising: 40 mm diameter CHS top, mid and bottom rails; welded onto and including 50 mm diameter CHS balusters; grouted into concrete at base and welded to top rail at top; all grinding smooth to edges and grey oxide priming before fixing. in:-</u>					
A	950 mm High balusters and balustrading grouted	m	20		-
<u>Metal Handrail</u>					
B	Ex 50 mm Diameter CHS mild steel railing; fitted with and including brackets to masonry of concrete surfaces	m	40		-
<u>Painting and decorating</u>					
<u>Prepare and apply one undercoat and two finishing coat 'crown' or other equal and approved silk vinyl paint on: -</u>					
C	Plastered soffits and edges	m2	77	-	Rate C
<u>Prepare surfaces and apply one undercoat and three coats all-weather metal paint; to Crown Paints or other equal and approved; in accordance with manufacturers specification, Colour to Architect's approval to:-</u>					
D	Surfaces of metal handrail; not exceeding 100 mm girth	m	40		Rate C
E	Ditto; metal balustrading (measured flat both sides)	m2	20		Rate C

	Carried to collection			-	-
	<u>STAIRCASE & STAIRCASE FINISHES COLLECTION</u>			-	-
	Total Brought Forward from Page No.	2/5	-	-	-
	Total Brought Forward from Page No.	2/6	Above	-	-
	<u>Element No. 03: Stairs & Staircase Finishes</u>				
	<u>Total Carried to Summary</u>				-
	<u>ELEMENT NO. 04 ROOFING & ROOF FINISHES</u>				
	- <u>REINFORCED CONCRETE ROOF SLAB</u>				
	<u>Cabroshield high performance waterproofing membrane as supplied by Cabbroworks Ltd</u>				
A	Cabroshield APP membrane applied to roof slabs in planters	m2	158	-	-
B	Cabroshield APP membrane applied to parapet walls or planter walls	m2	205	-	-

				-	-
C	Ditto to surfaces of gutters; 1300 mm girth	m2	96	-	-
D	Dress membrane round 300 x 300mm rainwater outlet	No	3	-	-
				-	-
	<u>Lightweight waterproof screeds</u>			-	-
E	20 mm Thick average screed laid to falls and crossfalls to roof slabs	m2	254	-	-
F	15 mm ditto to parapet walls	m2	205	-	-
				-	-
G	20 mm Thick screed laid over APP membrane and finished to steel trowel smooth surface	m2	254	-	-
				-	-
	<u>Concrete mouldings</u>			-	-
	<u>In situ concrete, reinforced with 2NO 10mm H.T.S bars; hoisting and bending with cement sand (1:3) mortar including flush joints</u>			-	-
H	300 x 25 mm Thick insitu concrete mouldings; twice weathered and throtted	m	253	-	-
				-	-
	<u>STRUCTURAL STEEL</u>			-	-
	<u>All structural steelworks in accordance with BS 5950 (1990),all welding in accordance with BS135 and bolts and nuts,grade 4.6 to BS 4360.All steelwork shall be primed with red oxide before delivery to site.The rates shall allow for supply, fabrication,assembly,transport,erection,cleats, gusset plates e.t.c.</u>			-	-
	<u>Steel Stanchions and posts</u>			-	-
	<u>The following in independent stanchions or posts as described ; erected over 9000 mm high above ground; including mounting plates and hooks;</u>			-	-
J	150 mm Diameter x 4 mm Thick CHS diagonal brackets	Kg	325	-	-
				-	-
	<u>STRUCTURAL TIMBER</u>			-	-
	<u>Structural timbers : sawn cypress : seasoned and cellcured; pressure impregnated with anti-termite treatment; allow for all fixing accessories; bolts, nails and wall pass jointing; hoisting to heights above 14000 mm above ground</u>			-	-
	<u>Wall Plate</u>			-	-
	<u>50 x 100 mm wall plate : fixed with and including 12mm diameter mild steel rag bolt 150mm long at 900mm centres : cast</u>			-	-
K	ring beams	m	66	-	-
				-	-
L	50 x 200 mm Ridge board	m	14	-	-

M	250 x 25 mm Thick Fascia and barge boards	m	75		-
	<u>The following in trusses : hoisting and fixing at 6 metres above ground level</u>				-
N	150 x 50 mm Rafters	m	167		-
P	150 x 50 mm Struts and Ties	m	280	-	-
Q	150 x 50 mm Bottom tie	m	280	-	-
R	Independent rafters; 50 x 100 mm thick	m	320	-	-
S	Ditto; Hips and Valley rafters	m	126	-	-
	Carried to collection			-	-
	<u>Roof Cover</u>				-
	<u>Supply and fix stone coated roofing tiles as DECCRA fixed onto and including 50x50 mm timber battens on timber purlins (m/s) all screws, nails and fixing accessories</u>				-
A	Roofing; sloping or horizontal	m2	370		-
B	Gauge 500 polythene roof sheeting underlay; laid to laps	m2	370		-
C	Deccra roofing tiles; ridge capping	m	14		-
D	Ditto; hips	m	50		-
E	Ditto; Valley flashing	m	13		-
	<u>Rainwater Disposal</u>				-
F	610 mm Girth x 14 gauge galvanized eaves gutter bent four times to form gutter, fixed onto cleats on rafters (m.s) with bolts	m	28		-
G	Supply and fix purpose made galvanized hopper box	No	4		-
	<u>Heavy duty UPVC down pipes, "Key terrain" or other equal and approved UPVC rainwater pipes and fittings fixed onto walls or columns with and including galvanised bends, mild steel holder bats</u>				-
H	100 mm Diameter downpipe	m	48		-

J	100 mm shoe	No	4		-
K	100 mm Diameter fulbora outlet	No	4		-
L	Ditto; off - set bends	No	4		-
	<u>Polished concrete tiles</u>	-			-
M	Supply and fix 300 x 300 x 25mm thick interlocking polished concrete tiles of approved pattern jointed in cement and sand (1:3) mortar over prepared screed (m.s) - roofs	m2			Rate C
N	Ditto; 20 x 300 mm skirting	m			Rate C
	Carried to collection			-	-
	<u>COLLECTION FOR ROOFING & ROOF FINISHES</u>	Page No			
	Total Brought Forward from Page No.	2/7			-
		2/8	Above		-
	<u>Element No. 04: Roofing & Roof Finishes</u>				
	<u>Total Carried to Summary</u>				-
	<u>ELEMENT NO.5</u>				-
	<u>EXTERNAL WALLING</u>				-
	-				-
	<u>MASONRY WALLING</u>				
	<u>Approved Machine cut natural stone or solid concrete blocks; (5.0 - 7.0 N/mm2) : bedding and jointing in cement and sand (1:3) mortar; laid in regular courses; reinforced with 20 gauge x 25mm wide hoop iron reinforcement and column wall ties in every course</u>				
A	200 mm Thick Walling	m2	774		-
B	150 mm Thick walling; decorative columns	m2	213		-
	<u>Damp proof courses ; bituminous felt : bedded in cement mortar (1:4) : 300mm laps</u>				-

C	Horizontal : 200 mm wide	m	70	-
D	- Horizontal : 150 mm wide	m	23	-
<u>CURTAIN WALLING</u>				
<u>Stopsoil Walling or Equal and approved; Powder coated aluminium framed walling in 10 mm thick (in 2No. layers of 5 mm thick glass panels each) solar laminated ('Stop sol') glazing panels formed to and jointed with a colourless approved water proof bonding agent including fixing, welding and bolting to frames complete with framing as detailed to slopping roof to detail</u>				
E	Walling; vertical or sloping	m2	292	-
<u>Element No. 05: External Walling</u>				
<u>Total Carried to Summary</u>				

ELEMENT NO 6

INTERNAL WALLING

-
MASONRY WALLING

Approved Machine cut natural stone or solid concrete blocks; (5.0 - 7.0 N/mm²) : bedding and jointing in cement and sand (1:3) mortar; laid in regular courses; reinforced with 20 gauge x 25mm wide hoop iron reinforcement and column wall ties in every course

A 200 mm Thick Walling

m² 926

- -

B 150 mm Thick Walling

m² 56

- -
- -

Damp proof courses ; bituminous felt : bedded in cement mortar (1:4) : 300mm laps

C Horizontal : 200 mm wide

m 74

- -
- -

D Horizontal : 150 mm wide

m 16

- -
- -

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	<u>Element No. 06: Internal Walling</u>				
	<u>Total Carried to Summary</u>				-
	<u>BILL NO 02</u>				
	<u>BUILDERS'WORK</u>				
	<u>SUMMARY PAGE</u>				
	<u>ELEMENT</u>				
	-		-	-	-
1	SUBSTRUCTURES				-
2	REINFORCED CONCRETE SUPERSTRUCTURE				-
3	STAIRCASE & STAIRCASE FINISHES				-
4	ROOFING & ROOF FINISHES				-
5	EXTERNAL WALLING				-
6	INTERNAL WALLING				-

	<u>BUILDERS WORKS</u>				
	<u>TOTAL CARRIED TO MAIN SUMMARY</u>				-

Item	Description	Unit	Qty	Rate	Amount
	<u>BILL No. 5: EXTERNAL WORKS</u>				
	<u>ELEMENT No. 2</u>				
	<u>DRIVEWAYS, PAVINGS & WALKWAYS</u>				
	<u>ALL PROVISIONAL</u>				
	Note:All excavation measured within the earthworks				
	<u>Soil poisoning</u>				
A	Chemical herbicide treatment to sub-soil or fillings 'Telvar' or other equal and approved : provide ten year guarantee (To be provided on completion)	m2			Rate Only
					-
	<u>Surface treatment</u>				
B	Grade and compact sub-base or filling to falls, crossfalls and slopes : compact to : 98% MDD (Heavy Duty Compaction)	m2			Rate Only
					-
	<u>Sand bed</u>				
C	100 mm Thick sub-base course layer : graded to falls, crossfalls and chambers : compacted in layers of 100mm to 98% MDD (standard Compaction)	m3			Rate Only
					-
	<u>Graded crushed stone filling</u>				
					-

Item	Description	Unit	Qty	Rate	Amount
	BILL No. 5: EXTERNAL WORKS Total Carried to Summary				-
D	300 mm Thick Approved crushed stone(hardcore) filling base course : hand packed and graded to falls, crossfalls and cambers : compact in layer not exceeding 225 mm thick : compact by rolling to 100% MDD (standard Compaction) to receive concrete paving (ms)	m3			Rate Only -
	<u>Gravel Filling</u>				
E	Approved gravel filling; well spread and compacted to form parking	m2			Rate Only -
	<u>Pavings</u> <u>Supply and fix approved pre-cast concrete paving blocks as described : load bearing 45N/mm2 : laid in approved pattern : on sand bed (measured</u>				-
F	Pavings to pedestrian walkway surfaces; light duty precast concrete pavers 'cobble' type	m2			Rate Only -
G	Pavings to visitors parking; heavy duty precast concrete pavers quad type	m2			Rate Only -
H	Pavings to authorized parking; heavy duty precast concrete pavers 'cobble' type	m2			Rate Only -
J	Pavings to paved surfaces, light duty precast concrete pavers 'circle stone' type	m2			Rate Only -
	<u>KERBS</u>				-
	<u>Precast concrete units : class 25/20 vibrated : reinforced</u>				-
K	125mm x 250 mm Half-battened Kerbs 225mm x 100mm concrete (Class 15) bed: 100mm x 190mm concrete (Class 15) haunching one side formwork	m			Rate Only -
L	Ditto : curved to mean radius of 3000 mm	m			Rate Only -
M	Ditto : curved to mean radius of 5000 mm	m			Rate Only -
	<u>ROAD CHANNEL</u>				
N	Precast concrete class 25/15 overall size 125mm wide x 100mm high road channel laid on and including 300 x 100mm plain concrete class 20/20 haunched foundation on one side including all necessary excavations and formwork	m			Rate Only -
P	Ditto : curved to mean radius of 3000 mm	m			Rate Only -
	External Works: Driveways & Parkings, Walkways / Pavings				

Item	Description	Unit	Qty	Rate	Amount
	BILL No. 5: EXTERNAL WORKS				
	<u>SECTION SUMMARY-EXTERNAL WORKS AND SERVICES</u>			Page	
1	SITE PREPARATION AND EARTHWORKS	Ew	5/1		-
2	DRIVEWAYS, PARKINGS, WALKWAYS & PAVINGS	Ew	5/2		-
	<u>EXTERNAL WORKS</u>				
	<u>TOTAL CARRIED TO MAIN SUMMARY</u>				-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
GROUND FLOOR					
<u>All prices are inclusive of VAT</u>					
1.00	<u>SANITARY FITTINGS</u>				
	Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.				
1.01	Water Closet (WC) Suite				
	Close-coupled WC suite ('S' or 'turned P'-trap) in approved colour as Ideal Standards complete with outlet to BS 3402 with 6 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter bottom inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and soft close cover with metal top fixed (chrome plated) hinges. Shall be as 'DURAVIT' or equal and approved	2	No		Rate Only
1.02	Wash Hand Basin (WHB)				
	Pedestal wash hand basin size 555 x 450mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, chrome plated single lever mixer pillar tap as Tivoli Kevon mixer pillar tap 100 and plastic bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as 'DURAVIT' or equal and approved.	2	No		Rate Only
1.03	Toilet Roll Holder				
	Wall Mounted Chrome plated stainless steel toilet roll holder with cover. To engineer's approval	2	No		Rate Only
1.05	Coat Hook				
	Chrome plated robe hook mounted with concealed screws. To Engineer's approval	2	No		Rate Only
1.06	Towel paper Dispenser				
	Stainless Steel Paper tissue towel dispenser from T\$C as mediclinics model or equal and approved.	2	No		Rate Only
1.07	Liquid Soap Dispenser				
	Mediclinics DJOO30 liquid soap dispenser in stainless steel AISI 304 body. With top filling lid and push button. With epoxy finish. Or equal and approved.	2	No		Rate Only
1.08	Mirrors				
	6mm thick polished plate glass silver backed mirror with beveled edges, size 320 x 600mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	2	No		Rate Only
Total for sanitary fittings carried forward to summary page					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
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2.00	<p><u>Internal Plumbing Works</u> <u>Cold Water & Hot Water Supply</u> Tenderers must allow for jointings, clippings, couplings necessary for proper and satisfactory functioning of the installation when pricing All pipework to be in Aqua pipe PPR pipe system and fittings as described in PN 10 continuously rated PPR piping ; All terminal fittings at the end of the pipe/ sanitary fittings connections shall have ss threaded ferole.</p>				
2.01	PPR Pipes				
A	25mm diameter pipework	24	Lm		
B	32mm diameter pipework	12	Lm		
C	40mm diameter pipework	10	Lm		
2.02	Bends				
A	25mm diameter bend	8	No.		
B	32mm diameter bend	2	No.		
C	40mm diameter bend	2	No.		
2.03	Tees				
A	25mm equal tee	2	No.		
B	32mm equal tee	1	No.		
C	40mm equal tee	1	No.		
2.04	Reducers				
A	32x 25mm diameter reducer	2	No.		
B	40x 25mm diameter reducer	1	No.		
C	40x 32mm diameter reducer	1	No.		
2.05	Unions				
A	25mm diameter union	6	No.		
B	32mm diameter union	2	No.		
C	40mm diameter union	2	No.		
2.06	Sockets				
A	25mm diameter socket	3	No.		
B	32mm diameter socket	1	No.		
C	40mm diameter socket	1	No.		
2.07	Threaded Brass Adapter				
A	25mm male/female threaded brass adapter	8	No.		
B	32mm male/female threaded brass adapter	2	No.		
c	40mm male/female threaded brass adapter	2	No.		
2.08	Threaded Bends				
A	25mmX 1/2" threaded bends	8	No.		
2.09	Gate Valve				
A	25mm diameter Gate valve	4	No.		
B	32mm diameter Gate valve	1	No.		
C	32mm diameter Gate valve	1	No.		
2.10	Copper Tubing				

A	15mm diameter flexible copper tubing 300mm long for connecting sanitary fitting to water supply. Complete with chrome plated angle valve	8	No.		-
Total for internal plumbing installations carried forward to next page page					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
3.00	<u>INTERNAL FOUL WATER DRAINAGE</u> 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.				
3.01	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey UPVC pipe	100	Lm		-
B	50mm diameter waste pipe	4	Lm		-
C	40mm diameter waste pipe	6	Lm		-
3.02	Bends				
A	100mm diameter sweep bend	20	No.		-
B	40mm diameter sweep bend	8	No.		-
3.03	Tees				
A	40mm diameter sweep tee	2	No.		-
B	100mm diameter sweep tee	4	No.		-
3.04	WC Connectors				
A	100mm diameter WC connector	2	No.		-
3.06	Access Caps				
A	40mm diameter access cap	2	No.		-
3.07	Floor Traps				
A	100 x 50 x 40 mm diameter 4-way Light Grey floor trap complete with grating.	2	No.		-
3.08	GULLY TRAP				
	Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm block work with cement mortar joints, on 150mm thick mass concrete slab, and plastered inside, for 100mm trap and hopper. 40mm thick , 250 x 250mm p.c.c. cover to gully trap chamber and provided with 40mm ventilating hole.	2	No		-

3.09	Inspection chambers 600x 450mm inspection chambers. Build in masonry walling and with heavy duty mild steel, air-tight cover.	8	No		-
Total for foul drainage installations Carried to Collection Page 7					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
4.00	<u>Hosereel</u> 25mm diameter 30m long swinging type hose reel manufactured to BS 5274, with bottom entry and complete with delivery valve, mild steel feed pipe, isolation valve, guide and all other accessories as "Angus Fire Armour" or equal and approved. To be complete with a hosereel cabinet, painted and labeled. <u>Hosereel Installation</u> All pipes shall be heavy gauge galvanized mild steel pipes to B.S1387 and fittings to B.S. 1740 (class C) . Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes for wall chasing and holes cutting by others all as required in pipework installation.	1	No		Rate Only
4.01	<u>GMS Pipework</u>				
A	25mm diameter pipework	2	Lm		Rate Only
B	50mm ditto	50	Lm		Rate Only
	<u>Extra Over GMS Pipework</u>				
4.02	<u>Bends</u>				
A	25mm Bends	2	No		Rate Only
4.03	<u>Tees</u>				
B	50mm ditto	1	No		Rate Only
4.04	<u>Reducers</u>				
A	50x 25mm diameter reducer	1	No		Rate Only
4.05	<u>Valves</u>				
A	25mm diameter gate valve as PEGLER or approved equivalent.	1	No		Rate Only
4.06	<u>Unions</u>				
A	25mm diameter pipe union	1	No		Rate Only
B	50mm Ditto	20	No		Rate Only
4.07	<u>Painting</u>				

A	Allow for painting of the hosereel installation with 2 coats of super gloss paint on a primer coat s per F.O.C rules, 29th Edition with latest ammendments and to the approval of the Project Engineer.	Item	1		Rate Only
2.06	HOSE REEL PUMP Shall be as "GRUNDFOS " automatic booster pump model: CH12-30 or approved equivalent. Capacity: 2.5 litres/sec. Head: 22m Power supply: 1.5kw, 1phase 240v, 50Hz.				
A	Duty and standby. Complete with: matching pressure vessel, pressure switch, pressure cell, valves, and any other accessories necessary for efficient operation . Pump and accessories to be mounted on a rigid steel framework.	1	No		Rate Only
B	Supply, deliver and install a control panel with removable front access cover, motor control gear, internal buttons with automatic change over "running" and "trip" neon lights control system, overload, protection, power surge protection, button for change from automatic to manual operation plus any other necessary controls	1	No		Rate Only
Total for hosereel installations Carried to Collection Page 7					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
5.00	<u>Portable Fire Extinguishers</u> Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
A	Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
B	Carbon Dioxide Gas Fire Extinguisher 5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
C	Dry Chemical Powder Fire Extinguisher 6kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
D	Manual Alarm Bell 9" (225mm) manual operated alarm bell (Gong)	2	No		Rate Only

F	Fire Notices Allow for fire signage, fire exits and fire instructions as as described in the particular specifications and to the Project Engineer's approval.	2	Item	Rate Only
Total for portable fire fighting equipment Carried to Collection Page 7				-

Item	Description			Amount (Kshs)
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1.00	Total for sanitary fittings carried forward from page 1	-
2.00	Total for internal plumbing carried forward from page 2	-
3.00	Total internal drainage carried forward from page 3	.....	-
5.00	Total for p hosereel installationscarried forward from page 4	.....	-
5.00	Total for portable firefighting equipmentcarried forward from page 5	.....	-
Total Plumbing and Drainage Works for Ground floor Carried forward to Main Sum			mary Page 25 -

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	TYPICAL FIRST AND SECOND FLOOR All prices are inclusive of VAT				
1.00	SANITARY FITTINGS Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.				
1.01	Water Closet (WC) Suite Close-coupled WC suite ('S' or 'turned P'-trap) in approved colour as Ideal Standards complete with outlet to BS 3402 with 6 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter bottom inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. To be complete with 2No. 900mm ling grab rails fixed to the wall	7	No		Rate Only
	1.02Wash Hand Basin (WHB) pedestal wash hand basin size 555 x 450mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, chrome plated single lever mixer pillar tap as Tivoli Kevon mixer pillar tap 100 and plastic bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Ideal Standard or equal and approved.	7	No		Rate Only
	1.03Toilet Roll Holder Wall Mounted Chrome plated stainless steel toilet roll holder with cover. To engineer's approval	7	No		Rate Only
	1.05Coat Hook Chrome plated robe hook mounted with concealed screws. To Engineer's approval	7	No		Rate Only
	1.06Towel paper Dispenser Stainless Steel Paper tissue towel dispenser from T\$C as mediclinics model or equal and approved.	7	No		Rate Only
	1.07Liquid Soap Dispenser Mediclinics DJOO30 liquid soap dispenser in stainless steel AISI 304 body. With top filling lid and push button. With epoxy finish. Or equal and approved.	7	No		Rate Only
1.08	Mirrors 6mm thick polished plate glass silver backed mirror with beveled edges, size 320 x 600mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	7	No		Rate Only
Total for sanitary fittings carried forward to next page page					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total for sanitary fittings brought down from previous page page					-

1.09	Shower Fittings Shower fittings consisting of chrome plated stop valve as Bricon/Aztec or approved equivalent with 1 No. 060 bath spout, CP, 178mm long, with sliding wall flange, 1 No. 061 four way control cock, CP, 1 No.027 overhang shower arm, CP, with sliding wall flange, 1 No. 068BJ 1/2" x 50mm diameter shower rose, CP, cone shaped, with ball joint connection and telephone shower. To be complete with 2No. 900mm ling grab rails fixed to the wall	7	No		Rate Only
		7	No		Rate Only
1.10	Soap Dish Chrome plated soap dish. Shall be screwed to wall to the engineer's approval	7	No		Rate Only
1.11	Towel Rail Similar or equal to Duravit 009924 Towel rail to be chrome plated with exposed screws.				
Total for sanitary fittings carried forward to Collection page 13					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
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2.00	<p><u>Internal Plumbing Works</u> <u>Cold Water & Hot Water Supply</u> Tenderers must allow for jointings, clippings, couplings necessary for proper and satisfactory functioning of the installation when pricing All pipework to be in Aqua pipe PPR pipe system and fittings as described in PN 10 continuously rated PPR piping ; All terminal fittings at the end of the pipe/ sanitary fittings connections shall have ss threaded ferole.</p>				
2.01	PPR Pipes				
A	25mm diameter pipework	136	Lm		
B	32mm diameter pipework	20	Lm		
C	40mm diameter pipework	8	Lm		
2.02	Bends				
A	25mm diameter bend	45	No.		
B	32mm diameter bend	4	No.		
C	40mm diameter bend	2	No.		
2.03	Tees				
A	25mm equal tee	56	No.		
B	32mm equal tee	4	No.		
C	40mm equal tee	4	No.		
2.04	Reducers				
A	32x 25mm diameter reducer	8	No.		
B	40x 25mm diameter reducer	2	No.		
C	40x 32mm diameter reducer	2	No.		
2.05	Unions				
A	25mm diameter union	25	No.		
B	32mm diameter union	3	No.		
C	40mm diameter union	3	No.		
2.06	Sockets				
A	25mm diameter socket	13	No.		
B	32mm diameter socket	2	No.		
C	40mm diameter socket	2	No.		
2.07	Threaded Brass Adapter				
A	25mm male/female threaded brass adapter	42	No.		
B	32mm male/female threaded brass adapter	2	No.		
c	40mm male/female threaded brass adapter	2	No.		
2.08	Threaded Bends				
A	25mmX 1/2" threaded bends	56	No.		
2.09	Gate Valve				
A	25mm diameter Gate valve	21	No.		
B	32mm diameter Gate valve	1	No.		
C	32mm diameter Gate valve	1	No.		
2.10	Copper Tubing				

A	15mm diameter flexible copper tubing 300mm long for connecting sanitary fitting to water supply. Complete with chrome plated angle valve	24	No.		-
Total for internal plumbing installations carried forward to collection page 13					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
3.00	<u>INTERNAL FOUL WATER DRAINAGE</u> 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.				
3.01	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey UPVC pipe	40	Lm		-
B	50mm diameter waste pipe	20	Lm		-
C	40mm diameter waste pipe	25	Lm		-
3.02	Bends				
A	100mm diameter sweep bend	7	No.		-
B	40mm diameter sweep bend	21	No.		-
3.03	Tees				
A	40mm diameter sweep tee	7	No.		-
B	100mm diameter sweep tee	7	No.		-
3.04	WC Connectors				
A	100mm diameter WC connector	7	No.		-
3.06	Access Caps				
A	40mm diameter access cap	7	No.		-
3.07	Floor Traps				
A	100 x 50 x 40 mm diameter 4-way Light Grey floor trap complete with grating.	14	No.		-

3.08	ALLOW Kshs 50,000.00 for terrace rain water draiange	1	Item	50,000.00	50,000.00
Total for foul drainage installations Carried to Collection Page 13					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
4.00	<p><u>Hosereel</u> 25mm diameter 30m long swinging type hose reel manufactured to BS 5274, with bottom entry and complete with delivery valve, mild steel feed pipe, isolation valve, guide and all other accessories as "Angus Fire Armour" or equal and approved. To be complete with a hosereel cabinet, painted and labeled.</p> <p><u>Hosereel Installation</u> All pipes shall be heavy gauge galvanized mild steel pipes to B.S1387 and fittings to B.S. 1740 (class C) . Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes for wall chasing and holes cutting by others all as required in pipework installation.</p>	1	No		Rate Only
4.01	<u>GMS Pipework</u>				
A	25mm diameter pipework	2	Lm		Rate Only
B	50mm ditto	4	Lm		Rate Only
	<u>Extra Over GMS Pipework</u>				
4.02	<u>Bends</u>				
A	25mm Bends	2	No		Rate Only
4.03	<u>Tees</u>				
B	50mm ditto	1	No		Rate Only
4.04	<u>Reducers</u>				
A	50x 25mm diameter reducer	1	No		Rate Only
4.05	<u>Valves</u>				
A	25mm diameter gate valve as PEGLER or approved equivalent.	1	No		Rate Only

4.06	Unions				
A	25mm diameter pipe union	1	No		Rate Only
B	50mm Ditto	1	No		Rate Only
4.07	Painting				
A	Allow for painting of the hosereel installation with 2 coats of super gloss paint on a primer coat s per F.O.C rules, 29th Edition with latest ammendments and to the approval of the Project Engineer.	Item	1		Rate Only
Total for hosereel installations Carried to Collection Page 13					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
4.00	Portable Fire Extinguishers Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
A	Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
B	Carbon Dioxide Gas Fire Extinguisher 5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
C	Dry Chemical Powder Fire Extinguisher 6kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
D	Manual Alarm Bell 9" (225mm) manual operated alarm bell (Gong)	2	No		Rate Only

F	Fire Notices Allow for fire signage, fire exits and fire instructions as as described in the particular specifications and to the Project Engineer's approval.	2	Item	Rate Only
Total for portable fire fighting equipment Carried to Collection Page 13				-

Item	Description				Amount (Kshs)
1.00	Total for sanitary fittings carried forward from page 8	.....	.....		-
2.00	Total for internal plumbing carried forward from page 9	.....	.....		-
3.00	Total internal drainage carried forward from page 10	.....	.....		-
4.00	Total for hosereel installations carried forward from page 11	.....	.....		-
5.00	Total for portable firefighting equipmentcarried forward from page 12	.....	.....		-
6.00	TOTAL FOR 1NO. FLOOR (1 +2 +3 + 4+ 5)				-
7.00	TOTAL FOR 2NO FRLOORS (2X6)				-

Total Plumbing and Drainage Works for First and second floor Carried forward to			ain Summary
			-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	THIRD FLOOR				
	<u>All prices are inclusive of VAT</u>				
1.00	<p style="text-align: center;"><u>SANITARY FITTINGS</u></p> <p>Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.</p>				

1.01	Water Closet (WC) Suite Close-coupled WC suite ('S' or 'turned P'-trap) in approved colour as Ideal Standards complete with outlet to BS 3402 with 6 litre valveless low level ceramic cistern and fittings including siphon, 15mm diameter bottom inlet ball valve, 20mm diameter side overflow, plastic flush bend, dual flush system, inlet connection, chrome-plated lever and heavy plastic seat and cover with metal top fixed (chrome plated) hinges. To be complete with 2No. 900mm ling grab rails fixed to the wall	3	No	Rate Only
1.02	Wash Hand Basin (WHB) Countertop basin size 555 x 450mm with one tap holes and chain stay hole, 32mm diameter chrome plated pop up chain waste, chrome plated single lever mixer pillar tap as Tivoli Kevon mixer pillar tap 100 and plastic bottle trap (32mm 'P' trap) with 75mm seal. The wash hand basin to be as Ideal Standard or equal and approved.	9	No	Rate Only
1.03	Toilet Roll Holder Wall Mounted Chrome plated stainless steel toilet roll holder with cover. To engineer's approval	3	No	Rate Only
1.05	Coat Hook Chrome plated robe hook mounted with concealed screws. To Engineer's approval	3	No	Rate Only
1.06	Towel paper Dispenser Stainless Steel Paper tissue towel dispenser from T\$C as mediclinics model or equal and approved.	3	No	Rate Only
1.07	Liquid Soap Dispenser Mediclinics DJOO30 liquid soap dispenser in stainless steel AISI 304 body. With top filling lid and push button. With epoxy finish. Or equal and approved.	3	No	Rate Only
1.08	Mirrors 6mm thick polished plate glass silver backed mirror with beveled edges, size 320 x 600mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	9	No	Rate Only
Total for sanitary fittings carried forward to next page page				-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total for sanitary fittings brought down from previous page page					-

1.09	Shower Fittings Shower fittings consisting of chrome plated stop valve as Bricon/Aztec or approved equivalent with 1 No. 060 bath spout, CP, 178mm long, with sliding wall flange, 1 No. 061 four way control cock, CP, 1 No.027 overhang shower arm, CP, with sliding wall flange, 1 No. 068BJ 1/2" x 50mm diameter shower rose, CP, cone shaped, with ball joint connection and telephone shower. To be complete with 2No. 900mm ling grab rails fixed to the wall	6	No		Rate Only
		6	No		Rate Only
1.10	Soap Dish Chrome plated soap dish. Shall be screwed to wall to the engineer's approval	6	No		Rate Only
1.11	Towel Rail Similar or equal to Duravit 009924 Towel rail to be chrome plated with exposed screws.				
Total for sanitary fittings carried forward to Collection page 20					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
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2.00	<p><u>Internal Plumbing Works</u> <u>Cold Water & Hot Water Supply</u> Tenderers must allow for jointings, clippings, couplings necessary for proper and satisfactory functioning of the installation when pricing All pipework to be in Aqua pipe PPR pipe system and fittings as described in PN 10 continuously rated PPR piping ; All terminal fittings at the end of the pipe/ sanitary fittings connections shall have ss threaded ferole.</p>				
2.01	PPR Pipes				
A	25mm diameter pipework	89	Lm		
B	32mm diameter pipework	20	Lm		
C	40mm diameter pipework	8	Lm		
2.02	Bends				
A	25mm diameter bend	35	No.		
B	32mm diameter bend	4	No.		
C	40mm diameter bend	2	No.		
2.03	Tees				
A	25mm equal tee	35	No.		
B	32mm equal tee	4	No.		
C	40mm equal tee	4	No.		
2.04	Reducers				
A	32x 25mm diameter reducer	8	No.		
B	40x 25mm diameter reducer	2	No.		
C	40x 32mm diameter reducer	2	No.		
2.05	Unions				
A	25mm diameter union	25	No.		
B	32mm diameter union	3	No.		
C	40mm diameter union	3	No.		
2.06	Sockets				
A	25mm diameter socket	13	No.		
B	32mm diameter socket	2	No.		
C	40mm diameter socket	2	No.		
2.07	Threaded Brass Adapter				
A	25mm male/female threaded brass adapter	20	No.		
B	32mm male/female threaded brass adapter	2	No.		
c	40mm male/female threaded brass adapter	2	No.		
2.08	Threaded Bends				
A	25mmX 1/2" threaded bends	48	No.		
2.09	Gate Valve				
A	25mm diameter Gate valve	10	No.		
B	32mm diameter Gate valve	1	No.		
C	32mm diameter Gate valve	1	No.		
2.10	Copper Tubing				

A	15mm diameter flexible copper tubing 300mm long for connecting sanitary fitting to water supply. Complete with chrome plated angle valve	38	No.		-
Total for internal plumbing installations carried forward to collection page 20					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
3.00	<u>INTERNAL FOUL WATER DRAINAGE</u> 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.				
3.01	MuPVC and uPVC Waste and Soil pipework				
A	100mm diameter heavy gauge grey UPVC pipe	40	Lm		-
B	50mm diameter waste pipe	20	Lm		-
C	40mm diameter waste pipe	18	Lm		-
3.02	Bends				
A	100mm diameter sweep bend	7	No.		-
B	40mm diameter sweep bend	15	No.		-
3.03	Tees				
A	40mm diameter sweep tee	24	No.		-
B	100mm diameter sweep tee	5	No.		-
3.04	WC Connectors				
A	100mm diameter WC connector	3	No.		-
3.06	Access Caps				
A	40mm diameter access cap	5	No.		-
3.07	Floor Traps				

A	100 x 50 x 40 mm diameter 4-way Light Grey floor trap complete with grating.	12	No.		-
Total for foul drainage installations Carried to Collection Page 20					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
4.00	<p><u>Hosereel</u> 25mm diameter 30m long swinging type hose reel manufactured to BS 5274, with bottom entry and complete with delivery valve, mild steel feed pipe, isolation valve, guide and all other accessories as "Angus Fire Armour" or equal and approved. To be complete with a hosereel cabinet, painted and labeled.</p> <p><u>Hosereel Installation</u> All pipes shall be heavy gauge galvanized mild steel pipes to B.S1387 and fittings to B.S. 1740 (class C) . Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes for wall chasing and holes cutting by others all as required in pipework installation.</p>	1	No		Rate Only
4.01	<u>GMS Pipework.</u>				
A	25mm diameter pipework	2	Lm		Rate Only
B	50mm ditto	4	Lm		Rate Only
	<u>Extra Over GMS Pipework</u>				
4.02	<u>Bends</u>				
A	25mm Bends	2	No		Rate Only
4.03	<u>Tees</u>				
B	50mm ditto	1	No		Rate Only
4.04	<u>Reducers</u>				
A	50x 25mm diameter reducer	1	No		Rate Only

4.05	Valves				
A	25mm diameter gate valve as PEGLER or approved equivalent.	1	No		Rate Only
4.06	Unions				
A	25mm diameter pipe union	1	No		Rate Only
B	50mm Ditto	1	No		Rate Only
4.07	Painting				
A	Allow for painting of the hosereel installation with 2 coats of super gloss paint on a primer coat s per F.O.C rules, 29th Edition with latest ammendments and to the approval of the Project Engineer.	Item	1		Rate Only
Total for hosereel installations Carried to Collection Page 20					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
4.00	Portable Fire Extinguishers Supply, deliver, install, test and commission the following portable fire extinguishers and conforming to BS EN 3 / BS 1449.				
A	Water/Carbon Dioxide Gas Fire Extinguisher 9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
B	Carbon Dioxide Gas Fire Extinguisher 5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
C	Dry Chemical Powder Fire Extinguisher 6kg dry chemical podwer portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	2	No		Rate Only
D	Manual Alarm Bell 9" (225mm) manual operated alarm bell (Gong)	2	No		Rate Only

F	Fire Notices Allow for fire signage, fire exits and fire instructions as as described in the particular specifications and to the Project Engineer's approval.	2	Item	Rate Only
Total for portable fire fighting equipment Carried to Collection Page 20				-

Item	Description				Amount (Kshs)
1.00	Total for sanitary fittings carried forward from page 15	.....	.....		-
2.00	Total for internal plumbing carried forward from page 16	.....	.....		-
3.00	Total internal drainage carried forward from page 17	.....	.....		-
4.00	Total for hosereel installations carried forward from page 18	.....			-
5.00	Total for portable firefighting equipmentcarried forward from page 19	.....			-

Total Plumbing and Drainage Works for third floor Carried forward to Main Summary Page 25			-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
1.00	<p><u>Internal Plumbing Works</u> <u>Cold Water & Hot Water Supply</u> Tenderers must allow for jointings, clippings, couplings necessary for proper and satisfactory functioning of the installation when pricing All pipework to be in Aqua pipe PPR pipe system and fittings as described in PN 10 continuously rated PPR piping ; All terminal fittings at the end of the pipe/ sanitary fittings connections shall have ss threaded ferole.</p>				
2.01	PPR Pipes				
A	25mm diameter pipework	56	Lm		-
B	32mm diameter pipework	72	Lm		-
C	40mm diameter pipework	60	Lm		-

2.02 Bends					
A	25mm diameter bend	12	No.		-
B	32mm diameter bend	36	No.		-
C	40mm diameter bend	15	No.		-
2.03 Tees					
A	25mm equal tee	8	No.		-
B	32mm equal tee	10	No.		-
C	40mm equal tee	16	No.		-
2.04 Reducers					
A	32x 25mm diameter reducer	12	No.		-
B	40x 25mm diameter reducer	12	No.		-
C	40x 32mm diameter reducer	12	No.		-
2.05 Unions					
A	25mm diameter union	10	No.		-
B	32mm diameter union	12	No.		-
C	40mm diameter union	10	No.		-
2.06 Sockets					
A	25mm diameter socket	5	No.		-
B	32mm diameter socket	6	No.		-
C	40mm diameter socket	5	No.		-
2.07 Threaded Brass Adapter					
A	25mm male/female threaded brass adapter	4	No.		-
B	32mm male/female threaded brass adapter	6	No.		-
c	40mm male/female threaded brass adapter	12	No.		-
2.08 Threaded Bends					
A	25mmX 1/2" threaded bends	5	No.		-
2.09 Gate Valve					
A	25mm diameter Gate valve	2	No.		-
B	32mm diameter Gate valve	3	No.		-
C	32mm diameter Gate valve	6	No.		-
2.10 Copper Tubing					
A	15mm diameter flexible copper tubing 300mm long for connecting sanitary fitting to water supply. Complete with chrome plated angle valve	1	No.		-
Total for internal plumbing installations carried forward to next page page					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total for internal plumbing installations brought down from previous page page					-

A	<p>ROOF STORAGE TANK Supply, deliver and install vertical close end plastic moulded tank of capacity 1,000 litres and diameter 1080mm x 1420mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 25mm medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted within the roof space and shall be as KENTANK Model CCV 100 or approved equivalent.</p>	4	No		Rate Only Rate Only
C	<p>BOOSTER PUMP The pump shall have the following specifications: Head: 10m Flow rate: 3000litres/hour the pump shall be as Dayliff DDJ 750 or equal and approved. The pump shall be installed with dayliff automatic pump controller the pump shall be complete with all necessary components needed for proper functioning, it shall also be provided with a proper electrical protection against power surge. It will be installed inside a lockable pump cage with dimensions of 600 X 300 X 300mm (LXWXH)</p>	1	No		
Total for roof plumbing installations Carried to main summary page 25					-

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
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	<p style="text-align: center;"><u>SOLAR WATER HEATING INSTALLATION</u> <u>(CENTRALIZED WATER HEATING SYSTEM)</u></p> <p>Price for supply, installation, test and commission of the following split solar hot water system appliances complete with all the accessories including all connections to the services, jointing to water supply, overflows, supports and all plugging and screwing to walls and frames. The hot water cylinder shall be installed in a designated space in the roof space</p> <p>1.01 SOLAR PANELS Supply solar water heating system comprising of Solar panel with multi-fin high selective aluminium absorber with laser welded copper risers of haro design, 2m² dielectric nett absorbing area, glass wool insulation, aluminium profile casing, low iron special solar tempered glass and all other necessary interconnectors. The system shall be a closed circuit type of the solar heating system as ULTRASUN OREMIUM SOLAR COLLECTORS or equal and approved. Solar panels to be contained at the Roof Space.</p> <p>1.02 SOLAR WATER STORAGE CYLINDER - 500LTR HWC Supply solar water heating system comprising of 1No. 500 litres capacity hot water cylinder, Long life eco friendly Ultrasun Premium indirect single coil water storage tank made from low carbon steel with double enamel internal coating and cathodic protection for exceptional corrosion protection. the tank shall be complete with 2.2kW electric booster element and thermostat, cathodic protection with magnesium anode according to DIN 4753/6, insulation of high density expanded polyurathane, high quality enamelling against internal corrosion to DIN 4753 and all other necessary interconnectors. The system shall be a closed circuit type of the solar heating system as Dayliff CSW or equal and approved, and shall have connections for heating fluid (2no) inlet and outlet, hotwater supply (1no.) and cold water supply (1no). Cylinder to be contained below the roof. thw sustem shall be complete with</p> <p>1.03 SOLAR HEATER CONTROLLER The solar system shall be equipped with a heater controller wired such that it can display and control the temperature of circulating fluid and the temperature of stored hot water, then the controller shall switch the electric circulation pump and/ or booster heater element ON/OFF.</p> <p>1.04 WIRING Allow for all wiring to booster heater and circulation pump from local isolator supplied by others for all the solar heating systems.</p> <p>1.05 SAFETY VALVE Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco Model No. SV11 Pop Type or equal and approved.</p>	<p>5</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>	<p>No.</p> <p>No.</p> <p>No.</p> <p>No.</p> <p>Item</p> <p>No.</p>		<p>Rate Only</p> <p>Rate Only</p> <p>Rate Only</p> <p>Rate Only</p> <p>Rate Only</p>
Total carried forward to next page page					

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total brought forward from previous page					
1.06	GATE VALVES 32mm diameter screwed- in bonnet, full way non-rising stem, solid wedge disk, bronze gate valve to BS 5154 PN 20 for series 'B' ratings with wheel head and transition fitting for jointing to PPR tubing. Complete with adaptors	2	No.		
1.07	Non- Return Valves 32mm diameter screwed -in cap, lift type disc bronze non-return valve to BS 5154 PN 32 for series 'B' ratings.	2	No.		Rate Only
1.08	Primary Circuit Pipe work Galvanised medium grade class "B" Pipework complete with all the necessary fittings ie bends, tees, reducers, unions etc screwed and jointed, pipe supports holder barts etc for satisfactory completion and performance of the installation.	6	Lm		
	i. 32mm diameter pipework ii. 32mm diameter bend iii. 32mm diameter pipe unions iv. 32mm male/female threaded tee	6	No.		
		3	No.		
		6	No.		
1.09	Tempering Valve 32 mm diameter tempering valve to mix the hot water supply to the fittings with cold water supply to ensure a max of 55°C to the secondary circuit pipework	1	No.		Rate Only Rate Only Rate Only Rate Only
1.10	Pipe Insulation Allow for insulation for pipework, bends, tees and other fittings with 25mm thick industrial grade insulation and shall comprise of 130 kg/m3 minimum density mineral fibre pipe sections with factory applied fully bonded reinforced aluminium foil facing. The thermal conductivity of the insulate shall not exceed 0.033 W/m.K at 10°C mean.	6	Lm		Rate Only

<u>MAIN SUMMARY PAGE</u>			
Item	Description		Amount (Kshs)
1.00	Total for ground floor plumbing and drainage works carried forward from page 6	.....
2.00	Total for typical first and second floor plumbing and drainage works carried forward from page 13	.....
3.00	Total for third floor plumbing and drainage works carried forward from page 20	.....
4.00	Total for roof plumbing works carried forward from page 22	.....
5.00	Total for solar water heating forward from page 24	.....

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<u>GROUND FLOOR COMMITTEE ROOMS</u>				
	INDOOR UNITS				
	Indoor Units The system shall comprise of one outdoor unit connected to 5No. Indoor units with cooling capacities as indicated below; Multi-V Air Conditioning System. The indoor unit shall be a 4-way 600mm x 600mm ceiling mounted cassette type direct expansion air conditioning indoor unit complete with the following:- Cooling capacity: 5.6kW (19,000 Btu/hr) A wired and wireless remote controller A refrigerant (R410A) initial charge Easily cleanable air-filter Thermostat to control room temperature Condensate drain pump 5m long insulated drain hose of 32mm diameter Auto restart function Sound pressure level of 29 db (A) Lowest temp range of 16 degrees celcius The indoor unit to be mounted in the ceiling with prefabricated hanging supports comprising of hanging bolts, nuts, spring washer and plate washer on the position shown on the approved working drawings.				
A	The unit to be as "TOSHIBA MMU-UP0181HP-E" or equal and approved.	5	No.		Rate Only
1.12	Control Cable Installation Works Allow for wiring and conduit works including but not limited to interconnecting cable between the outdoor unit, indoor units, wired remote control and control system. The transmission cable to be CVV-SB 1.5mm ² x4C	40	LM		Rate Only
1.13	Electrical Connections Electrical conduiting & wiring between indoor unit and local DP switch. (DP Switch to be approximately 3 metres away from the unit)	5	No.		Rate Only
					-

1.14	Electrical wiring & conduiting between outdoor unit and local isolator. (Isolator to be approximately 2 metres away from the outdoor unit). Also allow for wiring from the outdoor and indoor units to the control panel. It shall include a push and turn safety switch near the outdoor air conditioning machine for isolation during maintenance.	1	No.		Rate Only
	Power Surge Protectors				-
1.15	3-Phase Monitor / Voltage surge protection device to be wired to the condensing unit (outdoor unit)	1	No.		Rate Only
					-
1.16	Voltage surge protection device wired to the above described indoor units or next to the DP switch.	5	No.		Rate Only
	Insulated PVC Drain Pipework				
1.17	Supply and install insulated uPVC pipes for drainage of the indoor units. Tenderer must allow in their prices for all sizes of connectors, adapters, socket, reducers, holder bats, clips e.t.c. required for the satisfactory running of the system.				
A	32mm diameter grey uPVC pipework	18	LM		Rate Only
B	32mm diameter tee	5	No.		Rate Only
C	32mm diameter bend and U-trap	5	No.		Rate Only
Total for Carried Forward to Page 4					-
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	VRF OUTDOOR UNIT				

1.18	<p>Variable Refrigerant Flow (VRF) air-cooled integrated Outdoor Condensing Unit of cooling capacity 25 kW (sensible & latent). Compressor to be hermetic scroll type, to serve multiple Indoor Units as TOSHIBA MMY-MAP1606HT8P-E or Equivalent with the following features;</p> <ul style="list-style-type: none"> ●Refrigerant Charge - R410a ●Gas & Liquid stop valves ●Connection piping for oil balancing ●Flare connections to match piping to indoor units ●Mounting feet with anti-vibration mountings ●3 Phase Power input. ●System must be able to restart automatically after power failure. ●Capacity control in the range 10-130% according to indoor cooling load ●It shall be provided with all anchoring accessories including rawl bolts complete with anti-vibration rubber mountings. 	1	No.	Rate Only
	Copper Pipework and Insulation			-
	<p>Supply, deliver and instal copper tubing to BS 2871: part1 and capillary and compression fittings to BS 864: part 2. Tubing must be solid drawn round, clean, smooth and free from defects and from deleterious films in the bore. The fittings must be free from internal fins or other irregularities. Compression fittings shall be Type A (non-manipulative). Allow in pipework prices for pipe support, clips and cradles, bends, tees, insulation, branches, joining fixing and any other accessories for proper and satisfactory functioning of the system.</p>			-
1.19	Copper Pipework and Insulation			
A	15.875mm diameter insulated copper pipe	10	LM	Rate Only
B	12.70mm diameter insulated copper pipe	12	LM	Rate Only
C	9.525mm diameter insulated copper pipe	10	LM	Rate Only
D	6.50mm diameter insulated copper pipe	5	LM	Rate Only
	Y-Branches			

1.20	Copper Y-branches complete with reducers and tees to connect outdoor units from/to both high pressure gas and liquid main refrigerant pipe. The Y-branches to be as LG Y-branches models or approved equivalent.				
A	RBM-BY305E	5	No.		Rate Only
B	RBM-BY205E	5	No.		Rate Only
C	RBM-BY105E	5	No.		Rate Only
					-
1.21	Cleaning and Flushing the Installation Allow for cleaning and flushing the whole installation with appropriate medium before charging the system with refrigerant.	1	Item		Rate Only
Total for Carried Forward to Page 4					-
Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<p>CENTRAL CONTROLLER UNIT</p> <p>Wired remote controller unit complete with operational switches shall be installed in the reception area or any other convenient place. The unit shall be capable of controlling 4 indoor units. The unit shall incorporate pilot lamps to enable operating conditions to be checked. The system casing shall be of mild steel and anodized and shall be complete with built-in back up power and all other accessories necessary to automatic operations of the air conditioning system. The controls system functions shall be:-</p> <ul style="list-style-type: none"> . Controlling indoor units in all floor . Individual operation and monitoring . Group Management . set lock/lock release for remote control of each indoor unit at place where its installed. . Schedule automatic operation management/energy saving . Self diagnosing function (display system errors) <p>The controls system shall be model No. 'BMS-CM1280TLE' as manufactured by TOSHIBA or equal and approved</p>	1	No.		Rate Only

Total for Carried Forward to Page 4					-
ITEM	DESCRIPTION				AMOUNT
					KSh
	AIR CONDITIONING PAGE				

A	Total b/f from page 1	-
B	Total b/f from page 2	-
C	Total b/f from page 3	-

	Total For Heating, ventilation and air conditioning installations	-

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
	FIRST FLOOR				
1.00	Supply, install, test and commission the following:				
1.01	LIGHTING				
A	Lighting point for one way switching comprising 3 x 1.5 sq mm s/c cu cables drawn through 20mm h/g pvc conduits for one way switching	No.	28		-
B	Ditto, but two way switched	No.	12		-
C	Lighting point for one way switching comprising 3 x 1.5 sq mm s/c cu cables drawn through 20mm h/g pvc conduits fo emergency lights	No.	6		-
1.02	10amps moulded white switch plate as MK or equal and approved				-
A	1 gang 1 way	No.	6		Rate Only
B	1 gang 2 way	No.	12		Rate Only
C	3gang 2 way	No.	2		Rate Only
D	Intermediate	No.	2		Rate Only
1.03	Supply and install the following light fittings c/wwith necessary control gear, lamps and lamp holder as described in the attached schedule				-
A	Type 1(18W circular ceiling panel as LEDVANCE)	No	25		Rate Only
B	Type 2(12W circular ceiling panel as LEDVANCE)	No	6		Rate Only

C	Type G (Glass globe ceiling light complete with 10W LED bulb)	No	2		Rate Only
D	Type S (50W, IP66 floodlights as TRONIC)	No	5		Rate Only
Total Carried Forward To Collection Page 6					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
2.00	Supply, install, test and commission the following: POWER INSTALLATIONS				
2.01	<u>Sockets</u>				
A	Ring mains outlet wired using 3 x 2.5 sq.mm s/c cu cables drawn in trunking and conduits	No.	50		-
B	13 amps twin switched socket with earth leakage and residual current protection device as MK	No.	50		-
2.02	<u>Washrooms</u>				

	Supply and install a radial circuit comprising 3x2.5sqmm single core copper cable drawn through 25mm dia to the following:				
A	Handrier	No.	2		-
B	20amps DP moulded white switch plate with neon light indicator to control the above	No.	7		-
2.05	Supply and install the following consumer units and distribution boards c/w integral isolators as Merlin Gerin or an approved equivalent				
A	12 way TPN Distribution Board as Merlin Gerin	No.	2		Rate Only
2.06	MCB's				
A	6 way 63A SPN Consumer Unit as Schneider or an approved equivalent for UPS power.	No.	1		Rate Only
B	10 Amps SP	No.	4		Rate Only
C	20 Amps SP	No.	4		Rate Only
D	32 Amps SP	No.	3		Rate Only
E	63 Amps TP	No.	2		Rate Only
F	allow for labelling of boards and circuits	item	2		Rate Only
Total Carried Forward To Collection Page 6					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
3.00	Supply, install, test and commission the following: FIRE ALARM, CCTV, INTRUDER ALARM, TELEVISION.				
3.01	<u>Fire Detection and Alarm</u>				
	2 core 1.5sqmm fire resistant cable drawn in 25mm dia heavy gauge conduit complete with a junction box and draw wire from the control panel to the following:				
A	Breakglass Unit	No.	2		Rate Only
B	Photoelectric smoke detector	No.	8		Rate Only

C	LED Sounder Beacon as MAS 860	No.	2		Rate Only
3.02	<u>CCTV</u> 25mm dia heavy gauage conduit complete with a junction box and draw wire from the control room and terminated in a pvc 100x25mm box for the following:				-
A	CCTV Cameras	No.	8		Rate Only
3.03	<u>Television</u> 25mm dia heavy gauage conduit complete with a junction box and draw wire from splitter and terminated in a 100x25mm pvc box for Television outlets				-
A		No.	10		-
Total Carried Forward To Collection Page 6					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
ELECTRICAL INSTALLATIONS-CIRCUITS FOR MECHANICAL EQUIPMENT					
4.03	<u>Mechanical Ventilation and Air Conditioning</u> <u>Theatre Mechanical Ventilation and Air Conditioning</u>				
A	4Core 6 sqmm pvc/pvc copper cable from the Mechanical Distribution Board to indoor and outdoor air conditioning units	Lm	5		-

	Total Carried Forward To Collection Page 6				-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL(KSHS)
	Total Carried Forward To Collection Page 6				-

COLLECTION PAGE

ITEM	DESCRIPTION	AMOUNT(KSHS)			
1.00	Total For Lighting Brought Forward From Page 1				-
2.00	Total For Power Brought Forward From Page 2				-
3.00	Total For Fire Alarm,CCTV Systems and Intruder Alarm, Access Control, Television, Brought Forward From Page 3				-
4.00	Total For circuits for Mechanical equipment brought forward from page 4				-
	Total Carried Forward To Main Summary Page 17				-

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
	SECOND FLOOR				
1.00	Supply, install,test and commission the following:				
1.01	LIGHTING				

A	Lighting point for one way switching comprising 3 x 1.5 sq mm s/c cu cables drawn through 20mm h/g pvc conduits for one way switching	No.	86	-
B	Ditto, but two way switched	No.	4	-
C	Lighting point for one way switching comprising 3 x 1.5 sq mm s/c cu cables drawn through 20mm h/g pvc conduits fo emergency lights	No.	12	-
1.02	10amps moulded white switch plate as MK or equal and approved			-
A	1 gang 1 way	No.	50	Rate Only
B	1 gang 2 way	No.	8	Rate Only
C	3gang 2 way	No.	4	Rate Only
D	Intermediate	No.	4	Rate Only
1.03	Supply and install the following light fittings c/wwith necessary control gear, lamps and lamp holder as described in the attached schedule			-
A	Type 1(18W circular ceiling panel as LEDVANCE)	No	28	Rate Only
B	Type 2(12W circular ceiling panel as LEDVANCE)	No	40	Rate Only
C	Type G (Glass globe ceiling light complete with 10W LED bulb)	No	14	Rate Only
D	Type S (50W, IP66 floodlights as TRONIC)	No	8	Rate Only

	Total Carried Forward To Collection Page 11					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)	
2.00	Supply, install, test and commission the following:					
	POWER INSTALLATIONS					
2.01	Sockets					
A	Ring mains outlet wired using 3 x 2.5 sq.mm s/c cu cables drawn in trunking and conduits	No.	56		-	
B	13 amps twin switched socket with earth leakage and residual current protection device as MK	No.	56		-	
2.02	Washrooms					
	Supply and install a radial circuit comprising 3x2.5sqmm single core copper cable drawn through 25mm dia to the following:					
A	Handrier	No.	8		-	
B	20amps DP moulded white switch plate with neon light indicator to control the above	No.	14		-	
2.05	Supply and install the following consumer units as Merlin Gerin or an approved equivalent					
2.06	MCB's					
A	6 way 63A SPN Consumer Unit as Schneider or an approved equivalent for UPS power.	No.	1		Rate Only	
B	10 Amps SP	No.	8		Rate Only	
C	20 Amps SP	No.	8		Rate Only	
D	32 Amps SP	No.	6		Rate Only	
E	63 Amps TP	No.	4		Rate Only	
F	allow for labelling of boards and circuits	item	4		Rate Only	

Total Carried Forward To Collection Page 11					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
3.00	Supply, install, test and commission the following:				
	FIRE ALARM, CCTV, INTRUDER ALARM, TELEVISION				
3.01	<u>Fire Detection and Alarm</u>				
	2 core 1.5sqmm fire resistant cable drawn in 25mm dia heavy gauge conduit complete with a junction box and draw wire from the control panel to the following:				
A	Breakglass Unit	No.	4		Rate Only
B	Photoelectric smoke detector	No.	16		Rate Only
C	LED Sounder Beacon as MAS 860	No.	4		Rate Only
3.02	<u>CCTV</u>				-
	25mm dia heavy gauge conduit complete with a junction box and draw wire from the control room and terminated in a pvc 100x25mm box for the following:				-
A	CCTV Cameras	No.	16		Rate Only
3.03	<u>Television</u>				

A	25mm dia heavy gauge conduit complete with a junction box and draw wire from splitter and terminated in a 100x25mm pvc box for Television outlets	No.	20		-
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Total Carried Forward To Collection Page 11					-
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ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL(KSHS)
4.03 A	Mechanical Ventilation and Air Conditioning Theatre Mechanical Ventilation and Air Conditioning 4Core 6 sqmm pvc/pvc copper cable from the Mechanical Distribution Board to indoor and outdoor air conditioning units	Lm	12		-
Total Carried Forward To Lower Ground Floor Price Collection Page 11					-

COLLECTION PAGE

ITEM	DESCRIPTION	AMOUNT(KSHS)
1.00	Total For Lighting Brought Forward From Page 7	-

2.00	Total For Power Brought Forward From Page 8				-
3.00	Total For Fire Alarm,CCTV Systems and Intruder Alarm, Access Control, Television,Piped Music and Intercom Reticulation Brought Forward From Page 9				-
4.00	Total For Power Distribution Brought Forward From Page 10				-
Total Carried Forward To Main Summary Page 17					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
	THIRD FLOOR				
1.00	Supply, install,test and commission the following:				
1.01	LIGHTING				

A	Lighting point for one way switching comprising 3 x 1.5 sq mm s/c cu cables drawn through 20mm h/g pvc conduits for one way switching	No.	60	-
B	Ditto, but two way switched	No.	2	-
C	Lighting point for one way switching comprising 3 x 1.5 sq mm s/c cu cables drawn through 20mm h/g pvc conduits fo emergency lights	No.	6	-
1.02	10amps moulded white switch plate as MK or equal and approved			-
A	1 gang 1 way	No.	18	Rate Only
B	1 gang 2 way	No.	2	Rate Only
C	2 gang 2 way	No.	4	Rate Only
D	Intermediate	No.	2	Rate Only
1.03	Supply and install the following light fittings c/wwith necessary control gear, lamps and lamp holder as described in the attached schedule			-
A	Type 1(18W circular ceiling panel as LEDVANCE)	No	18	Rate Only
B	Type 2(12W circular ceiling panel as LEDVANCE)	No	10	Rate Only
C	Type G (Glass globe ceiling light complete with 10W LED bulb)	No	9	Rate Only
D	Type S (50W, IP66 floodlights as TRONIC)	No	25	Rate Only

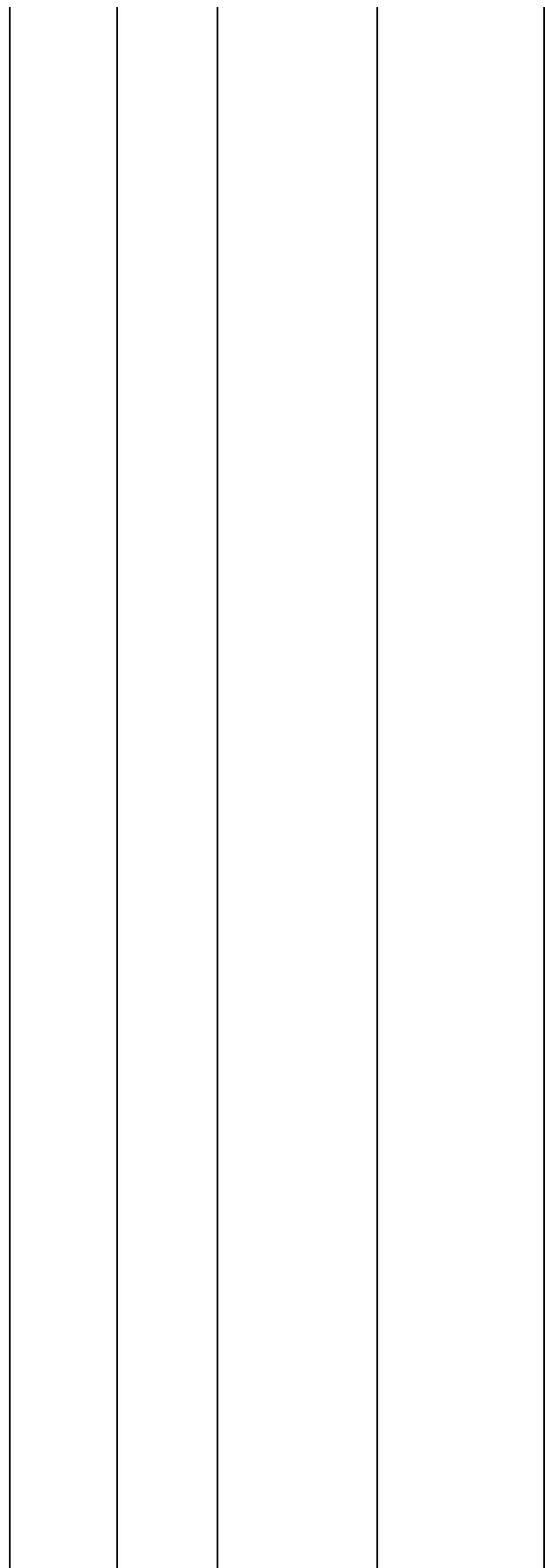
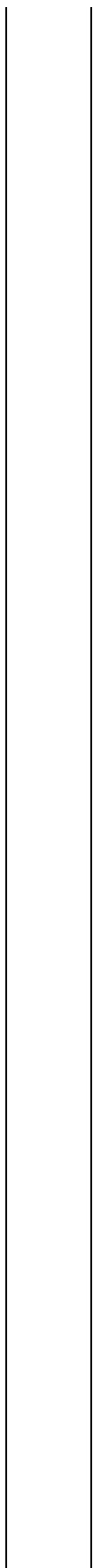
	Total Carried Forward To Collection Page 16				-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
2.00	Supply, install, test and commission the following: POWER INSTALLATIONS				
2.01	<u>Sockets</u>				
A	Ring mains outlet wired using 3 x 2.5 sq.mm s/c cu cables drawn in trunking and conduits	No.	20		-
B	13 amps twin switched socket with earth leakage and residual current protection device as MK	No.	20		-
2.02	<u>Washrooms</u>				
	Supply and install a radial circuit comprising 3x2.5sqmm single core copper cable drawn through 25mm dia to the following:				
A	Handrier	No.	4		-
2.05	Supply and install the following consumer units as Merlin Gerin or an approved equivalent				
2.06	MCB's				
A	6 way 63A SPN Consumer Unit as Schneider or an approved equivalent for UPS power.	No.	1		Rate Only
B	10 Amps SP	No.	4		Rate Only
C	20 Amps SP	No.	4		Rate Only
D	32 Amps SP	No.	3		Rate Only
E	63 Amps TP	No.	2		Rate Only
F	allow for labelling of boards and circuits	item	2		Rate Only

Total Carried Forward To Collection Page 16					-
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL (KSHS)
3.00	Supply, install, test and commission the following:				
3.01	<u>Fire Alarm, CCTV, Intruder Alarm, Television</u>				
	2 core 1.5sqmm fire resistant cable drawn in 25mm dia heavy gauge conduit complete with a junction box and draw wire from the control panel to the following:				
A	Breakglass Unit	No.	2		Rate Only
B	Photoelectric smoke detector	No.	8		Rate Only
C	LED Sounder Beacon as MAS 860	No.	2		Rate Only
3.02	<u>CCTV</u>				-
	25mm dia heavy gauge conduit complete with a junction box and draw wire from the control room and terminated in a pvc 100x25mm box for the following:				-
A	CCTV Cameras	No.	8		Rate Only

--	--	--	--	--	--

Total Carried Forward To Collection Page 16					-
--	--	--	--	--	---

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL(KSHS)
4.00	Supply and install the following amoured cables c/w cable lugs and glands.				
A	4Core 35sqmm pvc/swa/pvc copper cable from the raw power sub board to DB 'A'	Lm	20		-
B	4Core 35sqmm pvc/swa/pvc copper cable from raw power sub board to D.B 'B '	Lm	30		-



	Total Carried Forward To Collection Page 16	-
--	--	---

COLLECTION PAGE

ITEM	DESCRIPTION	AMOUNT(KSHS)
1.00	Total For Lighting Brought Forward From Page 12	-
2.00	Total For Power Brought Forward From Page 13	-
3.00	Total For Fire Alarm,CCTV Systems and Intruder Alarm, Access Control, Television,Piped Music and Intercom Reticulation Brought Forward From Page 14	-
4.00	Total For Power Distribution Brought Forward From Page 15	-
	Total Carried Forward To Main Summary Page 17	-

MAIN SUMMARY PAGE			
Item	Description		Amount (Kshs)
1.00	Total for Ground floor carried forward from page 6	.....
2.00	Total for 1st and 2nd floor carried forward from page 11	.....
3.00	Total for third floor carried forward from page 16	.....
5.00	PC Sum for Stuctured Cabling	.....	200,000.00
TOTAL FOR ELECTRICAL INSTALLATIONS			

Item	Description	Unit	Qty	Rate	Amount
	<u>BILL No.10</u>				
	<u>PRIME COSTS & PROVISIONAL SUMS</u>				
	-				
	<u>NOTE :</u>				
	<u>PROVISIONAL SUMS - THESE ITEMS TO BE</u>				
	<u>BROKEN DOWN AND COSTS CONFIRMED UPON</u>				
	<u>DETAILED DESIGN & SPECIFICATIONS. AS SUCH</u>				
	<u>ESTIMATOR'S PRICES HERE ARE INDICATIVE</u>				
	<u>TO ASSIST CONTRACT SIGNING</u>				
A	LANDSCAPING				EXCLUDED
B	PAVINGS, DRIVEWAY AND PARKING			-	-
C	STORM WATER DRAINAGE	-	-	-	EXCLUDED

D	FOUL DRAINAGE	-	-	-	-
		-	-	-	EXCLUDED
	<u>PROJECT MANAGEMENT</u>	-	-	-	-
E	Provisional Sum for the services of supervision, project documentation and coordination	Sum	1	1,500,000.00	1,500,000.00
	<u>CONTINGENCY ALLOWANCE</u>				
F	Allow a provisional sum of Kenya Shillings One Million Only (Ksh. 1,000,000.00) for Contingencies	Som	1	1,000,000.00	1,000,000.00
	<u>PRIME COSTS & PROVISIONAL SUMS</u>				
	<u>TOTAL CARRIED TO MAIN SUMMARY</u>				2,500,000.00

SPECIFICATIONS & BILLS OF QUANTITIES
PROPOSED CONSTRUCTION OF M.C.A PLAZA
COUNTY GOVERNMENT OF MIGORI

MAIN SUMMARY			
		PAGE No.	AMOUNT (KSH)
BILL 01	PRELIMINARIES	1/19	
BILL 02	BUILDERS' WORKS	2/21	-
BILL 03	EXTERNAL WORKS	3/3	-
BILL 04	PLUMBING, DRAINAGE, FIRE AND SOLAR WATER HEATING	4/25	-
BILL 05	HEATING, AIR CONDITIONING & VENTILATION	5/4	EXCLUDED
BILL 06	LIFT INSTALLATION	6/1	EXCLUDED

BILL 07	ELECTRICAL INSTALLATION WORKS	7/13	-
BILL 08	PRIME COSTS & PROVISIONAL SUMS	8/1	2,500,000.00
	<u>SUB TOTAL</u>	-	-
	VALUE ADDED TAX		INCLUDED
	TOTAL PROJECT SUM (INCLUSIVE OF TAXES)	KSH	-

<u>In words:</u>
- - -
<u>Tenderer:</u>
<u>Date & Stamp:</u>

SECTION VI - SCHEDULE OF REQUIREMENTS

APPENDIX TO CONDITIONS OF CONTRACT

Appendix to Instructions to Tenderers

- Where there is a conflict between the provisions of the instructions to candidates and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to the candidates.
- General and Special Conditions of Contract shall be considered.

Preliminary Evaluation

1	The Employer is	<i>County Assembly of Migori Address: P.O. Box 985 – 40400, Suna</i>
2	Employer's Representative	<i>County Assembly Clerk Address: P.O. Box 985– 40400, Suna</i>
3	Tender Price	<p><i>i. Candidates shall quote prices in accordance with the schedule of prices provided in this tender document and shall be expressed in Kenya Shillings.</i></p> <p><i>ii. Prices quoted should be net inclusive of all taxes and must be expressed in Kenya shillings and shall remain valid for a period of 90 days from the closing date of the tender</i></p>
4	Evaluation Criteria	<p><u><i>Preliminary Evaluation</i></u> <i>Shall consist and not limited to all Mandatory Requirements</i></p> <p><i>i. Certified Certificate of Registration</i></p> <p><i>ii. PIN Certificate</i></p> <p><i>iii. Certified Valid Tax Compliance Certificate</i></p> <p><i>iv. Certified Valid Single Business permit</i></p> <p><i>v. A written power of Attorney authorizing the signatory of the tender to commit the Tenderer. This requirement is not applicable to sole proprietorships</i></p> <p><i>vi. Tender Document to be sequentially serialized from the first to the last page including all the attachments in numerical digits' format.</i></p> <p><i>vii. Copy of CR 12(Not more than 6 months old). Where one or more of the shareholders is a company (Beneficial Ownership) the CR12 of such a company shall be provided. This requirement is not applicable to sole proprietorships and partnerships. However, where the CR12 of the beneficial shareholders is not available, as at the time of the tender submission, the successful bidder shall be required to submit it before execution of the contract.</i></p> <p><i>viii. This requirement is not applicable to sole proprietorships and partnerships registered under Business Names. Provide copy of CR12 or equivalent from country of origin (in case of joint venture with a foreign company), providing a list of directors and shareholding status.</i></p> <p><i>ix. 2% bid bond</i></p> <p><i>x. NCA Certificate (5 and above) and must be accompanied by NCA Practicing licenses</i></p> <p>Duly filled, signed and stamped form of tender</p> <ul style="list-style-type: none"> • Not having been declared ineligible by the PPRA <p><i>xi. • No conflicts of interest</i></p> <p><i>xii. Business Questionnaire Filled and stamped</i></p> <p><u><i>Detailed Evaluation (Only Firms attaining minimum Score of 70% shall proceed to Financial Evaluation)</i></u></p>

Financial Evaluation (Maximum Score – 30%)

Award will be based on weighted average score. Where the highest weighted score shall be ranked number one.

NB: Firms which fails to submit mandatory requirements as stated above shall not move to Technical stage

B: Technical Evaluation

No.	Evaluation Criteria	Evaluation attribute	Weighting score	Maximum score	
1.	Financial Capacity	<p>Copies of the following documents as proof of access to liquid assets of not less than Kshs.20 Million or capacity to have a minimum cash flow of Kshs 20 million. This shall be evidenced by any of the following:</p> <ol style="list-style-type: none">1. Letter showing line of credit from an approved financial institution specific to this project and indicating the amount available.2. Overdraft facility from a commercial bank specifically for this project and indicating the amount to be availed.3. Current bank statement for the last six months4. Or a combination of the above <p>(10 marks)</p>	<p>Cash flow of 20 Million above = 10 marks. Other prorated at: Amount of bank balance x 10 Marks/20 Million</p>	10 Marks	
2	Audited Accounts	<p>Average annual turnover of not less than Kshs.30 Million for the last three consecutive years as demonstrated by the submitted Certified Audited Accounts for the years</p>	5 Marks per financial year	15 Marks	

		(2019,2020 and 2021) or (2020, 2021 and 2022).			
3	Experience of the firm	No. of years in the industry (certificate of incorporation)	-5 years and above =10 mks other prorated at: No. of years x 10marks /5 years.	10 Marks	
4.	Technical Capacity	<p>Proof of at least Three (3) similar works in general building works, costing not less than Kshs. 20 million (Kenya Shillings twenty Million) on average previously undertaken in the last five years (2018 to date) Bidder shall attach copies of the following:</p> <ol style="list-style-type: none"> 1. Letters of Award or, 2. Signed Contract and Completion Certificate for the respective projects. or <p>If project is ongoing it must be at least 70% complete. Bidder to attach copies of interim payment certificates</p>	-3projects and above =15 mks other prorated at: No. of projects x 15marks /3 projects.	15 Marks	
5	Qualifications	<p>Must provide 3 qualified and experienced personnel to manage and execute the works on the site.</p> <p>Bidders shall submit the following documents which shall be certified by the employer as true copies of the original to be used for evaluation:</p> <ul style="list-style-type: none"> • Copies of academic certificates • Copies of professional certificates • Copies of current practicing license • Curriculum vitae signed by the nominee <p>Project Manager</p>	(5 marks for each staff)	15Marks	

1. Bachelors in any of the following: Architecture, Quantity Surveying, Construction

Project Management/Building Construction or Structural Engineering field.

2. Registered Professional with the respective registration bodies E.g. Civil Engineer with **Engineers Board of Kenya (EBK)** and Architecture, Quantity Surveying, Construction Project Management with **Board of Registration of Architects & Quality Surveyors (BORAQS)**. Must have a valid practicing license - **Mandatory**

3. General Experience – Minimum **Seven (7)** years.

4. Specific

experience

on

Construction

of building

works – **5**

years.

Assistant

Project

Manager

1. Bachelors in any of the following:
Architecture, Quantity Surveying,
Construction Project Management/Building Construction or Structural Engineering field.

		<p>2. General Experience – Minimum Five (5) years.</p> <p>3. Specific experience on Construction of building works – 3 years. Site Foreman</p> <p>1. Diploma in Construction/Building Management.</p> <p>2. Experience – Minimum Seven (7) years</p>			
6	Equipment and Machinery	<p>Must demonstrate access to the following key minimum equipment (invoices, receipts, leased or hire agreement) necessary to undertake the work;</p> <ol style="list-style-type: none"> 1. 200 Litre Concrete Mixers – One (1) 2. Concrete Poker Vibrator – Two (2) 3. Lorries – Two (2) 4. Tippers – Two (2) 5. Pick Ups – Two (1) 6. Backhoe Loader – One (1) <p>Notes</p> <ul style="list-style-type: none"> • If the equipment is owned, must provide CLEAR copies of log book or proof of ownership; • The equipment listed shall be available on site when required 	- 5 equipment and machinery and above =15 mks other prorated at: No. of years x 15marks /5 equipment and machinery.	15 Marks	
Total Marks				80	

NOTE:

Technical Evaluation (Only Firms attaining minimum Score of 70% shall proceed to Financial Evaluation)

C. FINANCIAL EVALUATION

Upon completion of the technical evaluation a detailed financial evaluation shall follow. The financial evaluation shall proceed in the manner described in the Public Procurement and Disposal Act (2015) of the laws of Kenya and the Public Procurement and Disposal Regulations, 2022.

The financial evaluation shall be in **three stages**;

- a) Checking for arithmetic errors
- b) Comparison of Rates; and
- c) Consistency of the Rates.

A) Arithmetic errors

Arithmetic Errors will be corrected as follows:-

- i)* In the event of a discrepancy between the amount as stated in the form of tender and the corrected tender figure in the main summary of the Bills of Quantities, the amount in the Form of Tender shall prevail. Pursuant to section 82 of the Public Procurement and Asset Disposal Act 2015, the tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity
- ii)* Tenderers with arithmetic errors shall automatically be disqualified and shall not be evaluated further.

B) Comparison of rates

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

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

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

C) Consistency of the Rates

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

The financial evaluation will be based on the **lowest evaluated price**.

Note: Bidders are hereby notified that due diligence shall be carried out on information provided by the bidder. Any false information provided will lead to automatic disqualification irrespective at any stage of the procurement process or contract execution

SECTION VIII - STANDARD FORMS

Notes on the sample Forms

1. *Form of Tender*: The form of tender must be completed by the tenderer and submitted with the tender documents. It must also be duly signed by duly authorized representatives of the tenderer.
2. *Confidential Business Questionnaire Form*: This form must be completed by the tenderer and submitted with the tender documents.
3. *Tender Securing Declaration Form*: Is MANDATORY for this particular tender where tenderers have not been asked to provide tender security.
4. *Contract Form*: The Contract Form shall not be completed by the tenderer at the time of submitting the tender. The Contract Form shall be completed after contract award and should incorporate the accepted contract price.
5. *Manufacturers Authorization Form*: When required this form must be completed and submitted with the tender documents. This form will be completed by the manufacturer of the goods where the tenderer is an agent.

6.0 Special Conditions of Contract as relates to the General Conditions of Contract

Reference of general conditions of contract	Special condition of contract
3.6 Performance security from the underwriter.	
3.7 Delivery of Services	
3.8 Payment	
3.16 Applicable law	Shall be the laws of Kenya
3.18 Notices	The Clerk, Migori County Assembly P.O. Box 985-40400 MIGORI

7. Delivery Period

The contract period is one year from commencement date. However, renewal for one-year subject to appraised performance of the service provider

The procuring entity however reserves the right to terminate the contract at any stage on the basis of provider's poor performance and failure to rectify the said poor performance in the timelines set out in the contract.

SECTION VII - STANDARD FORMS

Notes on the standard Forms

1. Form of TENDER - The form of Tender must be completed by the tenderer and submitted with the tender documents. tenderer. It must also be duly signed by duly authorized representatives of the
2. Price Schedule Form - The price schedule form must similarly be completed and submitted with the tender.
3. Contract Form - The contract form shall not be completed by the tenderer at the time of submitting the tender. The contract form shall be completed after contract award and should incorporate the accepted contract price.
4. Confidential Business Questionnaire Form - This form must be completed by the tenderer and submitted with the tender documents.
5. Tender Security Form - When required by the tender document the tenderer shall provide the tender security either in the form included hereinafter or in another format acceptable to the MCA.
6. Authorization Form – The firm’s authorization form shall be completed and signed by the recommended Hotel/Caterer if not self and submitted with the tender
7. Declaration Form – Must be completed by the tenderer and submitted with the tender documents
8. Performance security Form - The performance security form should not be completed by the tenderer at the time of tender preparation. Only the successful tenderer will be required to provide performance security in the form provided herein or in another form acceptable to the MCA.

Form of Tender

To:

Date: _____

The Clerk,

Migori County Assembly,
P.O. Box 985-40400

MIGORI.

Gentlemen and/or Ladies:-

1. Having examined the Tender documents including Addenda No. (Insert numbers) the receipt of which is hereby duly acknowledged, we the undersigned, offer to provide Insurance Services under this tender in conformity with the said Tender document for the sum of [Total Tender amount in words and figures Inclusive of VAT] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

2. We undertake, if our Tender is accepted, to construct committee rooms with the conditions of the tender.

3. We agree to abide by this Tender for a period of 150 [number] days from the date fixed for Tender opening of the Instructions to Tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

4. This Tender, together with your written acceptance thereof and your notification of award, shall constitute a Contract between us subject to the signing of the contract by both parties.

5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 2023

[Signature]

[In the capacity of]

Duly authorized to sign tender for and on behalf of _____

Signature of tenderer _____

Official Rubber Stamp _____

.

Contract Form

THIS AGREEMENT made
the _____ day of _____ 20 _____ between ----- [name of
Procurement entity] of ----- [country of Procurement entity] (hereinafter called “the MCA”) of the
one part and ----- [name of tenderer] of ----- [city and country of tenderer]
(hereinafter called “the tenderer”) of the other part:

WHEREAS the MCA invited tenders for Construction of Committee rooms and offices Phase
one and has accepted a tender by the tenderer for the works in the sum of _____
_____ [contract price in

words in figures] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSTH AS FOLLOWS:-

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) the Tender Form and the Price Schedule submitted by the tenderer;
 - (b) the Schedule of Requirements
 - (c) the Details of cover
 - (d) the General Conditions of Contract
 - (e) the Special Conditions of Contract; and
 - (f) the MCA’s Notification of Award
3. In consideration of the payments to be made by the MCA to the tenderer as hereinafter mentioned, the tenderer hereby covenants with the MCA to provide the Security Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The MCA hereby covenants to pay the tenderer in consideration of the provision of the services 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 their respective laws the day and year first above written

Signed, sealed, delivered by _____ the _____ (for the MCA)

Signed, sealed, delivered by _____ the _____ (for the tenderer) in the presence of

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particular indicated in Part 1 and either Part 2(a), 2(b), or 2(c) Which ever applies to your type of business?

You are advised that it is a serious offence to give false information on this Form.

Part 1 General:

Business Name Location of business premises
Plot No. & Name of Premise
Street/Road
Postal Address Tel. No. Fax
Email

Nature of business

Registration Certificate No.

Maximum value of business which you can handle at any one time Kshs.

Name of your bankers.....Branch

Part 2(a) – Sole Proprietor:

Your name in fullAge

Nationality Country of origin

Citizenship details.....

Party 2(b) – Partnership

Give details of partners as follows

	Name	Nationality	Citizenship	Details	Shares
1.....					
2.....					
3.....					
4.....					
5.....					

Part 2(c) – Registered Company:

Private or public

State the nominal and issued capital of the company –

Nominal Kshs.

Issued Kshs.....

Give details of all directors as follows

Name Nationality Citizenship Details Shares

1.....
.....

2.....

3.....

4.....

5.....

Date..... Signature of Tenderer

If a citizen, indicate under “Citizenship Details” whether by Birth, Naturalization or Registration

Part 2 (d) – Interest in the Firm:

Is there any person/persons in Migori County Assembly in general who has interest in this firm? Yes/No (Delete as necessary).

I certify that the above information is correct.

.....

(Title)

(Signature)

(Date)

*Attach proof of citizenship

TENDER SECURITY FORM

Whereas [] (hereinafter called < > has submitted its bid dated [] for the CONSTRUCTION OF COMMITTEE ROOMS AND OFFICES PHASE ONE (hereinafter called < ?

KNOW ALL PEOPLE by these presents that WE [] of [], having our registered office at [name of building/premises] (hereinafter called < > in the sum of [] for which payment well and truly to be made to the said MCA, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20 _____

THE CONDITIONS of this obligation are:-

1. If the tenderer withdraws its tender during the period of tender validity specified by the MCA on the Form; or
2. If the tender, having been notified of the acceptance of its tender by the MCA during the period of tender validity

Fails or refuses to execute the Contract Form, if required; or fails or refuses to furnish the performance security, in accordance with the Instructions to tenders.

We undertake to pay to the MCA up to the above amount upon receipt of its first written demand, without the MCA having to substantiate its demand, provided that in its demand the MCA will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the conditions, specifying the occurred condition(s)

This tender guarantee will remain in force up to and including thirty (30) days after the period of tender validity, and any demand in respect thereof should reach the Bank not later than the above stated date.

[Authorized Signatories and official stamp of the Bank]

PERFORMANCE SECURITY FORM

To:

[Name of MCA]

WHEREAS *[name of tenderer]*

(Hereinafter called "the tenderer") has undertaken, in pursuance of Contract No. _____
[reference number of the contract] dated _____ 20 _____ to

supply

[Description of insurance services] (Hereinafter called "the Contract")

AND WHEREAS it has been stipulated by you in the said Contract that the tenderer shall furnish you with a bank guarantee by a reputable bank for a sum specified therein as security for compliance with the Tenderer's performance obligations in accordance with the Contract

AND WHEREAS we have agreed to give the tenderer a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the tenderer, up to a total of

[amount of the guarantee in words and figures], and we undertake to pay you, upon your first written demand declaring the tenderer to be in default under the Contract and without cavil or argument, any sum of money within the limits of
[Amount of guarantee] as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ 20 ____

Signature and seal of the Guarantors

[Name of bank or financial institution]

[Address]

[Date]

LETTER OF NOTIFICATION OF AWARD

Address of MCA

To: _____

RE: Tender No. _____

Tender Name _____

This is to notify that the contract/s stated below under the above mentioned tender have been awarded to you.

1. Please acknowledge receipt of this letter of notification signifying your acceptance.
2. The contract/contracts shall be signed by the parties within 30 days of the date of this letter but not earlier than 14 days from the date of the letter.
3. You may contact the officer(s) whose particulars appear below on the subject matter of this letter of notification of award.

(FULL PARTICULARS) _____

SIGNED FOR ACCOUNTING OFFICER

FORMAT OF CURRICULUM VITAE (CV) FOR PROFESSIONAL STAFF

Proposed Position: _____

Name of Firm: _____

Name of Staff: _____

Profession: _____

Date of Birth: _____

Years with Firm: _____ Nationality: _____

Membership in Professional Societies: _____

Detailed Tasks, which will be assigned;

i).....

.....

ii).....

Relevant Tasks previously assigned (Please provide dates & locations)

i).....

.....

ii).....

.....

iii).....

.....

Key Qualifications:

[Give an outline of staff member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations].

Education:

[Summarize college/university and other specialized education of staff member, giving names of schools, dates attended and degree[s] obtained.]

Employment Record:

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of assignments.]

Certification:

I, the undersigned, certify that these data correctly describe me, my qualifications, and my experience.

_____ Date: _____

[Signature of staff member]

_____ Date: _____

[Signature of authorized representative of the firm]

Full name of staff member: _____

Full name of authorized representative: _____

FORMAT FOR PRESENTATION OF RELEVANT EXPERIENCE

Relevant five assignments carried out in the Last Three Years

That best illustrates your experience (At least 3 Corporate Clients).

Using the format below, provide information on five of each reference assignment for which your firm either individually as a corporate entity or in association, was legally contracted.

Assignment Name:	Country		
Location within Country:	Professional Staff provided by Your Firm/Entity(profiles):		
Name of Client:			
Address:	Duration of Policy with Client		
Start Date (Month/Year):	Completion Date (Month/Year):	Date:	Total quote (in Kshs)
Name of Senior Staff (Project Director/Coordinator,	Team Leader) Involved and		Functions Performed:
Narrative Description of Service:			

Full Description of Actual Services Provided by Your Staff:

Firm's Name: _____

Name and title of signatory; _____

DECLARATION FORM

STATEMENT OF VERIFICATION THAT THE TENDERER IS NOT DEBARRED IN THE
MATTER OF THE PUBLIC PROCUREMENT AND DISPOSAL ACT 2005.

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

1. THAT I am the Chief Executive/Managing Director/Principal Officer/Director of

.....
(Name of the Company) who is a Bidder in respect of Tender No. To supply goods,
render services and/or carry out works for Migori County Assembly and duly authorized and competent to
make this statement.

2. THAT the aforesaid Bidder has not been debarred from participating in procurement proceeding under
Part IX.

3. THAT the aforesaid Bidder will not engage in any corrupt practice and has not been requested to
pay any inducement to any member of the Commissioners, Management, Staff and/or employees
and/or agents of Migori County Assembly, which is the procuring entity.

4. THAT the aforesaid Bidder, its servants and/or agents have not offered any inducement to any
member of the Commissioners, Management, Staff and/or employees and/or agents of Migori
County Assembly

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

.....

(Title)

(Signature)

(Date)

