

REPUBLIC OF KENYA



MANDERA COUNTY GOVERNMENT

**PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY
REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY
IN**

MANDERA COUNTY

TENDER DOCUMENTS

TENDER NO: MCG/OT/106/2020-2021

IFMIS NEGOTIATION NUMBER: 877917

MAY, 2021

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INTRODUCTION

- 1.1 This standard tender document for procurement of works has been prepared for use by procuring entities in Kenya in the procurement of works (e.g. Buildings, Roads, Bridges, Repairs and Maintenance) which the procuring entity considers to be small and where it is not required to be open tendering.
- 1.2 The following guidelines should be observed when using the document:-
 - (a) Specific details should be furnished in the tender notice and in the special conditions of contract (where applicable). The tender document issued to tenderers should not have blank spaces or 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 Appendix to instructions to tenderers and special conditions of contract respectively.
- 1.3 (a) Information contained in the invitation to tender shall conform to the data and information in the tender documents to enable prospective tenderers to decide whether or not to participate in the tender and shall indicate any important tender requirements
 - I. The invitation to tender shall be as an advertisement in accordance with the regulations or a letter of invitation addressed to tenderers who have been prequalified following a request for prequalification.
- 1.4 The cover of the tender document should be modified to include:-
 - II. Tender number.
 - III. Tender name.
 - IV. Name of procuring entity.
 - V. Delete name and address of PPOA.

SECTION I

INVITATION FOR TENDERS

Tender reference no. : **MCG/OT/106/2020-2021**

**Tender Name: PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY
REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY**

The Mandera County Government invites sealed PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY candidates may obtain further information from the office of the director supply chain management services at the county treasury during normal working hours and via email on supplychain@mandera.go.ke.

1.2 Invitation to tender containing detailed information, tenders number and negotiation numbers and the tender documents can be downloaded free of charge at the county's website

www.mandera.go.ke. which can also be accessed from supplier's portal

1.3 Completed set of tender documents shall be scanned and submitted electronically through IFMIS SUPPLIER PORTAL at supplier.treasury.go.ke using the specific IFMIS negotiation number provided in the tender documents as per the requirements contained in the tender documents so as to be received on or before **Thursday 10th June 2021 at 10:00 am**

1.4 Bidders must upload a copy of original bid security to the ifmis portal and deliver ORIGINAL bid security to the office of the director supply chain management.

NOTE: The system will automatically close at the time and date of tender closing specified on the IFMIS portal and tender documents. The system does not have provisions for late submission.

MANUAL SUBMISSIONS WILL NOT BE ACCEPTED, all tenders must be submitted through IFMIS PORTAL

All bidders are advised to regularly check the county's website during the bidding period,

**Director of Supply Chain Management services
FOR: COUNTY CHIEF OFFICER MEDICAL SERVICES**

SECTION II

INSTRUCTIONS TO TENDERERS

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CLAUSE

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INSTRUCTIONS TO TENDERERS.

1. General
 - 1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful Tenderer will be expected to complete the Works by the Intended Completion Date specified in the said Appendix.
 - 1.2 Tenderers shall include the following information and documents with their tenders, unless otherwise stated:
 - (a) copies of certificates of registration, and principal place of business;
 - (b) total monetary value of construction work performed for each of the last five years;
 - (c) experience in works of a similar nature and size for each of the last five years, and clients who may be contacted for further information on these contracts;
 - (d) major items of construction equipment owned;
 - (e) qualifications and experience of key site management and technical personnel proposed for the Contract;
 - (f) reports on the financial standing of the Tenderer, such as profit and loss statements and auditor's reports for the last five years;
 - (g) authority to seek references from the Tenderer's bankers.
 - 1.3 The Tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.
 - 1.4 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.
 - 1.5 The procurement entity's employees, committee members, board members and their relative (spouse and children) are not eligible to participate in the tender.
 - 1.6 The price to be charged for the tender document shall not exceed Kshs.1,000/=
 - 1.7 The procuring entity shall allow the tenderer to review the tender document free of charge before purchase.
2. Tender Documents

2.1 The complete set of tender documents comprises the documents listed here below and any addenda issued in accordance with clause 2.4 Here below:-

- (a) These instructions to Tenderers
- (b) Form of Tender
- (c) Conditions of Contract and Appendix to Conditions of Contract
- (d) Specifications
- (e) Drawings
- (f) Bills of Quantities/Schedule of Rates (whichever is applicable)
- (g) Other materials required to be filled and submitted in accordance with these Instructions and Conditions

2.2 The Tenderer shall examine all instructions, forms and specifications in the tender documents. Failure to furnish all information required by the tender documents may result in rejection of his tender.

2.3 A prospective Tenderer making inquiries of the tendering documents may notify the Employer in writing or by cable, telex or facsimile at the address indicated in the letter of invitation to tender. The Employer will respond to any request for clarification received earlier than seven [7] days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.

2.4 Before the deadline for submission of tenders, the Employer may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all Tenderers. Prospective Tenderers shall acknowledge receipt of each addendum in writing to the Employer.

2.5 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders in accordance with clause 4.2 here below.

3. Preparation of Tenders

3.1 All documents relating to the tender and any correspondence shall be in English Language.

3.2 The tender submitted by the Tenderer shall comprise the following:-

- (a) The Tender;

- (b) Tender Security;
- (c) Priced Bill of Quantities/Schedule of Rates for lump-sum Contracts
- (d) Any other materials required to be completed and submitted by Tenderers.

- 3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities/Schedule of Rates. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities/Schedule of Rates. All duties, taxes and other levies payable by the Contractor under the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the Tenderer.
- 3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.
- 3.5 The unit rates and prices shall be in Kenya Shillings.
- 3.6 Tenders shall remain valid for a period of sixty (60) days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.
- 3.7 The Tenderer shall prepare one original and a copy of the documents comprising the tender documents as described in these Instructions to Tenderers.
- 3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.
- 3.9 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.
- 3.10 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.

4. Submission of Tenders

- 4.1 The tender duly filled and sealed in an envelope shall;-

- (a) be addressed to the Employer at the address provided in the invitation to tender;
- [b] bear the name and identification number of the Contract as defined in the invitation to tender; and
- [c] provide a warning not to open before the specified time and date for tender opening.

4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to tender.

4.3 The tenderer shall not submit any alternative offers unless they are specifically required in the tender documents.

Only one tender may be submitted by each tenderer. Any tenderer who fails to comply with this requirement will be disqualified.

4.4 Any tender received after the deadline for opening tenders will be returned to the tenderer un-opened.

4.5 The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with sub-clause 2.5 in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

5. Tender Opening and Evaluation

5.1 The tenders will be opened in the presence of the Tenderers' representatives who choose to attend at the time and in the place specified in the invitation to tender.

5.2 The Tenderers' names, the total amount of each tender and such other details as may be considered appropriate, will be announced at the opening by the Employer. Minutes of the tender opening, including the information disclosed to those present will also be prepared by the Employer.

5.3 Information relating to the examination, clarification, evaluation and comparison of tenders and recommendations for the award of the Contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's officials, processing of tenders or award

decisions may result in the rejection of his tender.

5.4 Tenders determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:

- (a) where there is a discrepancy between the amount in figures and the amount in words, the amount in words will prevail; and
- (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will prevail, unless in the opinion of the Employer's representative, there is an obvious typographical error, in which case the adjustment will be made to the entry containing that error.
- (c) In the event of a discrepancy between the tender amount as stated in the Form of Tender and the corrected tender figure in the main summary of the Bill of Quantities/Quotation, the amount as stated in the Form of Tender shall prevail.
- (d) The Error Correction Factor shall be computed by expressing the difference between the tender amount and the corrected tender sum as a percentage of the Corrected Builder's Work (i.e. corrected tender sum less P.C. and Provisional Sums).
- (e) The Error Correction Factor shall be applied to all Builder's Work (as a rebate or addition as the case may be) for the purposes of valuations for Interim Certificates and valuation of variations.
- (f) The amount stated in the tender will be adjusted in accordance with the above procedure for the correction of errors and with concurrence of the Tenderer, shall be considered as binding upon the Tenderer. If the Tenderer does not accept the corrected amount, the tender may be rejected and the Tender Security forfeited.

5.5 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.

5.6 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)

5.7 Where contract price variation is allowed, the valuation shall not exceed 15% of the original contract price.

5.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request. Preference where allowed in

the evaluation of tenders shall not exceed 15%

- 5.9 To assist in the examination, evaluation, and comparison of tenders, the Employer at his discretion, may request [in writing] any Tenderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex or facsimile but no change in the tender price or substance of the tender shall be sought, offered or permitted.
- 5.10 The Tenderer shall not influence the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or his employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.

6. Award of Contract

- 6.1 The award of the Contract will be made to the Tenderer who has offered the lowest evaluated tender price.
- 6.2 Notwithstanding the provisions of clause 6.1 above, the Employer reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract 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 action.
- 6.3 The Tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the "Letter of Acceptance") will state the sum [hereinafter and in all Contract documents called the "Contract Price" which the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract. The contract shall be formed on the parties signing the contract. At the same time the other tenderers shall be informed that their tenders have not been successful.
- 6.4 The Contract Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be signed by the Employer and sent to the successful Tenderer, within 30 days following the notification of award. Within 21 days of receipt ,the successful Tenderer will sign the Agreement and return it to the Employer.
- 6.5 Within 21 days after receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Performance Security amount

stipulated in the Appendix to Conditions of Contract.

- 6.6 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.
- 6.7 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 6.8 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.

7. Corrupt and fraudulent practices

- 7.1 The procuring entity requires that the tenderer observes the highest standard of ethics during the procurement process and execution of the contract. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.
- 7.2 The procuring entity will reject a tender if it determines that the tenderer recommended for award has engaged in corrupt and fraudulent practices in competing for the contract in question.
- 7.3 Further a tenderer who is found to have indulged in corrupt and 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 the corresponding clause in the instructions to Tenderers 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 goods to be procured 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 Instruction to tenderers to be incorporated
 - (b) Amendments and/or supplements if any, to provisions of Section 2.0 as necessitated by the circumstances of the goods to be procured to be also incorporated
4. Section II should remain unchanged and can only be amended through the Appendix.
5. Clauses to be included in this part must be consistent with the public procurement law and the regulations.

Appendix to Instructions to Tenderers/General information

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision 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

| INSTRUCTIONS TO TENDERERS REFERENCE | PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS |
|-------------------------------------|--|
| | <i>The bidders shall submit their bid through ifmis supplier portal by the negotiations numbers attached to the tender document on or before Thursday 10th June 2021 at 10.00 Am</i> |
| | <i>The bidder shall submit a minimum Bid Security (2% of tender sum from a reputable bank or insurance firm)</i> |
| | <i>Bidders who do not submit their bids through ifmis portal will be not be considered for evaluation of the bids.</i> |

EVALUATION AND COMPARISON OF TENDERS

Evaluation and comparison of Tenders: the following evaluation criteria shall be applied not withstanding any other requirement in the tender documents.

a) Mandatory requirements(MR)

The following requirements must be met by the tenderer failure to which the bid will be eliminated from further evaluation.

PRELIMINARY EVALUATION CRITERIA

| S/N o | REQUIREMENTS | Score Mandatory | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 |
|----------|---|---------------------------|----|----|----|----|----|----|----|----|
| 1 | Dully filled and stamped confidential business questionnaire | Mandatory (Yes/No) | | | | | | | | |
| 2 | Form of tender duly filled, signed and stamped | Mandatory (Yes/No) | | | | | | | | |
| 3 | The form of power of attorney shall be duly filled, signed and stamped | Mandatory (Yes/No) | | | | | | | | |
| 4 | Bid Security (2% of tender sum from a reputable bank or insurance firm) | Mandatory (Yes/No) | | | | | | | | |
| 5 | Must submit a self-declaration that the person/ tenderer will not engage in any corrupt or fraudulent practice. | Mandatory (Yes/No) | | | | | | | | |
| 6 | Must submit a self-declaration that the person/ tenderer/firm is not debarred | Mandatory (Yes/No) | | | | | | | | |

| | | | | | | | | | | |
|----|---|---------------------------|--|--|--|--|--|--|--|--|
| | in the matter of the Public Procurement and asset Disposal Act 2015. | | | | | | | | | |
| 7 | Valid current year business permits certified by commissioner of oaths/advocates | Mandatory (Yes/No) | | | | | | | | |
| 8 | Valid current year tax compliance certificate certified by commissioner of oaths /advocates. | Mandatory (Yes/No) | | | | | | | | |
| 9 | Certificate of incorporation certified by commissioner of oaths/advocates. | Mandatory (Yes/No) | | | | | | | | |
| 10 | PIN/VAT certificate from KRA certified by commissioner of oaths/advocates | Mandatory (Yes/No) | | | | | | | | |
| 11 | Certificate of Registration and current valid practicing license with National construction authority for building works NCA 5 and Above certified by commissioner of oaths/advocates | Mandatory (Yes/No) | | | | | | | | |
| 12 | CR 12 form certified by commissioner of oaths/advocates | Mandatory (Yes/No) | | | | | | | | |
| 13 | Submitted original bid security in hard copy | Mandatory (Yes/No) | | | | | | | | |

KEY

Bidder 1: B1
 Bidder 2: B2
 Bidder 3: B3
 Bidder 4: B4
 Bidder 5: B5
 Bidder 6: B6
 Bidder 7: B7
 Bidder 8: B8

NB: At this stage, the tender's submission will either be responsive or non-responsive. The non-responsive submission will be eliminated from the entire evaluation process and will not be considered further.

TECHNICAL EVALUATION CRITERIA SUMMARY

| No. | REQUIREMENTS | | | | | | | | | |
|---|--|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| A. Personnel (Must attach CV and copy of certificates) | | Score card 70) | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 |
| 1. | One Site Agent / Contract manager (Registered Civil Engineer/QS) <ul style="list-style-type: none"> ➤ Degree and registered with the relevant professional body supported by CV showing current position-3 marks ➤ Degree only supported with CV showing current position-2 marks ➤ Degree only-1 mark | 3 Marks | | | | | | | | |
| 2. | Environment officer at least bachelor degree in environmental science or equivalent (registered with NEMA) <ul style="list-style-type: none"> ➤ Degree and registration with nema supported by CV showing current position -3 marks ➤ Degree only supported with CV showing current position-2 marks ➤ Degree only-1 mark | 3 Marks | | | | | | | | |
| 3. | 2No inspector of building works (must be holders of at least diploma/HND in civil engineering or equivalent) <ul style="list-style-type: none"> ➤ Diploma supported by CV showing current position-2 marks for each inspector ➤ Diploma not supported by CV current position-1 mark each | 4 Marks | | | | | | | | |
| 4. | Bidders attach valid proof of at least three similar projects (building works project) of similar magnitude undertaken in the last five years. <ul style="list-style-type: none"> ➤ Similar project of similar magnitude undertaken in the | 12 Marks | | | | | | | | |

| | | | | | | | | | | |
|----|--|----------|--|--|--|--|--|--|--|--|
| | <p>last 5 years-4 marks each</p> <ul style="list-style-type: none"> ➤ Similar project half the magnitude of the project undertaken in the last 5 years - 2 marks each ➤ Less than half the magnitude of the project undertaken in the last 5 years -0 mark | | | | | | | | | |
| 5. | <p>Bidders shall attach audited financial reports for the last two years (2019,2018) signed and stamped where applicable and certified by registered Certified public account</p> <ul style="list-style-type: none"> ➤ Audited financial reports, signed, stamped and certified as required- 5 marks each ➤ Audited financial report signed and stamped but not certified(incomplete)-2 marks each ➤ Audited financial reports not signed, stamped and certified-0 mark | 10 Marks | | | | | | | | |
| 6. | <p>Completed tender document with bill of quantities duly filled, signed and stamped where applicable.</p> <ul style="list-style-type: none"> ➤ Completed tender document as required-20 marks ➤ Tender document with bill of quantities but not duly filled, signed and stamped as required-15marks ➤ Duly filled signed and stamped Bill of quantities only without the tender document-10 marks ➤ Tender document without BQ only-5 | 20 Marks | | | | | | | | |
| 7 | <p>Attach proof of ownership/lease of equipment Attach log books for</p> <ul style="list-style-type: none"> ➤ 2no pick up,2 marks ➤ 2no water boozier,2marks ➤ 2no concrete mixer-2 marks | 12 Marks | | | | | | | | |

| | | | | | | | | | | |
|----------|---|-----------------|--|--|--|--|--|--|--|--|
| | <ul style="list-style-type: none"> ➤ 1no vibrator-1mark ➤ 1 no wheel loader, 1 mark ➤ 3no tipper- 3marks | | | | | | | | | |
| 8 | Attach bank statement for the last 6 months <ul style="list-style-type: none"> ➤ Each month-1 mark | 6 Marks | | | | | | | | |
| | Total | 70 Marks | | | | | | | | |

a) Technical evaluations scores

This section (technical evaluation) will be marked out of 70 and will determine the technical scorers (TS). Note: at this stage any firm that failed to score above 0r 49/70 shall NOT be evaluated financially.

SECTION III – CONDITIONS OF CONTRACT

1. Definitions

- 1.1 In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated;

“Bills of Quantities” means the priced and completed Bill of Quantities forming part of the tender[where applicable].

“Schedule of Rates” means the priced Schedule of Rates forming part of the tender [where applicable].

“The Completion Date” means the date of completion of the Works as certified by the Employer’s Representative.

“The Contract” means the agreement entered into by the Employer and the Contractor as recorded in the Agreement Form and signed by the parties.

“The Contractor” refers to the person or corporate body whose tender to carry out the Works has been accepted by the Employer.

“The Contractor’s Tender” is the completed tendering document submitted by the Contractor to the Employer.

“The Contract Price” is the price stated in the Letter of Acceptance.

“Days” are calendar days; “Months” are calendar months.

“A Defect” is any part of the Works not completed in accordance with the Contract.

“The Defects Liability Certificate” is the certificate issued by Employer’s Representative upon correction of defects by the Contractor.

“The Defects Liability Period” is the period named in the Appendix to Conditions of Contract and calculated from the Completion Date.

“Drawings” include calculations and other information provided or approved by the Employer’s Representative for the execution of the Contract.

“Employer” Includes Central or Local Government administration,

Universities, Public Institutions and Corporations and is the party who employs the Contractor to carry out the Works.

“Equipment” is the Contractor’s machinery and vehicles brought temporarily to the Site for the execution of the Works.

“Site” means the place or places where the permanent Works are to be carried out including workshops where the same is being prepared.

“Materials” are all supplies, including consumables, used by the Contractor for incorporation in the Works.

“Employer’s Representative” is the person appointed by the Employer and notified to the Contractor for the purpose of supervision of the Works.

“Specification” means the Specification of the Works included in the Contract.

“Start Date” is the date when the Contractor shall commence execution of the Works.

“ A Subcontractor” is a person or corporate body who has a Contract with the Contractor to carry out a part of the Work in the Contract, which includes Work on the Site.

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

“ A Variation” is an instruction given by the Employer’s Representative which varies the Works.

“The Works” are what the Contract requires the Contractor to construct, install, and turnover to the Employer.

2. Contract Documents

2.1 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;

- (1) Agreement,
- (2) Letter of Acceptance,
- (3) Contractor’s Tender,
- (4) Conditions of Contract,
- (5) Specifications,
- (6) Drawings,
- (7) Bills of Quantities or Schedule of Rates [whichever is applicable]

3. Employer's Representative's Decisions

- 3.1 Except where otherwise specifically stated, the Employer's Representative will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

4. Works, Language and Law of Contract

- 4.1 The Contractor shall construct and install the Works in accordance with the Contract documents. The Works may commence on the Start Date and shall be carried out in accordance with the Program submitted by the Contractor, as updated with the approval of the Employer's Representative, and complete them by the Intended Completion Date.
- 4.2 The ruling language of the Contract shall be English language and the law governing the Contract shall be the law of the Republic of Kenya.

5. Safety, Temporary works and Discoveries

- 5.1 The Contractor shall be responsible for design of temporary works and shall obtain approval of third parties to the design of the temporary works where required.
- 5.2 The Contractor shall be responsible for the safety of all activities on the Site.
- 5.3 Any thing of historical or other interest or significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Employer's Representative of such discoveries and carry out the Employer's Representative's instructions for dealing with them.

6 Work Program and Sub-contracting

- 6.1 Within seven days after Site possession date, the Contractor shall submit to the Employer's Representative for approval a program showing the general methods, arrangements, order and timing for all the activities in the Works.
- 6.2 The Contractor may sub-contract the Works (but only to a maximum of 25 percent of the Contract Price) with the approval of the Employer's Representative. However, he shall not assign the Contract without the approval of the Employer in writing. Sub-contracting shall not alter the Contractor's obligations.

7 The site

- 7.1 The Employer shall give possession of all parts of the Site to the Contractor. The Contractor shall allow the Employer's Representative and any other person authorised by the Employer's Representative, access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

8 Instructions

- 8.1 The Contractor shall carry out all instructions of the Employer's Representative which are in accordance with the Contract.

9 Extension of Completion Date

- 9.1 The Employer's Representative shall extend the Completion Date if an occurrence arises which makes it impossible for completion to be achieved by the Intended Completion Date. The Employer's Representative shall decide whether and by how much to extend the Completion Date.
- 9.2 For the purposes of this clause, the following occurrences shall be valid for consideration;

Delay by:-

- (a) force majeure, or
- (b) reason of any exceptionally adverse weather conditions, or
- (c) reason of civil commotion, strike or lockout affecting any of the trades employed upon the Works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the Works, or
- (d) reason of the Employer's Representative's instructions issued under these Conditions, or
- (e) reason of the contractor not having received in due time necessary instructions, drawings, details or levels from the Employer's Representative for which he specifically applied in writing on a date which having regard to the date for Completion stated in the appendix to these Conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same, or
- (f) delay on the part of artists, tradesmen or others engaged by the Employer in executing work not forming part of this Contract, or

- (g) reason of delay by statutory or other services providers or similar bodies engaged directly by the Employer, or
- (h) reason of opening up for inspection of any Work covered up or of the testing or any of the Work, materials or goods in accordance with these conditions unless the inspection or test showed that the Work, materials or goods were not in accordance with this Contract, or
- (i) reason of delay in appointing a replacement Employer's Representative, or
- (j) reason of delay caused by the late supply of goods or materials or in executing Work for which the Employer or his agents are contractually obliged to supply or to execute as the case may be, or
- (k) delay in receiving possession of or access to the Site.

10 Management Meetings

- 10.1 A Contract management meeting shall be held regularly and attended by the Employer's Representative and the Contractor. Its business shall be to review the plans for the remaining Work. The Employer's Representative shall record the business of management meetings and provide copies of the record to those attending the meeting and the Employer. The responsibility of the parties for actions to be taken shall be decided by the Employer's Representative either at the management meeting or after the management meeting and stated in writing to all who attend the meeting.
- 10.2 Communication between parties shall be effective only when in writing.

11 Defects

- 11.1 The Employer's Representative shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Employer's Representative may instruct the Contractor to search for a defect and to uncover and test any Work that the Employer's Representative considers may have a defect. Should the defect be found, the cost of uncovering and making good shall be borne by the Contractor. However if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.
- 11.2 The Employer's Representative shall give notice to the Contractor of

any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Conditions of Contract.

- 11.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Employer's Representative's notice. If the Contractor has not corrected a defect within the time specified in the Employer's Representative's notice, the Employer's Representative will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

12 Bills of Quantities/Schedule of Rates

- 12.1 The Bills of Quantities/Schedule of Rates shall contain items for the construction, installation, testing and commissioning of the Work to be done by the Contractor. The Contractor will be paid for the quantity of the Work done at the rates in the Bills of Quantities/Schedule of Rates for each item. Items against which no rate is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the rates for other items in the Bills of Quantities/Schedule of Rates.
- 12.2 Where Bills of Quantities do not form part of the Contract, the Contract Price shall be a lump sum (which shall be deemed to have been based on the rates in the Schedule of Rates forming part of the tender) and shall be subject to re-measurement after each stage.

13 Variations

- 13.1 The Contractor shall provide the Employer's Representative with a quotation for carrying out the variations when requested to do so. The Employer's Representative shall assess the quotation and shall obtain the necessary authority from the Employer before the variation is ordered.
- 13.2 If the Work in the variation corresponds with an item description in the Bill of Quantities/Schedule of Rates, the rate in the Bill of Quantities/Schedule of Rates shall be used to calculate the value of the variation. If the nature of the Work in the variation does not correspond with items in the Bill of Quantities/Schedule of Rates, the quotation by the Contractor shall be in the form of new rates for the relevant items of Work.
- 13.3 If the Contractor's quotation is unreasonable, the Employer's Representative may order the variation and make a change to the Contract Price, which shall be based on the Employer's Representative's own forecast of the effects of the variation on the

Contractor's costs.

14 Payment Certificates and Final Account

14.1 The Contractor shall be paid after each of the following stages of Work listed herebelow (subject to re-measurement by the Employer's Representative of the Work done in each stage before payment is made). In case of lump-sum Contracts, the valuation for each stage shall be based on the quantities so obtained in the re-measurement and the rates in the Schedule of Rates.

- (i) Advance payment_
(percent of Contract Price,
[after Contract execution] *to be inserted by the Employer*).
- (ii) First stage (*define stage*) _
- (iii) Second stage (*define stage*) _
- (iv) Third stage (*define stage*) _
- (v) After defects liability period .

14.2 Upon deciding that Works included in a particular stage are complete, the Contractor shall submit to the Employer's Representative his application for payment. The Employer's Representative shall check, adjust if necessary and certify the amount to be paid to the Contractor within 21 days of receipt of the Contractor's application .The Employer shall pay the Contractor the amounts so certified within 30 days of the date of issue of each Interim Certificate.

14.3 The Contractor shall supply the Employer's Representative with a detailed final account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer's Representative shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 30 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer's Representative shall issue within 21 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted, the Employer's Representative shall decide on the amount payable to the Contractor and issue a Final Payment Certificate. The Employer shall pay the Contractor the amount so certified within 60 days of the issue of the Final Payment Certificate.

- 14.4 If the period laid down for payment to the Contractor upon each of the Employer's Representative's Certificate by the Employer has been exceeded, the Contractor shall be entitled to claim simple interest calculated pro-rata on the basis of the number of days delayed at the Central Bank of Kenya's average base lending rate prevailing on the first day the payment becomes overdue. The Contractor will be required to notify the Employer within 15 days of receipt of delayed payments of his intentions to claim interest.

15. Insurance

- 15.1 The Contractor shall be responsible for and shall take out appropriate cover against, among other risks, personal injury; loss of or damage to the Works, materials and plant; and loss of or damage to property.

16. Liquidated Damages

- 16.1 The Contractor shall pay liquidated damages to the Employer at the rate 0.001 per cent of the Contract price per day for each day that the actual Completion Date is later than the Intended Completion Date except in the case of any of the occurrences listed under clause 9.2. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

17. Completion and Taking Over

- 17.1 Upon deciding that the Work is complete the Contractor shall request the Employer's Representative to issue a Certificate of Completion of the Works, upon deciding that the Work is completed.

The Employer shall take over the Site and the Works within seven days of the Employer's Representative issuing a Certificate of Completion.

18. Termination

- 18.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. These fundamental breaches of Contract shall include, but shall not be limited to, the following;

- (a) the Contractor stops Work for 30 days continuously without reasonable cause or authority from the Employer's Representative;
- (b) the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

- (c) a payment certified by the Employer's Representative is not paid by the Employer to the Contractor within 30 days after the expiry of the payment periods stated in sub clauses 14.2 and 14.3 hereinabove.
- (d) the Employer's Representative gives notice that failure to correct a particular defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time.

18.2 If the Contract is terminated, the Contractor shall stop Work immediately, and leave the Site as soon as reasonably possible. The Employer's Representative shall immediately thereafter arrange for a meeting for the purpose of taking record of the Works executed and materials, goods, equipment and temporary buildings on Site.

19. Payment Upon Termination

19.1 The Employer may employ and pay other persons to carry out and complete the Works and to rectify any defects and may enter upon the Works and use all materials on Site, plant, equipment and temporary works.

19.2 The Contractor shall, during the execution or after the completion of the Works under this clause, remove from the Site as and when required within such reasonable time as the Employer's Representative may in writing specify, any temporary buildings, plant, machinery, appliances, goods or materials belonging to him, and in default thereof, the Employer may (without being responsible for any loss or damage) remove and sell any such property of the Contractor, holding the proceeds less all costs incurred to the credit of the Contractor.

19.3 Until after completion of the Works under this clause, the Employer shall not be bound by any other provision of this Contract to make any payment to the Contractor, but upon such completion as aforesaid and the verification within a reasonable time of the accounts therefor the Employer's Representative shall certify the amount of expenses properly incurred by the Employer and, if such amount added to the money paid to the Contractor before such determination exceeds the total amount which would have been payable on due completion in accordance with this Contract, the difference shall be a debt payable to the Employer by the Contractor; and if the said amount added to the said money be less than the said total amount, the difference shall be a debt payable by the Employer to the Contractor.

20. Corrupt Gifts and Payments of Commission

20.1 The Contractor shall not;

- (a) Offer or give or agree to give to any person in the service of the Employer any gifts or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract with the Employer or for showing or forbearing to show favour or disfavour to any person in relation to this or any other contract with the Employer.
- (b) Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the Laws of Kenya.

21. Settlement of Disputes

- 21.1 Any dispute arising out of the Contract which cannot be amicably settled between the parties shall be referred by either party to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed by the chairman of the Chartered Institute of Arbitrators, Kenya branch, on the request of the applying party.

SECTION IV – APPENDIX TO CONDITIONS OF CONTRACT

THE EMPLOYER IS

Name: **GOVERNOR - Mandera County Government**
 Address: **P.O Box 13, MANDERA**

Name of Authorized Representative: **County Executive Committee Member – HEALTH SERVICES**
 Cell phone:
 E-mail:/Fax:

Name of Alternative Representative: **Chief Officer – MEDICAL SERVICES**
 Cell phone:
 E-mail:/Fax:

The Project Manager is: **County Director – PUBLIC WORKS, Mandera County.**
 Address: **P.O. BOX 13, MANDERA**
 Cell phone:

1.1 The name (and identification number) of the Contract is: PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY

1.2 The works consist of: PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY

The Start Date shall be **AGREED WITH THE PROJECT MANAGER**

The Intended Completion Date for the whole of the Works shall be **fifty two weeks (52)** from the **commencement date as agreed with the Project Manager.**

The following documents also form part of the Contract:
AS LISTED IN CLAUSE 2.3 OF CONDITIONS OF CONTRACT

The Contractor shall submit a revised program for the Works within **fourteen days(14)** days of delivery of the Letter of Acceptance.

The Site Possession Date shall be **AGREED WITH THE PROJECT MANAGER**
 The Defects Liability period is **180** days

The minimum insurance covers shall be; “ALL RISKS INSURANCE”

The following events shall also be Compensation Events:

1. NONE (ONLY AS LISTED IN CLAUSE 24 OF THE CONDITIONS OF CONTRACT

2. _____

3. _____

4. _____

The period between Program updates is **15** days.

The amount to be withheld for late submission of an updated Program is **FULL CERTIFICATE**

The proportion of payments retained is **10%** percent.

The Price Adjustment Clause **SHALL NOT** apply

The liquidated damages for the whole of the Works is Kshs.**1,000.00** (per week)

The Performance Security shall be for the following minimum amounts equivalent as a percentage of the Contract Price **10 percent (%)**

The Completion Period for the Works is **fifty two weeks (52)**

The rate of exchange for calculation of foreign currency payments is **not applicable**

The schedule of basic rates used in pricing by the Contractor is as attached [*Contractor to attach*].

Advance Payment **SHALL NOT be** granted.

The Bidder should submit **ONLY ONE (1 NO.) ORIGINAL AND A COPY** of the Bills of Quantities as indicated in Clause 4.1 of the Instruction to Tenderers.

This Tender must be accompanied by a Bid Bond or else the tender shall be disqualified.

SECTION V– STANDARD FORM

- (i) Form of Invitation for Tenders
- (ii) Form of Tender
- (iii) Letter of Acceptance
- (iv) Form of Agreement
- (v) Form of Tender Security
- (vi) Performance Bank Guarantee
- (vii) Bank Guarantee for Advance Payment
- (viii) Qualification Information
- (ix) Tender Questionnaire
- (xi) Confidential Business Questionnaire
- (x) Statement of Foreign Currency Requirement
- (xi) Details of Sub-Contractors
- (x) Request for Review Form

FORM OF TENDER

TO: MANDERA COUNTY GOVERNMENT

_____ [Date]

1.3 REF: TENDER FOR PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. _____ [Amount in figures] Kenya Shillings _____ [Amount in words]
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender for 120 days from the date of submission, and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20_____

Signature _____ in the capacity of _____

duly authorized to sign tenders for and on behalf of
 _____ [Name of Employer]
 of _____ [Address of Employer]

Witness; Name _____

Address _____

Signature _____

Date _____

LETTER OF ACCEPTANCE**[letterhead paper of the Employer]**

_____ [date]

To: _____
[name of the Contractor]_____
[address of the Contractor]

Dear Sir,

This is to notify you that your Tender dated _____
 for the execution of _____
[name of the Contract and identification number, as given in the Tender documents] for
 the Contract Price of Kshs. _____ *[amount in figures]* [Kenya
 Shillings _____ *(amount in words)*] in accordance with the
 Instructions to Tenderers is hereby accepted.

You are hereby instructed to proceed with the execution of the said Works in
 accordance with the Contract documents.

Authorized Signature

Name and Title of Signatory

Attachment : Agreement

FORM OF AGREEMENT

THIS AGREEMENT, made the _____ day of _____ 20____ between **MANDERA COUNTY GOVERNMENT** of [or whose registered office is situated at] **P.O BOX 13, MANDERA, KENYA** (hereinafter called “the Employer”) of the one part AND _____ of [or whose registered office is situated at] _____ (hereinafter called “the Contractor”) of the other part.

WHEREAS THE Employer is desirous that the Contractor executes PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY REFERRAL HOSPITAL IN MANDERA EAST SUB COUNTY

MCG/OT/106/2020-2021

(*name and identification number of Contract*) (hereinafter called “the Works”) located at **Mandera County** [*Place/ location of the Works*] and the Employer has accepted the tender submitted by the Contractor for the execution and completion of such Works and the remedying of any defects therein for the Contract Price of

Kshs _____ [*Amount in figures*], Kenya

Shillings _____ [*Amount in words*].

NOW THIS AGREEMENT WITNESSETH 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 hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Form of Tender
 - (iii) Conditions of Contract Part I
 - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (v) Specifications
 - (vi) Drawings
 - (vii) Priced Bills of Quantities
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby

covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.

1. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

[ii] Name _____

Address _____

Signature _____

FORM OF TENDER SECURITY

WHEREAS(hereinafter called “the Tenderer”) has submitted his tender dated for the construction of
 (name of Contract)

KNOW ALL PEOPLE by these presents that WE having our registered office at(hereinafter called “the Bank”), are bound unto(hereinafter called “the Employer”) in the sum of Kshs..... for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents sealed with the Common Seal of the said Bank this Day of20.....

THE CONDITIONS of this obligation are:

1. If after tender opening the tenderer withdraws his tender during the period of tender validity specified in the instructions to tenderers
 Or
2. If the tenderer, having been notified of the acceptance of his tender by the Employer during the period of tender validity:
 - (a) fails or refuses to execute the form of Agreement in accordance with the Instructions to Tenderers, if required; or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Tenderers;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This 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 said date.

[date]

[signature of the Bank]

[witness]

[seal]

PERFORMANCE BANK GUARANTEE

To: _____(Name of Employer)_____(Date)
 _____(Address of Employer)

Dear Sir,

WHEREAS _____(hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. _____dated _____to execute _____(hereinafter called “the Works”);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognised bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Kshs. _____(amount of Guarantee in figures) Kenya Shillings _____(amount of Guarantee in words), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Kenya Shillings _____(amount of Guarantee in words) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change, addition or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any change, addition, or modification.

This guarantee shall be valid until the date of issue of the Certificate of Completion.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____[*name of Employer*] _____(*Date*)
 _____[*address of Employer*]

Gentlemen,

Ref: _____[*name of Contract*]

In accordance with the provisions of the Conditions of Contract of the above-mentioned Contract, We, _____[*name and Address of Contractor*] (hereinafter called "the Contractor") shall deposit with _____[*name of Employer*] a bank guarantee to guarantee his proper and faithful performance under the said Contract in an amount of Kshs. _____[*amount of Guarantee in figures*] Kenya Shillings _____[*amount of Guarantee in words*].

We, _____[*bank or financial institution*], as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____[*name of Employer*] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs _____[*amount of Guarantee in figures*] Kenya Shillings _____[*amount of Guarantee in words*], such amount to be reduced periodically by the amounts recovered by you from the proceeds of the Contract.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between _____[*name of Employer*] and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

No drawing may be made by you under this guarantee until we have received notice in writing from you that an advance payment of the amount listed above has been paid to the Contractor pursuant to the Contract.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until _____[*name of Employer*] receives full payment of the same amount from the Contract.

Yours faithfully,

Signature and Seal _____

Name of the Bank or financial institution _____

Address _____

Date _____

Witness: Name: _____

Address: _____

Signature: _____

Date: _____

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) whichever 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; Country/Town.....

Plot No..... Street/Road

Postal Address..... Tel No.....

Nature of Business.....

Current Trade Licence No..... Expiring date.....

Maximum value of business which you can handle at any time: K. pound.....

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

Your name in full..... Age.....

Nationality..... Country of Origin.....

*Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

| | <i>Name in full</i> | <i>Nationality</i> | <i>Citizenship Details</i> | <i>Shares</i> |
|--------|---------------------|--------------------|----------------------------|---------------|
| 1..... | | | | |
| 2..... | | | | |
| 3..... | | | | |

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 in full. Nationality. Citizenship Details*. Shares.

1.
.....

2.
.....

3.
.....

4.
.....

Part 2(d) – Interest in the Firm:

Is there any person / persons in(Name of Employer) who has interest in this firm? Yes/No..... (Delete as necessary)

I certify that the information given above is correct.

.....
(Title)

.....
(Signature)

.....
(Date)

- Attach proof of citizenship

LETTER OF NOTIFICATION OF AWARD

Address of Procuring Entity

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

FORM RB 1

REPUBLIC OF KENYA
PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

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

BETWEEN

.....APPLICANT

AND

.....RESPONDENT (*Procuring Entity*)

Request for review of the decision of the..... (*Name of the Procuring Entity*) of
dated the...day of20.....in the matter of Tender No.....of
20...

REQUEST FOR REVIEW

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

- 1.
- 2.
- etc.

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

- 1.
- 2.
- etc

SIGNED(Applicant)

Dated on.....day of/...20...

FOR OFFICIAL USE ONLY

Lodged with the Secretary Public Procurement Administrative Review Board on..... day
 of20.....

SIGNED
 Board Secretary

FORM OF POWER OF ATTORNEY

(All bidders shall complete this form otherwise, their bids shall be considered non-responsive)

We _____ (Name of Bidder)

having our offices located in _____ (Name of Town and Building) duly
authorise

_____ (Name of person appointed to act for and on behalf
of the bidder) to act for and on our behalf on all matters pertaining to the execution of works as stipulated under
PROPOSED PHASE 1 UPGRADE OF MANDERA COUNTY REFERRAL HOSPITAL IN MANDERA
EAST SUB COUNTY

Duly signed and delivered:

Name of appointed attorney: _____

Signature of appointed attorney: _____

Witnessed by:

1. Name of First Company Director: _____

Signature: _____

2. Name of Second Company Director: _____

Signature: _____

Company Seal:

FIFTH SCHEDULE

SELF DECLARATION FORMS (r.47) FORM SD1

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

I,, of Post Office Boxbeing a resident
of in the Republic of do hereby make a
statement as follows:- 1. THAT I am the Company Secretary/ Chief Executive/Managing
Director/Principal Officer/Director of..... (insert name of the
Company) who is a Bidder in respect of Tender Nofor

.....(insert tender title/description) for (insert name of the
Procuring entity) and duly authorized and competent to make this statement.

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

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

.....
(Title) (Signature) (Date)

Bidder Official Stamp

FORM SD2
SELF DECLARATION FORMS

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

I,of P. O. Box.....being a resident of in the Republic ofdo hereby make a statement as follows:- 1. THAT I am the Chief Executive/Managing Director/Principal Officer/Director of (insert name of the Company) who is a Bidder in respect of Tender No. for.....(insert tender title/description) for(insert name of the Procuring entity) and duly authorized and competent to make this statement. 854 Kenya Subsidiary Legislation, 2020

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

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

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

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

.....
(Title) (Signature) Date)

Bidder's Official Stamp

SECTION VI – SPECIFICATIONS, DRAWINGS & BILLS OF QUANTITIES

SPECIFICATIONS

Notes for preparing Specifications

- 1.0 Specifications must be drafted to present a clear and precise statement of the required standards of materials, and workmanship for tenderers to respond realistically and competitively to the requirements of the Employer and ensure responsiveness of tenders. The Specifications should require that all materials, plant, and other supplies to be permanently incorporated in the Works be new, unused, of the most recent or current models, and incorporating all recent improvements in design and materials unless provided otherwise in the Contract. Where the Contractor is responsible for the design of any part of the permanent Works, the extent of his obligations must be stated.
- 2.0 Specifications from previous similar projects are useful and may not be necessary to re-write specifications for every Works Contract.
- 3.0 There are considerable advantages in standardizing **General Specifications** for repetitive Works in recognized public sectors, such as highways, urban housing, irrigation and water supply. The General Specifications should cover all classes of workmanship, materials and equipment commonly involved in constructions, although not necessarily to be used in a particular works contract. Deletions or addenda should then adapt the General Specifications to the particular Works.
- 4.0 Care must be taken in drafting Specifications to ensure they are not restrictive. In the Specifications of standards for materials, plant and workmanship, existing Kenya Standards should be used as much as possible, otherwise recognized international standards may also be used.
- 5.0 The Employer should decide whether technical solutions to specified parts of the Works are to be permitted. Alternatives are appropriate in cases where obvious (and potentially less costly) alternatives are possible to the technical solutions indicated in tender documents for certain elements of the Works, taking into consideration the comparative specialized advantage of potential tenderers.

The Employer should provide a description of the selected parts of the Works with appropriate reference to Drawings, Specifications, Bills of Quantities, and Design or Performance criteria, stating that the alternative solutions shall be at least structurally and functionally equivalent to the basic design parameters and Specifications.

Such alternative solutions shall be accompanied by all information necessary for a complete evaluation by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, proposed construction methodology, and other relevant details. Technical alternatives permitted in this manner shall be considered by the Employer each on its own merits and independently of whether the tenderer has priced the item as described in the Employer's design included with the tender documents.

BILLS OF QUANTITIES

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| | <p><u>PARTICULAR PRELIMINARIES</u></p> <p>The Contractor is advised to carefully read and understand all insertions to particular preliminaries</p> | |
| A | <p><u>DESCRIPTION OF THE WORKS AND SCOPE OF CONTRACT</u></p> <p>These are new works generally consisting of excavations, concretework, walling, roofing, doors, steel casement windows, finishes and associated mechanical and electrical installation works</p> | |
| B | <p><u>MEASUREMENTS</u></p> <p>In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p> | |
| C | <p><u>LOCATION OF SITE</u></p> <p>The site of the proposed works is in Mandera. The Contractor is advised to visit the site to familiarize himself with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained.</p> | |
| D | <p><u>CLEARING AWAY</u></p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused works and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p> | |
| E | <p><u>OFFICE FOR THE ARCHITECT</u></p> <p>The site office mentioned hereafter shall be 5 x 3 metres on plan and constructed on 100mm concrete slab with weatherboarding wall and GCI roofing, with softboard ceiling and finishes to wall and cement screed floor. Copies of drawings and Bills of Quantities shall be kept in this office at all times.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|--|--------|
| A | <p>CLAIMS</p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and/or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such claim or intent to claim notice to the PROJECT MANAGER in accordance with Clause 19 and 24 of the conditions of contract. No claims shall be entertained if the contractor has not complied with the said conditions.</p> | |
| B | <p>PAYMENTS</p> <p>The tenderer's attention is drawn to the fact that the COUNTY GOVERNMENT pays for work done and materials delivered to site: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.</p> | |
| C | <p>LABOUR CAMPS</p> <p>The Contractor will not be allowed to house labour on site and shall take full responsibility for transporting labour daily to and from the site as required and the cost of this shall be included in his tender.</p> | |
| D | <p>FIRM PRICE CONTRACT</p> <p>This is a firm price contract and, therefore the tenderer shall not be reimbursed for any increases in the costs of materials and/or labour in the execution of the works except as provided under the fluctuations clause.</p> | |
| E | <p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials from demolitions and not re-used shall become the property of the Client/User. The Contractor shall allow in his rates for the cost of transporting, storing and securing the materials on site as directed by the PROJECT MANAGER.</p> | |
| F | <p>PRICING RATES</p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, , taxes, all to comply with the said Conditions of Contract.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|---|--------|
| A | <p>SECURITY</p> <p>The Contractor shall provide adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p> | |
| B | <p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor should allow for any costs he may incur by having to complete the works within the stipulated contract period.</p> | |
| C | <p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p> | |
| D | <p>SIGN BOARD</p> <p>Allow for providing, erecting and maintaining through out the course of the contract and afterwards clearing away a sign board in accordance with the Ministry of Roads and Public Works standard detail to be obtained from the PM.</p> | |
| E | <p>PRICING OF PRELIMINARIES</p> <p>The tenderer is required to price items covered in these preliminaries as items for which no price is entered will not be paid for but shall be deemed covered by other rates and prices in these Bills of Quantities.</p> | |
| F | <p>ADJOINING PROPERTY</p> <p>Take all necessary precautions to prevent damage to adjoining property. Any damage occurring must be made good to the satisfaction of the PM and/or owner(s) of the adjoining property at the contractor’s expense.</p> | |
| G | <p>USE OF SITE</p> <p>Do not use the site for any other purpose other than carrying out the works. Do not permit or display any advertisement without the consent of the PM</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|---|--------|
| A | <p>QUALITY OF THE WORKS</p> <p>The works should be of high quality and the contractor will be required to make samples of the work to be executed for approval by the PM before he commences the carrying out of the works. The contractor should allow for sample works in his rates accordingly. Incase a sample does not meet the standards set by the PM, the contractor shall be expected to make another sample at his cost until it is approved by the PM.</p> | |
| B | <p>BID SECURITY</p> <p>The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement.</p> <p>The bid security shall, at the bidder's option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or foreign bank which has been determined by the bidder to be acceptable to the County Government. The format of the bank guarantee shall be in accordance with the sample forms of bid security included in the post qualification forms, other formats may be permitted, subject to the prior approval of the County Government. Letters of credit, bank Guarantees issued as surety for the bid shall be valid for a period of One Hundred and Fifty (150) days from the date of Tender Opening.</p> | |
| C | <p>TRAINING LEVY</p> <p>Legal notice No. 237 of October, 1971 requires payment by the contractor of a training levy of a quarter percent of the value of the contract where the contract value exceeds KShs. 50,000/=. The contractor will be required to furnish the Project Manager with a receipt showing that he has paid the required Training Levy to the Director of Industrial Training. In case the contractor fails to furnish the said receipt</p> | |
| D | <p>WATER FOR THE WORKS</p> <p>The contractor is to make his arrangements for the provision of water for the works in the course of execution of this contract.</p> | |
| E | <p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|--|--------|
| A | <p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>The Contractor is notified that these works are to be carried out on a site where the Client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p> | |
| B | <p>FORM OF CONTRACT</p> <p>The form of contract will be the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition)</p> | |
| C | <p>PERFORMANCE BOND</p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.5, award of contract of the Conditions of Contract. No payment will be made without the required performance security.</p> | |
| D | <p>DELIVERY OF TENDER</p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited in the tender box as specified in the advertisement and or letter of invitation to tender.</p> <p>Tenders will be opened at the time specified in the advertisement and/or letter of invitation to tender. Tenders arriving later than the specified time will not be considered.</p> | |
| E | <p>CORRECTION OF ERRORS IN TENDER</p> <p>Arithmetical errors will be rectified on the following basis.</p> <p>If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and the quantity, the unit price shall prevail and the total price shall be corrected.</p> <p>If there is a discrepancy between words and figures, the amount in words will prevail.</p> | |
| F | <p>TELEPHONE</p> <p>Allow for providing and maintaining a telephone upon the site during the contract period and for paying all the charges</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|--|--------|
| A | VIEWING OF DRAWINGS Any tenderer interested in viewing the drawings related to this project before submission of the tenders may do so by contacting the Director Supply Chain Management, Mandera County Government Mandera Town, Mandera, Kenya | |
| B | STANDARD FORMS Any tender with standard forms not filled as appropriate will be treated as non-responsive. | |
| C | INTERRUPTION OF WORK The Contractor is to carry out the works on site where the user is carrying on with his normal activities. Periodic stoppages of work will be experienced and therefore the Contractor should assess the delays and losses likely to be incurred and price accordingly. No claim in respect of extension of time and losses will be entertained due to any failure by the Contractor. | |
| D | VALUE ADDED TAX The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1 st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for VAT and any other Government taxes currently in force. | |
| E | The tenderer is advised that in accordance with Government public notice No. 35 & 36 Dated 11 th September 2003 operational from 1 st October 2003, withholding VAT will be levied against the contract sum by the Employer and remitted to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment of VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with. | |
| F | TENDER VALIDITY "Clause 3.6 if the Instructions to Tenderers has been amended to read: "Tenders shall remain valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening, and not Ninety (60) days. All Tenderers are advised to note this amendment when filling the Form of Tender". | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| | SPECIAL PRELIMINARIES <u><i>The contractor to supply the following ;</i></u> COMPUTER HARDWARE AND PERIPHERALS A PERSONAL COMPUTERS Purchase and provide 1No. Personal Desktop Computer (PC's) as per the following minimum specifications as "COMPAQ" or other equal and approved. <ol style="list-style-type: none"> 1. Intel Pentium IV Processor; 4.0 Ghz 2. 1024MB SDRAM, DDRAM (1 Gig RAM) 3. 256MB (VGA Graphics Card) as "nVIDIA GeForce MX integrated GPU with 256MB on the Accelerated Graphics Port (AGP) Slot of the mother board" 4. 280GB HDD Ultra DMA; 5. 1.44MB 3.5" FDD 6. DVD Writer and CD Writer complete with Softwares 7. 56KB V92 data/fax Modem, wake-on-ring ready 8. Internet Enhanced Key Board 9. Internet Scroll Mouse and Mouse Pad 10. Network Card Ethernet 10/100 USB 2.0 11. 19" TFT Screen, 1024 x 768 12. Ms Windows XP Prof, Pre-loaded, Registered, CD supplied 13. Ms Office XP Professional, Pre-loaded, Registered, CD 14. PORTS - 1xP/S2 compatible keyboard, 1xP/S2 compatible mouse, 2 x 9 Pin Serial, 1x25 pin parallel, 6xUSB, 1xTV & 1xFM aerial-cable serial, 1xRJ 45 internet, 1xVGA external, 2.0 - High 15. Audio/video cards, TV/FM cards, Integrated speakers, External amplified 2NO speakers, remote control 16. Power cables compatible with CPU and UPS 17. 4No. Expansion Slots 18. 6NO-Slot High Quality Extension Power Cables per PC 19. Dust Covers 20. Anti Virus upto date software as Norton or equal and approved 21. One year manufacturers warranty a must B POWER BACKUP 1No. Approved Uninterrupted Power Supply (UPS) 1000 VA as APC or equal and approved | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|--|--------|
| | CARRIED TO COLLECTION | |
| A | PRINTER Purchase and provide 1No. "HP 2420 " HP Laser Printer as per the following minimum specifications as HP or equal and approved <ol style="list-style-type: none"> 1200 x 1200dpi; scan/photocopying enabled 19ppm; A4-maximum - Memory 72 MB 250 sheet input cassette IEEE - 1284compliant, bi-directional parallel port, 2.0 compliant USB port ; all windows support Power cables compatible with printer and 13A socket outlet One year manufacturers warranty a must | |
| B | COMPUTER DESKS Purchase and provide 1No. Standard Computer desks FLASH DISKS | |
| C | Purchase and provide 1NO. 512MB LG or other equal and approved flash disk SOFTWARE | |
| D | Allow for the provision of 1NO. TV/FM card complete with original CD Kit & License. | |
| E | CALCULATORS 1 1NO. Scientific calculator as CASIO fx-350TL 2 1NO. Tax and Exchange calculator as CASIO D-120TE | |
| F | STATIONERY 1 Complete set of spare catridges(toners) 2 30NO. Reams of A4 photo copying papers 3 3NO. Printer ink HP45 -black No. C5164S 4 3NO. Printer ink HP78 -black No. C6578D 5 20NO. Spring files 6 20NO. Box files | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|--|--------|
| | <u>PROJECT MANAGER'S EXPENSES</u> | |
| A | NOTE ON DISBURSEMENT OF FUNDS The funds referred in items PP/9B to PP/9F below shall be given to the concerned officers in advance in every month by the Contractor for the duration of the Contract. | |
| B | <u>ALLOWANCE FOR PROJECT MANAGEMENT TEAM</u> Allow a sum of Kenya Shillings eight hundred thousand shillings (Kshs. 800,000/=) only for the MOR&PW Officers allowances to be paid at a rate of Kshs. 10,000/= per site visit. Include a Percentage sum for the Contractor's cost and Profit for the above10.% | |
| C | <u>MOBILE PHONE AIR TIME FOR OFFICERS</u> Provide mobile phone airtime worth Kshs. 2,000/= (Two Thousand Shillings) per person per calendar month for 10No. MOR&PW Officers for the duration of the Contract. Include a Percentage Sum for the Contractor's Cost and Profit for the above 10% | |
| D | <u>LUNCH FOR THE PROJECT TEAM</u> Provide 2No. Lunches per person at rate of Kshs. 1000 per calendar month for 10No. Design team members during the duration of the contract. Include a Percentage Sum for the Contractor's Cost and Profit for the above10% | |
| E | <u>CLERK OF WORKS EXPENSES</u> Allow a sum of Kenya Shillings Five hundred thousand (Kshs. 500,000/=) only for the Clerk of Works expenses to be paid at a rate of Kshs. 2,000/= per day. Include a Percentage sum for the Contractor's cost and Profit for the above10.% | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| | <p>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</p> <p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p>Period of Final Measurement 3 Months From Practical completion</p> <p>Defects Liability Period 6 Months from practical completion</p> <p>Date for Possession To be agreed with the Project Manager</p> <p>Date for Completion 32 Weeks from date of Possession</p> <p>Liquidated and Ascertained At the rate of Kshs.50, 000.00 per week or part thereof</p> <p>Prime Cost Sums for which the Contractor desires to tender</p> <p>Period of Interim Certificates Monthly</p> <p>Period of Honouring Certificates 30 days</p> <p>Percentage of Certified Value Retained 10%</p> <p>Limit of Retention Fund 10%</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| | <p style="text-align: center;"><u>COLLECTION</u></p> <p>BROUGHT FORWARD FROM PAGE PP/1</p> <p>BROUGHT FORWARD FROM PAGE PP/2</p> <p>BROUGHT FORWARD FROM PAGE PP/3</p> <p>BROUGHT FORWARD FROM PAGE PP/4</p> <p>BROUGHT FORWARD FROM PAGE PP/5</p> <p>BROUGHT FORWARD FROM PAGE PP/6</p> <p>BROUGHT FORWARD FROM PAGE PP/7</p> <p>BROUGHT FORWARD FROM PAGE PP/8</p> <p>BROUGHT FORWARD FROM PAGE PP/9</p> <p>BROUGHT FORWARD FROM PAGE PP/10</p> | |
| | <p>PARTICULAR PRELIMINARIES</p> <p>TOTAL CARRIED TO GRAND SUMMARY</p> | |

| ITEM | DESCRIPTION | AMOUNT |
|----------|--|--------|
| | <u>GENERAL PRELIMINARIES</u> | |
| A | <u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u> Wherever in the Contractor's priced Bills of Quantities no price appears against an item of Preliminaries or Preambles, the value of such item shall be deemed to be included in his prices for other items in the schedule and summary of works. | |
| B | <u>B. ABBREVIATIONS AND DEFINITIONS</u> Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows; cm. Shall mean cubic metre sm. Shall mean square metre lm. Shall mean linear metre mm Shall mean Millimetre m². Shall mean square metre kg Shall mean Kilogramme no. Shall mean Number prs. Shall mean Pairs in or " Shall mean inch B.S. Shall mean the British Standard Specification published by the British Standards Institution, 2 park Street, London W.I. Ditto Shall mean the whole of the preceding description except as qualified in m.s. Shall mean measured separately. a.b.d Shall mean as before described. | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>ABBREVIATIONS AND DEFINITIONS (CONTD.)</u></p> <p>lf Shall mean linear foot</p> <p>sf Shall mean square foot</p> <p>cf Shall mean cubic foot</p> <p>lb Shall mean pound avoirdupois</p> <p>K.S. Shall mean the current Kenya Standard Specification published by the Kenya Bureau of Standards, P.O. Box 54974, Nairobi, Kenya.</p> <p>‘As described’ Shall mean as described in these Bills of Quantities.</p> <p>‘As before described’ Shall mean in all respects as described in a previous item.</p> <p>“Approved” Shall mean approved by the Project Manager</p> <p>“As directed” Shall mean as directed by the Project Manager</p> <p><u>B CONTRACT BILLS OF QUANTITIES</u></p> <p>The Contract Bills have been prepared in accordance with the Standard method of measurement of Building works for Eastern Africa, Second Edition (metric) 2008, Published by the Architectural Association of Kenya, chapter of Quantities Surveyors, which is available for inspection at the offices of the Quantity Surveyors by appointment</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</u></p> <p><u>Attendance</u> Clause B19(b) of the Standard Method of Measurement is and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in and shall be deemed to include: allowing use of standing scaffolding, messrooms, sanitary conditions and welfare facilities; provision of special scaffolding where necessary, office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power: and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p>Clause D 18 (a) and (b) of the Standard method of measurement are deleted and the following clause is substituted:keeping excavations free from all water including spring and running water shall be included as an item, or alternatively shall be given in the description of excavation.</p> <p>Clause D 19 of the Standard Method of measurement. The last sentence which reads:</p> <p>“ and shall be given as an item or shall be included in the description of excavation” shall be deleted and the following substituted: “and shall be deemed to be included in the description of all items of excavation.</p> | |
| B | <p><u>Fix Only:-</u></p> <p>"Fix Only" shall mean take delivery at nearest railway station (unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p> | |
| C | <p><u>EMPLOYER</u></p> <p>The Employer is the Mandera County Government. . The terms "Employer", "Government" and "County Government" whenever used in any contract document shall be synonymous.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>PROJECT MANAGER</u></p> <p>The term "PROJECT MANAGER" wherever used in these Bills of Quantities shall be deemed to imply the person defined in Condition 1 of the Conditions of Contract hereby attached or such person or persons as may be duly authorised to represent him on behalf of the Government.</p> | |
| B | <p><u>ARCHITECT</u></p> <p>The term "Architect" shall be deemed to mean MANDERA COUNTY ARCHITECT whose address unless otherwise notified is P.O BOX 13-70300 MANDERA</p> | |
| C | <p><u>QUANTITY SURVEYOR</u></p> <p>The term "Quantity Surveyor" shall be deemed to mean MANDERA COUNTY QUANTITY SURVEYOR whose address unless otherwise notified is P.O BOX 13-70300 MANDERA</p> | |
| D | <p><u>MECHANICAL/ELECTRICAL ENGINEER</u></p> <p>The term "Mechanical/Electrical Engineer" shall be deemed to mean MANDERA COUNTY ENGINEER whose address unless otherwise notified is P.O BOX 13-70300 MANDERA</p> | |
| E | <p><u>CIVIL/STRUCTURAL ENGINEER</u></p> <p>The term "Civil/Structural Engineer" shall be deemed to mean MANDERA COUNTY ENGINEER whose address unless otherwise notified is P.O BOX 13-70300 MANDERA</p> | |
| F | <p><u>SURVEYOR</u></p> <p>The term "Surveyor" shall be deemed to mean.....</p> | |
| G | <p><u>ENVIRONMENTAL CONSULTANT</u></p> <p>The term "Enviromental consultant" shall be deemed to mean</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>FORM OF CONTRACT</u></p> <p>The form of contract will be the one included in the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition) hereby attached and Conditions of Contract are those attached thereto. If the Contractor considers that compliance with any of the Conditions of Contract involves any expenses distribute them among his rates for the various items in the Bills of Quantities. No claim shall be allowed arising from the Contractors compliance with <u>any of the Conditions of Contract</u>. These are numbered from 1 to 37 as set out on pages 18 to 38 of these tender documents. Particulars of the insertion to be made in the Appendix of the Contract Agreement will be found in the Particular Preliminaries of these Bills of Quantities.</p> | |
| B | <p><u>BOND.</u></p> <p>The Contractor shall find and submit on the Form of Tender the name of one surety who shall be an approved bank and who will be willing to be bound to the Government in an amount equal to seven and half per cent (5) of the Contract amount for the due performance of the contract up to the date of completion as certified by the "PROJECT MANAGER" and who will when and if called upon, sign a Bond to that effect on Ministry of Roads Public works and Housing Form No 118 (without the addition of any limitations) on the same day as the Contract Agreement is signed. In the event of the surety named in the form of tender not being approved by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p> | |
| C | <p><u>PLANT, TOOLS AND VEHICLES</u></p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described hereiin. No timber used for formwork, scaffolding or temporary works of any kind shall be used afterwards in the permanent work.</p> | |
| D | <p><u>TRANSPORT.</u></p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>MATERIALS AND WORKMANSHIP.</u></p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contractor shall also order materials from local sources as early as necessary to ensure that they are on site when required for use in the the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p> | |
| B | <p><u>SIGN FOR MATERIALS SUPPLIED.</u></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the "PROJECT MANAGER" at the time of taking delivery thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and replacements of any such loss or damage with articles and/or materials which will be supplied by the "PROJECT MANAGER" at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the "PROJECT MANAGER"</p> | |
| C | <p><u>STORAGE OF MATERIALS</u></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weatherproof lockup sheds for the safe storage and custody of materials for the works and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the "PROJECT MANAGER". Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p> | |
| | CARRIED TO COLLECTION | |

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

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>SECURITY OF WORKS ETC.</u></p> <p>The Contractor shall be entirely responsible for the security of all the works, stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p> | |
| B | <p><u>PUBLIC AND PRIVATE ROADS.</u></p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the "PROJECT MANAGER".</p> | |
| C | <p><u>EXISTING PROPERTY.</u></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the "PROJECT MANAGER"</p> | |
| D | <p><u>VISIT SITE AND EXAMINE DRAWINGS.</u></p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which may affect his tender his tender. No claim arising from his failure to comply with this recommendation will be considered</p> | |
| E | <p><u>ACCESS TO SITE AND TEMPORARY ROADS.</u></p> <p>Means of access to the Site shall be agreed with the "PROJECT MANAGER" prior to commencement of the work and the Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the "PROJECT MANAGER"</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u></p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the "PROJECT MANAGER"</p> | |
| B | <p><u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the "PROJECT MANAGER" The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from from mains and the Contractor must make his own arrangements for augmenting this supply at his cost. Nominated sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p> | |
| C | <p><u>OFFICE FOR THE PROJECT MANAGER</u></p> <p>The contractor shall provide, erect and maintain where directed on site and afterwards dismantle the Site Office of the type noted in the particular preliminaries, complete with furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect maintain a lock-up pedestral type water or bucket closet for the sole use of the "PM" including making temporary connections to the drain where applicable to the satisfaction Government and Medical Officer of Health and pay the services of a cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be complete before the contractor is permitted to commence the works. The Contractor shall make available on site as and when required by the "PM" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic linen tape.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>SANITATION OF THE WORKS</u></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the "PROJECT MANAGER"</p> | |
| B | <p><u>SUPERVISION AND WORKING HOURS</u></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the "PROJECT MANAGER" who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract. The working hours shall be those generally worked by good employers in the in the Building and Civil Engineering trades in Kenya. No work shall be carried out at night or on gazetted holidays unless the "PROJECT MANAGER" shall so direct. No work shall be covered up nor shall any concreting be carried out in the in the absence of the Clerk of Works without prior approval of the "PROJECT MANAGER" in writing.</p> | |
| C | <p><u>PROVISIONAL SUMS.</u></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurements. Such sums are net and no addition shall be made to them for profit.</p> | |
| D | <p><u>PRIME COST (OR P.C.) SUMS.</u></p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurements. Persons or firms nominated by the "PROJECT MANAGER" to execute work or to provide and fix materials or goods as stated in Condition No. 8 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|---|------------------------------|--------|
| <p>A</p> <p><u>PROGRESS CHART.</u></p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the "PROJECT MANAGER" a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the "PROJECT MANAGER" and a further copy to be retained site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p> <p>B</p> <p><u>ADJUSTMENT OF P.C. SUMS.</u></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the P.M's order in respect of each of them added to the Contract sum. The Contractor shall provide to the "PROJECT MANAGER" such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p> <p>C</p> <p><u>ADJUSTMENT OF PROVISIONAL SUMS.</u></p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the "PROJECT MANAGERS" order added to the contract Sum. Such work shall be valued as described for variations in condition No. 22 of the conditions of Contract, but should any part of the contract be executed by a nominated Sub-Contractor, or any articles for the Work be supplied by a Nominated Supplier, the value of such work or articles shall be treated as P.C. P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p> | | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|--|--------|
| A | <p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>When any work is ordered by the "PROJECT MANAGER" to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No 8 of the Conditions of Contract and shall thereafter be responsible for such sub contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract contractor's work concerned in the P.C. Sums under the description "Add for Attendance".</p> <p><u>DIRECT CONTRACTS</u></p> <p>Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In the instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p><u>ATTENDANCE UPON OTHER TRADESMEN. ETC.</u></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the "PROJECT MANAGER" and the work will be and measured and paid for to the extent executed at rates provided in these bills.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>INSURANCE</u></p> <p>The Contractor shall insure as required in Condition No.30 of the Conditions of contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the "PROJECT MANAGER" either by production of an insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clause have been complied with in all respects. Thereafter the "PROJECT MANAGER" shall from time to time ascertain that the premiums are duly paid up by the Contractor, who, if called upon to do so, shall produce receipted premium renewals for the "PROJECT MANAGER"'s inspection.</p> | |
| B | <p><u>PROVISIONAL WORK</u></p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this contract shall be left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the "PROJECT MANAGER" Immediately the work is ready for measuring, the Contractor shall give notice to the "PROJECT MANAGER" If the Contractor makes default in these respects he shall, if the "PROJECT MANAGER" so directs, uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p> | |
| C | <p><u>ALTERATIONS TO BILLS. PRICING. ETC.</u></p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the Bills of Quantities. All items shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>BLASTING OPERATIONS</u></p> <p>Blasting will only be allowed with the express permission of the "PROJECT MANAGER" in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations laid down by the "PROJECT MANAGER" governing the use and storage of explosives.</p> | |
| B | <p><u>MATERIALS ARISING FROM EXCAVATIONS</u></p> <p>Materials of any kind obtained from the excavations shall be the property of the Government Unless the "PROJECT MANAGER" directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the "PROJECT MANAGER". Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p> | |
| C | <p><u>PROTECTION OF THE WORKS.</u></p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the "PROJECT MANAGER" and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p> | |
| D | <p><u>REMOVAL OF RUBBISH ETC.</u></p> <p>Remove all rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p> | |
| | <u>TOPOGRAPHICAL SURVEY</u> | |
| E | <p>The contractor's to carry out a topo survey of the site before commencement of the works to the approval of the Engineer. His tender must include for all costs arising or resulting there from</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>WORKS TO BE DELIVERED UP CLEAN</u></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the "PROJECT MANAGER."</p> | |
| B | <p><u>GENERAL SPECIFICATION.</u></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works General Specification dated 1976 or any subsequent revision thereof a copy of which is available at the Quantity surveyors offices , and which shall be followed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p> | |
| C | <p><u>TRAINING LEVY</u></p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs 50,000.00 in value.</p> | |
| D | <p><u>MATERIALS ON SITE</u></p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the "PROJECT MANAGER". This is to include the materials of Main Contractor, and Nominated Sub-Contractors Suppliers.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p><u>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</u></p> <p>The Contractor shall constantly keep on the works literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p> | |
| B | <p><u>FIRM PRICE CONTRACT</u></p> <p>Unless otherwise specifically stated in the Contract Data and/or Particular Preliminaries this is a firm price contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of the contract.</p> | |
| C | <p><u>HOARDING</u></p> <p>Provide, erect, maintain and remove on completion of the works an approved suitable and sufficient hoarding along perimeter of property or as directed.</p> <p>The hoarding shall be 3.00m high, above ground level, and constructed of 150mm diameter approved celcured hardwood posts, at 2.00m centres, 3.60m long and with one end set 600mm deep below ground level; 100 x 50mm sawn celcured cypress battens nailed to the posts at 1.00m centres; 30 gauge galvanised corrugated iron sheets 3.00m long fixed to the battens and painted and the whole fence kept clean and neat during the currency of the contract. A rehicular double gate size 3.50 x 3.00 mm high constructed of the same materials complete with a wicket door and necessary ironmongery shall be provided.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|------|---|--------|
| A | <p>SETTING OUT</p> <p>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 he shall be required to amend all errors arising from inaccurate setting out at his own cost and expense. In the event of any error or discrepancy in the dimensions or levels marked on the drawings being discovered, such errors or discrepancies must be reported by the contractor to the Architect for 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 be proved. Upon receipt of such instructions the contractor shall thereupon be responsible for adjustments necessary to comply with such instructions and no claim for extra expense based on any discrepancy or error in the dimensions or levels shown on the drawings shall be made thereafter.</p> <p>NOMINATED SUPPLIERS</p> <p>The cost of "Fix only" materials to be obtained from nominated suppliers which are covered by Prime cost or Provisional Sums shall include for taking delivery where directed, in checking with invoices or indents, reporting and claiming damages for shortages and damaged goods, defraying demurrage, signing for as having been received in good order, transporting, unloading, storing, covering and protecting, until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.</p> | |
| | CARRIED TO COLLECTION | |

| ITEM | DESCRIPTION | AMOUNT |
|--|---|--------|
| | <p style="text-align: center;"><u>COLLECTION</u></p> <p>Brought forward from page GP/1</p> <p>Brought forward from page GP/2</p> <p>Brought forward from page GP/3</p> <p>Brought forward from page GP/4</p> <p>Brought forward from page GP/5</p> <p>Brought forward from page GP/6</p> <p>Brought forward from page GP/7</p> <p>Brought forward from page GP/8</p> <p>Brought forward from page GP/9</p> <p>Brought forward from page GP/10</p> <p>Brought forward from page GP/11</p> <p>Brought forward from page GP/12</p> <p>Brought forward from page GP/13</p> <p>Brought forward from page GP/14</p> <p>Brought forward from page GP/15</p> <p>Brought forward from page GP/16</p> <p>Brought forward from page GP/17</p> | |
| <p style="text-align: center;">GENERAL PRELIMINARIES TOTAL CARRIED TO GRAND SUMMARY</p> | | |

| ITEM | DESCRIPTION | QTY. | UNIT | RATE | SHS. |
|------|--|------|------|------|------|
| | <p><u>DEMOLITIONS AND ALTERATIONS</u></p> <p><u>BILL NO.01: DEMOLITIONS AND ALTERATIONS</u></p> <p><u>INFORMATION</u></p> <p><u>The nature and location of the work</u></p> <p>General pricing notes</p> <p>The prices shall be deemed to include all credit allowances for items arising from demolitions which are not subsequently re-used in the works</p> <p>The contractor shall allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Architect and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Architect</p> <p>The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described. The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Architect that such damage or breakage was inevitable as a result of the condition of the item concerned.</p> <p>All items for inserting new windows, doors, frames, joinery fittings or the like to existing structures shall be deemed to include any necessary adjustments (whether involving new materials, cutting existing works, pinning, wedging or the like) to existing works to accommodate new openings, fittings or fitments of the sizes as described in all the proposed designs and making good all disturbed surfaces to match existing. New finishing's applied to existing surfaces shall in all areas Include cleaning and carting away debris, levelling and any other</p> | | | | |

| | | | | | |
|--|---|--|--|--|--|
| | <p>preparatory works and any additional thickening out and dubbing to make up irregularities of surfaces including those exposed by demolitions. All items of new finishings to existing or disturbed surfaces shall include extending new finish to be better than or match existing all to the entire satisfaction of the Architect.</p> <p>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Architect.</p> <p>The Contractor is advised to visit the site to ascertain the nature and extent of the demolition works and the new works and any other item in relation to the site that would affect his pricing and shall include any such item in his pricing for demolition works.</p> <p>The works shall be executed in such a manner and sequence as the Architect may direct with as little disruption and inconveniences as possible to the normal functioning, on the occupants of the facility and the general public. No demolitions shall commence without the express instruction of the Architect.</p> | | | | |
| | CARRIED TO COLLECTION | | | | |

| ITEM | DESCRIPTION | QTY | UNIT | RATE | SHS. |
|------|--|------|------|------|------|
| | <u>DEMOLITIONS:</u> <u>Various locations</u> | | | | |
| A | Existing roof including timber truseess | 1900 | SM | | |
| B | Existing solid concrete block or stone walling; making good disturbed surface | 2100 | SM | | |
| C | Removing existing metal windows, frames and concrete window cill; carting away unused materials from site Window size 1200 x 1400 mm high | 50 | NO | | |
| D | Removing existing solid or grille metal door, frames and ironmongery;; carting away unused materials from site Door size 1800 x 2450 mm high | 50 | NO | | |
| E | Carefully demolish or cut back existing reinforced concrete column, expose and thoroughly cut existing reinforcement upto ground floor level; making good disturbed surfaces to match existing Size 400 x 400 x 4200 mm high | 30 | NO | | |
| F. | Carefully demolish or cut back existing reinforced concrete beams, expose and thoroughly clean existing reinforcement to Structural Engineer's approval; making good disturbed surfaces to match existing Generally | 30 | NO | | |
| G. | Carefully demolish foundation structures and cart away the debris | 4500 | SM | | |
| | CARRIED TO GRAND SUMMARY | | | | |

MG/02

PROPOSED LABORATORY AT MANDERA COUNTY REFFERAL HOSPITAL

| Item | Description | Unit | Quantity | Rate | Amount |
|------|--|----------------|----------|------|--------|
| | <u>BILL NO. 2</u> | | | | |
| | <u>MAIN WORKS</u> | | | | |
| | <u>ELEMENT NO. 1</u> | | | | |
| | <u>SUBSTRUCTURES (ALL PROVISIONAL)</u> | | | | |
| | <u>This element includes all works upto and including ground floor slab</u> | | | | |
| | <u>Excavations</u> | | | | |
| A | Excavate to reduce levels : commencing from existing ground level : not exceeding 1.5 metres deep | m ³ | 686 | | |
| B | Excavate trenches for strip foundations : commencing from reduced level : not exceeding 1.5 metres deep | m ³ | 2,750 | | |
| C | Ditto :Column bases | m ³ | 18 | | |
| D | Extra over all excavation for excavating in any type of rock. | m ³ | 348 | | |
| | <u>Disposal of excavated materials</u> | | | | |
| E | Backfill and compact in layers : selected excavated material around foundations : placed in 200mm thick layers : well watered and compacted to 95% MDD | m ³ | 650 | | |
| F | Surplus excavated material :spreading on site as directed by the Project Manager | m ³ | 450 | | |
| | Carried to Collection | | | | |
| | | | | | |
| | | | | | |

3-1-1/1

| Item | Description | Unit | Quantity | Rate | Amount |
|------|---|----------------|----------|------|--------|
| | <u>Disposal of water</u> | | | | |
| A | Keep excavations free from all water by baling, pumping or otherwise | Item | 1 | | |
| | <u>Planking and strutting</u> | | | | |
| B | Planking and strutting to sides of all excavations : keep excavations free from all fallen materials | Item | 1 | | |
| | <u>Anti-termite treatment</u> | | | | |
| C | Chemical anti-termite treatment to subsoil or fillings : Dragnet 30% EC or equal and approved : applied by an approved specialist: provide ten year guarantee | m ² | 1,850 | | |
| | <u>Filling</u> | | | | |
| D | 300 mm thick: handpacked hardcore filling in making up levels well rolled and compacted to 100% MDD | m ² | 338 | | |
| E | Over 300 mm thick imported and approved filling : deposited, spread, levelled and compacted : in 150mm thick layers | m ³ | 422 | | |
| F | 50 mm quarry dust or murram blinding | m ² | 1,850 | | |
| | <u>50mm Thick mass concrete (1:4:8) class 15/20 in Blinding under:</u> | | | | |
| G | 50 mm Blinding layer : under strip foundations | m ² | 460 | | |
| H | 50 mm Blinding layer : under column bases | m ² | 37 | | |
| | <u>In situ concrete : class 25/20 : vibrated : reinforced</u> | | | | |
| I | Strip foundations in trenches | m ³ | 45 | | |
| J | Column bases | m ³ | 17 | | |
| K | Columns | m ³ | 18 | | |
| L | Steps; PROVISIONAL | m ³ | 5 | | |
| | ditto ground beam | m ³ | 25 | | |
| M | Surface bed: 150mm Thick concrete | m ² | 1,850 | | |
| | Ditto on Ramp | m ² | 72 | | |
| | <u>Mesh fabric reinforcement to BS 4483: 200 mm laps</u> | | | | |
| N | Fabric mesh reinforcement A142 weighing 2.22kg per | m ² | 1,850 | | |
| | Carried to Collection | | | | |
| | | 3-1-1/2 | | | |

| Item | Description | Unit | Quantity | Rate | Amount |
|------|---|----------------|----------|------|--------|
| | <u>Formwork : to</u> | | | | |
| | Vertical sides : strip foundations; PROVISIONAL | m ² | 180 | | |
| A | Vertical sides : column bases | m ² | 71 | | |
| B | Vertical sides : columns | m ² | 63 | | |
| C | ditto ground beam | m ² | 402 | | |
| | Vertical edges of floor slab : over 75 but not exceeding 150 | m | 201 | | |
| D | edges of Ramp | m | 98 | | |
| | <u>Bars;High yield deformed steel; cold worked and ribbed to to BS 4449 (Provisional); allow for cutting, bending, binding wire and placement: to engineer's details</u> | | | | |
| | 8mm Diameter Bars | kg | 1,888 | | |
| E | 10mm Diameter Bars | kg | 0 | | |
| F | 12mm Diameter Bars | kg | 1,398 | | |
| G | 16mm Diameter Bars | kg | 0 | | |
| | <u>Labours and sundries</u> | | | | |
| H | One layer 1000 gauge polythene sheet damp proof membrane : under beds : 300mm laps : sealed joints | m ² | 1,850 | | |
| | <u>Foundation Walling</u> | | | | |
| J | <u>Medium dressed hard quarry stone: selected and approved: load bearing (7N/mm²) block walling : bedded, jointed and pointed : in cement and sand (1:4) mortar</u> | | | | |
| | 200mm Walling | m ² | 2,350 | | |
| | <u>Plinths</u> | | | | |
| K | <u>15mm cement and sand (1:4) render on concrete and masonry surfaces.</u> | | | | |
| | Vertical surfaces | m ² | 505 | | |
| | <u>Prepare and apply three coats bituminous paint on rendered surfaces</u> | | | | |
| L | External surfaces of plinths | m ² | 505 | | |
| M | Carried to Collection | 3-1-1/3 | | | |

| Item | Description | Unit | Quantity | Rate | Amount |
|------|---|----------------|----------|------|--------|
| | <u>Decra interlocking galvanised steel tiles</u> | | | | |
| | Roof coverings; sloping not exceeding 25 degrees from horizontal | m ² | 2,500 | | |
| A | Raking Cutting to edges | m | 500 | | |
| B | Half round ridges and hips to match | m | 222 | | |
| | <u>Rainwater goods; UPVC gutters and down pipes fixed with and including all appropriate accessories</u> | | | | |
| C | 250mm girth four times bent with and including fixing brackets | lm | 108 | | |
| | 150mm Diameter downpipe fastened to walls with mild steel holder bats | m | 8 | | |
| E | Extra over downpipe for bends | No | 4 | | |
| F | | | | | |
| G | BOARDING | | | | |
| | <u>Wrot cypress; prime grade; pressure impregnated</u> | | | | |
| | <i>Boarding to eaves or the like; tongued and grooved joints;</i> | | | | |
| | 25 mm thick; horizontal; over 300 mm wide | m ² | 415 | | |
| | <u>Fascia boards</u> | | | | |
| H | 250 x 25 mm; with one labour | m | 196 | | |
| | <u>Prepare and apply three coats of gloss oil paint as</u> | | | | |
| I | Fascia and vergeboards; 200 - 300mm girth | m | 196 | | |
| J | Eaves filling | sm | 120 | | |
| K | | | | | |
| | Carried to Collection | | | | |
| | | | | | |
| | | | | | |

3-1-3/2

| Item | Description | Unit | Quantity | Rate | Amount |
|------|---|----------------|----------|------|--------|
| | <u>ELEMENT NO. 5</u> | | | | |
| | <u>WALLING</u> | | | | |
| | <u>External walls</u> | | | | |
| | Natural stone walling; Hand-dressed; Selected and approved quality : load bearing (7N/mm ²) walling : bedded, jointed and pointed : in cement and sand (1:4) mortar | | | | |
| | 200 mm Thick walling | m ² | 420 | | |
| | <u>Internal walls</u> | | | | |
| A | Natural stone walling; Hand-dressed; Selected and approved quality : load bearing (7N/mm ²) walling : | | | | |
| | 200 mm Thick walling | m ² | 2,780 | | |
| | 100 mm Thick walling; PROVISIONAL | m ² | 0 | | |
| C | 150 mm Thick walling; PROVISIONAL | m ² | 0 | | |
| D | <u>Damp proof courses : hessian based felt : bedded in cement and sand (1:4) mortar : 300 mm laps</u> | | | | |
| E | Horizontal : 200 mm wide | m | 900 | | |
| F | Horizontal : 100 mm wide | m | 0 | | |
| G | Horizontal : 150 mm wide | m | 0 | | |
| H | <u>Louvred Vent Blocks</u> | | | | |
| | 200mm thick walling; with and including approved PVC mosquito gauze fixed onto walling; with and including 50 x 25mm mild steel rectangular hollow section framing all round fixed with lugs to approval; PROVISIONAL | m ² | 55 | | |
| | Carried Forward to Summary | | | | |

3-1-4/1

| Item | Description | Unit | Quantity | Rate | Amount |
|------------------------------|--|------|----------|------|--------|
| A | <u>ELEMENT NO. 6</u> | | | | |
| | <u>WINDOWS</u> | | | | |
| | <u>Window cill</u> | | | | |
| | 275mm Wide concrete cast in situ window cill : grooved water bar : cement wash finished in all exposed surfaces. | m | 123 | | |
| | <u>JOINERY</u> | | | | |
| | <u>GENERAL JOINERY</u> | | | | |
| | <u>Wrot Mahogany; prime grade; selected</u> | | | | |
| | Window-boards | | | | |
| | 250 x 50 mm; with bullnosed edge; plugging | m | 468 | | |
| | Beads | | | | |
| B | 25 x 25 mm; moulded | m | 468 | | |
| C | <u>IRONMONGERY</u> | | | | |
| | <u>Accessories</u> | | | | |
| D | Curtain rod; 25 mm diameter solid wrought iron patterned to approval; end brackets (m/s); fixing with chromium plated screws to backgrounds requiring plugging | | | | |
| | Curtain rod | m | 246 | | |
| Carried to Collection | | | | | |
| | | | | | |
| 3-1-5/1 | | | | | |

| Item | Description | Unit | Quantity | Rate | Amount |
|------|---|----------------|----------|------|--------|
| | METAL WORK | | | | |
| | PURPOSE MADE UNITS | | | | |
| | <u>Composite extruded powder coated HEAVY DUTY coloured (to Architect's approval) aluminium windows; constructed of standard hollow or angle sections with frames mitred at corners including reinforcing cleats; permanent ventilators ; opening sections sliding or hung; snap rubber glazing beads and sealing strips; and all necessary ironmongery</u> | | | | |
| | Fixing with appropriate screws to approval; plugging or fixing to concrete, blockwork or stone work; sealing with mastic; oiling and adjusting on completion | | | | |
| | Window type W1; size 2000 x 1500 mm high | No | 24 | | |
| A | Window type W2; size 1500 x 1500 mm high | No | 26 | | |
| B | window type w3;size 1000 x 1500 mm high | No | 12 | | |
| | window type w4:size 2000 x 1500mm high | No | 12 | | |
| | GLAZING | | | | |
| | <u>GLASS IN OPENINGS</u> | | | | |
| | <u>Sheet; obscure</u> | | | | |
| | 8 mm thick to metal with snap on rubber glazing beads (m/s) | | | | |
| | In panes 0.50 to 1.00 square metres | m ² | 190 | | |
| C | Allow for window grills as per the architects design | | | | |
| | size 2100mm X 1600mm | NO | 24 | | |
| D | ditto 1600mm x 1600mm | NO | 26 | | |
| | ditto 1100mm x 1600mm | NO | 12 | | |
| | ditto 2100mm x 1600mm | NO | 12 | | |
| | Carried to Collection | | | | - |

3-1-5/2

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| |
|---|
| A |
| B |
| C |
| D |
| E |
| F |
| G |
| H |

| Item | Description | Unit | Quantity | Rate | Amount |
|----------------------------|--|----------------|----------|------|--------|
| A | ELEMENT NO. 8 | | | | |
| | EXTERNAL WALL FINISHES | | | | |
| | FLOOR, WALL AND CEILING FINISHES | | | | |
| | INSITU FINISHINGS | | | | |
| A | Plaster; 12 mm first coat of cement and sand (1:4); 3 mm second coat of cement and lime putty (1:5); steel trowelled | | | | |
| | 15 mm thick 2 No. coat work; to concrete or blockwork base (m/s); generally to | | | | |
| A | Walls; external | m ² | 750 | | |
| | "Ruff 'N' Tuff" or other equal and approved textured finish; supplied by messrs Crown Paints Kenya Ltd.; applied in strict accordance to the manufacturer's printed instruction; all to Architect's approval | | | | |
| B | 2.5 mm thick 1 No. coat work; to wood floated surfaces; | | | | |
| | Walls; external | m ² | 750 | | |
| Carried Forward to Summary | | | | | - |
| 3-1-7/1 | | | | | |

| Item | Description | Unit | Quantity | Rate | Amount |
|------|--|----------------|----------|------|--------|
| | <u>ELEMENT NO. 9</u> | | | | |
| | <u>INTERNAL WALL FINISHES</u> | | | | |
| | <u>FLOOR, WALL AND CEILING FINISHES</u> | | | | |
| | <u>Plaster; 12 mm first coat of cement and sand (1:6); 3 mm</u> | | | | |
| | 15 mm thick 2 No. coat work; to concrete or blockwork | | | | |
| | Walls; internal | m ² | 2,780 | | |
| | <u>Ceramic tiles; as manufactured by Messrs. Saj Ceramics or</u> | | | | |
| A | 330 x 330 x 6 mm; butt joints straight both ways; to | | | | |
| | Walls; internal | m ² | 251 | | |
| B | <u>Render; cement and sand (1:4)</u> | | | | |
| | 15 mm thick one coat backings; wood floated; to receive | | | | |
| | ceramic tiles (m/s); to concrete or blockwork base; | | | | |
| | Walls; internal | m ² | 251 | | |
| | <u>PAINTING AND DECORATING</u> | | | | |
| C | <u>PREPARE AND APPLY TWO UNDERCOATS; TWO COATS</u> | | | | |
| | <u>SILK VINYL EMULSION PAINT; TO CROWN 'SOLO' PAINTS</u> | | | | |
| | <u>Steel trowelled plastered surfaces</u> | | | | |
| | Walls | | | | |
| | Over 300 mm girth; internal | m ² | 2,780 | | |
| D | Carried to Collection | | | | |

3-1-8/1

| Item | Description | Unit | Quantity | Rate | Amount |
|------|---|----------------|----------|------|--------|
| | <u>ELEMENT NO. 11</u> | | | | |
| | <u>CEILING FINISHES</u> | | | | |
| | <u>JOINERY</u> | | | | |
| | <u>GENERAL JOINERY</u> | | | | |
| | <u>plasterboard</u> | | | | |
| | Cornices | | | | |
| | 100 x 25 mm; as supplied by messrs Classic Mouldings Ltd. or other equal and approved; Normastyle; polystyrene; Type T1 | m | 2,680 | | |
| | <u>FLOOR, WALL AND CEILING FINISHES</u> | | | | |
| A | <u>ACOUSTIC FINISHINGS</u> | | | | |
| | <u>ACOUSTIC ceiling; fixing as appropriate; nailed on and including 50 x 50mm cypress timber battens</u> | | | | |
| | Supply and fix "Armstrong Tegular Dune" 600 x 600 mm L.I.G , or any other equal and approved mineral acoustic suspended ceiling | | | | |
| | Ceilings; internal | m ² | 1,480 | | |
| | <u>Plaster; 12 mm first coat of cement and sand (1:6); 3 mm second coat of cement and lime putty (1:10); steel trowelled</u> | | | | |
| B | Ceilings; internal | m ² | 0 | | |
| | <u>PAINTING AND DECORATING</u> | | | | |
| C | <u>PREPARE AND APPLY TWO UNDERCOATS; TWO COATS VINYL MATT EMULSION PAINT; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u> | | | | |
| | <u>Acoustic ceiling</u> | | | | |
| | Ceilings | | | | |
| | Over 300 mm girth; internal | m ² | 1,480 | | |
| | Cornices | | | | |
| D | 200 to 300 mm girth; internal | m | 2,680 | | |
| E | Plastered soffits; internal | m ² | 0 | | |
| F | Carried to Collection | | | | - |
| | | | | | |

3-1-8/3

| Item | Description | Unit | Quantity | Rate | Amount |
|------|-------------------------------------|---------|----------|------|--------|
| | <u>COLLECTION</u> | | | | |
| | Total Brought Forward from Page No. | 3-1-9/1 | | | |
| | Total Brought Forward from Page No. | 3-1-9/2 | | | |
| | Carried Forward to Summary | | | | |
| | | | | | |
| | | 3-1-9/3 | | | |

| Item | Description | Unit | Quantity | Rate | Amount |
|------|--|----------|----------|------|--------|
| | ELEMENT NO. 13 | | | | |
| | JONERY FITTINGS | | | | |
| | <u>THE FOLLOWING IN WORKTOPS; (PROVISIONAL)</u> | | | | |
| | <u>Composite Units</u> | | | | |
| | <u>Worktops</u> | | | | |
| | 9.050mm long x 1200mm wide x 1000mm high; constructed in blcoks with top part finished with granite top as per archetecy's drawing and instruction,Also include provision for wardrobes with mahogany finishes underneath the table | No | 10 | | |
| | MASHRUBIYA | | | | |
| A | steel made Mashrabiya; to Architects approvals and direction | | | | |
| B | Walls Surfaces | SM | 58 | | |
| | MAHOGANY CABINETS | | | | |
| | 1600mm long x 600mm wide x 2500mm high; constructed in 20mm thick Mahogany wood with mahogany laminate finish both sides with approved impact resistant PVC lipping all round edges; complete with and including all necessary framework, drawers, open shelving, high level storage, door, ironmongery; wrot Mahogany beads and architraves; reflective mirrors glass with bevelled edges; 100mm thick mass concrete plinth plastered to approval; 20mm diameter chrome shoe and hanging rail with matching end brackets; all necessary painting and varnish; all to attached Architect's details and approval. | No | 10 | | |
| C | | | | | |
| | Carried Forward to Summary | | | | |
| | | 3-1-10/1 | | | |

| Item | Description | Unit | Quantity | Rate | Amount |
|-----------|---|------|----------|------|--------|
| | <u>MAIN WORKS</u> | | | | |
| | <u>SECTION SUMMARY</u> | | | | |
| | SUBSTRUCTURES | | | | |
| 1 | REINFORCED CONCRETE SUPERSTRUCTURE | | | | |
| 2 | ROOFING | | | | |
| 3 | WALLING | | | | |
| 4 | WINDOWS | | | | |
| 5 | DOORS | | | | |
| 6 | EXTERNAL WALL FINISHES | | | | |
| 7 | INTERNAL WALL FINISHES | | | | |
| 8 | FLOOR FINISHES | | | | |
| 9 | BUILDERS WORK IN CONNECTION WITH MECHANICAL & ELECTRICAL INSTALLATIONS | | | | |
| 10 | JOINERY FITTINGS | | | | |
| 11 | TOTAL FOR MAIN WORKS TO GRAND SUMMARY | | | | |

3-1-S

LAB CENTRE ELECTRICAL BQ

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------------------------------|---|---------------|------|--------------|----------------|
| LIGHTING INSTALLATION | | | | | |
| 1a | Supply and install lighting points using 3 x 1.5mm ² PVC insulated Copper cables to be drawn in 20mm diameter PVC heavy gauge conduits concealed in the floors, roof and for one gang one way switching but excluding the fittings and switches. Conduits to be laid during floor casting | 51 | No | | |
| b | As Item 1a above but for one gang two way switching. | 16 | No | | |
| c | As Item 1a above but for two gang two way switching. | 4 | No | | |
| d | As Item 1a above but for three gang two way switching. | 5 | No | | |
| e | As Item 1a above but for four gang two way switching. | 2 | No | | |
| f | As Item 1a above but for intermediate switching. | 1 | No | | |
| g | As Item 1a above but for photocell switching. | 2 | No | | |
| 2.0 | Supply and install 10 Amps rated moulded plate switches for flush mounting and as crabtree, clipsal or approved equivalent. | | | | |
| a | One gang one way | 51 | No | | |
| b | One gang two way | 16 | No | | |
| c | Two gang two way | 4 | No | | |
| d | Three gang two way | 5 | No | | |
| e | Four gang two way | 2 | No | | |
| f | Intermediate switch | 1 | No | | |
| g | 20 amps Photocell as zidion or approved equivalent | 2 | No | | |
| 3.0 | Supply and install the following lighting fittings | | | | |
| a | Lighting fittings complete with all accessories including LED tubes & lamps of appropriate wattage and colour rendering and fixing materials as follows : (a) 300mm by 600mm, 2x18W, modular surface/recessed fluorescent luminaire designed for use in lay-in ceiling grids, with louvre retention system, parabolic reflector, electronic ballast and plug and socket installation method. | 27 | No | | |
| b | Clear shave single ended fluorescent luminaire for horizontal mounting with a 18W warm white single ended fluorescent tube as MK cat No 812WHI and a pull switch incorporated or any approved equivalent. | 6 | No | | |
| c | Chalice Pro downlight incorporating thermally optimized, Aluminium body with IP54 as standard. A recessed LED downlight with specular or satin reflector held in place via bayonet lock, rapid tool free mounting, Ø150mm | 80 | No | | |
| d | 9 W Soft Warm White LED Downlight Ceiling Lamp Spot Light Recessed AC85-265V or any approved equivalent. | 50 | No | | |
| e | Super Bright outdoor 30W LED floodlight White Light IP65 Which is Waterproof and made of Aluminium and hardened glass. | 9 | No | | |
| f | Decorative wall bracket with antique bronze body and tiffany amber mix | 8 | No | | |
| g | 37W, 600mm x 600mm, LED Panel Lighting fitting as Philips FullGlow or approved equivalent.. | 28 | No | | |
| h | Decorative Full moon fittings complete with energy saving bulbs. | 45 | No | | |
| i | Decorative Surface mounted LED Crystal Chandelier | 2 | No | | |
| j | Glass ball fittings complete with its bulbs | 12 | No | | |
| | TOTAL CARRIED TO COLLECTION | | | | |
| | | Pg/001 | | | |

LAB CENTRE ELECTRICAL BQ

| | | | | | |
|---|--|----|------|--|--|
| | POWER INSTALLATION | | | | |
| 4a | Supply and install the 13Amps single switched socket outlet point,wired using 3 x 2.5mm ² PVC insulated copper cables drawn in 20mm diameter PVC heavy gauge conduits laid concealed in the floors and walls but without the twin outlet plate. | 94 | No | | |
| b | Supply and Install 13Amps twin switched socket outlet plate incorporating a pilot lamp and as MK Cat No. 26571 WH1/2647 WH1,or equivalent and approved. | 94 | No | | |
| 5a | Supply and install recessed 8 way TPN distribution board incorporating an incomer MCB rated at 125A (without the MCBs).The DB is to be as Merlin Gerlin / Hager or approved equivalent. | 2 | No | | |
| b | Supply and install recessed 6 way TPN distribution board incorporating an incomer MCB rated at 125A (without the MCBs).The DB is to be as Merlin Gerlin / Hager or approved equivalent. | 1 | No | | |
| c | Supply and install recessed 4 way TPN distribution board incorporating an incomer MCB rated at 125A (without the MCBs).The DB is to be as Merlin Gerlin / Hager or approved equivalent. | 2 | No | | |
| | Install the following miniature circuit breakers (MCB'S) rated at 500Vac for item 5a,b and c Above | | | | |
| d | 10A (SP) | 19 | No | | |
| e | 20A (SP) | 1 | No | | |
| f | 32A (SP) | 53 | No | | |
| g | 45A (SP) | 1 | No | | |
| h | Supply and install Blanking Plates for item 5 above. | 16 | No | | |
| 6a | Supply and install television outlet point using 25mm dia PVC heavy gauge conduits complete with a draw wire and blanking plate. | 10 | No | | |
| b | Supply and install television white faceplate and as MK 3521 or approved equivalent. | 10 | No | | |
| 7 | Allow for installation of Electronic Queue management systems with with multiple Language including English language voice system, LED counter Display, ticket printers, lobby waiting area main display and accessories. | | ITEM | | |
| 8 | Allow for installation of 15 No. Digital Colour CCTV Camera with all its accessories | 15 | No | | |
| Total carried forward to collection page | | | | | |
| pg/002 | | | | | |

LAB CENTRE ELECTRICAL BQ

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|---------------------------------|---|--------|------|------|--------|
| 9a | Supply and install data outlet point but without the outlet plate complete with wiring | 18 | No | | |
| b | Supply and install data outlet white faceplate and as MK 3521 or approved equivalent. | 18 | No | | |
| 10a | Supply and install Ceiling fan and extractor points using 3 x 1.5mm ² PVC insulated Copper cables to be drawn in 20mm diameter PVC heavy gauge conduits. | 60 | No | | |
| b | Supply and install the following fittings: 24" ceiling fans as Orient or an approved equivalent firmly fixed on the ceiling | 42 | No | | |
| c | Wall mounted high speed kitchen exhaust fan/extractor | 18 | No | | |
| 11a | Supply and install air conditioning circuits wired using 2x4mm ² +1.5mm ² ECC PVC insulated copper cables drawn in 20mm diameter PVC heavy gauge conduits but excluding the 20A DP switch and the air conditioner | 34 | No | | |
| b | Install flush mounted 20Amps DP switch complete with a pilot lamp and as MK CatNo 5423 WHI for the air conditioner | 34 | No. | | |
| c | 18000Btu/hr Air-Conditioners Ceiling Cassette as LG,Samsung or its | 6 | No | | |
| d | 12000Btu/hr Air-Conditioners Ceiling cassette as LG,Samsung or its | 31 | No | | |
| 12a | Supply and install a cooker circuit wired using 2x6mmsq+1x2.5mmsq ECC PVC insulated copper cables drawn in 25mm diameter PVC heavy gauge conduits, but excluding the cooker control and connection units. | 1 | No | | |
| b | Supply and install a 45A rated cooker control unit incorporating a 13 amps switched socket outlet and fitted with pilot lamps and as MK Cat No.506 WHI | 1 | No. | | |
| c | Supply and install a cooker connection unit capable of accommodating upto 2x10mmsq cable and as MK Cat 5045 WHI incorporating a 13 Amps switched socket outlet and fitted with pilot lamps and as MK Cat No.506 WHI | 1 | No. | | |
| 13a | Supply and install Water Pump circuits wired using 2x4mm sq + 1x2.5mm sq ECC PVC PVC insulated copper cables drawn in 25mm diameter PVC heavy gauge conduits but excluding the 20A DP switch. | 1 | No | | |
| b | Supply and install flush mounted 20Amps DP switch complete with a pilot lamp and as MK CatNo 5423WHI,CRABTREE or equivalent and approved. To be used for For the Water Pump above | 1 | No | | |
| To carried to collection | | pg/003 | | | |

LAB CENTRE ELECTRICAL BQ

| | | | | | |
|-------------|--|------------|-------------|----------------------|------------------------|
| 14 | POWER ROOM 350 Amps MCCB ABB type | 1 | No | | |
| 15a | Supply and install L.V.Switch Board with the following specifications 350 Amps integral switch and Four Pole Bus-Bars to accommodate MCCBs. | 1 | No | | |
| b | 100 Amps TPN circuit breakers for DB1 | 1 | No | | |
| c | 100 Amps TPN circuit breakers for DB2 | 1 | No | | |
| d | 100 Amps TPN circuit breakers for DB3 | 1 | No | | |
| e | 100 Amps TPN circuit breakers for DB4 | 1 | No | | |
| f | 100 Amps TPN circuit breakers for DB5 | 1 | No | | |
| 16a | 1200mm copper earth-rod complete with earthing clamp. | 1 | No | | |
| b | Concrete earthing chamber measuring 320 mm x 320 mm x 210 mm depth complete with remove concrete cover. | Item | Sum | | |
| c | 16 mm singles cable green yellow drawn in 20mm p.v.c conduit concealed in walls. | 5 | Lm | | |
| d | Bonding nut complete with nut and washers | 2 | No | | |
| 17 | Supply and install the following sub-mains cables. | | | | |
| a | 5Core 95mm sq PVC/SWA/PVC Armoured copper cable from power house to LV Switch board | 270 | Lm | | |
| b | 5Core 25mm sq PVC/SWA/PVC Armoured copper cable from LV Switch Board to DB 1 | 35 | Lm | | |
| c | 5Core 25mm sq PVC/SWA/PVC Armoured copper cable from LV Switch Board to DB 2 | 25 | Lm | | |
| d | 5Core 25mm sq PVC/SWA/PVC Armoured copper cable from LV Switch Board to DB 3 | 40 | Lm | | |
| e | 5Core 25mm sq PVC/SWA/PVC Armoured copper cable from LV Switch Board to DB 4 | 55 | Lm | | |
| f | 5Core 25mm sq PVC/SWA/PVC Armoured copper cable from LV Switch | 65 | Lm | | |
| | Total carried to collection page | | | | |
| | pg/004 | | | | |
| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
| | <u>COLLECTION FOR ELECTRICAL WORKS</u> | | | | |
| | Total brought forward from Pg/001 | | | | |
| | Total brought forward from pg/002 | | | | |
| | Total brought forward from pg/003 | | | | |
| | Total brought forward from pg/004 | | | | |
| | TOTAL FOR ELECTRICAL WORKS CARRIED TO GRAND SUMMARY | | | | |

Pg/005

MECHANICAL WORKS

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|-----|------|--------------|----------------|
| | BILL NO.1 | | | | |
| | <u>SANITARY FITTINGS</u> | | | | |
| A | WATER CLOSET (W.C.) SUITE Close coupled WC in white vitreous china , comprising bowl with Horizontal Outlet ; cistern and fitting with total install dual flush 6/4 litre push button; Heavy duty seat and cover No.GP7815WH; Dual Flush push button , 'S' or turned 'P' trap outlet connector. To be as DURAVIT RIMLESS (365X650) or equal and approved. | 4 | No. | | |
| B | GENERAL PURPOSE SQUATING W.C Water closet suite ('S' or P'- trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless cistern fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, inlet connection INo. 15mm Chrome plated angle valve as HANSGROHE 'Angle Valve E' No. 1390200. All to be as Twyford's 'Arabian' water closet or equal and approved. | 6 | No. | | |
| C | DISABLED UNIT Disable toilet suite comprising: WC with horizontal outlet, wash hand basin with no overflow and no chain waste fitting, 3 No. Doc M support rails, Doc M hinged support rail,Doc. M cistern and fittings, Doc. M seat ring, stainless steel seat hinges,As DURAVIT RIMLESS (365X650) or equal and approved. | 2 | No | | |
| D | WASH HAND BASIN- VANITYTOP Drop in Basin (Vanity top) wash hand basin size 635 x 500mm and in white colour, with INo. Taphole and chain stay hole, 32mm chrome plated chain waste INo. Sextended action Lever pillar tap and 32mm diameter plastic bottle trap with 75mm seal. 2No. 15mm Chrome plated angle valve as HANSGROHE 'Angle Valve E' No. 1390200 As Twyford or approved equivalent. | 41 | No. | | |
| E | STAINLESS STEEL SINK Heavy gauge Stainless steel kitchen sink as FRANKE 'Quinline Q LX 621-120'. Range cat. No. 101.0039.866 overall size 1200 x 500mm and bowl size 343 x 410 x 149mm. Single bowl, single drainer complete with 40mm diameter Chrome plate chain waste and plug, Chrome plated "P" trap and 15mm diameter swivel sprout HANSGROHE FOCUS swivel mixer tap. No. 13815000, INo. 15mm Chrome plated angle valves as HANSGROHE 'Angle Valve E' No. 13902000 Or Equal and approved | 1 | No | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|--|-----|------|--------------|----------------|
| A | SLUICE SINK/SLOP HOPPER Provide and Install a Combined Sluice sink and slop hopper manufactured from stainless steel with a satin polish finish fitted with a plastic cistern of 9L capacity with a 13mm HP brass valve as FRANKE G22025R or E&A. | 2 | No | | |
| B | SHOWER FITTINGS 1.No. Giro Shower Head, 1 No. Kevon Shower Mixer and any other item necessary for installation. Or equal and approved. | 10 | No. | | |
| C | EMERGENCY SHOWER CUBICLE 1No. Shower Tray, 1.No. Giro Shower Head, 1 No. Kevon Shower Mixer complete with privacy cubicle Or equal and approved. | 1 | No. | | |
| D | SPLASH/ HOSE BIB TAPS 15mm diameter chrome plated extended action lever bib taps or equal and approved. | 12 | No. | | |
| E | ARABIC SHOWER TREDEX Arabic Shower, complete with 1 No. 15mm Chrome plated angle valves as HANSGROHE. The Arabic Shower to be as TREDEX B 51010+KH or Equal and Approved. | 12 | No. | | |
| F | TOILET ROLL HOLDER Wall mounted toilet roll holder chrome plated. To be as DURAVIT KARREE No. 009955 or equal and approved. | 12 | No. | | |
| G | SOAP DISH Wall mounted Chrome plated soap dish as DURAVIT "D-CODE" No. 009918 OR equal and approved. | 11 | No. | | |
| H | MIRRORS 600 x 600 x 6mm thick plate glass mirror, similar or equal to Twyford "Bevelled mirror" No.PB 0383 XX. Mirrors shall be installed above all W.H.B's. | 41 | No. | | |
| I | SOAP DISPENSER Wall mounted Soap dispenser as GROHE OR equal and approved. | 41 | No | | |
| J | TOWEL RAIL Wall mounted Chrome plated towel rail as DURAVIT "D-CODE" No. 009923 Or Equal and Approved. | 10 | No | | |
| K | ROBE HOOK DURAVIT KARREE 009721 chrome plated robe hook or Equal and Approved. | 12 | No | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

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MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|-----|------|--------------|----------------|
| | <u>BILL NO.2</u> <u>PLUMBING INSTALLATION</u> General Note:- 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 on walls and Floors for wall chasing and holes cutting by others all as required in the pipework installation. The following in PN 20PPRC conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/Plastic threaded adaptors where required for the connection of sanitary fixtures, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers etc. | | | | |
| | <u>PIPEWORK</u> | | | | |
| A | 32mm diameter pipe | 220 | LM | | |
| B | 25mm diameter pipe | 80 | LM | | |
| | <u>ELBOW</u> | | | | |
| C | 32mm diameter | 46 | No | | |
| D | 25mm diameter | 46 | No | | |
| | <u>TEES</u> | | | | |
| E | 32 x 32 x 32 mm diameter | 24 | No | | |
| F | 32 x 32 x 25 mm diameter | 23 | No | | |
| G | 25 x 25 x 25 mm diameter | 46 | No | | |
| | <u>REDUCERS</u> | | | | |
| H | 32mm-25mm reducers | 23 | No | | |
| I | 25mm-15mm ditto | 91 | No | | |
| | <u>SOCKETS</u> | | | | |
| J | 32mm diameter | 110 | No | | |
| K | 25mm diameter | 40 | No | | |
| | <u>UNIONS</u> | | | | |
| L | 32mm diameter | 55 | No | | |
| M | 25mm diameter | 20 | No | | |
| | <u>FLEXIBLE COPPER CONNECTIONS 15MM DIAMETER</u> | | | | |
| N | There are to be a maximum length of 300 mm each complete with connecting couplers per length. | 55 | No | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|------|------|--------------|----------------|
| A | <u>GATE VALVES</u> 32mm diameter high pressure screw-down full way non-rising stem solid wedge disc gate valve to BS 5154 PN 16 for Series B Rating with wheel head and including jointing to steel tubing. As CRANE Model 156 or equal and approved | 23 | No | | |
| B | <u>MALE/FEMALE THREADED ELBOW</u> 15 mm diameter bend | 55 | No | | |
| C | <u>MALE/FEMALE THREADED ADAPTORS</u> 32mm diameter | 46 | No | | |
| D | <u>BALL VALVES</u> 32mm high pressure Ball Valve as PEGLAR or equal and approved. | 1 | No | | |
| E | <u>NON RETURN VALVES</u> 32mm diameter | 1 | No | | |
| F | <u>TANK TO BE PLACED ON ELEVATED PLATFORM</u> Cylindrical polyethylene cold water storage tanks capacity 10,000 litres. As KENTANK or equal and approved. Complete with 32mm Inlet ball valve, Outlet and 40mm Overflow. | 1 | No. | | |
| G | <u>MAIN BOOSTER PUMP</u> Supply and install PEDROLLO PKM 158 SURFACE pump or equal and approved. Model : PEDROLLO PKM 158 Head : 15M Flow rate : 2.5m³/hr Complete with float switches. Power supply 0.75 kW, 1 phase 240v, 50hz. | 1 | No. | | |
| H | <u>PUMP CONTROLS</u> 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 | | |
| I | <u>STERILIZATION</u> Allow for sterilization including flushing out water and chlorine to the satisfaction of the Engineer. | Item | Sum | | |
| J | <u>TESTING AND COMMISSIONING</u> Test and commission the entire internal water supply to the satisfaction of the Engineer. | Item | Sum | | |
| K | <u>WATER RETICULATION</u> Allow connection of water distribution pipework from the elevated tank to the building. | Item | Sum | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

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MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|--|-----|------|--------------|----------------|
| | <u>BILL NO.3</u> <u>DRAINAGE INSTALLATION</u> Supply, install, test and commission the following complete: General Note. Prices for pipework shall include the cost for couplings, connectors and jointing to fittings appliances etc., and fixing brackets all as required in the pipework installation, together with marking pipe routes on walls and floors for wall chasing and holes cutting by others. Note for U.P.V.C. pipework: All UPVC couplings, branches, tees etc., are to be formed strictly in accordance with the manufacture's instructions. Jointing pipework by "heat formed sockets" etc., shall not be accepted. U.P.V.C. Soil, Waste and Ventilation Pipes and fittings to B.S. No. 5255 <u>PIPEWORK</u> A 40mm waste pipe fixed to wall or wall chase including approved pipe clips or brackets B 50mm – ditto- C UNDERGROUND UPVC PIPEWORK TO BS 4660:1963 GOLDEN BROWN SERIES 100mm soil and waste pipe laid in or under concrete Floor slab or underground D SWEEP BEND 40mm diameter sweep bend E 50mm diameter sweep bend F 100mm long radius bends G SWEEP TEE 40mm diameter sweep tee H TEE WITH ACCESS CAP 50mm access cap I WC CONNECTOR J FLOOR TRAP Floor trap as "Key Terrain" 281.3 trapped Floor gully, 282.6 Floor gully inlet and grating. K VENT PIPES 100mmUPVC L VENT COWL 100mm | | | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|--|-----|------|--------------|----------------|
| A | GULLY TRAP Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm blockwork 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. | 22 | NO | | |
| B | INSPECTION CHAMBER Internal chambers not to exceed 1070 x 910mm and depth not to exceed 2000mm below finished floor or ground level. Wall thickness should be 150mm blockwork and it should have concrete base and rendered concrete benchinching 1:3:6 mix. The cover to be cast iron Grade 'B' medium duty to BS 497 with double seal. | 30 | NO | | |
| | TOTAL CARRIED FORWARD TO COLLECTION BELOW | | | | |
| | <u>COLLECTION PAGE</u> <u>DRAINAGE INSTALLATTION</u> | | | | |
| A | Total B/F from Page DI/1 | | | | |
| B | Total B/F from Above | | | | |
| | TOTAL FOR DRAINAGE INSTALLATION CARRIED FORWARD TO SUMMARY PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|--|-----|------|--------------|----------------|
| | BILL NO.4 <u>BIO-DIGESTER (6-Cubic Metres)</u> | | | | |
| | <u>SITE CLEARANCE</u> | | | | |
| A | Clear site for sewage treatment works of all bushes, scrub, weeds, small trees grass and the like and dispose as directed by the PM small trees grass and the like and dispose as directed by the PM | SM | 34 | | |
| | <u>EXCAVATIONS</u> | | | | |
| B | Excavate pit for septic tank starting from ground level not exceeding 1.5m deep backfill around the septic tank after construction and dispose surplus material as directed by the PM | CM | 24 | | |
| C | Excavate pit for septic tank starting from excavated level exceeding 1.5m and not exceeding 3.0m deep, backfill around the septic tank after construction and dispose surplus material as directed by the PM | CM | 24 | | |
| | <u>CONSTRUCTION</u> | | | | |
| D | Provide, lay and vibrate 50mm thick concrete class Q (1:3:6) blinding | SM | 20 | | |
| E | Provide place and vibrate 150mm thick reinforced concrete class 20(20)1:2:4 in concrete bed | SM | 20 | | |
| | <u>Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.</u> | | | | |
| F | 200mm Thick walling | SM | 38 | | |
| G | Ditto 140mm thick - ditto | SM | 6 | | |
| H | Provide place and vibrate 100mm thick reinforced concrete class Q(1:3:6) in baffle wall reinforced with. | SM | 9 | | |
| I | Provide place and vibrate 120mm thick reinforced concrete slab class 20(20)1:2:4 in concrete bed | SM | 20 | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|------|------|--------------|----------------|
| | <u>REINFORCEMENT</u> | | | | |
| A | <u>Provide, cut, bend and fix in concrete ribbed reinforcing bar including all necessary tying wire, spacer blocks, and the like</u> 12mm dia ms ditto | KG | 401 | | |
| B | Ditto 8mm dia ditto | KG | 166 | | |
| C | Provide and place in concrete BRC mesh No. 65 reinforcement or equivalent, including all necessary tying wire, spacer blocks, laps and the like | SM | 6 | | |
| | <u>Formwork</u> | | | | |
| D | Provide and fix sawn timber formwork to edges of bed between 150 and 225mm high | LM | 25 | | |
| E | Ditto to edge of suspended slab between 75 and 100mm high | SM | 20 | | |
| F | Provide and fix sawn timber forwork to sides of walls | SM | 19 | | |
| | <u>FINISHES</u> | | | | |
| G | Provide materials and apply 12mm rendering (1:1) to walls both internally and externally | SM | 88 | | |
| H | Provide and apply 25mm thick screed (1:3) to slab (top & bottom) | SM | 40 | | |
| I | Provide and fix 600x450 medium duty manhole cover and frame to detail (50)5313 type 'B' | NO | 2 | | |
| J | Allow for provision and connection of PVC pipes 4" dia.with fittings to MOW general specifications & to the satisfaction of the PM | ITEM | SUM | | |
| K | Allow for testing of the whole of the foul drainage by watertest to MOW general specifications to the satisfaction of the PM | ITEM | SUM | | |
| | TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|--|--|-----|------|--------------|----------------|
| A | <u>SOAKPITS</u> <u>SITE CLEARANCE</u> Clear site of all bushes, shrubs, small trees, grass and the like and dispose as directed | SM | 23 | | |
| B | <u>CONSTRUCTION</u> Excavate for soakpit starting from ground level not exceeding 1.5m backfill after constructing soakpit and dispose excess material as directed by the PM | CM | 2 | | |
| C | Excavate for soakpit as before described but exceeding 1.5m and not exceeding 3.0m deep | CM | 2 | | |
| D | Ditto exceeding 3.0m and not exceeding 4.5m deep | CM | 2 | | |
| E | Provide materials and erect soakpit of 1.2m internal diameter with 150mm thick walling and 100mm thick concrete 1:3:6 base and 100mm thick RC slab and 600x450mm medium duty MH cover and frame and 200mm dia stone fill and all necessary formwork all to detail (50)5345 | NO | 1 | | |
| F | <u>GRASSING</u> Provide manure and mix with vegetable soil 150mm deep to soakage area and plant approved grass runners to MOW general specifications and maintain until well established SM 24 | SM | 24 | | |
| TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

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MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|---|--|-----|------|--------------|----------------|
| | <p><u>BILL NO.5</u></p> <p><u>FIRE FIGHTING</u></p> <p>Supply and install the following fire fighting equipment and fittings as described and shown on the drawings.</p> <p><u>PORTABLE FIRE EXTINGUISHER</u></p> | | | | |
| A | 9 litre Dry Powder fire extinguisher complete with wall fixing brackets complying with B.S 5423 | 4 | NO | | |
| B | 4.5kg carbon dioxide gas extinguisher complete with wall fixing brackets complying with B.S 5423 | 4 | NO | | |
| C | Fire exit signage | 4 | NO | | |
| D | Fire action plan signage | 4 | NO | | |
| TOTAL FOR FIRE EXTINGUISHER CARRIED FORWARD TO SUMMARY PAGE | | | | | |

MECHANICAL WORKS BILL OF QUANTITIES FOR THE PROPOSED LABORATORY-MCRH

| ITEM | DESCRIPTION | QTY | UNIT | RATE | AMOUNT |
|------|---|-----|------|------|--------|
| | | | | Kshs | Kshs |
| | <p><u>SUMMARY PAGE</u></p> <p><u>MECHANICAL WORKS</u></p> <p>A Total For Sanitary Fittings B/F from Page SF/3</p> <p>B Total For Plumbing Installation B/F from Page PI/3</p> <p>C Total For Drainage Installation B/F from Page DI/2</p> <p>D Total For Bio-Digester & Soakpits B/F from Page BD/4</p> <p>E Total For Fire-Extinguisher B/F from Page FE/1</p> | | | | |
| | TOTAL FOR MECHANICAL WORKS CARRIED FORWARD TO GRAND SUMMARY | | | | |

UNDERGROUND WATER TANK

UNDERGROUND WATER TANK (50 CUBIC METRES)

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|------|------|--------------|----------------|
| | <u>UNDERGROUND WATER TANK (50 Cu.M)</u> <u>ELEMENT NO. 1 SUBSTRUCTURES</u> <u>(All provisional)</u> | | | | |
| A | Clear site of all grass and small trees not exceeding 600mm girth and cart away or burn arisings. | 76 | SM | | |
| B | Excavate pit (with a diameter not exceeding 7.0m) not exceeding 1.5m deep. | 60 | CM | | |
| C | Ditto depth not limited to 1.5m but not exceeding 2.5m deep. | 40 | CM | | |
| D | Ditto depth not limited to 2.5m but not exceeding 3.5m deep. | 40 | CM | | |
| E | Allow for excavation over all kinds of excavation for excavating | ITEM | SUM | | |
| F | Allow for keeping excavations free from all water by pumping or otherwise. | ITEM | SUM | | |
| G | Ditto for planking and strutting to sides of excavations. | ITEM | SUM | | |
| | <u>Disposal</u> | | | | |
| H | Return fill and ram selected excavated material around foundations. | 53 | CM | | |
| I | Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area. | 51 | CM | | |
| | <u>Imported filling</u> | | | | |
| J | 300mm thick (average) approved broken quarry stone hardcore filling in two equal layers well compacted. | 25 | SM | | |
| K | 50mm thick stone dust blinding to surfaces of hardcore | 25 | SM | | |
| | <u>50mm thick plain concrete(1:4:8 class 15/20mm)blinding to:</u> | | | | |
| L | Foundation base | 25 | SM | | |
| | <u>Sawn formwork to:</u> | | | | |
| M | Edges of ground floor bed exceeding 150mm but not exceeding 300mm girth. | 17 | LM | | |
| | <u>Anti-termite treatment</u> | | | | |
| N | 'Dragnet' or other equal and approved anti termite insecticide treatment to blinded hardcore surfaces applied in accordance with manufacturer's instructions. | 25 | SM | | |
| | <u>Damp proof membrane</u> | | | | |
| O | 1000 gauge polythene sheering laid under concrete floor bed. | 25 | SM | | |
| | TOTAL FOR SUBSTRUCTURE CARRIED FORWARD TO SUMMARY PAGE UT/4 | | | | |

UNDERGROUND WATER TANK (50 CUBIC METRES)

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|--|--|-----|------|--------------|----------------|
| | <u>ELEMENT NO.2 REINFORCEMENT</u> (All provisional) <u>High tensile square twisted bars BS 4461 as described in:</u> | | | | |
| A | 8mm diameter bars | 100 | KG | | |
| B | 10mm ditto | 400 | KG | | |
| C | 12mm ditto | 400 | KG | | |
| | <u>Vibrated reinforced concrete class 25 in</u> | | | | |
| D | 300mm thick raft foundation slab | 25 | SM | | |
| E | 150mm thick suspended slab with one opening size 600x600mm and 450mm deep cross / ring beams. | 25 | SM | | |
| F | 250mm thick closing lid | 1 | SM | | |
| G | 50mm thick mastic asphalt waterproofing or equivalent to structural engineer's specifications. | 38 | SM | | |
| | <u>Sawn formwork to:</u> | | | | |
| H | Soffits of suspended slab | 25 | SM | | |
| I | Edges of suspended slab exceeding 75mm but not exceeding 150mm girth. | 17 | LM | | |
| J | Soffits of lid | 1 | SM | | |
| K | Vertical sides of closing lid. | 3 | LM | | |
| TOTAL FOR REINFORCEMENT CARRIED FORWARD TO SUMMARY PAGE UT/4 | | | | | |

UNDERGROUND WATER TANK (50 CUBIC METRES)

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|--|---|-----|------|--------------|----------------|
| A | <p>WALLING <u>Natural stone walling in cement mortar (1:3)</u> 200mm thick masonry circular wall of internal diameter of 5.0m(16feets) and height of 3.0m(10feets) between ground raft slab and soffit to ring/cross beams to suspended slab with 20mm thick mortar joints with 2No. Well spaced Y10 high tensile square twisted bars at every course.</p> | 50 | SM | | |
| B | <p><u>Floor Finishes</u> 32mm thick cement and sand (1:4) bedding screed steel floated.</p> | 25 | SM | | |
| C | <p><u>Wall Finishes</u> 12mm thick cement and sand plaster 1:4 steel trowelled.</p> | 54 | SM | | |
| D | <p><u>Ceiling Finishes</u> 12mm thick cement and sand (1:4) plaster steel trowelled to soffits of suspended slab and cross/ring beams.</p> | 28 | SM | | |
| E | <p>32mm thick cement and sand (1:4) screed to top of suspended slab.</p> | 25 | SM | | |
| TOTAL FOR WALLING CARRIED FORWARD TO SUMMARY PAGE UT/4 | | | | | |

UNDERGROUND WATER TANK (50 CUBIC METRES)

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|--|-----|------|--------------|----------------|
| | <p style="text-align: center;"><u>SUMMARY PAGE</u></p> <p><u>UNDERGROUND WATER TANK (50 Cu.M)</u></p> <p>A Total For Substructure B/F from Page UT/1</p> <p>B Total For Reinforcement B/F from Page UT/2</p> <p>C Total For Walling B/F from Page UT/3</p> | | | | |
| | TOTAL FOR UNDERGROUND WATER TANK CARRIED FORWARD TO GRAND SUMMARY PAGE | | | | |

RC ELEVATED WATER TOWER

RC ELEVATED WATER TOWER

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|--|---|------|------|--------------|----------------|
| | <u>RC WATER TOWER</u> | | | | |
| | <u>ELEMENT NO. 1 SUBSTRUCTURES</u> (All provisional) <u>Note:</u> All work measured under this element is upto and including the floor slabs but excluding the finishes thereon: - | | | | |
| | <u>SITE CLEARANCE:</u> | | | | |
| A | Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising. | 50 | SM | | |
| B | Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 100m | 50 | SM | | |
| C | Excavate pit for column bases not exceeding 1.5m deep commencing from ground level. | 50 | CM | | |
| D | Extra over excavations for excavating on rock(class 1) | ITEM | SUM | | |
| E | Allow for keeping excavations free from mud and all water including spring and running water by pumping, pailing or other approved means. | ITEM | SUM | | |
| F | Allow for planking and strutting to sides of excavations. | ITEM | SUM | | |
| | <u>DISPOSAL</u> | | | | |
| G | Load surplus excavated material wheel and deposit onsite not exceeding 100m away. | 9 | CM | | |
| | <u>FILLING:</u> | | | | |
| H | Return, fill and ram selected excavated material around foundations in layers not exceeding 300mm thick. | 41 | CM | | |
| | <u>HARDCORE AS DESCRIBED:</u> | | | | |
| I | Approved hardcore filling including leveling, consolidating and or hand packing in layers 150mm thick. | 7 | CM | | |
| | <u>BLINDING:</u> | | | | |
| J | 50mm thick layer murrum or other equal and approved blinding to the surface of hardcore; roled smooth to receive polythene sheetings (m.s.) | 14 | SM | | |
| | <u>INSECTICIDE TREATMENT</u> | | | | |
| K | 'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions. | 14 | SM | | |
| | <u>REMOVE OF TERMITES NESTS</u> | | | | |
| L | Remove termite's nests by approved means and destroy the termites by applying 'termidor' or other equal and approved chemicals as per the manufacturers printed instructions. | ITEM | SUM | | |
| TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | | |

RC ELEVATED WATER TOWER

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|--|---|-----|------|--------------|----------------|
| A | DAMP PROOF MEMBRANE 500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps) | 18 | SM | | |
| B | IN-SITU CONCRETE WORK <u>MASS CONCRETE (1:4:8/38-38mm AGGREGATE)</u> 50mm thick blinding under foundations | 21 | SM | | |
| C | <u>VIBRATED REINFORCED CONCRETE (1:11/2:3/25-20MM)MACHINE CUT AGGREGATE AS DESCRIBED IN:-</u> Strip foundations | 2 | SM | | |
| D | Columns and bases | 6 | CM | | |
| E | 150mm thick ground slab (1:2:4) (Note: Include cost of importing machine cut ballast as specified above) | 18 | SM | | |
| F | STEEL REINFORCEMENT: SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED. HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461 Y16mm diameter | 585 | KGS | | |
| G | Y12mm diameter | 61 | KGS | | |
| H | Y8mm diameter | 54 | KGS | | |
| I | <u>MESH REINFORCEMENT</u> Fabric mesh reinforcement to B.S. 4484 ref. A142 including laps trying wire and spacer blocks complete (measure net allow for lap) | 18 | SM | | |
| J | <u>SAWN FORMWORK AS DESCRIBED TO:</u> Edges of floor slabs 75 - 150mm high | 17 | LM | | |
| K | Sides of columns | 8 | SM | | |
| L | <u>FOUNDATION WALLING</u> 200mm thick rough chiseled natural stone walling bedded and joined in cement and sand (1:3) mortar and reinforced with and including 20 Gauge 25mm wide hoop iron in every alternate course. | 20 | SM | | |
| M | <u>PLINTH AREA FINISHES</u> 20mm thick cement and sand (1:3) wood float render to plinth area. | 6 | SM | | |
| N | Prepare and apply three coats black bitumastic paints to rendered area. | 6 | SM | | |
| O | <u>PAVING SLABS</u> 600mmx 600mmx50mm thick precast concrete paving slabs laid on compacted murrum and pointed in cement and sand (1:3) mortar 1200mm wide. | 26 | SM | | |
| TOTAL CARRIED FORWARD TO COLLECTION PAGE | | | | | |

RC ELEVATED WATER TOWER

[illegible]

RC ELEVATED WATER TOWER

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|--|--|-----|------|--------------|----------------|
| | ELEMENT NO. 02 <u>R.C. FRAME(SUPERSTRUCTURE)</u> Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:- <u>R.C Columns</u> | | | | |
| A | Ring Beams and bracing beams | 3 | CM | | |
| B | 150mm thick suspended floor slab | 6 | CM | | |
| C | Steel reinforcement <u>Supply and Fix steel bar/rod reinforcement including bending hooks, trying wire cutting, spacer blocks, stools and supporting all in position.</u> | 29 | SM | | |
| D | <u>High Tensile square twisted bars to B.S. 4461 as described in:-</u> Y16mm diameter | 740 | KG | | |
| E | Y12mm diameter | 442 | KG | | |
| F | Y10mm diameter | 118 | KG | | |
| G | Y8mm diameter <u>Sawn Form Works as described to:-</u> | 171 | KG | | |
| H | Sides and soffits of ring beams | 60 | SM | | |
| I | Sides of columns | 41 | SM | | |
| J | Suspended floor slab | 30 | SM | | |
| TOTAL FOR SUPERSTRUCTURE CARRIED FORWARD TO SUMMARY PAGE | | | | | |

RC ELEVATED WATER TOWER

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|--|-----|------|--------------|----------------|
| | <u>ELEMENT NO. 03</u> <u>ROOFING</u> <u>ALL TIIMBER TO BE SAWN CYPRESS SEASONED TO AN EQUILLIBRIUM</u> <u>MOISTURE CONTENT OF BETWEEN 9% AND 15% AND TO THE</u> <u>REQUIREMENT OF K.S. 02771 OF 1991 TREATED WITH APPROVED</u> <u>WOOD PRESENTATIVE.</u> | | | | |
| A | 100 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured, on reinforced concrete ring beams (m.s) by mild steel anchor bolts (m.s) <u>THE FOLLOWING IN NAILED TIMBER TRUSSES INCLUDING HOISTING AND PLACING 3000MM ABOVE FLOOR SLAB LEVEL</u> | 17 | LM | | |
| B | 100x 50mm rafters. | 51 | LM | | |
| C | 100x 50mm tie beams | 37 | LM | | |
| D | 100x 50mm strut/ties. | 32 | LM | | |
| | <u>INDEPENDENT MEMBERS</u> | | | | |
| E | 75 x 50mm purlins | 41 | LM | | |
| | <u>ROOF COVERING</u> | | | | |
| F | Prepainted Gauge 28ITBP760 Profiled sheets cover fixed on timber purlins(M.S) | 30 | SM | | |
| H | Gauge 28 ridge cap or hip cover to match covering. | 13 | LM | | |
| | <u>W/ROT CYPRESS</u> | | | | |
| I | 25 x 225mm fascia board fixed to end of rafters (m.s) | 20 | LM | | |
| | <u>SUNDRIES</u> | | | | |
| J | 12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber complete with bolts washers. | 12 | NO | | |
| K | 100 x 100 x 6mm thick galvanized mild steel nailing cleat once bent to form angle ten times drilling; one flange nailed to foot of rafter (m.s) other nailed to top of wall plate (m.s) | 6 | NO | | |
| | <u>PAINTING</u> <u>PRIME ONLY BACK OF WOOD BEFORE FIXING</u> | | | | |
| L | Surface 100 – 200mm girth. | 17 | LM | | |
| | <u>KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:</u> | | | | |
| M | General surface of wood 200 – 300 mm girth. | 20 | LM | | |
| | <u>TOTAL FOR ROOFING CARRIED FORWARD TO SUMMARY PAGE</u> | | | | |

RC ELEVATED WATER TOWER

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|-----|------|--------------|----------------|
| | <u>ELEMENT NO. 04</u> <u>FINISHES</u> <u>Floor Finishes</u> <u>Cement and sand (1:4) screed as described:-</u> | | | | |
| A | 20mm thick wood float finishes to concrete slabs. | 70 | SM | | |
| | <u>Columns & beams finishes</u> <u>Two coats gauged cement lime and sand (1:2:9) plaster steel trowelled smooth</u> | | | | |
| B | 20mm render in cement /sand (1:3) to columns and concrete beams externally. | 111 | SM | | |
| | <u>Ceiling finishes</u> <u>Lining</u> | | | | |
| C | 12mm thick celotex ceiling on branderling (m.s) and set in systematic V-joints. | 26 | SM | | |
| D | Extra over for trap doors size 800 x 800mm complete | 1 | NO | | |
| | <u>Sawn Cypress</u> | | | | |
| E | 75 x50mm branderling plugged | 22 | LM | | |
| F | 50 x 50mm branderling | 68 | LM | | |
| | <u>Steel grilles(steel hollow sections)</u> | | | | |
| G | Safety grilles fabricated in 40 x 25mm main frame comprising of two horizontal members and 950mm vertical members at 1000mm centres firmly fixed to concrete at bottom and twice to 150 x 150mm columns and 25 x 25mm balusters of approved design. | 16 | SM | | |
| H | Supply and fix steel ladder size 6000 x 600 x 600mm of approved design. | 1 | NO | | |
| | <u>Wrot Cypress</u> | | | | |
| I | 12 x 100mm curved cornice plugged | 40 | LM | | |
| | <u>Painting</u> <u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to:-</u> | | | | |
| J | Timber; surface not exceeding 100mm girth | 22 | LM | | |
| | <u>Knot prime stop and prepare and apply one undercoat and two finishing coats gloss oil Crown paints to:-</u> | | | | |
| K | General surfaces of wood not exceeding 100mm girth | 40 | LM | | |
| | <u>Paint and Decoration</u> <u>Prepared and apply one undercoat and three coats 'crown' or other approved plastic emulsion paint to:-</u> | | | | |
| L | Plastered surfaces internally | 181 | SM | | |
| M | Ditto oil paint to metal grilles both sides | 32 | SM | | |
| | <u>Prepared and apply three coats of washable distemper paints to:-</u> | | | | |
| N | Celotex lining internally | 26 | SM | | |
| | TOTAL FOR FINISHES CARRIED FORWARD TO SUMMARY PAGE | | | | |

RC ELEVATED WATER TOWER

| ITEM | DESCRIPTION | QTY | UNIT | RATE Kshs | AMOUNT Kshs |
|------|---|-----|------|--------------|----------------|
| | <p><u>SUMMARY PAGE</u></p> <p><u>RC. ELEVATED WATER TOWER</u></p> <p>A Total For Substructure B/F from Page ET/3</p> <p>B Total For Superstructutre B/F from Page ET/4</p> <p>C Total For Roofing B/F from Page ET/5</p> <p>D Total For Finishes B/F from Page ET/6</p> | | | | |
| | TOTAL FOR RC ELEVATED WATER TOWER CARRIED FORWARD TO GRAND SUMMARY PAGE | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | <u>ELEMENT NO. 01</u> | | | | |
| | <u>SUBSTRUCTURES (ALL PROVISIONAL)</u> | | | | |
| | GROUNDWORKS | | | | |
| | Site Preparations | | | | |
| A | Clear site of all shrubs, grass, undergrowth and the like and burn arisings on site | SM | 42 | | |
| | <u>Excavations</u> | | | | |
| B | Excavate pit for column bases depth not exceeding 1.50m commencing from reduced levels. | CM | 11 | | |
| C | Excavate trench for strip footings depth not exceeding 1.50m commencing from reduced levels. | CM | 90 | | |
| D | Extra over excavations for excavation in rock | CM | 10 | | |
| | <u>MAINTENANCE OF EXCAVATIONS</u> | | | | |
| E | Allow for maintaining sides of all excavations by plankin and strutting or other means as required. Additional works caused by the collapse of excavations through inadequate planking and strutting or removal of ground or rain water from excavations will be at the Contractors expense. | Item | | | |
| F | Allow for keeping the excavations and works free from all water, including spring, storm and any other running water, by pumping or other means as required. | Item | | | |
| | <u>DISPOSAL OF EXCAVATED MATERIAL</u> | | | | |
| G | Return, fill and ram selected excavated material around foundations or to make up levels : compact in layers not exceeding 150mm thick | CM | 89 | | |
| H | Load and cart away surplus excavated material from site to dump site approved by local authority | CM | 12 | | |
| | CARRIED TO COLLECTION PAGE | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | <u>SOIL AND hardcore FILLINGS</u> | | | | |
| A | 300mm Thick approved imported hardcore fill material in raising levels handpacked, well rammed, watered and well compacted in 150mm layers all to Engineer's direction and satisfaction. | SM | 40 | | |
| B | 50mm Thick murrum blinding to surfaces of hardcore | SM | 40 | | |
| | <u>ANTI - TERMITE TREATMENT</u> | | | | |
| C | Gladiator or equal and approved chemical anti termite treatment executed complete by an approved specialist under a ten (10) year guarantee to bases of excavations applied at a rate of 7 litres per square metre | SM | 42 | | |
| | <u>DAMP PROOF MEMBRANE</u> | | | | |
| D | 1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net no allowance made for laps) | SM | 42 | | |
| | <u>BRC FABRIC MESH REINFORCEMENT</u> | | | | |
| E | Steel wire fabric mesh reinforcement to B.S 4483 (Ref:A142 weighing 2.22kg/m2) in concrete bed or wall (measured net-no allowance made for minimum of 225mm laps) including tying and supporting as required | SM | 42 | | |
| | <u>CONCRETE</u> | | | | |
| | <u>PLAIN MASS CONCRETE (CLASS 15)</u> | | | | |
| F | 50mm Thick blinding under column bases | SM | 9 | | |
| G | Ditto under strip footings | SM | 13 | | |
| | <u>VIBRATED REINFORCED CONCRETE (CLASS 25)</u> | | | | |
| H | Column bases | CM | 2 | | |
| I | Column | CM | 1 | | |
| | CARRIED TO COLLECTION PAGE | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| A | Strip footings | CM | 3 | | |
| B | 100mm Thick floor slab laid on damp proof membrane (measured separately) in bays not exceeding 36 square metres including formwork to edge of bays | SM | 42 | | |
| | <u>REINFORCEMENT</u> | | | | |
| | <u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u> | | | | |
| C | 10mm Bars | Kg | 110 | | |
| D | 8mm Bars | Kg | 75 | | |
| | <u>SAWN TIMBER FORMWORK</u> | | | | |
| E | Vertical sides of column bases | SM | 6 | | |
| F | Vertical sides of columns | SM | 9 | | |
| G | Vertical sides of strip footings | SM | 9 | | |
| H | Edges of ground floor slab height exceeding 75mm but not exceeding 150mm | Lm | 22 | | |
| | <u>FOUNDATION WALLING</u> | | | | |
| | <u>Approved quarry hand dressed natural stone foundation wall bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u> | | | | |
| I | 200mm Thick foundation walls | SM | 28 | | |
| | <u>PLINTH TREATMENT</u> | | | | |
| J | 12mm thick cement/sand (1:4) render to plinth | SM | 11 | | |
| K | Prepare and apply three coats black Bituminous paint on rendered plinth | SM | 11 | | |
| | <u>EXPANSION JOINTS</u> | | | | |
| L | 25mm Thick 'Flexcell' or other equal and approved expansion joint filler with 10 year guarantee including all necessary formwork | SM | 4 | | |
| | CARRIED TO COLLECTION PAGE | | | | |
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| Bill No. 11 | Department of Ma |
| Guard House | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | <u>ELEMENT NO. 02</u> | | | | |
| | <u>REINFORCED CONCRETE FRAME</u> | | | | |
| | <u>CONCRETE</u> | | | | |
| | <u>VIBRATED REINFORCED CONCRETE (CLASS 25)</u> | | | | |
| A | Columns | CM | 2 | | |
| B | Beams | CM | 2 | | |
| B | 150mm Thick suspended slab | CM | 42 | | |
| | <u>REINFORCEMENT</u> | | | | |
| | <u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u> | | | | |
| C | 10mm Bars | Kg | 122 | | |
| D | 12mm Bars | Kg | 91 | | |
| | <u>FORMWORK</u> | | | | |
| E | Vertical sides of columns | SM | 22 | | |
| F | Vertical sides and soffits of beams | SM | 18 | | |
| | CARRIED TO SUMMARY | | | | |
| | BILL NO. II | | | | |
| | ELEMENT NO. 02 | | | | |
| | REINFORCED CONCRETE FRAME | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|------------------------|---|------|----------|-------------|---------------|
| A | ELEMENT NO. 03 | | | | |
| | SUPERSTRUCTURE WALLING | | | | |
| | DAMP PROOF COURSES | | | | |
| | Approved horizontal damp proof course to B.S. 743 laid under walling (measured net - no allowance made for laps) including leveling bed | | | | |
| | 200mm Wide | LM | 22 | | |
| | WALLING | | | | |
| | EXTERNAL WALLING | | | | |
| | Machine cut Ngong blue stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron | | | | |
| | 200mm Thick wall | SM | 87 | | |
| | INTERNAL WALLING | | | | |
| B | Machine cut Ngong blue stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron | | | | |
| | 200mm Thick wall | SM | - | | |
| C | PRECAST CONCRETE LOUVER BLOCKS | | | | |
| | 200mm thick walling | SM | 1 | | |
| CARRIED TO SUMMARY | | | | | |
| BILL NO. II | | | | | |
| ELEMENT NO. 03 | | | | | |
| SUPERSTRUCTURE WALLING | | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| | <u>ELEMENT NO. 04</u> | | | | |
| | <u>ROOF STRUCTURE, COVERING & RAINWATER GOODS</u> | | | | |
| | <u>WATERPROOFING</u> | | | | |
| | <u>Sika 1 or other equal and approved waterproofing compound; to B.S 6920; Applied in strict accordance with the Manufacturer's printed instructions; at the minimum rate of 9 litres per cubic metres ; including issuing a Twenty (20) year guarantee</u> | | | | |
| A | Applied to suspended roof slabs | Lm | 42 | | |
| | <u>RAIN WATER GOODS (ALL PROVISIONAL)</u> | | | | |
| H | 150mm diameter UPVC gutter fixed to fascia board with all it's necessary parts. | Lm | 22 | | |
| I | 100mm diameter UPVC down pipe in duct or fixed to wall with and including approved holderbats at 1200mm centres | Lm | 8 | | |
| J | Exta over down pipe for swan neck | No. | 2 | | |
| K | Ditto horse shoe | No. | 2 | | |
| L | Ditto bend | No. | 2 | | |
| | <u>ROOF FINISHING</u> | | | | |
| | <u>The following in eaves boarding</u> | | | | |
| M | 15mm concrete molding to facia; to Architects approvals | Lm | 22 | | |
| N | 100 x 25mm Tongued and grooved wrot cyprss or any other equal and approved softwood boarding nailed to brandering (measured separately) | SM | 318 | | |
| O | 25 x 300mm Wrot, treated cyprss fascia or barge board | Lm | 119 | | |
| | <u>Knot, prime and stop, prepare and apply one undercoats and two finishing coats "Crown Solo" or any other equal and approved gloss paint on wood work</u> | | | | |
| P | General surfaces of woodwork | SM | 318 | | |
| Q | Surfaces girth exceeding 200mm but not exceeding 300mm | Lm | 119 | | |
| | CARRIED TO SUMMARY | | | | |
| | BILL NO. II | | | | |
| | ELEMENT NO. 04 | | | | |
| | ROOF STRUCTURE, COVERING & RAINWATER GOODS | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| | <u>ELEMENT NO. 5</u> | | | | |
| | <u>WINDOWS</u> | | | | |
| | WINDOW CILLS | | | | |
| A | 250 x 75mm Thick precast concrete (1:2:4) sunk, weathered and throated window cill cast in convenient lengths, reinforced as necessary, bedded, jointed and pointed in gauged mortar and finished smooth on all exposed surfaces, with 10mm drip and with 0.25mm thick polythene DPM. | Lm | 6 | | |
| | WINDOW BOARDS | | | | |
| B | 25 x 6mm Galvanised metal water bar grouted in groove in concrete cill | Lm | 6 | | |
| | <u>MILD STEEL CASEMENT WINDOWS</u> | | | | |
| | <u>Supply, assemble and fix the following purpose made steel casement windows with standard Z-Section including one coat of red oxide primer by the manufacturer, building in lugs to jambs, plugging and screwing to head or cill, bedded all round in cement and sand (1:3) mortar and pointing one side in mastic, and complete with bronze handles ,peg stays and all other necessary ironmongery, and oiling, easing and adjusting all strictly as per Architect's Window Schedule</u> | | | | |
| C | Curved window size 3100mm x 1800mm high ditto | No. | 2 | | |
| D | Window size 1000mm x 1200mm high ditto (W02) | No. | 1 | | |
| E | Window size 1800mm x 1200mm high ditto (W03) | No. | 11 | | |
| | GLAZING | | | | |
| F | 4mm Thick ordinary sheet glass and glazing to metal with putty in panes not exceeding 0.50 square metres | Lm | 11 | | |
| | CARRIED TO COLLECTION PAGE | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------------------------|--|------|----------|-------------|---------------|
| A | <u>BURGLARPROOFING GRILLS</u> | | | | |
| | Approved mild steel Burglar proofing grilles: in 25mm CHS spaces at 150mm both sides; complete with all necessary framework in 50mm CHS; with & including building in lugs to jambs, plugging and screwing to head or sill, bedded all round in cement and sand (1:3) mortar ; complete with making good disturbed surfaces ; all to Architectural details | SM | 11 | | |
| | <u>FINISHING</u> <u>Prepare stain to approval with timber guard and apply three coats matt "Crown Tuffseal" or other equal and approved polyurethane varnish to woodwork to be executed by an approved sub-contractor</u> | | | | |
| B | Timber surfaces exceeding 100mm but not exceeding 200mm girth | Lm | 6 | | |
| C | Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal windows | SM | 22 | | |
| CARRIED TO COLLECTION PAGE | | | | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| | ELEMENT NO. 06 | | | | |
| | DOORS | | | | |
| | STEEL DOORS | | | | |
| A | Supply, assemble and fix the following purpose made standard section steel doors complete with frames to comply to B.S.990,obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with, hinges, handles, catches, heavy duty tower bolts and building in lugs to concrete or masonry jambs or heads. | | | | |
| B | Single leaf door overall size 1000mm x 2100 mm | NO | 1 | | |
| C | Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal doors | SM | 2 | | |
| | CARRIED TO SUMMARY | | | | |
| | BILL NO. II ELEMENT NO. 06 DOORS | | | | |

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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| | <u>ELEMENT NO. 8</u> | | | | |
| | <u>BUILDER'S WORK IN CONNECTION (BWIC) WITH SERVICES</u> | | | | |
| | <u>Plumbing, Drainage and Mechanical Installations</u> | | | | |
| A | Inspect all drawings and Bills of Quantities for Plumbing, Drainage and Mechanical Installations and allow for all Builder's work associated with the installations; including cutting away and making good after installing a concealed drainage system; including cutting or leaving all holes notches, mortices, sinkings and chases in both the structure and its coverings; including but not limited to forming recess in masonry | ITEM | | | |
| | Electrical Services Installations | | | | |
| B | Inspect all drawings and Bills of Quantities for Electrical Installations and allow for all Builder's work associated with the Electrical installations, including cutting away for and making good after Electrician installing a concealed conduit system including cutting or leaving all holes notches, mortices, sinkings and chases in both the structure and its coverings; including but not limited to forming recess in masonry | ITEM | | | |
| | CARRIED TO SUMMARY | | | | |
| | BILL NO. II ELEMENT NO. 08 BUILDER'S WORK IN CONNECTION WITH SERVICES | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|------------------------------------|--|------|----------|-------------|---------------|
| BILL NO. II | | | | | |
| MAIN WORKS SUMMARY | | | | | |
| Item No. | ELEMENT NO. | | PG No. | | Amount |
| 1 | SUBSTRUCTURES | | GH04 | | |
| 2 | REINFORCED CONCRETE SUPERSTRUCTURES | | GH05 | | |
| 3 | WALLING | | GH06 | | |
| 4 | ROOFING AND RAINWATER DISPOSAL | | GH07 | | |
| 5 | WINDOWS | | GH12 | | |
| 6 | DOORS | | GH15 | | |
| 7 | FINISHES | | GH18 | | |
| 8 | BUILDER'S WORK IN CONNECTION WITH SERVICES | | GH19 | | |
| | CARRIED TO GRAND SUMMARY | | | KES | |
| BILL NO. II GUARD HOUSE | | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | NATURAL STONE AND MILD STEEL FENCE | | | | |
| | Site Preparations | | | | |
| A | Clear site of all shrubs, grass, undergrowth and the like and burn arisings on site | SM | 116 | | |
| B | Excavate trench for strip footings depth not exceeding 1.50m commencing from reduced levels. | | 58 | | |
| C | Excavate pit for bases depth not exceeding 1.50m commencing from reduced levels. | | 37 | | |
| | <u>DISPOSAL OF EXCAVATED MATERIAL</u> | | | | |
| D | Return, fill and ram selected excavated material around foundations or to make up levels : compact in layers not exceeding 150mm thick | CM | 105 | | |
| E | Load and cart away surplus excavated material from site to dump site approved by local authority | CM | 70 | | |
| | <u>CONCRETE</u> | | | | |
| | <u>PLAIN MASS CONCRETE (CLASS 15)</u> | | | | |
| F | 50mm Thick blinding under column bases | SM | 37 | | |
| G | Ditto under strip footings | SM | 58 | | |
| | <u>VIBRATED REINFORCED CONCRETE (CLASS 25)</u> | | | | |
| H | Column bases | CM | 7 | | |
| I | Column | CM | 3 | | |
| | <u>REINFORCEMENT</u> | | | | |
| | <u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u> | | | | |
| J | 10mm Bars | Kg | 410 | | |
| K | 8mm Bars | Kg | 192 | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| | <u>SAWN TIMBER FORMWORK</u> | | | | |
| A | Vertical sides of column bases | SM | 25 | | |
| B | Vertical sides of columns | SM | 39 | | |
| C | Vertical sides of strip footings | SM | 39 | | |
| | <u>WALLING</u> | | | | |
| | <u>Approved quarry hand dressed natural stone foundation wall bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u> | | | | |
| D | Foundation; 200mm Thick foundation walls | SM | 49 | | |
| E | Superstructure; 200mm Thick foundation walls | SM | 146 | | |
| | <u>PLINTH TREATMENT</u> | | | | |
| F | 12mm thick cement/sand (1:4) render to plinth | SM | 29 | | |
| G | Prepare and apply three coats black Bituminous paint on rendered plinth | SM | 29 | | |
| | <u>EXPANSION JOINTS</u> | | | | |
| H | 25mm Thick 'Flexcell' or other equal and approved expansion joint filler with 10 year guarantee including all necessary formwork | SM | 19 | | |
| | <u>COPING</u> | | | | |
| I | 75 x 250 mm Saddle back coping stone weathered and throated both sides | lm | 81 | | |
| J | 75 x 550 mm Saddle back coping stone weathered and throated both sides | lm | 31 | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|---|------|----------|-------------|---------------|
| | NATURAL STONE AND MILD STEEL FENCE | | | | |
| | COLLECTION PAGE | | PAGE | | |
| | FENCE | | | | |
| | Total brought forward from page | | GH1 | | |
| | Total brought forward from page | | GH2 | | |
| | Total brought forward from page | | GH3 | | |
| | CARRIED TO SUMMARY | | | | |
| | BILL NO. II NATURAL STONE AND MILD STEEL FENCE | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | MAIN ENTRANCE GATE AND SHEAR WALL PORCH | | | | |
| | Site Preparations | | | | |
| A | Clear site of all shrubs, grass, undergrowth and the like and burn arisings on site | SM | 22 | | |
| | Excavate pit for bases depth not exceeding 1.50m | | 13 | | |
| B | commencing from reduced levels. | | | | |
| | <u>DISPOSAL OF EXCAVATED MATERIAL</u> | | | | |
| C | Return, fill and ram selected excavated material around foundations or to make up levels : compact in layers not exceeding 150mm thick | CM | 8 | | |
| D | Load and cart away surplus excavated material from site to dump site approved by local authority | CM | 27 | | |
| | <u>CONCRETE</u> | | | | |
| | <u>PLAIN MASS CONCRETE (CLASS 15)</u> | | | | |
| E | 50mm Thick blinding under bases | SM | 26 | | |
| | <u>VIBRATED REINFORCED CONCRETE (CLASS 25)</u> | | | | |
| G | Column bases | CM | 5 | | |
| H | Beams | CM | 6 | | |
| H | 200mm Thick shear wall; substructure | SM | 13 | | |
| H | 200mm Thick shear wall; superstructure | SM | 132 | | |
| H | 100mm Thick suspended slab | CM | 165 | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|-----------------------------------|---|------|----------|-------------|---------------|
| REINFORCEMENT | | | | | |
| | <u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u> | | 5150 | | |
| A | 20mm Bars | Kg | 4,150 | | |
| B | 18mm Bars | kg | 3,830 | | |
| | 12MM BARS | | | | |
| SAWN TIMBER FORMWORK | | | | | |
| C | Vertical sides of bases | SM | 26 | | |
| D | Vertical sides of shear wall | SM | 264 | | |
| E | Vertical sides of strip footings | SM | 41 | | |
| F | Vertical sides of beams | SM | 76 | | |
| G | Soffits of suspended slabs | SM | 65 | | |
| H | edgess of suspended slabs n.e 175mm | Lm | 51 | | |
| WALLING | | | | | |
| | <u>Approved hollow block wall bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u> | | | | |
| I | 200mm Thick hollow block walling | SM | 31 | | |
| PLINTH TREATMENT | | | | | |
| J | 12mm thick cement/sand (1:4) render to plinth | SM | 9 | | |
| K | Prepare and apply three coats black Bituminous paint on rendered plinth | SM | 9 | | |
| EXPANSION JOINTS | | | | | |
| L | 25mm Thick 'Flexcell' or other equal and approved expansion joint filler with 10 year guarantee including all necessary formwork | SM | 4 | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | <u>MOULDING</u> | | | | |
| A | Concrete molding; to Architects approvals | LM | 51 | | |
| B | Mashrabiya; to Architects approvals | SM | 612 | | |
| | <u>SIGNAGE</u> | | | | |
| C | 3D Signage at the Main gate entrance; to Architects Approvals with electricity connection | Item | 1 | | |
| | <u>STEEL DOORS</u> | | | | |
| D | <u>Supply, assemble and fix the following purpose made standard section steel doors complete with frames to comply to B.S.990,obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with, hinges, handles, catches, heavy duty tower bolts and building in lugs to concrete or masonry jambs or heads.</u> | | | | |
| E | Single leaf door overall size 1000mm x 2100 mm | NO | 2 | | |
| F | Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal doors | SM | 4 | | |
| | <u>RENDERS AND PAINTS</u> | | | | |
| | <u>Cement and sand (1:5) external rendering finished with a wood float</u> | | | | |
| G | 12mm Cement and sand (1:5) external rendering finished with a wood float on brick walling or concrete surfaces | SM | 264 | | |
| | <u>FINISHING</u> | | | | |
| H | Prepare and apply one undercoat and three coats of "Crown Solo" or equal and approved Hi Matt Vinyl emulsion paint on plastered concrete surfaces | SM | 264 | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|-----------------------------------|--|------|----------|-------------|---------------|
| A | <u>GATE</u> 5000 x 3000mm high mild steel double gate each leaf comprising 50 x 50 x 3mm thick RHS frame all round, painted 2 mm thick metal sheet welded between 50 x 50 hollow mild steel frame, 25 x 25 x 3mm decorative steel RHS upright bars at 150mm c/c to details infilled with 25mm thick timber including hanging gates to RHS post (m/s) fixed to stone piers with fishtailed holdfast 50 x 6mm quadrant plate at 900mm centre and fixed to ground with fishtailed holderfast bedded in concrete and applying one coat red oxide prime and apply three coats gloss oil paint | No. | 2 | | |
| B | 1200 x 2400mm high single wicket/pedestral gate ditto | No. | 1 | | |
| C | 100 x 100 x 6mm thick mild steel SHS post fixed to stone pier (m/s) | Lm | 32 | | |
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| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|----------|--|------|----------|-------------|---------------|
| | <u>MAIN ENTRANCE GATE AND SHEAR WALL PORCH</u> | | | | |
| | <u>COLLECTION PAGE</u> | | PAGE | | |
| | <u>FENCE</u> | | | | |
| | Total brought forward from page | | GH5 | | |
| | Total brought forward from page | | GH6 | | |
| | Total brought forward from page | | GH7 | | |
| | Total brought forward from page | | GH8 | | |
| | CARRIED TO SUMMARY | | | | |
| | BILL NO. II | | | | |
| | <u>MAIN ENTRANCE GATE AND SHEAR WALL PORCH</u> | | | | |

| Item No. | Description | Unit | Quantity | Rate (Kshs) | Amount (Kshs) |
|--|---|------|---------------|-------------|---------------|
| MAIN WORKS SUMMARY | | | | | |
| Item No. | ELEMENT NO. | | PG No. | | Amount |
| 1 | NATURAL STONE AND MILD STEEL FENCE | | GH04 | | |
| 2 | MAIN ENTRANCE GATE AND SHEAR WALL PORCH | | GH08 | | |
| CARRIED TO GRAND SUMMARY | | | | KES | |
| BILL NO. III FENCE - MAIN ENTRANCE GATE | | | | | |

| Item No. | Description | Unit | Quantity | Rate | Amount |
|----------|---|------|----------|------|--------|
| | <u>ELEMENT NO. 01</u> | | | | |
| | <u>ROADS AND CAR PARKS</u> | | | | |
| | <u>(ALL PROVISIONAL)</u> | | | | |
| | <u>EARTHWORKS</u> | | | | |
| A | Excavate to remove black cotton soil depth not exceeding 1.50m deep commencing from existing ground level, load and cart away surplus excavated material from site to Local Authority approved dump site | CM | 1315 | | |
| B | Extra over excavations for excavation in rock | CM | 623 | | |
| C | Allow for keeping all excavations and works free from all water, including spring and running water, by pumping or other means as required. | Item | | | |
| D | Allow for maintaining sides of all excavations by planking and strutting or other means as required. Additional works caused by the collapse of excavations through inadequate planking and strutting or removal of ground or rain water from all excavations will be at the Contractors expense. | Item | | | |
| | <u>ROAD SUBGRADE AND WEARING COURSE</u> | | | | |
| E | Approved quality weed killer spread at the rate of 7 litres per square metre under roads. | SM | 4,050 | | |
| F | Grade bottoms of excavation or surface of filling to falls and crossfalls including rolling and compacting to 100% M.D.D. standard compaction. | SM | 4,050 | | |
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| Item No. | Description | Unit | Quantity | Rate | Amount |
|----------|---|----------------|----------|------|--------|
| A | Selected approved imported subgrade fill material deposited as directed and compacted to 95% M.D.D. AASHTO T99 in layers not exceeding 300mm to Civil Engineer's approval | CM | 1315 | | |
| B | 150mm Thick approved murram sub base consolidated and compacted to engineers's approval (minimum CBR 30%) | SM | 4,050 | | |
| C | 150mm Thick approved handpacked stone or crusher run base compacted to Civil Engineer's specifications | SM | 4,050 | | |
| D | 50mm Thick approved sand bed laid to receive paving blocks (measured separately) | SM | 4,050 | | |
| | <u>PAVING BLOCKS</u> | | | | |
| E | 80mm Thick heavy duty (35N/mm ²) precast concrete paving blocks as "Bamburiblox Interlock" or any other equal and approved, laid on sand bed (measured separately), jointed with sand and mechanically vibrated all to Engineer's approval | m ² | 4,050 | | |
| | <u>ROAD FURNITURE</u> | | | | |
| F | Precast concrete Grade 20 kerb size 125 x 250mm to B.S. 340 type A finished fair on all exposed surfaces with one rounded and chamfered edge bedded, jointed and pointed in cement mortar (1:3) laid on and including 100 x 300mm plain concrete (1:3:6) - 40mm foundation haunched upon one side including all necessary formwork. | m | 685 | | |
| G | Precast concrete (Grade 20) channel size 125 x 100mm bedded, jointed and pointed in cement mortar (1:3) laid on and including 375 x 150mm plain concrete (1:3:6) - 40mm foundation haunched up on both sides including all necessary formwork. | Lm | 685 | | |
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GRAND SUMMARY

| BILL No. | BILL NAME | PG No. | AMOUNT (Kshs) |
|----------|-------------|--------|---------------|
| 01 | GUARD HOUSE | B/14 | |
| 02 | FENCE | B/14 | |
| 03 | CABRO WORKS | B/14 | |
| 04 | LANDSCAPING | B/14 | |

Total carried to summary

| ITEM | DESCRIPTION | UNIT | QTY | RATE | KSHS |
|------|--|------|-----|------|------|
| | <u>PRIME COST AND PROVISIONAL SUMS</u> | | | | |
| | <u>PROVISIONAL SUMS</u> | | | | |
| | <u>The following Provisional Sums are to be measured on completion and priced in accordance with the rates contained in these Bills of Quantities or pro-rata thereto or deducted in whole if not required</u> | | | | |
| | Provisional sum for | | | | |
| A | Contingencies; two Million Kenya Shillings | Item | | | |
| | Add... % for profit and overhead | | | | |
| B | Project Management; One Million, Five Hundred Thousand Kenya Shillings | Item | | | |
| | Add... % for profit and overhead | | | | |
| | Allow kshs.150,000 for NEMA approval | | | | |
| | Total carried to Grand summary | | | | |
| | | | | | |
| | | | | | |

4-1/1

PROPOSED CONSTRUCTION OF NEW LABORATORY AT MCRH-MANDERA EAST SUB COUNTY

GRAND SUMMARY

| BILL No. | BILL NAME | PG No. | AMOUNT (Kshs) | OFFICIAL USE |
|----------|--|--------|---------------|--------------|
| 1 | GENERAL & PARTICULAR PRELIMINARIES | | | |
| 2 | DEMOLITION | | | |
| 3 | LABORATORY BUILDING | | | |
| 4 | ELECTRICAL WORKS | | | |
| 5 | MECHANICAL WORKS | | | |
| 6 | UNDERGROUND TANK | | | |
| 7 | ELEVATED TANK | | | |
| 8 | EXTERNAL WORKS | | | |
| 9 | PC & PROVISIONAL SUMS | PC/1 | | |
| | SUB TOTAL (PRICE INCLUSIVE 16% VAT) | | | |
| | TOTAL CARRIED TO FORM OF TENDER | | | |

Total amount in words : Kenya Shillings :

SIGNED:-
FOR AND ON BEHALF OF :-

| | |
|---|--|
| <p>TENDERER :-</p> <p>SIGNATURE : _____</p> <p>NAME : _____</p> <p>ADDRESS : _____</p> <p>DATE : _____</p> | <p>WITNESS :-</p> <p>SIGNATURE : _____</p> <p>NAME : _____</p> <p>ADDRESS : _____</p> <p>DATE : _____</p> |
|---|--|