

REPUBLIC OF KENYA



MANDERA COUNTY GOVERNMENT

TENDER DOCUMENT

FOR

**PROPOSED SUB-COUNTY
HEADQUARTERS AT TAKABA
IN
MANDERA WEST SUB COUNTY**

MANDERA COUNTY

MCG/OT/018/2018-2019

NOVEMBER, 2018

TABLE OF CONTENTS

	INTRODUCTION
SECTION I	INVITATION FOR TENDERS
SECTION II	INSTRUCTIONS TO TENDERERS
SECTION III	CONDITIONS OF CONTRACT
	APPENDIX TO CONDITIONS OF CONTRACT
SECTION IV	STANDARD FORMS
SECTION V	SPECIFICATIONS, DRAWINGS AND BILLS OF QUANTITIES/SCHEDULE OF RATES...

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/018/2018-2019**

Tender Name: TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST SUB COUNTY

- 1.1 The Mandera County Government invites sealed tenders for TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST SUB COUNTY
- 1.2 Interested eligible candidates may obtain and inspect tender documents from our website www.mandera.go.ke. For any more information/clarification interested applicants can visit the office of the **Director of Supply Chain Management Office, next to Read sea resort** of - **mandera**, during normal working hours.
- 1.3 Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for the contract period.
- 1.4 Original and a copy of tender documents are to be enclosed in plain sealed envelopes marked with Tender name and reference number and deposited in the Tender Box located at the supply chain management office in Mandera or to be addressed to
County Chief Officer accounting and financial services ,
P.O. Box 13
Mandera

so as to be received on or before WEDNESDAY 28TH NOVEMBER 2018 at 10.00 Am
- 1.5 Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend at a location as will be designated.

Director Supply Chain Management

For COUNTY Chief Officer Accounting and financial services

SECTION II
INSTRUCTIONS TO TENDERERS
TABLE OF CONTENTS

CLAUSE

1 .	GENERAL -----
2.	TENDER DOCUMENTS -----
3.	PREPARATION OF TENDERS -----
4.	SUBMISSION OF TENDERS -----
5.	TENDER OPENING AND EVALUATON -----
6.	AWARD OF CONTRACT -----

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 herebelow:-
- (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 herebelow.

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 authorised 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 Bidder shall submit original and a copy of the tender document, clearly marking each "ORIGINAL TENDER" and "COPY OF TENDER" on or before Wednesday 28th November, 2018 at 10.00 Am Both documents (Original & Copy) shall bear all the attachments required.</i>
	<i>The bidder shall submit a minimum bid security of KES1,200,000 a reputable bank or recognized insurance company.</i>
	<i>Bidders shall attach three original recommendation letters from three different reputable clients not older than one month from the date of submission of this tender.</i>

PRELIMINARY REQUIREMENTS

1. All entries must be typed or written in ink. Mistakes must not be erased but should be crossed out and corrections made and initialed by the persons signing the tender.
2. The form of bid **shall** be duly filled, signed and stamped by an individual entrusted with the powers of attorney.
3. Each bid should be submitted in a plain sealed envelope with the Tender Number and Name endorsed on the outside.
4. The bidder shall attach a duly filled, signed and stamped confidential business questionnaire by an individual entrusted with the powers of attorney.
5. The form of power of attorney shall be duly filled, signed and stamped.
6. **The tender document shall be submitted complete, intact with no page alterations.**
7. Tenderers shall ensure that the submitted bid (documents) is (are) serialized .i.e (each page in the submitted bid shall have serial identification).
8. All submitted forms and documents shall be duly filled, signed (where applicable) and stamped.

Bidders shall attach copies of the under listed documents endorsed (signed and stamped) by commissioner of oaths/advocate registered in Kenya.

9. Valid current year business permit.
10. Valid current year tax compliance certificate.
11. Certificate of incorporation.
12. PIN/VAT certificate from KRA.
13. Registration with NCA in Category 4 or above
14. Financial audited accounts for the previous three years endorsed, signed and stamped by a registered external auditor.

Bidders that will not comply with the above criteria shall be considered non-responsive.

MINIMUM REQUIREMENTS

In the technical requirements tables, bidders should indicate their capacity bearing in mind that these tables bear the minimum requirements for this tender.

No.	KEY personnel Position	Total Work Experience (years)	In Similar Works Experience (years)
1	Project Director (Key Partner/Director)	10	8
2	One Site Agent / Contract manager (Registered Structural Engineer/Architect/QS/Civil)	8	5
3	Environmental Engineer (Licensed environmentalist)	8	5
4	2 No. Building Inspectors / Foreman (must be holders of at least Diploma in Structural/Civil engineering or equivalent).	8	5
5	1 No. Surveyor (must be holders of at least Ordinary National Diploma (OND) in water engineering or equivalent).	5	3

TECHNICAL REQUIREMENTS

In the technical requirements below, bidders shall fill the tables appropriately failure to which the bids will be considered non-responsive. All the attached proof/copies of documents shall be endorsed, signed and stamped by Commissioner of Oaths/Advocate to ensure validity.

15. Bidders shall List and attach valid proof of at least three similar projects of similar magnitude undertaken in the last three years in table below with a valid proof of award and completion of the projects.

Serial No.	Projects	Clients Name, Address & Telephone No.	Value of the project (Kshs.)	Year(s) the Project was undertaken
1.				

2.				
3.				

16. SCHEDULE OF RELEVANT PLANT AND EQUIPMENTS

Bidders shall state below the key relevant plant/Equipment that will be immediately available for this works what plants will be available and what further plant/equipment will be acquired or hired for the works should the contractor be judged qualified by the County and awarded the contract. Bidders shall attach proof for the under listed plant and equipment. The equipments stated below must be more than those indicated in the minimum requirements.

Description, Size, Capacity	No.	Present Location	Remarks

Signed by Bidder

.....

Name of Signatory

.....

Date.....

17. SCHEDULE OF KEY PERSONNEL WITHIN YOUR ESTABLISHMENT

Bidders shall insert in the spaces below at least five key personnel to be engaged in this contract if awarded. State qualification and experience of each personnel and also attach their credentials/CV and supportive documents for reference.

[illegible]

Bidders must fill in the various categories in the minimum requirements table for key personnel. For unskilled labour, only the total number is required to be entered in the form above. Qualifications will be verified prior to award of the contract. Where personnel are substituted during the contract or before the award of the contract, only substitute person with equivalent or higher qualifications will be approved or accepted by the County.

All attached copies shall be endorsed, signed & stamped by commissioner of oaths/advocate.

Sign.....

Date.....

Bidders who shall not meet the above technical requirement will be considered non-responsive.

EVALUATION AND COMPARISON OF TENDERS

Evaluation and comparison of tenders: the following evaluation criteria shall be applied not withstanding any other requirements in the tender documents

a) Mandatory requirement(MR)

The following requirements must be met by the tenderer

PRELIMINARY EVALUATION CRITERIA

S/No	REQUIREMENTS	Score Mandatory	B1	B2	B3	B4	B5	B6	B7	B8
1.	Dully filled confidential business questionnaire	Mandatory (Yes/No)								
2.	Form of tender duly filled, signed and stamped	Mandatory (Yes/No)								
3.	Tenderers shall ensure that the submitted bid (documents) is (are) serialized .i.e (each page in the submitted bid shall have serial identification).	Mandatory (Yes/No)								
4.	The form of power of attorney shall be duly filled, signed and stamped.	Mandatory (Yes/No)								
5.	Submission of tender document in original and copy.	Mandatory (Yes/No)								
6.	All entries must be typed or written in ink. Mistakes must not be erased but should be crossed out and corrections made and initialed by the persons signed the tender.	Mandatory (Yes/No)								
7.	Bid security	Mandatory (Yes/No)								
8.	Bidders shall attach copies of the under listed documents endorsed (signed and stamped) by commissioner of oaths/ advocates registered in Kenya									
9.	Valid current year business permits	Mandatory (Yes/No)								
10.	Valid current year tax compliance certificate	Mandatory (Yes/No)								
11.	Certificate of incorporations	Mandatory (Yes/No)								
12.	Pin/Vat certificate from KRA	Mandatory (Yes/No)								

13.	Registration with NCA	Mandatory (Yes/No)									
14.	Firms copy of certificate of registration as a contractor	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)		Experience (years)	Score card (55 Marks)	B1	B2	B3	B4	B5	B6	B7	B8
1.	Project Director(Key partner/Director)	8	5 Marks								
2.	One Site Agent / Contract manager (Registered Civil Engineer/Structural /QS/Architect)	5	10 Marks								
3.	Electro-Mechanical Engineer (Licensed electrical engineer)	5	10 Marks								
4.	Environmental Engineer (Licensed environmentalist)	5	10 Marks								
5.	2No inspector of water and works/ pipeline foreman(must be holders of at least	5	10 Marks								

	diploma in water engineering or equivalent)										
6.	1 surveyor(must be holders of at least ordinary National Diploma OND or equivalent) in water engineering	3	10 Marks								
B.	Prior Experience with recommendation or reference letters from clients (attach)	In Similar Works Experience	Score card (10 Marks)								
7.	Bidders shall List and attach valid proof of at least three similar projects of similar magnitude.	3	10 Marks								
	EQUIPMENT	Score card (20Marks)	(20Marks)								
	Attached valid log books for vehicles or purchase receipt or lease agreements	5	10 Marks								
	Site equipment(excavators, mixers, tower crane, steel props , steel scaffolding)	5	10 Marks								

b) Technical evaluations scores

This sections (technical evaluation) will be marked out of 85 or 85/85*70 and will be determined the technical scorers (TS). Note: at this stage any firm that failed to score above 70% Or 49/70 shall NOT be evaluated financially

B) Financial evaluation scores

At this stage the tender's submission will either be responsive or non responsive. The non-responsive submission will be eliminated.

FINANCIAL EVALUATION CRITERIA SUMMARY

No.	Audited report (Last 2 years) (10 marks)	Correction of arithmetical errors (5 marks)	Bank statement (last 6 months) (5 marks)	Liquid assets and/or credit facilities (10 marks)	Score (30Marks)	Total
B1						
B2						
B3						
B4						
B5						
B6						
B7						
B8						

COMBINED TECHNICAL AND FINANCIAL SCORES

BIDDER NO	SCORES (TECHNICAL)	SCORES FINANCIAL	TOTAL	RANK
B1				
B2				
B3				
B4				
B5				
B6				
B7				
B8				

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 – MINISTRY OF PUBLIC WORKS, ROADS AND TRANSPORT**

Cell phone:
 E-mail:/Fax:

Name of Alternative Representative: **Chief Officer –MINISTRY OF PUBLIC WORKS**

Cell phone:
 E-mail:/Fax:

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

The name (and identification number) of the Contract is: **TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST SUB COUNTY**

The works consist of: **TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST 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 (52) Weeks** 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 (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 **5 percent (%)**

The Completion Period for the Works is **Fifty two (52) Weeks**

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]

REF: TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST
SUB COUNTY **MCG/OT/018/2018-2019**

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 **TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST SUB COUNTY. MCG/OT/018/2018-2019** (*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.

4. 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 Contractor.

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 TENDER FOR PROPOSED SUB-COUNTY HEADQUARTERS AT TAKABA IN MANDERA WEST SUB COUNTY [MCG/OT/018/2018-2019).

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:

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

BILL NO. 2: BUILDING WORKS-MAIN OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.1</u> <u>SUBSTRUCTURES</u> NOTE; (I) All work measured under this element is up to and including the floor slab but excluding the finishes thereon.				
A	Clear the site of all the bush shrubs undergrowth and small trees, grub up roots and cart away or burn all arisings (approx area 1965sq.sm).	-	ITEM		
B	<u>Excavations and earthworks</u> Excavate oversite average 200mm deep to remove vegetable soil load up wheel and deposit about 100meters away and later spread and level on site where directed.	1048	SM		
C	Excavate to reduce levels not exceeding 1.5meters deep commencing at stripped level.	NIL	CM		
D	Excavate for strip foundation trenches occurring not exceeding 1.5meters deep commencing from reduced level.	668	CM		
E	Excavate for column bases occurring not exceeding 1.5meters deep commencing from reduced level.	125	CM		
F.	Extra over excavations for excavation in rock class I.	63	CM		
G.	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.	-	ITEM		
H	Allow for planking and strutting to sides of excavations.	-	ITEM		
I	<u>Disposal</u> Load surplus excavated material and cart away.	214	CM		
J	Filling return fills and ram selected excavated material around foundations. <u>Hardcore as described.</u>	538	CM		
K	300mm thick layer of imported hardcore filling including leveling and consolidating in 150mm layers.	930	SM		
	<i>TOTAL CARRIED TO COLLECTION</i>				

SCH/01

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<u>Blinding</u> 50mm thick quarry dust blinding to the surface of hardcore, rolled smooth to receive polythene sheeting (m.s).	930	SM		
B	<u>Insecticide treatment</u> "Termidol" or other equal and approved chemical insecticide treatment prepared and applied according to the Manufacturers's printed instructions.	930	SM		
C	<u>Damp proof membrane</u> 500mm gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding (measured nett - allow for overlaps).	930	SM		
D	<u>In-situ concrete work</u> <u>Mass concrete (1:3:6/38-38mm aggregate.</u> 50mm thick blinding under foundations.	298	SM		
E	<u>Vibrated reinforced concrete (1:2:4/20-20mm aggregate) as described in:</u> Strip foundations	80	CM		
F	Column bases	5	CM		
G	Columns	2	CM		
H	150mm thick ground floor slab	930	SM		
	<u>Steel reinforcement</u> <u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position.</u> <u>High tensile square twisted bars to BS 4461 as described in:</u>				
I	12mm diameter	233	KG		
J	10mm diameter	1245	KG		
K	8mm diameter	1296	KG		
L	<u>Mesh reinforcement</u> Fabric mesh reinforcement to BS44483 ref:A142 including laps tying wire and spacer blocks complete (measured net- allow for laps)	930	SM		
M	<u>Sawn formwork as described to:</u> Vertical sides of foundations 100-200mm	1336	LM		
N	Vertical sides of columns	24	SM		
P	Vertical sides of columns bases 200-300mm	171	LM		
Q	Edge of floor slab 100-200mm high	191	LM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<u>Foundation walling.</u> 200mm thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swgx25mm wide hoop iron in every alternate course.	836	SM		
B	Extra over walling for 200 x 400mm attached pier	73	LM		
C	<u>Plinth area finishes</u> 12mm thick cement and sand (1:3) wood float render to plinth areas.	76	SM		
D	Prepare and apply three coats black bituminous paint to rendered areas.	76	SM		
TOTAL CARRIED TO COLLECTION BELOW					
<u>COLLECTION:-</u>					
Total brought forward from PG SCH/01					
Total brought forward from PG SCH/02					
Total brought down from above					
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					

SCH/03

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT 02: REINFORCED CONCRETE FRAME</u>				
	<u>Vibrated reinforced concrete (1:2:4/20-20mm aggregate) as described in:-</u>				
A	Ring beam and gutters	80	CM		
B	Columns	30	CM		
C	150mm thick suspended roof slab	13	CM		
D	200mm thick concrete walling.	40	CM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position.</u>				
	<u>High tensile square twisted bars to BS 4461 as described in:</u>				
E	20mm diameter	1549	KG		
F	12mm diameter	2379	KG		
G	10mm diameter	1043	KG		
H	8mm diameter	2851	KG		
	<u>Sawn formwork as described to:</u>				
I	Sides and soffits of ring beams/beams.	829	SM		
J	Extra over for curved to beams.	60	SM		
K	Sides of columns.	250	SM		
L	Soffits of suspended roof slab.	10	SM		
M	Sides of RC walling.	80	SM		
	TOTAL FOR ELEMENT 02: RC SUPERSTRUCTURES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.3 WALLING:</u> <u>EXTERNAL WALLING</u> <u>Fine chiseled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron.</u>				
A	200mm thick reinforced in every third course.	328	SM		
B	Ditto parapet wall	443	SM		
C	Extra over 200mm natural stone walling for attached pier size 400 x 200mm thick.	87	LM		
	<u>Horizontal damp proof course; one layer of 3-ply bituminous felt or other equal and approved (measured net – allow for laps).</u>				
D	200mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	210	LM		
	<u>INTERNAL WALLING</u> <u>Fine chiseled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron.</u>				
E	200 mm wide reinforced in every third course.	703	SM		
F	100mm thick reinforced in every alternate course.	36	SM		
	<u>Horizontal damp proof course; one layer of 3-ply bituminous felt or other equal and approved (measured net – allow for laps).</u>				
G	200mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	234	LM		
H	100mm wide leveled and bedded in cement and sand (1:3) mortar under walls.	12	LM		
	TOTAL CARRIED TO SUMMARY				

SCH/05

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.4; ROOFING AND RAINWATER GOODS:</u>				
	<u>CONSTRUCTION</u>				
	<u>All timber to be sawn cypress of GS grade seasoned to an equilibrium moisture content between 9% and 15% and to a requirement of KS 02771 of 1991 treated with approved wood preservative.</u>				
A	150 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured to reinforced concrete ring beam (m.s) by mild steel anchor bolts (m.s). <u>The following in 56No. nailed triangular timber trusses spanning clear 12,700mm, height 2500mm including hoisting and placing 3500mm above floor slab level.</u>	161	LM		
B	150x50mm trussed rafter	1065	LM		
C	150x50mm tie beam.	888	LM		
D	100x50mm strut/tie.	1661	LM		
E	150x25x450mm (average) splice piece.	1491	NO		
F	75x50mm sawn celcured cypress battens.	1210	LM		
G	100x50mm sawn celcured cypress valley rafters.	82	LM		
H	Ditto hip rafters. <u>Covering</u> <u>Pre-painted roof sheets</u>	NIL	LM		
I	Gauge 28 resincoat sheet IT4 profile as MRM works.	1259	SM		
J	Ditto hip covers 900mm girth.	82	LM		
K	<u>Wrot cypress</u> 25x200mm fascia board fixed to ends of rafters (m.s).	91	LM		
L	Ditto barge boards.	18	LM		
M		NIL	LM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<u>Sundries</u> 12mm diameter x 300mm long black mild steel anchor bolt embedded 180mm deep in ring beam at 1200mm cc including drilling holes in timber.	290	NO		
B	100x100x6mm thick galvanized mild steel nailing cleat once bent to form angle, ten times drilled, one flange nailed to the foot of rafter(m.s) other nailed to top of wall plate(m.s).	142	NO		
C	<u>Rain water disposal</u> <u>The following in gauge 22 galvanised mild steel.</u> 150x25mm mild square box gutter fixed to fascia board with and including approved pattern brackets at 1000mm cc.	34	LM		
D	<u>Eaves treatment.</u> 75x50mm sawn celcured cypress bearers plugged.	22	LM		
E	50x50mm ditto bearers.	80	LM		
F	100x25mm wrot cypress T&G boarding nailed to bearers (m.s).	14	SM		
G	Prepare and apply three coats polyurethane clear varnish to surfaces of T&G.	14	SM		
H	Prime only back of timber before fixing not exceeding 100mm girth.	22	LM		
I	Extra over boarding for forming vents size 300x450mm including mosquito gauze.	10	NO		
J	<u>Gable ends treatment.</u> Extra over gutter for stopped end piece with 150x125mm square outlet.	4	NO		
K	100mm diameter plastic down pipe fixed to wall with and including mild steel brackets 1000mm centres.	48	LM		
L	Extra over down pipe for 150x80mm swan neck wall offset.	16	NO		
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>Cont. Gable ends treatment.</u>				
A	Extra over downpipe for 150x80mm rain water shoe.	16	NO		
B	150x80mm Y-junction with 80x80mm inlet.	16	NO		
C	80mm square section bend.	16	NO		
	<u>Painting</u>				
	<u>Prime only back of wood before fixing:-</u>				
D	Surfaces 100-200mm girth.	161	LM		
	<u>Knot prime stop and prepare and apply one under coat and two finishing coats of gloss oil paint to:-</u>				
E	General surfaces of wood 200-300mm girth.	22	LM		
	<u>Prepare and apply one coat of calcium plumbate and two coats of gloss oil paint to:-</u>				
F	General surfaces of metal gutters.	22	LM		
G	Ditto down pipes.	34	LM		
	TOTAL CARRIED TO COLLECTION BELOW				
	<u>COLLECTION:-</u>				
	Total brought forward from PG SCH/06.....				
	Total brought forward from PG SCH/07.....				
	Total brought down from above.....				
	TOTAL FOR ELEMENT NO.4; ROOFING AND RAINWATER GOODS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.6: FINISHES.</u>				
	<u>EXTERNAL WALL FINISHES</u>				
A	12x12mm cement and sand (1:3) mortar horizontal recessed pointing to natural stone walling.	275	SM		
	<u>12mm thick cement, sand render with wood float finish, as described to:-</u>				
B	Concrete surfaces of columns, beams, walls and gutters.	1595	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats exterior quality plastic emulsion paint on:-</u>				
C	Fair faced surfaces of concrete beams, columns, walls and gutters.	1595	SM		
	<u>INTERNAL WALL FINISHES</u>				
D	Hack out joints apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams.				
	10mm thick cement and sand (1:4) screed finished to receive glazed tiling.	1478	SM		
E	<u>150x150x6mm thick white glazed wall tiles jointed and pointed with matching white cement:-</u>	52	SM		
	Tiling on walls.				
F	<u>Painting and decorations</u>	52	SM		
	<u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u>				
	Plastered surfaces				
G		1478	SM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>Cont. ELEMENT NO.6: FINISHES.</u>				
	<u>FLOOR FINISHES</u>				
	<u>In situ cement and sand (1:3) screeded beds, with steel trowel led finish, on concrete:-</u>				
A	32mm screed finished to receive ceramic floor tiles.	930	SM		
	<u>Coloured approved ceramic tiles(provisional)</u>				
B	300x300x10mm ceramic floor tilling laid to screed bed(m.s) and pointed in coloured grout.	930	SM		
C	100x25mm skirting ditto.	700	LM		
	<u>Entrance steps and ramps:-</u>				
D	40mm thick screed trowel led and tamped to semi-rough finish to approval pattern in entrance ramps	14	SM		
E	20mm screed finished to receive paving slabs on entrance steps.	13	SM		
	<u>CEILING FINISHES:</u>				
	<u>In-situ cement sand lime (1:1:6) plaster, with steel trowel led finish, on concrete:-</u>				
F	12mm thick plaster trowel led smooth.	13	SM		
	<u>Chip board ceiling.</u>				
G	Chipboard ceiling fixed to and including 50x50mm sawn cypress brandering at 600mm centers' both directions fixed with clout headed nails and set out in symmetrical panels with "V" joints.	917	SM		
H	Ditto gypsum board with decoration in Boardroom	45	SM		
J	Extra over celotex ceiling for forming removable access trap door size 750x750mm with 100x50mm sawn treated cypress trimming joists 120x25mm wrot cedar frame all round and 12mm soft board removable panel set loose on top of framing including painting.	2	NO		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>Cont. ELEMENT NO.6: FINISHES.</u>				
	<u>Prime grade wrot cypress timber selected and kept clean:-</u>				
A	100x25mm cornice with two labours.	824	LM		
	<u>Sawn cypress:-</u>				
B	50x50mm brandering.	3256	LM		
	<u>Painting and decorations:-</u>				
C	Prime only back of timber before fixing surfaces not exceeding 100mm girth.	824	LM		
	<u>Knot prime and stop and prepare and apply three coats first quality emulsion paint</u>				
D	Chip board ceiling.	930	SM		
E	Ditto on gypsum	45	LM		
F	Timber surfaces not exceeding 100mm girth.	824	LM		
	TOTAL CARRIED TO COLLECTION BELOW				
	<u>COLLECTION:-</u>				
	Total brought forward from PG SCH/09				
	Total brought forward from PG SCH/10				
	Total brought down from above				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.6: WINDOWS & GLAZED PARTITIONS.</u>				
	<u>Wrot hardwood:-</u>				
A	150x50mm window frame, mullions, transoms and the like, with 2no. labours.	645	LM		
B	50 X 25mm architrave	438	LM		
C	25 x 25mm Quadrant	438	LM		
	<u>Aluminum windows including 8mm one way glass and ironmongery: -</u>				
D	Window overall size 3300 x 1650mm high.	25	NO		
	Window overall size 2300 x 1650mm high.	2	NO		
	Window overall size 1400 x 1650mm high.	1	NO		
	Window overall size 1200x 1650mm high.	7	NO		
	Window overall size 3300 x 600mm high	2	NO		
	<u>HIGH LEVL WINDOWS</u>				
E	Windows overall size 1200mm x 1200mm	32	NO		
	<u>BURGLAR PROOFING</u>				
	<u>Mild steel burglar proofing to timber casement windows fabricated from 12mm round bars at 125mm centres horizontally including drilling and securing to timber and allowing offsets to give 10mm space from glass to:-</u>				
F	Window overall size 3300 x 1650mm high.	25	NO		
G	Window overall size 2300 x 1650mm high.	2	NO		
H	Window overall size 1400 x 1650mm high.	1	NO		
I	Window overall size 1200x 1650mm high.	7	NO		
J	Window overall size 3300 x 600mm high.	2	NO		
	<u>5mm thick glazing in partitions.</u>				
K	5mm thick clear sheet glass	40	SM		
L	50 x 20mm hardwood glazing bead.	222	LM		
	<u>SILLS</u>				
M	200mm x 175mm concrete sill with one curved edge including bedding in cement and sand (1:3) mortar plastered smooth and finished with red oxide paint.	195	LM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>PELMET BOXES</u> <u>The following in 63no. boxes</u> <u>Sawn celcured cypress.</u>				
A	50x25 bearers plugged.	195	LM		
	<u>Wrot camphor as described</u>				
B	150x25mm thick pelmet fascia with two labours.	195	LM		
C	150x25mm thick top	195	LM		
D	150x110x20mm thick boxed end with mitred joints	78	NO		
	<u>Curtain tracks</u>				
E	Standard I-section heavy duty brass curtain track screwed to soffits of pelmet top (m.s) with fixing brackets runners end stops laps and complete accessories to approval.	195	LM		
	<u>STEEL WINDOWS</u>				
F	Casement window bull-eye size 600mm diameter including stays and fasteners	4	NO		
G	Ditto fixed light bull-eye size 1200mm diameter	8	NO		
H	5mm thick obscured glass including fixing with putty.	34	SM		
	<u>PAINTING</u>				
	<u>Prime only back of wooden surfaces with aluminium or other equal and approved primer before fixing.</u>				
	Surfaces not exceeding 100mm girth.				
	Surfaces 100-200mm girth.				
I	<u>Prepare and apply three coats gloss oil paint on:-</u>	1070	LM		
J	Metal surfaces internally.	438	LM		
	Metal surfaces externally.				
K	<u>Knot prime stop and prepare and apply three coats of clear polyurethane varnish to:-</u>	34	SM		
L	General surfaces of wood exceeding 200mm but not exceeding 300mm girth.	34	SM		
M	General surfaces of wood exceeding 100mm but not exceeding 200mm girth.	645	LM		
N		875	LM		
	TOTAL CARRIED TO COLLECTION BELOW				
	<u>COLLECTION:-</u> Total brought forward from PG SCH/12 Total brought down from above				
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT 7: DOORS:</u> <u>INTERNAL DOORS</u> <u>Frames and finishings</u> <u>wrot hardwood as described</u>				
A	90x45mm (finished) frame once rebated.	32	LM		
B	145 x45mm ditto	215	LM		
C	145 x 45mm (finished) transom twice rebated.	46	LM		
D	38 x 20mm (finished) Architrave.	248	LM		
E	20 x 20mm (finished) Quadrant.	248	LM		
F	10 x 50mm (finished) glazing beading.	204	LM		
	<u>Flush doors</u>				
G	45mm thick semi-solid core flush door overall size 820x2060mm high, faced both sides with interior quality plywood for painting (m.s) and hardwood lipped all edges to approval.	6	NO		
H	45mm thick wrot hardwood solid panel door overall size 900x2100mm high comprising of 150x150mm framing all round infilled with 300x400x50mm thick panels with fanlight size 900x300mm.	29	NO		
I	Ditto double door overall size 2100x2550mm high.	5	NO		
J	Ditto 2400 x 2550mm	1	NO		
	<u>EXTERNAL DOORS</u>				
	<u>Steel door</u>				
K	Steel panel door of overall size 900x2550mm high complete with all the necessary accessories.	1	NO		
	<u>4mm thick clear glass fixed in timber beads:-</u>				
L	Panes exceeding 0.1sm but not exceeding 0.5sm.	17	SM		
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following iron mongery with matching screws to metal doors as per "UNION" unless otherwise specified.</u>				
M	Three lever 'union' door locks	35	NO		
N	Two level 'union' door locks.	6	NO		
O	100mm pressed steel butt hinges.	72 ^{1/2}	Prs		
P	40mm diameter rubber door stopper fixed to wall or floor with rawl bolt.	47	NO		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>Cont. ELEMENT 7: DOORS:</u> <u>Metal fixing cramps.</u>				
A	250x25x2mm thick L-shaped mild steel fixing cramps one end split and fanged and built into natural stone wall other end drilled and screwed to frame.	246	NO		
	<u>Precast concrete lintols</u>				
B	100x150x1000mm long precast concrete lintol including 2No. 12mm diameter reinforcement bars into walls.	7	NO		
	<u>Painting</u>				
	<u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to:-</u>				
C	Back of frames; surfaces not exceeding 100mm girth.	496	LM		
	Ditto 100-200mm girth				
D	<u>Knot prime stop and prepare and apply one undercoat and two finishing coats of clear polyurethane varnish to:-</u>	438	LM		
	General surfaces of wood internally.				
E	General surfaces of wood 200-300mm girth internally.	219	SM		
F	Ditto 100-200mm girth	215	LM		
	Ditto not exceeding 100mm girth				
G		32	LM		
H		700	LM		
	TOTAL CARRIED TO COLLECTION BELOW				
	<u>COLLECTION:-</u>				
	Total brought forward from PG SCH/14				
	Total brought down from above				
	TOTAL CARRIED TO SUMMARY				

ITEM		QTY	UNIT	RATE	SHS.
	ELEMENT 7: PAVED AREAS: <u>All provisional</u> <u>Note:-</u> <u>The works measured hereunder only include the following:-</u> <u>(i) paved area around the perimeter of each building block.</u> <u>Paved areas.</u>				
A	Excavate over-site average 250mm ² deep to remove vegetable soil load up, wheel and deposit about 100meteres away.	109	SM		
B	200mm thick selected compacted murram filling to make up levels under paving slabs (m.s).	109	SM		
C	50mm thick sand bed on compacted murram filling to receive paving slabs (m.s).	109	SM		
D	'Dragnet FT' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	109	SM		
E	600 x 600 x 50mm thick precast concrete paving slabs laid on compacted murram (m.s) and pointed in cement and sand (1:3) mortar.	109	SM		
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	PAGE NO	AMOUNT KSHS.
	<u>MANDAWASCO OFFICE BLOCK BUILDER'S WORKS</u> <u>COLLECTION SUMMARY</u>		
A	ELEMENT 01 ; SUBSTRUCTURES	SCH/03	
B	ELEMENT 02; REINFORCED CONCRETE FRAME	SCH/04	
C	ELEMENT 03; WALLING.	SCH/05	
D	ELEMENT 04 ROOF & RAINWATER GOODS	SCH/08	
E	ELEMENT 05; FINISHES	SCH/11	
F	ELEMENT 06; WINDOWS	SCH/13	
G	ELEMENT 07; DOORS	SCH/15	
H	ELEMENT 08; PAVED AREAS	SCH/16	
	TOTAL FOR BILL NO. 02: MAIN OFFICE BLOCK BUILDER'S WORKS CARRIED TO GRAND SUMMARY		

SCH/17

BILL NO. 03: ELECTRICAL WORKS FOR MAIN OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<u>Supply and install lighting points wired in 3 x 1.5mm single core cables drawn in 20mm diameter PVC heavy gauge conduit concealed including all necessary accessories but excluding the lighting fittings and switches.</u>				
	i. In one gang one way	68	No.		
	ii. In one gang two way.	53	No.		
	iii. Two way with intermediate switching	30	No.		
B	<u>Supply and install power point wired in 2.5mm² single core cables drawn in 20mm diameter PVC heavy gauge conduits concealed including all necessary accessories but excluding the socket outlet.</u>				
	i. For twin socket outlet.	6	No.		
	ii. For single socket outlet	70	No.		
C	Supply and install ceiling fan points wired in 2.5mm ² single core cables drawn in 20mm diameter PVC heavy gauge conduits concealed but excluding the fan.	16	No.		
D	Supply and install 24" Ceiling fan complete with the control.	16	NO		
E	<u>Supply and install the following switches:</u>				
	i. One gang one way switch.	17	NO		
	ii. One gang two way switch.	28	NO		
	iii. Intermediate switch.	4	NO		
	iv. 2 gang 2 way	3	No.		
	v. 3 gang 2 way	2	No		
	<u>Telephone & Data</u>				
F	Telephone outlet point done in concealed 20mm dia HG/PVC conduit/trunking.	16	NO		
G	Data outlet point done in concealed 20mm dia HG/PVC conduit/trunking.	16	NO		
H	Telephone and data outlet plate as 'crabtree' or approved equivalent.	32	NO		
EW/01	Total carried forward to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
A	Supply and fix the following lighting fittings:				
	i. 1200mm fluorescent fitting batten complete with tube as 'thorn' or equal and approved.	70	No.		
	ii. 100 watts spherical ceiling fitting complete with energy saving bulb.	10	No.		
	iii. 100 watts bulkhead fitting complete with energy saving bulb.	10	No.		
B	Supply and install 13Amps switched socket outlets complete.				
	i. Twin switched socket outlet.	6	No.		
	ii. Single switched socket outlet.	70	No.		
C	Supply and install 8-way Consumer Unit flush mounted as "CRABTREE"	2	No.		
D	Supply and fix the following MCBS				
	i. 10Amps MCB	2	No.		
	ii. 20 Amps MCB	2	No.		
	iii. 30 Amps MCB	2	No.		
	iv. 15 Amps MCB	2	No.		
E	Supply and install cable loop in box complete with 80Amps Cut-Out and Connector.	2	No.		
F	Supply and install booster pump including wiring and DP Switch with indicator lamp and flexible cord of 2.5mm ² 3 core.	1	No		
G	Supply and connect 16mm ² 2-Core (PVC SWAPVC) armored underground cable.	100	LM		
H	Trenching, laying, lifting and back filling for the underground cable	100	LM		
I	Supply and install 25mm diameter PVC heavy gauge conduit from cable loop-in box to Consumer Unit.	10	LM		
J	Supply and install cable glands for the underground cable.	2	No		
K	Allow for earthing including 5ft copper earth-rod with clamp, concrete manhole and cover.		Item		
	Total carried forward to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
A	Allow for testing and commissioning.		Item		
B	METER BOARDS Modular type meter board, metal clad 14SWG,415 mains LV fully wired for one incoming MCCB to have a meter viewing Perspex and to be installed semi- recessed in the wall to approval and complete with the following:- <ul style="list-style-type: none"> a) 200A TPN Bus bars. b) 1 No. 1-250A Ammeter. c) 1 No. 0-500V voltmeter complete with selector switch,5A fuse. d) Indicator bulbs. e) Provide space for mounting 1No Three phase KPLC meter. f) Provide space for mounting 3No KPLC cutouts. g) Provide space for mounting 4-way TPN DB. 	1	ITEM		
C	Install the following in meter board <ul style="list-style-type: none"> a. 80A KMBG switch c/w 63A HRC fuse b. 80A adjustable TP MCCB c. 250A incomer MCCB 	4 4 1	No NO NO		
D	Earthing to KPLC approval <ul style="list-style-type: none"> a) 300X300X300mm concrete earthing chamber complete with concrete cover. b) Earth rod (16mm dia 1500mm long) with earth- rod-cable clamp and driving head for earth rod. c) 6mm² SC/PVC Copper cable earth lead in concealed 20mm dia HP/PVC conduit from the meter boards to the earth pit. 	1 1 2 35	NO NO NO NO		
E	Allow for supply and installation of 1200 BTU AC to satisfaction of project mangers				
	Total carried to collection below				
	<u>COLLECTION</u>				

	Brought forward from page EW/01				
	Brought forward from page EW/02				
	Brought down from above				
	TOTAL FOR ELECTRICAL WORKS CARRIED TO GRAND SUMMARY				

EW/03

BILL NO.04 – BILLS OF QUANTITIES FOR THE PROPOSED CIVIL WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	1) FOUL DRAINAGE				
	<u>Site clearance</u>				
A	Clear 1.5m on either side of sewer-line centre-line of all bushes, shrubs, small trees, grass and the like and dispose as directed by the DR.	432	SM		
	<u>Excavations</u>				
B	Excavate trench for dia 160mm sewer pipe starting from ground level not exceeding 1.5m deep, backfill after laying pipe and disperse excess material as directed by the DR average depth 1.0m.	144	LM		
C	Extra over excavation for excavation in rock class I (Provisional)	104	CM		
	<u>Pipe construction</u>				
D	Provide, lay and joint in trench dia 160mm golden brown class 41 sewer pipe in flexible joints (rubber ring or lip seal joint) including 100mm approved murram bed and haunch.	144	LM		
	<u>Manholes</u>				
E	Provide materials and erect manhole including all necessary excavations, backfilling and disposal of surplus material and formwork and medium duty manhole cover and frame average depth 0.9m.	12	NO		
	2) SOAK PITS				
F	Excavate for soakpit starting from ground level not exceeding 1.5m backfill after constructing soakpit and				

	dispose excess material as directed by the DR.	4	CM		
G	Excavate for soakpit as before described but exceeding 1.5m and not exceeding 3.0m deep.	4	CM		
H	Ditto but exceeding 3.0m and not exceeding 4.5m deep.	4	CM		
I	Provide materials and erect soakpit of 1.2m internal diameter with 150mm thick walling and 100mm thick concrete 1:3:6 bases and 150mm thick RC slab and 600x450mm medium duty MH cover and frame and 200mm dia stone fill and all necessary formwork.	1	NO		
	TOTAL FOR FOUL DRAINAGE & SOAKPITS CARRIED TO SUMMARY OF CIVIL WORKS				

CW/01

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	3) SEPTIC TANK				
	<u>Site clearance</u>				
A	Clear site for sewerage treatment works of all bushes, shrubs, weeds, small trees, grass and the like and dispose as directed by the DR	108	SM		
	<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 DR.	60	CM		
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 DR.	60	CM		
D	Extra over excavation for excavation in class I rock (Provisional).	120	CM		
E	Return, fill and ram selected excavated materials around walls.	76	CM		
F	Cart away surplus excavated materials.	44	SM		
	<u>Construction</u>				
G	Provide, lay and vibrate 50mm thick concrete class Q (1:3:6) blinding.	22	SM		
H	Provide, place and vibrate 250mm thick reinforced concrete class 20(20) (1:2:4) in concrete bed.	22	SM		
I	Provide, place and vibrate 150mm thick reinforced concrete class 20(20) (1:2:4) in walls.	12	SM		
J	Ditto in 100mm baffle wall	2	SM		
K	Ditto 200mm thick in suspended slab.	18	SM		
	<u>Walling</u>				
L	Load bearing 200mm thick impervious stone walling bedded in cement/sand (1:3) mortar reinforced with hoop iron.	59	SM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>Reinforcement</u> <u>Provide, cut, bend and fix in concrete 16mm dia ms reinforcing bar including all necessary tying wire, spacer blocks and the like with:-</u>				
A	Ditto 12mm dia m.s	174	KG		
B	Ditto 10mm dia m.s	12	KG		
C	Ditto 8mm dia.	20	KG		
	<u>Mesh reinforcement</u>				
D	Provide and place in concrete BRC mesh No.65 reinforcement or equivalent, including all necessary tying wire, spacer blocks, laps and the like.	6	SM		
	<u>Formwork</u>				
E	Provide and fix sawn timber formwork to edges of bed between 150 and 225mm high.	20	LM		
F	Ditto to edge of suspended slab between 75 and 100mm high.	18	LM		
G	Ditto between 150 and 225mm high.	5	LM		
H	Provide and fix sawn timber formwork to soffit of suspended slab.	15	SM		
I	Provide and fix sawn timber formwork to sides of walls.	12	SM		
	<u>Finishes</u>				
J	Provide materials and apply 12mm rendering (1:1) to walls both internally and externally.	121	SM		
K	Provide and apply 25mm thick screed (1:3) to slab (top & bottom).	30	SM		
L	Provide and fix 600x450 medium duty manhole cover and frame.	2	NO		
M	160mm dia. Drainage pipe a.b.d.	2	LM		
N	160mm equal tee once plugged.	2	NO		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	Allow for testing of the whole of the foul drainage by water test to Works general specifications and satisfaction of the Engineer.	-	ITEM		
B	Allow for keeping excavations free from general waters.	-	ITEM		
	TOTAL CARRIED TO COLLECTION BELOW <u>COLLECTION:-</u> Total brought forward from PG CW/02 Total brought forward from PG CW/03 Total brought forward from PG CW/04 above				
	TOTAL FOR SEPTIC TANK CARRIED TO SUMMARY OF CIVIL WORKS				

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
	4) SANITARY FITTINGS <u>Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Twyfords Ltd products are specified only as an indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref No. is intended only as a guide to the type and quality of fittings.</u> General purpose Squatting W.C A. Water closet suite ('S' or 'P'-trap) in approved colour complete with horizontal outlet to BS3402; litre valve less cistern fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, inlet connection. All to be as Twyfords "Arabian" water closet or equal and approved.				
	Wash hand basin B. Wash hand basin, size 590x440mm wide in approved colour to BS 3402, complete with the following:- <ol style="list-style-type: none"> 1) Basin with two tap holes and chain stay hole as "WB 2535 WH" Chrome plated tap handles Aztec pillar taps ½" Ref. No AZ5800CP 2) Chrome plated chain waste Ref. No. 5823CP Wall supports Ref.No SR1319XX as Twfords "SOLA 590" 	NO	7		
	Splash 15mm diameter chrome plated hand spray W.C suite.				
	Robe Hook C. Robe Hook in Satin Aluminum to be mounted by concealed screws to wall wedges. To be as Twyfords Spectrum 2000 accessories or equal and approved	NO	7		
		NO	2		
		NO	6		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
A.	Toilet Roll Holder Fully recessed toilet roll holder in Vitreous China of size 165x165mm in approved colour as Tyfords VC98WH or equal and approved.	NO.	7	2000	
B.	Soap Dish Semi recessed built in soap tray in Vitreous China of size : 305x150mm approved colour as Twyfords VC9312WH or equal and approved	NO	3	800	
C.	Mirror 6mm thick polished plate glass silver backed mirror with revealed edges, size 610x610mm, plugged and screwed to wall with 4No. Chrome plated dome capped screws.	NO	2	3000	
D.	Toilet Brush and Holder Toilet brush and Holder in vitreous china or equal and approved equivalent	NO	6	900	
E.	Roof Tank Supply and install a plastic water tank of capacity 920 litres (200 gallons) made of plastic on roof space. The tanks to be assembled complete with medium- pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and float. Tank shall be mounted on a platform built by others and any other necessary item for its proper functioning. The tank to be "Roto Model" or approved equivalent.	No.	3	19500	
	TOTAL CARRIED TO COLLECTION				
	<u>COLLECTION</u> Total brought forward from PG CW/05 Total brought forward from PG CW/06 above				
	TOTAL FOR SANITARY FITTINGS CARRIED TO SUMMARY OF CIVIL WORKS				

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
	5) PLUMBING FITTINGS <u>Supply, deliver and install Polypropylene Random (PP-R) PN-20 Oxy-stable pipework to din 8077. pipe jointing shall be by polyfusion or use of electrical coupling. Tenderer must allow for jointing, clippings couplings, metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets sliding and fixed joints, support raceways, isolating sheathes, elastic materials expansion arms and bends, crossovers etc.</u> <u>Where pipework is not chased proper anchoring using approved fixtures shall be done. No pipework shall be left exposed to the sun.</u>				
	PPR PIPE				
	20mm diameter PPRC pipe				
A.	25mm –Ditto-	LM	18		
B.	32mm –Ditto-	LM	18		
C.		LM	36		
	<u>Extra- over PPRC pipework for the following.</u>				
	<u>Bends/ Elbow</u>				
	50mm dia PPRC bend				
D.	25mm dia –ditto	No.	2		
E.	20mm dia-ditto	No.	5		
F.	32mm dia -dditto	No.	1		
G.	20mm x ½” threaded bend	No.	6		
H.		No.	4		
	<u>Tees</u>				
I.	25mm equal tee				
J.	32mm –ditto	No.	2		
		No.	2		
	<u>Reducers</u>				
	25mmx20mm reducer				
K.	32mm x25mm-ditto	No.	2		
L.		No.	2		
	<u>Transition fittings</u>				
	25mmx ½” threaded/transition fittings				
M.	32mmx1/2” ditto	No.	2		
N.		No.	2		
	TOTAL CARRIED TO COLLECTION				

CW/07

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
A.	<u>Gate valve</u> 25mm dia. approved medium pressure screw down full way non-rising stem wedge gate valve to BS1952, with wheel and head joints to tubing. The gate valve to be as “Pegler” or approved equivalent.	No.	1		
B.	25mm- ditto-	No.	4		
C.	15mm –ditto-	No.	4		
D.	<u>Non-return valve</u> 25mm dia. approved medium pressure non-return valve to BS1952.The non-return valve to be as “Pegler” or approved equivalent.	No.	2		
E.	<u>Flexible connections</u> 15mm dia, 300mm long flexible connections including back nuts and jointing to PPRC pipe from sanitary fitting.	No.	13		
TOTAL CARRIED TO COLLECTION					
<u>COLLECTION</u>					
Total brought forward from PG CW/07					
Total brought forward from PG CW/08 above					
TOTAL FOR PLUMBING FITTINGS CARRIED TO SUMMARY OF CIVIL WORKS					

ITEM	DESCRIPTION	UNIT	QTY	RATE	(KSHS)
	6) INTERNAL SOIL & WASTE DRAINAGE <u>Supply and fix UPVC soil system to BS4660 and BS4515 and muPVC waste systems to BS5255 with screwed and socketed joints to BS21. Solvent welded joints shall be as per the system's manufacturer's written instruction.</u> <u>Tender must allow in their pipework prices for all the couplings, connectors, joints etc as required in the running lengths of the pipework and also where necessary for fixing clips, holder to be as Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes.</u> <u>UPVC and muPVC pipe work</u> 100mm heavy duty golden brown pipe class D 100mm diameter heavy duty grey pipe class D 50mm ditto 40mm ditto 32mm ditto <u>Extra over UPVC and muPVC pipework</u> <u>Bends</u> 100mm diameter long radius bend 40mm dia-ditto 40mm diameter sweep Tee 32mm dia-ditto 40mm dia-ditto 32 dia-ditto <u>Traps</u> 100x50mm diameter floor trap and grating Allow for a standard 300x 300x450mm masonry gully trap complete with mild steel cover.				
A	100mm heavy duty golden brown pipe class D	LM	36		
B.	100mm diameter heavy duty grey pipe class D	LM	6		
C	50mm ditto	LM	6		
D.	40mm ditto	LM	6		
E.	32mm ditto	LM	6		
F.	<u>Extra over UPVC and muPVC pipework</u>	LM	6		
G.	<u>Bends</u>				
H	100mm diameter long radius bend	No.	1		
I.	40mm dia-ditto	No.	3		
J.	40mm diameter sweep Tee	No.	3		
K.	32mm dia-ditto	No.	3		
L	40mm dia-ditto	No.	1		
M	32 dia-ditto	No.	2		
	<u>Traps</u>				
	100x50mm diameter floor trap and grating	No.	2		
	Allow for a standard 300x 300x450mm masonry gully trap complete with mild steel cover.	No.	3		
	TOTAL FOR INTERNAL SOIL & WASTE DRAINAGE CARRIED TO SUMMARY OF CIVIL WORKS				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (KSHS)
	7) <u>PORTABLE FIRE PROTECTION EQUIPMENT</u> <u>Supply, deliver and installation of portable fire fighting protection equipment.</u> <u>Water/ Carbon dioxide/ Gas Fire Extinguisher</u> 9litres water/ carbon gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brankets. <u>Dry Chemical Powder</u> 4.5kg dry chemical powder portable extinguisher complete with initial charge and mounting brackets 225mm diameter gong manual alarm bell Fire signage <u>Testing and Commissioning</u> Allow for pressure testing and commissioning of the water reticulation installations to the satisfaction of the Engineer.				
A.		No.	2		
B.					
C		No.	2		
D.		No.	2		
E.		No.	2		
F.		Item	1		
	TOTAL FOR PORTABLE FIRE PROTECTION EQUIPMENT CARRIED TO CIVIL WORKS SUMMARY				

CW/10

ITEM	DESCRIPTION	AMOUNT(KSHS)
	<u>SUMMARY-CIVIL WORKS</u>	
1.	Total for foul drainage & soak pit from page CW/01	
2.	Total for septic tank from page CW/04	
3.	Total for sanitary fittings from page CW/06	
4.	Total for plumbing fittings from page CW/08	
5.	Total for internal soil & waste drainage from page CW/09	
6.	Total for firefighting equipment from page CW/10	
	TOTAL FOR BILL NO. 04:CIVIL WORKS CARRIED TO GRAND SUMMARY	

**BILL NO. 05: BILLS OF QUANTITIES FOR THE PROPOSED
EXTERNAL WORKS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	1) <u>CHAINLINK FENCING</u>				
A.	Provide materials and erect chainlink fence 2.40m high 14 gauge chainlink complete with 12 ½ gauge x 6 strand galvanized barbed wire consisting of 125x 100mm cranked reinforced concrete 1:2:4 (20mm) posts at 3.0m centres and reinforced with 4No.6mm mild steel rods and 6mm mild steel stirrups at 250mm centres with bottom end of post embedded in and including plain concrete 1:3:6 (40mm) base size 300mm x 300mm x600mm deep including all excavations with the whole fence length stretched tight and even including levelling the ground as necessary to the approval of the project manager.	600	LM		
B.	Extra over for straining post supported by 2No. precast reinforced concrete 1:2:4 (20mm) raking strut size 100mm x 100mm x 1800mm with top end bolted to fence with and including 12mm diameter galvanized steel bolt and bottom end of post embedded in and including 400mm x 400mm x 400mm including all excavations and post fitted with 3No. 150x 6mm galvanized hook bolts for straining wires	20	NO.		
	<u>IN-SITU CONCRETE WORK</u> <u>MASS CONCRETE (1:4:8/38-38mm</u> <u>AGGREGATE)</u>				
C	150mm thick concrete haunch at the base of chainlink fence and reduced ground level all around the perimeter fence	90	SM		
	TOTAL CARRIED TO COLLECTION				

EXW/01

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A.	Extra over for double corner post each with raking strut as before described and 3No. 150mm x 6mm galvanized hook bolts for straining wires	10	NO		
B	<u>GATE</u> Provide all materials and fabricate double gate overall size 5.0m x 2.0m high comprising of 40x 25 mm x 3mm hollow section main frame and middle rail with 25x 25mm x 3mm hollow section vertical rails welded at 200mm centers' including one coat red oxide under coat and two coats external quality crown paint and mounted appropriately on to 2No. 300mm x 300mm x 3000mm overall height concrete 1:2:4 (20mm) reinforced with 4No. 12mm square twisted mild steel bars and 6mm stirrups at 200mm centres including 1200m x 1200mmx250mm thick concrete (1:2:4) (20mm) bases reinforced with 12mm square twisted reinforcement bars both ways at 200mm centres including all excavations formwork and rendering to all exposed surfaces and painting in crown external quality paint.	1	NO		
C.	Ditto pedestrian gate size 1200x2000mm high.	1	NO.		
	Total Carried to collection <u>COLLECTION</u> Total from EXW/01 Total from above				
	TOTAL FOR FENCING CARRIED TO SUMMARY				

EXW/02

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	2) <u>GUARD HOUSE</u> <u>ELEMENT NO.1</u> <u>SUBSTRUCTURES</u> NOTE; (I) All work measured under this element is up to and including the floor slab but excluding the finishes thereon.				
A	Clear the site of all the bush shrubs undergrowth and small trees, grub up roots and cart away or burn all arisings (approx area 100sq.sm).	-	ITEM		
B	<u>Excavations and earthworks</u> Excavate over-site average 200mm deep to remove vegetable soil load up wheel and deposit about 100meters away and later spread and level on site where directed.	13	SM		
C	Excavate to reduce levels not exceeding 1.5meters deep commencing at stripped level.	1	CM		
D	Excavate for strip foundation trenches occurring not exceeding 1.5meters deep commencing from reduced level.	6	CM		
E	Excavate for column bases occurring not exceeding 1.5meters deep commencing from reduced level.	1	CM		
F.	Extra over excavations for excavation in rock class I.	6	CM		
G.	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.	-	ITEM		
H	Allow for planking and strutting to sides of excavations.	-	ITEM		
I	<u>Disposal</u> Load surplus excavated material and cart away.	3	CM		
J	Filling return fills and ram selected excavated material around foundations.	3	CM		
K	<u>Hardcore as described.</u> 300mm thick layer of imported hardcore filling including leveling and consolidating in 150mm layers.	8	SM		
	<i>TOTAL CARRIED TO COLLECTION</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<u>Blinding</u> 50mm thick quarry dust blinding to the surface of hardcore, rolled smooth to receive polythene sheeting (m.s).	8	SM		
B	<u>Insecticide treatment</u> "Termidol" or other equal and approved chemical insecticide treatment prepared and applied according to the Manufacturers's printed instructions.	8	SM		
C	<u>Damp proof membrane</u> 500mm gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding (measured nett – allow for overlaps).	10	SM		
D	<u>In-situ concrete work</u> <u>Mass concrete (1:3:6/38-38mm aggregate.</u> 50mm thick blinding under foundations.	8	SM		
E	<u>Vibrated reinforced concrete (1:2:4/20-20mm aggregate) as described in:</u> Strip foundations	2	CM		
F	Column bases	1	CM		
G	Columns	1	CM		
H	150mm thick ground floor slab	10	SM		
	<u>Steel reinforcement</u> <u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position.</u> <u>High tensile square twisted bars to BS 4461 as described in:</u>				
I	12mm diameter	29	KG		
J	8mm diameter	22	KG		
K	<u>Mesh reinforcement</u> Fabric mesh reinforcement to BS44483 ref:A142 including laps tying wire and spacer blocks complete (measured net- allow for laps)	10	SM		
L	<u>Sawn formwork as described to:</u> Vertical sides of columns	2	SM		
M	Edge of floor slab 75-150mm high	13	LM		
	TOTAL CARRIED TO COLLECTION				

EXW/04

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	<u>Foundation walling.</u> 200mm thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swgx25mm wide hoop iron in every alternate course.	13	SM		
B	<u>Plinth area finishes</u> 12mm thick cement and sand (1:3) wood float render to plinth area.	5	SM		
C	Prepare and apply three coats black bitumastic paint to rendered area	5	SM		
TOTAL CARRIED TO COLLECTION BELOW					
<u>COLLECTION:-</u> Total brought forward from PG EXW/03 Total brought forward from PG EXW/04 Total brought down from above					

	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

EXW/05

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A	Ring beam	1	CM		
B	Columns	1	CM		
C	100mm thick Worktops	3	SM		
D	12mm diameter	55	KG		
E	8mm diameter	21	KG		
F	Sides and soffits of ring beams/beams.	6	SM		
G	Sides of columns.	3	SM		
TOTAL FOR ELEMENT 02: RC SUPERSTRUCTURES CARRIED TO SUMMARY					

TOTAL CARRIED TO SUMMARY

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.4; ROOFING CONSTRUCTION</u> <u>All timber to be sawn cypress of GS grade seasoned to an equilibrium moisture content between 9% and 15% and to a requirement of KS 02771 of 1991 treated with approved wood preservative.</u>				
A	100 x 50mm wall plate on and including 10mm cement and sand (1:4) mortar bed secured to reinforced concrete ring beam (m.s) by mild steel anchor bolts (m.s).	7	LM		
	<u>The following in 56No. nailed triangular timber trusses spanning clear 12,700mm, height 2500mm including hoisting and placing 3500mm above floor slab level.</u>				
B	100x50mm trussed rafter	9	LM		
C	100x50mm strut/tie.	13	LM		
D	75x50mm sawn celcured cypress purlins.	18	LM		
	<u>Covering</u> <u>Pre-painted roof sheets</u>				
E	Gauge 28 resincoat sheet IT4 profile as MRM works.	14	SM		
F	Ditto ridge covers 300mm girth.	4	LM		
	<u>Wrot cypress</u>				
G	25x200mm fascia board fixed to ends of rafters (m.s).	7	LM		
H	Ditto barge boards.	8	LM		
	<u>Painting</u> <u>Prime only back of wood before fixing:-</u>				
I	Surfaces 100-200mm girth.	7	LM		
	<u>Knot prime stop and prepare and apply one under coat and two finishing coats of gloss oil paint to:-</u>				
J	General surfaces of wood 200-300mm girth.	15	LM		
	TOTAL FOR ELEMENT NO.4; ROOFING AND RAINWATER GOODS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.5: FINISHES.</u>				
	<u>EXTERNAL WALL FINISHES</u>				
A	12x12mm cement and sand (1:3) mortar horizontal recessed pointing to natural stone walling.	30	SM		
	<u>20mm thick cement, sand render with wood float finish:-</u>				
B	Surfaces of walls and beams and gutters.	5	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats exterior quality plastic emulsion paint on:-</u>				
C	Fair faced surfaces of walls, beams and gutters.	5	SM		
	<u>INTERNAL WALL FINISHES</u>				
D	Hack out joints apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams.	31	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u>				
E	Plastered surfaces	31	SM		
	<u>FLOOR FINISHES</u>				
	<u>In situ cement and sand (1:3) screeded beds, with steel trowelled finish, on concrete:-</u>				
F	40mm thick coloured screed finished smooth.	8	SM		
G	100mm high skirting.	11	LM		
	<u>CEILING FINISHES:</u>				
I	Chipboard ceiling fixed to and including 50x50mm sawn cypress brandering at 600mm centres both directions (m.s) fixed with clout headed nails and set out in symmetrical panels with "V" joints.	8	SM		
J	Extra over celotex ceiling for forming removable access trap door size 750x750mm with 100x50mm sawn treated cypress trimming joists 120x25mm wrot cedar frame all round and 12mm soft board removable panel set loose on top of framing including painting.	1	NO		
	<u>Prime grade wrot cypress timber selected and kept clean:-</u>				
K	100x25mm cornice with two labours.	11	LM		
	<u>Sawn cypress:-</u>				
L	50x50mm brandering.	33	LM		
	<u>Painting and decorations:-</u>				
M	Prime only back of timber before fixing surfaces not exceeding 100mm girth.				
	<u>Knot prime and stop and prepare and apply three coats first quality emulsion paint</u>				
N	Chip board ceiling.	8	SM		

P	Timber surfaces not exceeding 100mm girth.	11	LM		
TOTAL FOR FINISHES CARRIED TO SUMMARY					

EXW/09

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	<u>ELEMENT NO.06: WINDOWS & DOORS.</u>				
	<u>1) WINDOWS</u>				
A	<u>Wrot hardwood:-</u> 100x50mm window frame, mullions, transoms and the like, with 2no. labours.	9	LM		
B	50mm x 25mm architrave	6	LM		
C	25x25mm quadrant.	6	LM		
D	<u>Aluminium "NACO" heavy duty louver blade carrier</u> <u>150mm wide blades:-</u> Pair of five (5No.) blades carrier.	6	Sets		
E	<u>Burglar Proofing</u> <u>Mild steel burglar proofing to timber casement windows</u> <u>fabricated from 12mm round bars at 125mm centres</u> <u>horizontally including drilling and securing to timber</u> <u>and allowing offsets to give 10mm space from glass to:-</u> Window overall size 1000 x 900mm high.	3	NO		
F	<u>Glazing:-</u> <u>5mm thick clear sheet glazing:-</u> 150 x 500mm long Louvre glasses with rounded edges.	36	NO		
G	<u>Sills</u> 125x20mm thick sill with one curved edge including bedding and pointing in cement and sand (1:3) mortar.	4	LM		
H	<u>Painting</u> <u>Prime only back of wooden surfaces with aluminium or</u> <u>other equal and approved primer before fixing.</u> Surfaces not exceeding 100mm girth.	12	LM		
J	Surfaces 100-200mm girth.	12	LM		
K	<u>Prepare and apply three gloss oil paint on:-</u> Metal surfaces internally.	3	SM		
L	Metal surfaces externally.	3	SM		
M	<u>Knot prime stop and prepare and apply three coats of</u> <u>clear polyurethane varnish to:-</u> General surfaces of wood exceeding 200mm but not exceeding 300mm girth.	9	LM		
N	General surfaces of wood not exceeding 100mm girth.	12	LM		

O	2) <u>STEEL DOORS</u> Steel panel door size 900mmx2100mm high including all locking devices	1	NO		
	TOTAL FOR WINDOWS & DOORS CARRIED TO SUMMARY				

EXW10

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	TOTAL FOR GATE SIDE WALL CARRIED TO SUMMARY				

EXW/11

A	ELEMENT NO. 08: ELECTRICAL WORKS Supply and install lighting points wired in 3 x 1.5mm single core cables drawn in 20mm diameter PVC heavy gauge conduit concealed including all necessary accessories but excluding the lighting fittings and switches.				
	iv. In one gang two way.	3	No.		
B	Supply and install power point wired in 2.5mm ² single core cables drawn in 20mm diameter PVC heavy gauge conduits concealed including all necessary accessories but excluding the socket outlet.				
	iii. For twin socket outlet	3	No.		
C	Supply and install ceiling fan points wired in 2.5mm ² single core cables drawn in 20mm diameter PVC heavy gauge conduits concealed but excluding the fan.	1	No.		
		1	NO		
D	Supply and install 24" Ceiling fan complete with the control.				
E	Supply and install the following switches:-				
	vi. One gang two way switch.	2	NO		
F	Supply and fix the following lighting fittings:				
	iv. 1200mm fluorescent fitting batten complete with tube as 'thorn' or equal and approved.	2	NO		
	v. 100 watts bulkhead fitting complete with energy saving bulb.	3	NO		
G	Supply and install 13Amps switched socket outlets complete.				
	iii. Twin switched socket outlet.	1	NO		
H	Supply and install cable loop in box complete with 80Amps Cut-Out and Connector.	1	NO		
		60	LM		
I	Supply and connect 16mm ² 2-Core (PVC SWAPVC) armored underground cable.				
J	Trenching, laying, lifting and back filling for the underground cable	60	LM		
		10	NO		
K	Supply and install cable glands for the underground cable.				
TOTAL CARRIED TO COLLECTION					

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
A	Supply and fix Gate lights complete with 14watts screw-type energy bulbs.	2	NO		
B	Supply and fix 15Amps Photo-cell as Zidion	1	NO		
C	Supply and fix 16 Gauge Metal lopping-box complete with twin cut-outs and HRC fuses	1	NO		
D	Cable route markers with inscription of "HATARI" on it.	60	LM		
E	6-way consumer unit as "Hager/Havells" complete with its integral switch	1	NO		
F	2No miniature circuit breakers <ul style="list-style-type: none"> • 30Amps MCB • 5Amps MCB 	2 2	NO NO		
TOTAL CARRIED TO COLLECTION BELOW					
<u>COLLECTION:-</u> Total brought forward from PG EXW/12 Total brought down from above					
TOTAL FOR ELECTRICAL WORKS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	PAGE NO	AMOUNT KSHS.
	<u>COLLECTION SUMMARY</u> <u>(GUARD HOUSE)</u>		
A	ELEMENT 01 : SUBSTRUCTURES	EXW/05	
B	ELEMENT 02 : REINFORCED CONCRETE FRAME	EXW/06	
C	ELEMENT 03: WALLING.	EXW/07	
D	ELEMENT 04 : ROOFING	EXW/08	
E	ELEMENT 05 : FINISHES	EXW/09	
F	ELEMENT 06 : WINDOWS & DOORS	EXW/10	
G	ELEMENT 07: GATES & SIDE WALL	EXW/11	
H	ELEMENT 08 : ELECTRICAL WORKS	EXW/13	
I			
	TOTAL FOR GUARD HOUSE CARRIED TO EXTERNAL WORKS SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
	3) 2 NO. TWIN DOOR TOILET BLOCKS (Separate Male and Female) <u>1no.Twin Door Toilet Block</u>				
A.	Excavate pit not exceeding 1.5m deep	7	CM		
B.	Ditto 1.5 – 3.0m deep	2	CM		
C.	Ditto 3.0-4.5m deep	2	CM		
D.	Ditto 4.5 -6.0m deep	2	CM		
E.	Extra over for excavation in rock n.e 1.5m deep	7	CM		
F.	Extra over for excavation in rock 1.5-3.0m	2	CM		
G.	Ditto 3.0-4.5m deep	2	CM		
H.	Ditto 4.5-6.0m deep	2	CM		
I.	1:2:4 concrete in strip foundation	1	CM		
J.	150mm foundation walling	10	SM		
K.	100mm thick 1:2:4 concrete suspended slab.	6	SM		
L.	12m square twisted reinforced bar	50	KGS		
M.	Sawn form work to soffit of concrete slab	4	SM		
N.	Ditto to edges 75 -150mm high	10	LM		
O.	Form 250 x 100mm opening in the suspended slab.	2	NO		
P.	Ditto 100mm opening	1	NO		
Q.	150mm stone walling in gauged mortar	32	SM		
R.	1:2:4 concrete in lintel/ beam	1	CM		
S.	12mm reinforced bars	33	KGS		
T.	8mm ditto	14	KGS		
U.	Sawn formwork to sides and soffits of lintel	4	SM		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A.	100 x 50mm sawn cypress wall plate fixed with hoop iron straps	6	LM		
B.	100 x 50mm ditto rafters	11	LM		
C.	75 x 50mm purlins	12	LM		
D.	G.C.I gauge 30 roofing sheets	13	SM		
E.	200 x 25mm fascia board	11	LM		
F.	100 x 50 wrot door frame rebated	10	LM		
G.	45mm framed ledged brace batten door size 900 x2100mm	2	NO		
H.	100mm pressed steel butt hinges	3	PRS		
I.	250mm long chromium plated pad bolt	2	NO		
J.	150mm long barrel bolt	2	NO		
K.	20mm cement and sand plaster to walling (Internal)	27	SM		
L.	20mm cement and sand rendering to walling(External)	23	SM		
M.	30mm cement and sand rendering to Floor	4	SM		
N.	100mm diameter upvc vent pipe 3.0m long	1	NO		
O.	100mm pvc ballon grating	1	NO		
P.	Paving slabs 50mm thick	8	SM		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS.
A.	250 x 100 x 100mm thick cement and sand footrest	4	NO		
B.	Prepare and apply three coats gloss paint on plastered walling internally	21	SM		
C.	Prepare and apply 2 coats emulsion paint on rendered walling externally	14	SM		
D.	Knot, prime and apply one undercoat and two-coat gloss paint on timber	15	SM		
E.	Ditto door frame 100-200mm girth	11	LM		
F.	Ditto fascia board 200-300mm girth	11	LM		
	Total Carried to collection				
	<u>COLLECTION</u>				
	From page EXW/15				
	From page EXW/16				
	From page EXW/17 above				
	SUB -TOTAL FOR INO. TWIN DOOR PIT LATRINE				
	X 2 (SEPARATE MALE & FEMALE TOILETS BLOCKS)				X 2
	TOTAL FOR 2 NO. TWIN DOOR TOILET BLOCKS CARRIED TO EXTERNAL WORKS SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	4) MASONARY UNDERGROUND TANK				
	<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 arising.	95	SM		
B	Excavate pit not exceeding 1.5m deep.	90	CM		
C	Ditto starting from 1.5m deep n.e 3.0m deep	90	CM		
D	Excavate over all kinds of excavation for excavating in rock irrespective of class.	90	CM		
E	Allow for keeping excavations free from all water by pumping or otherwise.	-	ITEM		
F	Ditto for planking and strutting to sides of excavations.	-	ITEM		
	<u>Disposal</u>				
G	Return fill and ram selected excavated material around foundations.	81	CM		
H	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area.	99	CM		
	<u>Imported filling</u>				
I	300mm thick (average) approved broken quarry stone hardcore filling in two equal layers well compacted.	38	SM		
J	50mm thick stone dust blinding to surfaces of hardcore.	38	SM		
K	50mm plain concrete(1:4:8 class 15/20mm)blinding to:	38	SM		
	<u>Vibrated reinforced concrete class 25/20mm (1:1^{1/2}:3) in:-</u>				
L	300mm raft foundation slab	38	SM		
M	Concrete base(assorted sizes)	110	KG		
N	150mm thick impervious natural stone walling	68	SM		
O	150mm thick R. C. suspended slab with one opening size 600x600mm	33	SM		

P	600 x 600mm thick steel access covers with frame.	1	NO		
	Total to collection page WT/3				

EXW/18

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO.1 CONT'D</u>				
	<u>Reinforcement (All Provisional)</u>				
	<u>High tensile square twisted bars BS 4461 as described in:</u>				
A	8mm diameter bars	67	KG		
B	10mm ditto	272	KG		
C	12mm ditto	120	KG		
	<u>Steel mesh fabric reinforcement to BS 4483</u>				
D	Steel fabric mesh reinforcement type A142 weighing 2.2kg/M ² and to BS4483 and with 150mm wide side laps (measured net no allowance for laps).	38	SM		
	<u>Damp proof membrane</u>				
E	1000 gauge polythene sheeting laid under concrete floor bed.	38	SM		
	<u>Sawn formwork to:</u>				
F	Edges of ground floor bed exceeding 150mm but not exceeding 300mm girth.	25	LM		
G	Sides of concrete columns	15	SM		
H	Soffits of suspended slab	29	SM		
I	Edges of suspended slab exceeding 100mm but not exceeding 200mm girth	23	LM		
J	Vertical sides of opening 100-200mm	3	LM		
	Carried to collection page WT/3				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO.1 CONT'D</u>				
	<u>Floor Finishes</u>				
A	32mm thick cement and sand (1:4) water proofed bedding screed steel floated.	29	SM		
	<u>Wall Finishes</u>				
B	Water proof rendering to walling externally 20mm thick.	69	SM		
C	Ditto 12mm thick cement and sand plaster 1:4 steel trowelled.	64	SM		
	<u>Ceiling Finishes</u>				
D	12mm thick cement and sand (1:4) plaster steel trowelled to soffits of suspended slab.	33	SM		
E	32mm thick cement and sand (1:4) screed to top of suspended slab.	33	SM		
F	25mm PPR pipe in jointing	40	LM		
G	Excavate trench for small pipe, return and ram	40	LM		
H	25mm 'peglar' gate valve	2	NO		
	Total carried to collection				
	<u>COLLECTION</u>				
	Total from page WT/1 EXW/18				
	Total from page WT/2 EXW/19				
	Total from page WT/3 EXW/20 above				
	TOTAL FOR UNDERGROUND WATER TANK CARRIED TO EXTERNAL WORKS SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	5) <u>R. C. ELEVATED WATER TOWER</u> <u>ELEMENT NO. 1: SUBSTRUCTURES</u> <u>ALL PROVISIONAL</u> <u>NOTE:</u> <u>All work measured under this element is up to and including the floor slabs but excluding the finishes thereon: -</u> <u>SITE CLEARANCE:</u>				
A	Clear the site of all bushes, shrubs, undergrowth and small trees grab uproot and cart away burn all arising.	25	SM		
B	Excavate over site average 250mm deep to remove vegetable soil load up wheel and deposit on site not exceeding 100m	16	SM		
C	Excavate over-site to reduce levels	4	CM		
D	Excavate for strip foundation trenches not exceeding 1.5m deep commencing from reduced level.	11	CM		
E	Ditto bur for column bases	3	CM		
F.	Extra over excavation for excavating in rock class 1	1	CM		
G.	Allow for keeping excavations free from mud and all water including spring and running water by pumping paling or other approved means.	-	ITEM		
H.	Allow for planking and strutting to sides of excavations.	-	ITEM		
	<i>CARRIED TO COLLECTION</i>				

EXW/21

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<u>DISPOSAL</u>				
A	Load surplus excavated material wheel and deposit onsite not exceeding 100m away.	10	CM		
	<u>FILLING:</u>				
B	Return in and ram selected excavated material around foundations.	9	CM		
	<u>HARDCORE</u>				
C	300mm approved hardcore filling including leveling consolidating and or hand packing in two layers.	3	CM		
	<u>BLINDING:</u>				
D	50mm thick layer murrum or other equal and approved blinding to the surface of hardcore; rolled smooth to receive polythene sheeting (m.s.)	9	SM		
	<u>INSECTICIDE TREATMENT</u>				
E	'Termidor' or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	9	SM		
	<u>REMOVAL OF TERMITES NESTS</u>				
F	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		
	<i>CARRIED TO COLLECTION</i>				

EXW/22

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
A	<u>DAMP PROOF MEMBRANE</u> 500 gauge polythene or other equal and approved plastic sheets damp proof membrane laid over blinding (measured net – allow for laps)	9	SM		
B	<u>IN-SITU CONCRETE WORK</u> <u>MASS CONCRETE (1:4:8/38-38mm AGGREGATE)</u> 50mm thick blinding under foundations	2	SM		
C	<u>VIBRATED REINFORCED CONCRETE (1:2:4/20-20MM) AGGREGATE AS DESCRIBED IN:-</u> Strip foundations	2	CM		
D	Column /Bases	4	CM		
E	150mm thick floor slab (1:2:4) <u>STEEL REINFORCEMENT</u> <u>SUPPLY AND FIX BAR/ROD REINFORCEMENT INCLUDING BENDING HOOKS TRYING WIRE CUTTING SPACER AND SUPPORTING ALL IN POSITION AS DESCRIBED.</u> <u>HIGH TENSILE SQUARE TWISTED BARS TO B.S. 4461</u>	9	SM		
F	16mm diameter bars	80	KG		
G.	Y12 mm bars	120	KG		
H	10mm diameter	30	KG		
I	<u>MILD STEEL ROD TO B.S. 4449</u> 8mm diameter	25	KG		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<u>GROUND FLOOR SLAB REINFORCEMENT</u> <u>High tensile square twisted bars to BS 4461</u>				
A	10mm bars (both ways)	200	KGS		
	<u>SAWN FORMWORK AS DESCRIBED TO:</u>				
B	Edges of floor slabs 75 - 150mm high	15	LM		
	<u>FOUNDATION WALLING</u>				
C	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.	16	SM		
	<u>PLINTH AREA FINISHES</u>				
D	20mm thick cement and sand (1:3) wood float render to plinth area.	8	SM		
E	Prepare and apply three coats black bituminous paint to rendered areas.	8	SM		
F	50mm thick precast concrete slab size 600mmx 600mm laid on and including 50mm thick consolidated sand bed and 100mm murram sub-base including all necessary excavations and anti- termite treatment to sub-base.	25	SM		
	TOTAL CARRIED TO COLLECTION				
	Brought forward page EXW/21				
	Brought forward page EXW/22				
	Brought forward page EXW/23				
	Brought down from page EXW/04 above				
	TOTAL FOR ELEMENT NO. 01: SUBSTRUCTURES CARRIED TO SUMMARY				

EXW/24

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	ELEMENT NO. 02 R.C. FRAME(SUPERSTRUCTURE) <u>In-situ concrete (1:2:44/20) class 25/20 finished fair faced: including moulds necessary reinforcement bars: bent and hooked at end; hoisting; bedding joined and pointed in cement and sand (1:4) mortar as described.</u>				
A	250x400mm -columns	4	CM		
	<u>Vibrated reinforced concrete (1:2:4/20-25 – 20mm aggregates) as described in:-</u>				
B	Ring Beams/suspended beams	3	CM		
C	200mm suspended slab	9	SM		
	<u>Steel reinforcement</u> <u>Supply and Fix steel bar/rod reinforcement including bending hooks trying wire cutting spacer blocks and supporting all in position.</u>				
	<u>High Tensile square twisted bars to B.S. 4461 as described in:-</u>				
D	Y16 mm diameter(columns/suspend beam)	235	KGS		
E	12mm diameter (ring beam)	60	KG		
F	10mm diameter bars(slab)				
	<u>Mild Steel rods to B.S. 4449 as described in:-</u>				
G	8mm diameter(columns)	20	KG		
H	<u>Sawn Form Works as described to:-</u>				
	Side and soffits to ring beams/columns/beams	60	SM		
	20x 40mm RHS sections box satin ladder embedded and fixed on side wall as directed	7	LM		
	TOTAL FOR ELEMENT NO. 02: R. C. FRAME CARRIED TO SUMMARY				

EXW/25

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<u>ELEMENT NO. 03</u> <u>ROOFING</u> <u>All timber to be sawn cypress seasoned to an equilibrium moisture content of between 9% and 15% and to the requirement of k.s. 02771 of 1991 treated with approved wood preservative.</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)	15	LM		
	<u>The following in nailed timber trusses including hoisting and placing 3000mm above floor slab level</u>				
B	100x 50mm rafters.	20	LM		
C	100x 50mm tie beams	15	LM		
D	75x 50mm strut/ties.	10	LM		
	<u>INDEPENDENT MEMBERS</u>				
E	50 x 50mm purlins	25	LM		
	<u>ROOF COVERING</u>				
F	Gauge 28 IT/BP760 Profiled sheets fixed on timber purlins (m.s)	20	SM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
A	Gauge 28 ridge capping to match covering <u>WROT CYPRESS</u>	4	LM		
B	25 x 150mm fascia board fixed to end of rafters (m.s)	14	LM		
C	25 x 150mm barge board fixed to the end of battens. <u>SUNDRIES</u>	10	LM		
D	12mm diameter x 250mm long black mild steel anchor bolt embedded in ring beam at 1200mm centers including drilling holes in timber.	8	NO		
E	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) <u>PAINTING</u> <u>PRIME ONLY BACK OF WOOD BEFORE FIXING</u>	16	NO		
F	Surface 100 – 200mm girth. <u>KNOT PRIME STOP AND PREPARE AND APPLY ONE UNDER COAT AND TWO FINISHING COATS OF GLOSS OIL PAINT (abd) To:</u>	70	LM		
G	General surface of wood 200 – 300 mm girth.	24	LM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<u>RAIN WATER GOODS</u>				
	<u>28 Gauge pre-painted 2000mm galvanized iron box gutters properly jointed and fixed to fascia with brackets to BS 1091</u>				
A	Size 150mm x 125mm	14	LM		
B	Extra in box gutter for 75mm outlet	4	NO		
C	Ditto for stopped end	1	NO		
	<u>Ditto for stopped end 24 gauge pre-painted galvanized iron down pipes properly jointed and fixed to walls with brackets to BS 1091</u>				
D	75mm diameter	12	LM		
E	Extra over down pipe for sawn neck	4	NO		
F	Ditto for shoe	4	NO		
	Total Carried to Collection				
	<u>COLLECTION</u>				
	Brought Forward from EXW/26				
	Brought Forward from EXW/27				
	Brought forward from EXW/28 above				
	TOTAL FOR ELEMENT NO. 03: ROOFING CARRIED TO SUMMARY				

EXW/28

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<u>ELEMENT NO. 04</u> <u>DOORS/GRILLS</u> <u>Grill proofing grilles:-</u> <u>25x25mm Hollow section tubes of approved design</u>				
A	Door size 900x2100mm high including Angle line frame.	1	NO		
B	Screen wall cladding and Handrails	50	SM		
	<u>Iron Mongery</u> <u>Supply and fix the following iron mongery:</u>				
C	Pressed steel tower bolts (padlocking).	2	NO		
D	100mm pressed steel door hinges welded to angle line frame.	2	NO		
	<u>Prepare and apply one undercoat and 2 finishing coats of gloss oil paint to:-</u>				
E	Burglar proofing grills(doors/cladding & Handrails)	50	SM		
	<u>Prepare and apply one coat of calcium plumbate and 2 coats of gloss oil paint to:-</u>				
F	General surfaces of metal gutters	8	LM		
G	Ditto butt for down pipes	32	LM		
	TOTAL FOR ELEMENT NO.04: DOORS/GRILLS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY.	UNIT	RATE	SHS.
	<u>ELEMENT NO. 05</u> <u>FINISHES</u> <u>Floor Finishes</u> <u>Cement and sand (1:4) screed as described</u>				
A	40mm thick backing steel trowelled smooth in water proof cement <u>Finishes (Column/slab)</u> <u>Two coats gauged cement lime and sand (1:2:9) plaster steel trowelled smooth</u>	18	SM		
B	25mm(minimum) thick to underside of slab, beams and columns internally &externally <u>Ceiling finishes</u> <u>Lining</u>	60	SM		
C	12mm thick celotex ceiling on brandering (m.s) and set in systematic V-joints.	16	SM		
D	Extra over for trap doors size 600x 600mm <u>Sawn cypress</u>	1	NO		
E	75x50mm brandering plugged	12	LM		
F	50x50mm brandering including eves	40	LM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
A	<u>Wrot Cypress</u> 12x100mm curved cornice plugged	12	LM		
B	<u>Painting</u> <u>Prime only back of frame with aluminium or other equal and approved primer before fixing as described to:</u> Timber, surface not exceeding 100mm girth	12	LM		
C	<u>Knot prime stop and prepare and apply one undercoat and two finishing coats gloss oil crown paints to:</u> General surfaces of wood not exceeding 100mm girth	12	LM		
D	<u>Paint and Decoration</u> <u>Prepare and apply one undercoat and three coats crown plastic emulsion paint or other approved to:</u> Plastered columns/beams internally & externally	60	LM		
E	<u>Prepare and apply three coats of crown or other approved paint to:</u> Celotex lining internally /eaves	16	SM		
TOTAL CARRIED TO COLLECTION					
<u>COLLECTION</u> Brought forward from page EXW/30 Brought down from above					
TOTAL FOR ELEMENT NO. 05: FINISHES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS
	<u>ELEMENT NO. 06</u> <u>PVC TANKS & PLUMBING WORKS</u>				
A	<u>PVC Plastic Water Storage Tanks</u> Supply and install on existing water tower concrete slab 4.0M above ground level 5,000 litres PVC plastic water tanks assembled complete with medium-pressure ball valve inlet, outlet connections and drain cock and all other connections including ball valve and float. The tank shall be 'Ken tank' model or any other approved including all the necessary pipe work.	1	NO		
B	Ditto but installed on ground concrete slab	1	NO		
C	<u>Booster Pumps</u> Supply, deliver and install electrically driven twin booster pumps with a single phase power source, as 'Pedrollo' or its equivalent.	1	SET		
D	<u>Control Panel</u> Control panel for the above pumps with contactors, over voltage and under voltage protection relays, start /stop push buttons and indicator lights.	1	NO		
E	<u>Electrical Accessories</u> <ul style="list-style-type: none"> 32Amps double pole fused isolator complete with its integral switch. Four-way consumer unit complete with its integral switch. 30 Amps m.c.bs for the above C/U. 2.5 mm² flex cable as E/A cables. <u>Testing & Commissioning</u> Allow for flushing out and testing the works as required to the satisfaction of the Engineer.	1 1 2 20	NO NO NO LM		
F		-	ITEM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<u>PLUMBING WORKS</u> <u>Supply, deliver and install Polypropylene Random (PP-R) PN-20 Oxy-stable pipe work to din 8077. pipe jointing shall be by polyfusion or use of electrical coupling. Tenderer must allow for jointing, clippings couplings, metal/plastic threaded adaptors and sockets where required for the connection of valves, sockets sliding and fixed joints, support raceways, isolating sheathes, elastic materials expansion arms and bends, crossovers etc.</u> <u>PPR pipe fixed on concrete surface</u> 20mm diameter PPRC pipe 25mm –Ditto-	75 40	LM LM		
A.					
B.	<u>Extra- over PPR pipe work for the following:</u> <u>Bends/ Elbow</u> 20mm diameter PPR bend 25mm diameter ditto	10 3	NO NO		
C.	25mm x 20mm threaded bend	1	NO		
D.					
E.	<u>Tees</u> 20mm equal tee 25mm ditto	2 2	NO NO		
F.					
G.	<u>Reducers</u> 25mmx20mm reducer 20mmx13mm ditto	2 1	NO NO		
H.					
I.	<u>Transition fittings</u> 25mmx 3/4" threaded/transition fittings 20mmx13mm ditto	6 2	NO NO		
I.					
J.	<u>Unions</u> 20mm union 25mm ditto	3 2	NO NO		
K.	<u>Sockets</u> 20mm socket 25mm ditto	6 2	NO NO		
L.					
M.					
N.					
	TOTAL CARRIED FORWARD TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
A.	<u>Gate valve</u> 20mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS1952, with wheel and head joints to tubing. The gate valve to be as “Pegler” or approved equivalent.	2	NO		
B.	25mm ditto	1	NO		
C	<u>Non-return valve</u> 20mm diameter approved medium pressure non-return valve to BS1952. The non-return valve to be as “Pegler” or approved equivalent.	NO	1		
D.	25mm ditto	NO.	1		
E.	<u>Testing & Commissioning</u> Allow for flushing out and sterilization of the cold water system as required to the satisfaction of the Engineer.	-	ITEM		
Total carried to Collection					
<u>COLLECTION</u>					
Total from page EXW/32					
Total from page EXW/33					
Total from page EXW/34 above					
TOTAL FOR PVC TANKS & PLUMBING WORKS CARRIED TO SUMMARY OF WATER TOWER					

[illegible]

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	6) <u>CAR SHED & LANDSCAPING</u>				
	a) <u>CAR SHED</u>				
A	Excavate over-site average 200mm deep and deposit on site not exceeding 100m away.	120	SM		
B	100mm thick compacted murram.	86	SM		
C	Excavate pit size 400mm diameter x 600mm deep.	2	CM		
D	Extra over for excavating in rock	2	CM		
E	50mm diameter GMS pipe 3.0m overall length with X-bars welded at bottom and U shaped plate at top.	18	NO		
F	Mass concrete (1:3:6) in the GMS column bases.	2	CM		
G	100mm x 50mm cypress timber rafter fixed to the U-shape plate on top of GMS columns.	40	LM		
H	75mm x 50mm purlins	68	LM		
I	Gauge 30 GCI sheets roof covering	90	SM		
	b) <u>LANDSCAPING</u>				
J	Excavate pit size 1000mm x 1000mm deep commencing from ground level.	12	CM		
K	Supply, plant, weed and tend well assorted trees/shrubs.	12	NO		
L	6 months maintenance	-	ITEM		
	TOTAL FOR SHED CARRIED TO SUMMARY OF EXTERNAL WORKS				

EXTERNAL WORKS SUMMARY

ITEM	DESCRIPTION	PAGE NO	AMOUNT KSHS.
	<u>COLLECTION SUMMARY (EXTERNAL WORKS)</u>		
A	CHAINLINK FENCING	EXW/02	
B	GUARD HOUSE	EXW/14	
C	2NO. TWIN TOILETS	EXW/17	
D	UNDERGROUND MASONARY WATER TANK	EXW/20	
E	R. C. ELEVATED WATER TOWER	EXW/36	
F	CAR SHED & LANDSCAPING	EXW/37	
	TOTAL FOR BILL NO. 05: EXTERNAL WORKS CARRIED TO GRAND SUMMARY		

BILL NO. 06:PC & PROVISIONAL SUMS.

[illegible]

**BILLS OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF TAKABA SUB
COUNTY HEADQUARTERS
GRANDSUMMARY**

ITEM	DESCRIPTION	Page No.	For official use only		For contractor's use only	
			Kshs.	Cts.	Kshs.	Cts.
A	<u>GRAND SUMMARY</u> Particular Preliminaries and General Preliminaries	GP/13				
B.	Building Works	SCH/17				
C.	Electrical Works	EW/03				
D.	Civil Works	CW/11				
E.	External Works	EXW/38				
F.	PC & Provisional sums	PC/01	2,850,000	00	2,850,000	00
	SUB-TOTAL					
	Allow 5% of contract sum For Project Management Expenses.					
	SUB TOTAL					
	ADD 16% VAT					
	TOTAL CARRIED TO FORM OF TENDER					

In words Kenya Shillings

Contractor:

VAT Registration No:

Pin No:

Address:

Signature: Date:

Witness:

Address:

Signature: Date: