

REPUBLIC OF KENYA



MANDERA COUNTY GOVERNMENT

**PROPOSED CONSTRUCTION OF 3 NO. WARDS,
MATERNITY BLOCK, LABORATORY BLOCK & STORE AT
BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY**

IN

MANDERA COUNTY

TENDER DOCUMENTS

TENDER NO:MCG/OT/24/2019-20.....

IFMIS NEGOTIATION NUMBER: 777750

FEBRUARY, 2020

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INTRODUCTION

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

SECTION I

INVITATION FOR TENDERS

Tender reference no. : **MCG/OT/24/2019-20**

Tender Name: PROPOSED CONSTRUCTION OF 3 NO. WARDS, MATERNITY BLOCK, LABORATORY BLOCK & STORE AT BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY

The Mandera *County Government* invites sealed PROPOSED CONSTRUCTION OF 3 NO. WARDS, MATERNITY BLOCK, LABORATORY BLOCK & STORE AT BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY candidates may obtain further information from the office of the director supply chain management services at the county treasury during normal working hours and via email on supplychain@mandera.go.ke.

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

www.mandera.go.ke. and also at the tenders portal at tenders.go.ke which can also be accessed from supplier's portal

1.3 Completed set of tender documents shall be scanned and submitted electronically through IFMIS SUPPLIER PORTAL at supplier.treasury.go.ke using the specific IFMIS negotiation number provided in the tender documents as per the requirements contained in the tender documents so as to be received on or before **Thursday 5th March 2020**.

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

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

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

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

Director of Supply Chain Management services
FOR: COUNTY CHIEF OFFICER ACCOUNTING AND FINANCIAL SERVICES

SECTION II
INSTRUCTIONS TO TENDERERS
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CLAUSE

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INSTRUCTIONS TO TENDERERS.

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

- 2.1 The complete set of tender documents comprises the documents listed here below and any addenda issued in accordance with clause 2.4 Here below:-
- (a) These instructions to Tenderers
 - (b) Form of Tender
 - (c) Conditions of Contract and Appendix to Conditions of Contract
 - (d) Specifications
 - (e) Drawings
 - (f) Bills of Quantities/Schedule of Rates (whichever is applicable)
 - (g) Other materials required to be filled and submitted in accordance with these Instructions and Conditions
- 2.2 The Tenderer shall examine all instructions, forms and specifications in the tender documents. Failure to furnish all information required by the tender documents may result in rejection of his tender.
- 2.3 A prospective Tenderer making inquiries of the tendering documents may notify the Employer in writing or by cable, telex or facsimile at the address indicated in the letter of invitation to tender. The Employer will respond to any request for clarification received earlier than seven [7] days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.
- 2.4 Before the deadline for submission of tenders, the Employer may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all Tenderers. Prospective Tenderers shall acknowledge receipt of each addendum in writing to the Employer.
- 2.5 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders in accordance with clause 4.2 here below.

3. Preparation of Tenders

- 3.1 All documents relating to the tender and any correspondence shall be in English Language.
- 3.2 The tender submitted by the Tenderer shall comprise the following:-
- (a) The Tender;

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

3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities/Schedule of Rates. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities/Schedule of Rates. All duties, taxes and other levies payable by the Contractor under the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the Tenderer.

3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.

3.5 The unit rates and prices shall be in Kenya Shillings.

3.6 Tenders shall remain valid for a period of sixty (60) days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.

3.7 The Tenderer shall prepare one original and a copy of the documents comprising the tender documents as described in these Instructions to Tenderers.

3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.

3.9 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.

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

4. Submission of Tenders

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

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

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

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

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

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

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

5. Tender Opening and Evaluation

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

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

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

decisions may result in the rejection of his tender.

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

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

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

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

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

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

the evaluation of tenders shall not exceed 15%

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

6. Award of Contract

- 6.1 The award of the Contract will be made to the Tenderer who has offered the lowest evaluated tender price.
- 6.2 Notwithstanding the provisions of clause 6.1 above, the Employer reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the action.
- 6.3 The Tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the "Letter of Acceptance") will state the sum [hereinafter and in all Contract documents called the "Contract Price" which the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract. The contract shall be formed on the parties signing the contract. At the same time the other tenderers shall be informed that their tenders have not been successful.
- 6.4 The Contract Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be signed by the Employer and sent to the successful Tenderer, within 30 days following the notification of award. Within 21 days of receipt, the successful Tenderer will sign the Agreement and return it to the Employer.
- 6.5 Within 21 days after receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Performance Security amount

stipulated in the Appendix to Conditions of Contract.

- 6.6 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.
- 6.7 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.
- 6.8 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

7. Corrupt and fraudulent practices

- 7.1 The procuring entity requires that the tenderer observes the highest standard of ethics during the procurement process and execution of the contract. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.
- 7.2 The procuring entity will reject a tender if it determines that the tenderer recommended for award has engaged in corrupt and fraudulent practices in competing for the contract in question.
- 7.3 Further a tenderer who is found to have indulged in corrupt and fraudulent practices risks being debarred from participating in public procurement in Kenya.

Appendix to Instructions to Tenderers

Notes on the Appendix to the Instruction to Tenderers

1. The Appendix to instructions to tenderers is intended to assist the procuring entity in providing specific information in relation to the corresponding clause in the instructions to Tenderers and has to be prepared for each specific procurement.
2. The procuring entity should specify in the appendix information and requirements specific to the circumstances of the procuring entity, the goods to be procured and the tender evaluation criteria that will apply to the tenders.
3. In preparing the Appendix the following aspects should be taken into consideration;
 - (a) The information that specifies and complements provisions of Instruction to tenderers to be incorporated
 - (b) Amendments and/or supplements if any, to provisions of Section 2.0 as necessitated by the circumstances of the goods to be procured to be also incorporated
4. Section II should remain unchanged and can only be amended through the Appendix.
5. Clauses to be included in this part must be consistent with the public procurement law and the regulations.

Appendix to Instructions to Tenderers/General information

The following information regarding the particulars of the tender shall complement supplement or amend the provisions of the instructions to tenderers. Wherever there is a conflict between the provision of the instructions to tenderers and the provisions of the appendix, the provisions of the appendix herein shall prevail over those of the instructions to tenderers

INSTRUCTIONS TO TENDERERS REFERENCE	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
	<i>The bidders shall submit their bid through ifmis supplier portal by the negotiations numbers attached to the tender document on or before Thursday, 5TH MARCH 2020 at 10.00 Am</i>
	<i>The bidder shall submit a minimum bid security of 2% OF TENDER SUM from a reputable bank or recognized insurance company</i>
	<i>Bidders who do not submit their bids through ifmis portal will be not be considered for evaluation of the bids.</i>

EVALUATION AND COMPARISON OF TENDERS

Evaluation and comparison of Tenders: the following evaluation criteria shall be applied notwithstanding any other requirement in the tender documents.

a) Mandatory requirements(MR)

The following requirements must be met by the tenderer

PRELIMINARY EVALUATION CRITERIA

S/No	REQUIREMENTS	Score Mandatory (Yes/No)	B1	B2	B3	B4	B5	B6
1	Dully filled and stamped confidential business questionnaire	Mandatory (Yes/No)						
2	Form of tender duly filled, signed and stamped	Mandatory (Yes/No)						
3	The form of power of attorney shall be duly filled, signed and stamped	Mandatory (Yes/No)						
4	Bid Security (2% of tender sum from a reputable bank or insurance firm)	Mandatory (Yes/No)						
5	Certified Valid current year business permits.	Mandatory (Yes/No)						
6	Certified Valid current year tax compliance certificate.	Mandatory (Yes/No)						
7	Certified Certificate of incorporation.	Mandatory (Yes/No)						
8	Certified PIN/VAT certificate from KRA	Mandatory (Yes/No)						

	three similar projects(building construction works)of similar magnitude.									
5.	Bidders shall attach audited financial reports for the last two years (2018,2017) certified	10 Marks								
6.	Duly filled, signed and stamped BQ attached to the company profile	25 Marks								
7	Attach proof of ownership/lease of equipment	5 Marks								
8	Attach bank statement for the last 6 months	5Marks								
	Total	70 Marks								

a) Technical evaluations scores

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

SECTION III – CONDITIONS OF CONTRACT

1. Definitions

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

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

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

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

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

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

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

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

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

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

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

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

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

“Employer” Includes Central or Local Government administration, Universities, Public Institutions and Corporations and is the party who employs the Contractor to carry out the Works.

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

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

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

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

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

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

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

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

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

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

2. Contract Documents

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

- (1) Agreement,
- (2) Letter of Acceptance,
- (3) Contractor’s Tender,
- (4) Conditions of Contract,
- (5) Specifications,
- (6) Drawings,

(7) Bills of Quantities or Schedule of Rates [whichever is applicable)

3. Employer's Representative's Decisions

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

4. Works, Language and Law of Contract

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

4.2 The ruling language of the Contract shall be English language and the law governing the Contract shall be the law of the Republic of Kenya.

5. Safety, Temporary works and Discoveries

5.1 The Contractor shall be responsible for design of temporary works and shall obtain approval of third parties to the design of the temporary works where required.

5.2 The Contractor shall be responsible for the safety of all activities on the Site.

5.3 Any thing of historical or other interest or significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Employer's Representative of such discoveries and carry out the Employer's Representative's instructions for dealing with them.

6 Work Program and Sub-contracting

6.1 Within seven days after Site possession date, the Contractor shall submit to the Employer's Representative for approval a program showing the general methods, arrangements, order and timing for all the activities in the Works.

6.2 The Contractor may sub-contract the Works (but only to a maximum of 25 percent of the Contract Price) with the approval of the Employer's Representative. However, he shall not assign the Contract without the approval of the Employer in writing. Sub-contracting shall not alter the Contractor's obligations.

7 The site

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

8 Instructions

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

9 Extension of Completion Date

- 9.1 The Employer's Representative shall extend the Completion Date if an occurrence arises which makes it impossible for completion to be achieved by the Intended Completion Date. The Employer's Representative shall decide whether and by how much to extend the Completion Date.

- 9.2 For the purposes of this clause, the following occurrences shall be valid for consideration;

Delay by:-

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

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

10 Management Meetings

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

11 Defects

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

- 11.2 The Employer's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Conditions of Contract.
- 11.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Employer's Representative's notice. If the Contractor has not corrected a defect within the time specified in the Employer's Representative's notice, the Employer's Representative will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

12 Bills of Quantities/Schedule of Rates

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

13 Variations

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

Representative's own forecast of the effects of the variation on the Contractor's costs.

14 Payment Certificates and Final Account

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

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

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

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

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

15. Insurance

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

16. Liquidated Damages

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

17. Completion and Taking Over

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

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

18. Termination

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

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

other than for a reconstruction or amalgamation;

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

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

19. Payment Upon Termination

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

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

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

20. Corrupt Gifts and Payments of Commission

20.1 The Contractor shall not;

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

21. Settlement of Disputes

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

SECTION IV – APPENDIX TO CONDITIONS OF CONTRACT

THE EMPLOYER IS

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

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

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

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

1.1 The name (and identification number) of the Contract is: **PROPOSED CONSTRUCTION OF 3 NO. WARDS, MATERNITY BLOCK, LABORATORY BLOCK & STORE AT BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY**

1.2 The works consist of: **PROPOSED CONSTRUCTION OF 3 NO. WARDS, MATERNITY BLOCK, LABORATORY BLOCK & STORE AT BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY**

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

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

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

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

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

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

The following events shall also be Compensation Events:

- 1. NONE (ONLY AS LISTED IN CLAUSE 24 OF THE CONDITIONS OF CONTRACT**
- 2. _____
- 3. _____
- 4. _____

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

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

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

The Price Adjustment Clause **SHALL NOT** apply

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

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

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

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

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

Advance Payment **SHALL NOT be** granted.

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

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

SECTION V- STANDARD FORM

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

FORM OF TENDER

TO: MANDERA COUNTY GOVERNMENT

_____ [Date]

1.3 **REF:** TENDER FOR PROPOSED CONSTRUCTION OF 3 NO. WARDS, MATERNITY BLOCK, LABORATORY BLOCK & STORE AT BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY

Dear Sir,

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

Dated this _____ day of _____ 20_____

Signature _____ in the capacity of _____

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

Witness; Name _____

Address _____

Signature _____

Date _____

LETTER OF ACCEPTANCE

[letterhead paper of the Employer]

_____ [date]

To: _____
[name of the Contractor]

[address of the Contractor]

Dear Sir,

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

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

Authorized Signature

Name and Title of Signatory

Attachment : Agreement

FORM OF AGREEMENT

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

WHEREAS THE Employer is desirous that the Contractor executes PROPOSED CONSTRUCTION OF 3 NO. WARDS, MATERNITY BLOCK, LABORATORY BLOCK & STORE AT BANISA LEVEL IV HOSPITAL AT BANISA SUB COUNTY

MCG/OT/24/2019-20

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

Kshs _____ [*Amount in figures*], Kenya

Shillings _____ [*Amount in words*].

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and shall be read and construed as part of this Agreement i.e.
 - (i) Letter of Acceptance
 - (ii) Form of Tender
 - (iii) Conditions of Contract Part I
 - (iv) Conditions of Contract Part II and Appendix to Conditions of Contract
 - (v) Specifications
 - (vi) Drawings
 - (vii) Priced Bills of Quantities
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby

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

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

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

The common Seal of _____

Was hereunto affixed in the presence of _____

Signed Sealed, and Delivered by the said _____

Binding Signature of Employer _____

Binding Signature of Contractor _____

In the presence of (i) Name _____

Address _____

Signature _____

[ii] Name _____

Address _____

Signature _____

FORM OF TENDER SECURITY

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

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

THE CONDITIONS of this obligation are:

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

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

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

[date]

[signature of the Bank]

[witness]

[seal]

PERFORMANCE BANK GUARANTEE

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

Dear Sir,

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

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

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

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

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

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

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

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

BANK GUARANTEE FOR ADVANCE PAYMENT

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

Gentlemen,

Ref: _____ [name of Contract]

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

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

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

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

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

Yours faithfully,

Signature and Seal _____

Name of the Bank or financial institution _____

Address _____

Date _____

Witness: Name: _____

Address: _____

Signature: _____

Date: _____

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) whichever applies to your type of business.

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

Part 1 – General

Business Name

Location of business premises; Country/Town.....

Plot No..... Street/Road

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

Nature of Business.....

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

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

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

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

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

*Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

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

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 und

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

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
	<p><u>PARTICULAR PRELIMINARIES</u></p>	
A	<p><u>PRICING ITEMS OF PRELIMINARIES</u></p> <p>Prices SHALL BE INSERTED against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The contractor is advised to read and understand all the necessary preliminary items.</p>	
B	<p><u>DESCRIPTION OF THE WORKS:</u> <i>The works comprises:</i> Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County</p>	
C	<p><u>MEASUREMENTS</u></p> <p>In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p>	
D	<p><u>LOCATION OF SITE</u></p> <p>The site is located Banisa Sub County in Mandera County. The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</p>	
E	<p><u>P.C. AND PROVISIONAL SUM</u></p> <p>The allowances given for the above is for full contract.</p>	
F	<p><u>CLEARING AWAY</u></p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager.</p> <p><i><u>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</u></i></p>	
	<p style="text-align: right;">CARRIED TO SUMMARY</p>	

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>CLAIMS</u></p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and/or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claims shall be Entertained upon the expiry of the said contract period.</p>	
B	<p><u>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</u></p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the office is going on with its normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site. Noise should be minimized and any other kind of disruptions.</p>	
C	<p><u>TAXES</u></p> <p>The tender shall include in their rates any taxes that they may be required to pay after execution of and payment for the works. It shall be the sole responsibility of the contractor to remit such payments directly to the right authorities.</p>	
D	<p><u>WORKING CONDITIONS</u></p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of execution of the works.</p>	
E	<p><u>SIGNBOARD</u></p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
F	<p><u>LABOUR CAMPS</u></p> <p>The Contractor shall not be allowed to house labor on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>MATERIALS FROM DEMOLITIONS</u></p> <p>Any materials arising from demolitions and not re-used shall become the property of the Client. The Contractor shall allow in his rates the cost of transporting the demolished materials as directed by the PROJECT MANAGER.</p>	
B	<p><u>PRICING RATES</u></p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport from stores, fixing, all to comply with the said Conditions of Contract.</p> <p>A tender which plus or minus 10% shall be considered as non-responsive.</p>	
C	<p><u>TENDER SECURITY</u></p> <p><i>The tender must be accompanied by a tender security of Kshs..... or else the tender shall be disqualified.</i></p>	
D	<p><u>SECURITY</u></p> <p>The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p>	
E	<p><u>URGENCY OF THE WORKS</u></p> <p>The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he deems that he/she may incur by having to complete the works within the stipulated contract period.</p>	
F	<p><u>EXISTING SERVICES</u></p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>	
<p>CARRIED TO SUMMARY</p>		<hr/> <hr/>

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>TRANSPORT</u></p> <p>The contractor shall provide when required for site trips only a vehicle, to comfortably seat at least four (4) persons including maintained license,</p>	
B	<p><u>FIRM PRICE CONTRACT</u></p> <p>This is a firm (fixed) price contract. The contractor must allow for price changes during the contract period.</p>	
C	<p><u>PERFORMANCE BOND</u></p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.00 on award of contract of the Instructions to Tenderer's. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.</p>	
D	<p><u>TENDER DOCUMENTS</u></p> <p>Tender documents are as listed in Clause 2.1 of the Instruction to Tenderer's Page STD/8</p>	
E	<p><u>DELIVERY OF TENDER</u></p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents.</p> <p><i>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.</i></p>	
F	<p><u>VALUE ADDED TAX</u></p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. However, the contractor shall make provision for this in the individual rates as it will not be separately provided for in this document.</p>	
<p>CARRIED TO SUMMARY</p>		<hr/> <hr/>

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
<u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u>		
The following are the insertions to be made in the appendix to the Contract Agreement: -		
A	Period of Final Measurement 3 Months from Practical completion	
B	Defects Liability Period 6 Months from practical completion	
C	Date for Possession To be agreed with the Project Manager	
D	Date for Completion To be agreed with the Project Manager	
E	Liquidated and Ascertained At the rate of Kshs.1,000.00 per week or part thereof	
F	<u>Prime cost sums for which the</u> The Contractor desires to tender _____	
G	Period of Interim Certificates Monthly	
H	Period of Honoring Certificates 30 days	
I	Percentage of Certified Value Retained 10%	
J	Limit of Retention Fund 10 %	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
<u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u>		
1	<u>SPECIAL PRELIMINARIES</u>	
	Treasury circular No.5 of May 1974, instruction No.8 requires the Client Department responsible for the development project component (i.e. equipment, vehicle etc)	
	<u>The contractor to supply the following items: -</u>	
	The Contractor is required to furnish the following Softwares; as per the Project Manager's Instructions.	
	<u>Supply, Deliver and install the following Softwares, Stationeries & Office Equipments</u>	
A	Supply, Deliver and Install Complete Packages/Modules of WINQS softwares; Complete with full Packages of Dimention X softwares by Exactal CC for One (01 NO.) Users	600,000.00
B	Include a percentage sum for the contractor's cost and profit for the above..... 10%	60,000.00
C	Training of WINQS and Dimension X Softwares for One No. users	200,000.00
D	Include a percentage sum for the contractor's cost and profit for the above..... 10%	20,000.00
E	Supply, Deliver and Install a Complete Packages of Masterbill Mb Elite Softwares latest versions; Complete with Full QSCad (v4) latest versions CAD and scanned drawing measurement system for One (01 NO.) Users	510,000.00
F	Include a percentage sum for the contractor's cost and profit for the above..... 10%	51,000.00
G	Training of Masterbill and QSCad Softwares for One No. Users	200,000.00
H	Include a percentage sum for the contractor's cost and profit for the above..... 10%	20,000.00
I	Supply, Deliver Premium Laptops; Intel Core i7 -8750H 6 Core, NVIDIA GeForce RTX 2070 Max-Q, 15" FHD 144HZ, 16GB Ram, 512GB SSD, 1TB HDD, CNC Aluminium, Chroma RGB Lighting, Thunderbolt 3; as per the Projects Managers Instructions; 2 NO.	420,000.00
J	Include a percentage sum for the contractor's cost and profit for the above..... 10%	42,000.00
CARRIED TO SUMMARY		2,123,000.00

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
2	<p><u>SPECIAL PRELIMINARIES</u></p> <p>Treasury circular No.5 of May 1974, instruction No.8 requires the Client Department responsible for the development project component (i.e. equipment, vehicle etc)</p> <p><u>The contractor to supply the following: -</u></p> <p>MOBILE PHONE AIRTIME FOR OFFICERS</p> <p>A Provide mobile phone airtime worth Kshs. 2,000/= per person per calendar month for 2No. Officers for the duration of contract.</p> <p>B Include a percentage sum for the contractor’s cost and profit for the above..... 10%</p> <p><u>LUNCH FOR THE PROJECT TEAM</u></p> <p>C Provide 2No lunches per person at the rate of Kshs 1,000/= per fortnight (site inspection & site meetings) for 2No. Design team members during the duration of the contract.</p> <p>D Include a percentage sum for the contractor’s cost and profit for the above..... 10%</p> <p><u>CLERK OF WORKS EXPENSES</u></p> <p>E Allow a sum of Kshs. for Clerk of Works expenses to be paid at the rate of Kshs. 1,000/= per day.</p> <p>F Include a percentage sum for the contractor’s cost and profit for the above..... 10%</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
	<u>COLLECTION PAGE</u>	
	Total brought forward from page PP/01	
	Total brought forward from page PP/02	
	Total brought forward from page PP/03	
	Total brought forward from page PP/04	
	Total brought forward from page PP/05	
	Total brought forward from page PP/06	2,123,000.00
	Total brought forward from page PP/07	
	CARRIED TO SUMMARY	
	BILL NO. 1 PRELIMINARIES ELEMENT NO. 01 PARTICULAR PRELIMINARIES	

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
	<u>GENERAL PRELIMINARIES</u>	
A	<u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u> Prices shall be inserted against items of Preliminaries in the Contractor’s priced bills of Quantities and Specification but not in the unit rates	
B	<u>ABBREVIATIONS</u> Throughout the Bills, unites of measurement and terms are abbreviated and shall be interpreted as follows: -	
	C.M. Shall mean cubic meter	
	S.M Shall mean square meter	
	L.M. Shall mean linear meter	
	M.M Shall mean Millimeter	
	Kg. Shall mean Kilogram	
	No. Shall mean Number	
	Prs. Shall mean Pairs	
	B.S. Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I.,England.	
	Ditto Shall mean the whole of the preceding description except as qualified in the description in which it occurs.	
	m.s. Shall mean measured separately.	
	a.b.d Shall mean as before described.	
	CARRIED TO SUMMARY	

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</u> Attendance; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted: - Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standard scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub-Contractor’s work and being responsible for the accuracy of the same.</p>	
B	<p><u>Fix Only: -</u> “Fix Only” shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
C	<p><u>EMPLOYER</u> <i>The “Employer” is the GORVENOR- MANDERA COUNTY GOVERNMENT</i></p> <p>The term “Employer” and “Client” wherever used in the contract document shall be synonymous</p>	
D	<p><u>PROJECT MANAGER</u> The term “P.M.” wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorized to represent him on behalf of the Client.</p>	
E	<p><u>ARCHITECT</u> The term “Architect” shall be deemed to mean “The P.M” as defined above whose address unless otherwise notified is Department of Public Works, P.O. Box 49, MANDERA</p>	
F	<p><u>QUANTITY SURVEYOR</u> The term “Quantity Surveyor” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works, P.O. Box 49, MANDERA.</p>	
<p>CARRIED TO SUMMARY</p>		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>ELECTRICAL ENGINEER</u></p> <p>The term “Electrical engineer” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works.</p>	
B	<p><u>MECHANICAL ENGINEER</u></p> <p>The term “Mechanical Engineer” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works.</p>	
C	<p><u>STRUCTURAL ENGINEER</u></p> <p>The term “Structural Engineer” shall be deemed to mean “The P.M.” as defined above whose address unless otherwise notified is Department of Public Works.</p>	
D	<p><u>FORM OF CONTRACT</u></p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya’s Standard Tender Document for Procurement of Building Works (2000 Edition). A copy of which is available at the Department of Public Works - MANDERA.</p>	
E	<p><u>CONDITIONS OF CONTRACT</u></p> <p>These are numbered from 1 - 37 and are contained in the above-named document. Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of quantities.</p>	
F	<p><u>BOND</u></p> <p>The Contractor shall find and submit an approved bank and who will be willing to be bound to the client in an amount equal to five percent (5%) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will when and if called upon, sign and Bond to that effect on the relevant standard form included herein. (Without the addition of any limitations) on the same day as the contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>PLANTS, TOOLS AND VEHICLES</u></p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
B	<p><u>TRANSPORT</u></p> <p>Allow for transport of workmen, materials from stores, etc. to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
C	<p><u>MATERIALS AND WORKMANSHIP</u></p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
D	<p><u>SIGN FOR MATERIALS SUPPLIED</u></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and /or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER.</p>	
E	<p><u>STORAGE OF MATERIALS</u></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>SAMPLES</u></p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expenses of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples or materials for testing and the method of making for identification shall be as laid down by the PROJECT MANAGER. The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractor’s work.</p>	
B	<p><u>GOVERNMENT ACTS REGARDING WORK PEOPLE ETC.</u></p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labor and other matters related to the execution of the works. In particular the Contractor’s attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople.</p> <p>The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labor, labor camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain form the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organization of the works, supply and control of labor, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
C	<p><u>SECURITY OF WORKS ETC.</u></p> <p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and protection of the public.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>PUBLIC AND PRIVATE ROADS</u></p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from the consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER.</p>	
B	<p><u>EXISTING PROPERTY</u></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expenses to the satisfaction of the PROJECT MANAGER.</p>	
C	<p><u>VISIT SITE AND EXAMINE DRAWINGS</u></p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
D	<p><u>ACCESS TO SITE AND TEMPORARY ROADS</u></p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads.</p>	
E	<p><u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u></p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER.</p>	
<p>CARRIED TO SUMMARY</p>		<hr/> <hr/>

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>OFFICE, ETC. FOR THE PROJECT MANAGER</u></p> <p>The Contractor shall provide, erect and maintain where direct on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete the Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and tow keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works.</p> <p><i>The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with leveling staff, ranging rods and 50 metre metallic or linen tape.</i></p>	
B	<p><u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u></p> <p>The Contractor shall provide t his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his won cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER. The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub-Contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
C	<p><u>SANITATION OF THE WORKS</u></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and /or Local Authorities, Labour Department and the PROJECT MANAGER.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>SUPERVISION AND WORKING HOURS</u></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and Sub-Contractors or other places where work is being prepared for the contract.</p>	
B	<p><u>PROVISIONAL SUMS</u></p> <p>The term “Provisional Sum” wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (i) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Such sums are net and no addition shall be made to them for profit.</p>	
C	<p><u>PRIME COST (OR P.C.) SUMS</u></p> <p>The term “Prime Costs Sum” or “P.C. Sum” wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Persons of firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 20 of the Conditions of Contract are described herein as Nominated Sub-Contractors.</p> <p>Persons of firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
D	<p><u>PROGRESS CHART</u></p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors; one copy to be handed to the PROJECT chart to be amended as necessary as the work proceeds.</p>	
<p>CARRIED TO SUMMARY</p>		<hr/> <hr/>

Item No.	Description	Amount (Kshs)
A	<p><u>ADJUSTMENT OF P.C. SUMS</u></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER’S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of “attendance” (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor’s priced Bill shows a percentage in the rate column in respect of them.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
B	<p><u>ADJUSTMENT OF PROVISIONAL SUMS</u></p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER’S order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 13 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
C	<p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into Sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor’s work concerned in the P.C. Sums under the description “add for Attendance”.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>DIRECT CONTRACTS</u></p> <p>Notwithstanding the foregoing conditions, the client reserves the right to place a “Direct Contract” for any goods or services required in the works which are covered by a P.C. Sums in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>	
B	<p><u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for any making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
C	<p><u>INSURANCE</u></p> <p>The Contractor shall insure as required in Condition Nos. 22 and 23 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificates that the provision of the foregoing Insurance Clauses has been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER’S inspection.</p>	
<p>CARRIED TO SUMMARY</p>		<hr/> <hr/>

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>PROVISIONAL WORK</u></p> <p>All work described as “Provisional” in these Bills of Quantities is subject to re-measurement in order to ascertain in actual quality executed for which payment will be made. All “Provisional” and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER.</p> <p>Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expenses.</p>	
B	<p><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></p> <p>Any un-authorized alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p>	
C	<p><u>BLASTING OPERATIONS</u></p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor’s sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
D	<p><u>MATERIALS ARISING FROM EXCAVATIONS</u></p> <p>Materials of any kind obtained from the excavations shall be the property of the client. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
<p>CARRIED TO SUMMARY</p>		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>PROTECTION OF THE WORKS</u></p> <p>Provide protection of the whole of the works contained in the Bill of Quantities, including casing, casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
B	<p><u>REMOVAL OF RUBBISH ETC.</u></p> <p>Removal of rubbish and debris from the buildings and site a it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p>	
C	<p><u>WORKS TO BE DELIVERED UP CLEAN</u></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metal works and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER.</p>	
D	<p><u>FIRM PRICE CONTRACT</u></p> <p>Unless otherwise specifically stated in the Particular Preliminaries this is a firm price Contract.</p> <p>The contractor must allow in his tender raters for any increase in the cost of labor and materials during the construction period.</p>	
E	<p><u>GENERAL SPECIFICATION.</u></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Public Works General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries. Trade Preambles or other items in these Bills of Quantities.</p>	
<p>CARRIED TO SUMMARY</p>		<hr/> <hr/>

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
A	<p><u>TRAINING LEVY</u></p> <p>The Contractor’s attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 3% of the contract sum on all contracts of more than Kshs.50,000.00 in value.</p>	
B	<p><u>MATERIALS ON SITE</u></p> <p>All materials for incorporation in the work must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
C	<p><u>HOARDING</u></p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400mm high consisting of iron sheets on 100x50mm timber posts firmly secured at 1800mm centers with two 75x50mm timber rails approximately 300m. Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer’s property on the site.</p>	
D	<p><u>CONTRACTOR’S SUPERINTENDENCE / SITE AGENT</u></p> <p>The Contractor shall constantly keep on the works literate English-speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works.</p> <p>Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
CARRIED TO SUMMARY		

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
	<u>COLLECTION PAGE</u>	
	Total brought forward from page GP/09	
	Total brought forward from page GP/10	
	Total brought forward from page GP/11	
	Total brought forward from page GP/12	
	Total brought forward from page GP/13	
	Total brought forward from page GP/14	
	Total brought forward from page GP/15	
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	Total brought forward from page GP/17	
	Total brought forward from page GP/18	
	Total brought forward from page GP/19	
	Total brought forward from page GP/20	
	Total brought forward from page GP/21	
	CARRIED TO SUMMARY	
	BILL NO. 1 PRELIMINARIES ELEMENT NO. 02 GENERAL PRELIMINARIES	

Proposed Construction Of 3 No. Wards, Maternity Block, Mechanical Works & Associated Civil Works at Banisa Level Iv Hospital at Banisa Sub County

Item No.	Description	Amount (Kshs)
	BILL NO. 1 PRELIMINARIES <u>BILL SUMMARY - PRELIMINARIES</u>	
<u>Item No.</u>		<u>Amount</u>
1	PARTICULAR PRELIMINARIES	
2	GENERAL PRELIMINARIES	
	CARRIED TO SUMMARY	
	BILL NO. 1 PRELIMINARIES	

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 01</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>GROUNDWORKS</u>				
	<u>Site Preparations</u>				
A	Clear site of all shrubs, grass, undergrowth and the like and burn arisings on site	SM	428		
	<u>Excavations</u>				
B	Excavate pit for column bases depth not exceeding 1.50m commencing from reduced levels.	CM	58		
C	Excavate trench for strip footings depth not exceeding 1.50m commencing from reduced levels.	CM	130		
D	Extra over excavations for excavation in rock	CM	19		
	<u>MAINTENANCE OF EXCAVATIONS</u>				
E	Allow for maintaining sides of all excavations by plankin and strutting or other means as required. Additional works caused by the collapse of excavations through inadequate planking and strutting or removal of ground or rain water from excavations will be at the Contractors expense.	Item			
F	Allow for keeping the excavations and works free from all water, including spring, storm and any other running water, by pumping or other means as required.	Item			
	<u>DISPOSAL OF EXCAVATED MATERIAL</u>				
G	Return, fill and ram selected excavated material around foundations or to make up levels : compact in layers not exceeding 150mm thick	CM	104		
H	Load and cart away surplus excavated material from site to dump site approved by local authority	CM	83		
	CARRIED TO COLLECTION PAGE				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
<u>SOIL AND HARDCORE FILLINGS</u>					
A	300mm Thick approved imported hardcore fill material in raising levels handpacked, well rammed, watered and well compacted in 150mm layers all to Engineer's direction and satisfaction.	SM	384		
B	50mm Thick murrum blinding to surfaces of hardcore	SM	384		
<u>ANTI - TERMITE TREATMENT</u>					
C	Gladiator or equal and approved chemical anti termite treatment executed complete by an approved specialist under a ten (10) year guarantee to bases of excavations applied at a rate of 7 litres per square metre	SM	409		
<u>DAMP PROOF MEMBRANE</u>					
D	1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net no allowance made for laps)	SM	409		
<u>BRC FABRIC MESH REINFORCEMENT</u>					
E	Steel wire fabric mesh reinforcement to B.S 4483 (Ref:A142 weighing 2.22kg/m ²) in concrete bed or wall (measured net-no allowance made for minimum of 225mm laps) including tying and supporting as required	SM	409		
<u>CONCRETE</u>					
<u>PLAIN MASS CONCRETE (CLASS 15)</u>					
F	50mm Thick blinding under column bases	SM	69		
G	Ditto under strip footings	SM	108		
<u>VIBRATED REINFORCED CONCRETE (CLASS 20)</u>					
H	Column bases	CM	14		
I	Column	CM	4		
CARRIED TO COLLECTION PAGE					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	Strip footings	CM	22		
B	100mm Thick floor slab laid on damp proof membrane (measured separately) in bays not exceeding 36 square metres including formwork to edge of bays	SM	409		
	<u>REINFORCEMENT</u>				
	<u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u>				
C	10mm Bars	Kg	720		
D	8mm Bars	Kg	360		
	<u>SAWN TIMBER FORMWORK</u>				
E	Vertical sides of column bases	SM	46		
F	Vertical sides of columns	SM	60		
G	Vertical sides of strip footings	SM	72		
H	Edges of ground floor slab height exceeding 75mm but not exceeding 150mm	Lm	101		
	<u>FOUNDATION WALLING</u>				
	<u>Approved quarry hand dressed natural stone foundation wall bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u>				
I	200mm Thick foundation walls	SM	225		
	<u>PLINTH TREATMENT</u>				
J	12mm thick cement/sand (1:4) render to plinth	SM	20		
K	Prepare and apply three coats black Bituminous paint on rendered plinth	SM	20		
	CARRIED TO COLLECTION PAGE				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		WRD/01		
	Total brought forward from page		WRD/02		
	Total brought forward from page		WRD/03		
	CARRIED TO SUMMARY			KES	
	BILL NO. II ELEMENT NO. 01 SUBSTRUCTURE				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 04</u>				
	<u>ROOF STRUCTURE, COVERING & RAINWATER GOODS</u>				
	<u>ROOF STRUCTURE</u>				
	<u>The following in prime grade, pressure impregnated sawn cypress with and including bolted and nailed connections and all other necessary accessories</u>				
	<u>The following in 4No. Single pitched roof truss 8800mm wide and 1068mm rise including hoisting and fixing 10050mm (approx.) above ground floor level</u>				
A	100 x 50mm Tie beams	Lm	330		
B	100 x 50mm Rafters	Lm	450		
C	75 x 50mm Struts and ties	Lm	675		
	<u>The following in prime grade, pressure impregnated sawn cypress with nailed connections (Provisional)</u>				
D	150 x 50mm Purlins	Lm	960		
E	100 x 50 mm Wall plate secured with and including hoop iron at 900mm centres cast in concrete ring beam	Lm	180		
	<u>ROOF COVERING</u>				
	<u>IT4 ROOFING SHEETS</u>				
F	22.5° IT4 box profile sheets 28 gauge; to Engineer's details	SM	461		
G	Ridge and hip covers to match	Lm	53		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
<u>RAIN WATER GOODS (ALL PROVISIONAL)</u>					
A	150mm diameter UPVC gutter fixed to fascia board with all it's necessary parts.	Lm	103		
B	100mm diameter UPVC down pipe in duct or fixed to wall with and including approved holderbats at 1200mm centres	Lm	7		
C	Exta over down pipe for swan neck	No.	2		
D	Ditto horse shoe	No.	2		
E	Ditto bend	No.	2		
<u>ROOF FINISHING</u>					
<u>The following in eaves boarding</u>					
F	50 x 50 mm Sawn cypress or any other equal and approved softwood bearers	Lm	248		
G	100 x 25mm Tongued and grooved wrot cypress or any other equal and approved softwood boarding nailed to brandering (measured separately)	SM	206		
H	25 x 300mm Wrot, treated cypress fascia or barge board	Lm	103		
<u>Knot, prime and stop, prepare and apply one undercoats and two finishing coats "Crown Solo" or any other equal and approved gloss paint on wood work</u>					
I	General surfaces of woodwork	SM	206		
J	Surfaces girth exceeding 200mm but not exceeding 300mm	Lm	103		
CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		WRD/07		
	Total brought forward from page		WRD/08		
	CARRIED TO SUMMARY			KES	
	BILL NO. II ELEMENT NO. 04 ROOF STRUCTURE, COVERING & RAINWATER GOODS				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 5</u>				
	<u>WINDOWS</u>				
	<u>CILLS AND BOARDS</u>				
A	250 x 75mm Thick precast concrete (1:2:4) sunk, weathered and throated window cill cast in convenient lengths, reinforced as necessary, bedded, jointed and pointed in gauged mortar and finished smooth on all exposed surfaces, with 10mm drip and with 0.25mm thick polythene DPM.	Lm	41		
B	25 x 6mm Galvanised metal water bar grouted in groove in concrete cill	Lm	88		
	<u>ALUMINIUM CASEMENT WINDOWS</u>				
	<u>Supply assemble and fix the following purpose made powder coated anodised aluminium sliding, hinged or fixed composite shopfront window frames in approved heavy duty sections complete with all coupling mullions and transoms and frames and handles, lever, finger pulls, pins, permanent vent with mosquito gauze wire, catches, stays, hinges, approved locking devices and other accessories where applicable, fixed at predetermined positions, including 'snap on' glazing beads; building in lugs to jambs, plugging and screwing head and cill to concrete and bedding frames in waterproof cement mortar and pointing in approved mastic externally oiling, easing and adjusting and leaving in perfect working order; Complete with glazing as per the project managers instructions</u>				
C	Window size 600mm x 600mm high ditto (W01)	No.	8		
D	Window size 900mm x 1500mm high ditto (W02)	No.	2		
E	Window size 2000mm x 1500mm high ditto (W03)	No.	17		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>GLAZING</u>				
A	4mm Thick ordinary sheet glass and glazing to metal with putty in panes not exceeding 0.50 square metres	SM	57		
	<u>BURGLARPROOFING GRILLS</u>				
B	Approved mild steel Burglar proofing grilles: in 25mm CHS spaces at 150mm both sides; complete with all necessary framework in 50mm CHS; with & including building in lugs to jambs, plugging and screwing to head or cill, bedded all round in cement and sand (1:3) mortar ; complete with making good disturbed surfaces ; all to Architectural details	SM	57		
	<u>FINISHING</u>				
	<u>Prepare stain to approval with timber guard and apply three coats matt "Crown Tuffseal" or other equal and approved polyurethane varnish to woodwork to be executed by an approved sub-contractor</u>				
C	Timber surfaces exceeding 100mm but not exceeding 200mm girth	Lm	41		
D	Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal windows	SM	113		
	<u>Curtain railing</u>				
D	Supply and fix wrought iron double curtain rod; with 20mm diameter curtain rod and 10mm diameter sheer rod; complete with and including decorative mouldings, rollers, fixing brackets and all fixing screws and accessories; as "Tile and Carpet Ltd" or equal and approved : plugging, and all necessary paintwork	Lm	150		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		WRD/10		
	Total brought forward from page		WRD/11		
	CARRIED TO SUMMARY			KES	
	BILL NO. II ELEMENT NO. 05 WINDOWS				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 06</u>				
	<u>DOORS</u>				
	<u>DOOR FRAMES</u>				
	<u>Wrot mahogany, or other equal and approved hardwood framed frames and finishings.</u>				
A	150 x 50mm Frame head, rebated fixed to wall	Lm	83		
B	150mm x 50mm Transome fixed to frames (m.s)	Lm	9		
C	25 x 50mm moulded architrave with one labour	Lm	83		
D	25 x 25mm Quadrant	Lm	83		
	<u>FLUSH DOORS</u>				
	<u>45mm Thick Solid core flush door complete with decorative moulded skins pressed to form decorative panels to Architect's approval and lipping with mahogany or other equal and approved hardwood all round</u>				
E	Single leaf door overall size 800mm x 2400 mm	No.	8		
F	Single leaf door overall size 900mm x 2400 mm	No.	1		
G	Double leaf door overall size 1500mm x 2400 mm	No.	1		
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following ironmongery complete with furniture and matching screws as per 'UNION' catalogue or approved equivalent:</u>				
H	3 Lever lockset with martin design aluminium handle.	No.	11		
I	100 x 76 x 3mm Stainless steel ball bearing hinges as Union HN-4BB-403030 or any other equal and approved in stainless steel finish	Prs	16		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	Coat and hat hook with rubber tip in stainless steel finish.	No.	10		
B	Cylindrical floor mounted door stop as Union Cat. No. J-DS101 SS or any other equal and approved in matt stainless steel finish	No.	11		
<u>FINISHING</u>					
C	Prepare and apply one coat "Crown" or equal and approved aluminium wood primer before fixing on backs of wood surfaces in contact with masonry, concrete or plaster girth exceeding 200 but not exceeding 300mm <u>Prepare stain to approval with timber guard and apply three coats matt "Crown Tuffseal" or other equal and approved polyurethane varnish to woodwork to be executed by an approved sub-contractor</u>	Lm	93		
D	General surfaces of woodwork	SM	46		
E	Surfaces girth exceeding 200mm but not exceeding 300mm	Lm	93		
<u>STEEL DOORS</u>					
F	Supply, assemble and fix the following purpose made standard section steel doors complete with frames to comply to B.S.990,obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with, hinges, handles, catches, heavy duty tower bolts and building in lugs to concrete or masonry jambs or heads.				
G	Double leaf door overall size 1500mm x 2400 mm	NO	1		
H	Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal doors	SM	4		
CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		WRD/13		
	Total brought forward from page		WRD/14		
	CARRIED TO SUMMARY			KES	
	BILL NO. II ELEMENT NO. 06 DOORS				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Cement and sand (1:3) screed trowelled hard and smooth with steel trowel</u>				
A	38mm Bed laid to receive Terrazzo floor finish	SM	374		
	<u>TERRAZZO FLOOR FINISH</u>				
B	Polished Terrazzo floor finish to Architects details	SM	374		
C	10 x 100mm High skirting	Lm	180		
	<u>EXTERNAL WALL FINISHES</u>				
	<u>RENDERS AND PAINTS</u>				
	<u>Cement and sand (1:5) external rendering finished with a wood float</u>				
D	12mm Cement and sand (1:5) external rendering finished with a wood float on brick walling or concrete surfaces	SM	403		
	<u>FINISHING</u>				
E	Prepare and apply one undercoat and three coats of "Crown Solo" or equal and approved Hi Matt Vinyl emulsion paint on plastered concrete surfaces	SM	403		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
<u>INTERNAL WALL FINISHES</u>					
<u>PLASTER AND PAINTWORK</u>					
A	12mm Cement and sand (1:4) with anti fungal treatment incorporated backing on walls finished to receive ceramic wall tiles.	SM	978		
B	12mm (minimum) Two coat lime plaster comprising 9mm first coat of cement and sand (1:4) and 3mm second coat of cement and sand lime putty on walls finished smooth with a steel trowel on concrete or stone walls	SM	107		
<u>TILEWORK</u>					
C	Coloured glazed ceramic wall tiles fixed to backing (measured separately) with an approved adhesive on walls and pointed with and including coloured anti fungal cement grout				
D	300 x 300 x 6mm Thick tiles as "Saj" or any other equal and approved	SM	107		
<u>PAINT WORK AND DECORATIONS</u>					
E	Prepare and apply one undercoat and three coats of "Crown Solo" or equal and approved silk vinyl emulsion paint on plastered walls internally	SM	978		
<u>CEILING FINISHES</u>					
F	Chip board ceiling	SM	374		
G	150x30mm Polyurethen cornice as supplied by Classic Mouldings Ltd	LM	180		
<u>FINISHING</u>					
<u>Prepare and apply three coats plastic emulsion paint internally on:-</u>					
H	Chip board ceiling	SM	374		
CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		WRD/16		
	Total brought forward from page		WRD/17		
	CARRIED TO SUMMARY			KES	
	BILL NO. II ELEMENT NO. 07 FINISHES				

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

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 9</u>				
	<u>JOINERY FITTINGS AND FIXTURES (ALL PROVISIONAL)</u>				
	<u>WRITING TOPS</u>				
	<u>Metal Framework</u>				
A	25 x 25 x 3mm Mild steel square hollow section bearers with welded connections and bolted to masonry or concrete, primed and painted with three coats gloss paint	Lm	45		
	<u>The following in plain medium density fiberboard (mdf) with with and including screwed connections, shelf studs, PVC lipping and any necessary support or reinforcing mechanism</u>				
B	25mm Thick top to receive granite (measured separately)	SM	11		
	<u>Polished granite in approved colours and texture</u>				
C	20mm Thick counter top fixed to blockboard (measured separately)	SM	11		
D	20mm Thick fascia 80mm high	Lm	18		
	<u>HIGH LEVEL CABINETS</u>				
	<u>CABINETS</u>				
	<u>Medium Density Fiber Board</u>				
E	25mm Thick shelves with sapele laminate both sides	SM	22		
F	25mm Thick bases or top with sapele laminate both sides	SM	22		
G	25mm Thick partitions and sides with sapele laminate both sides	SM	37		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	Door size 650 x 600mm high 18mm thick with sapele laminate on both sides	No	6		
B	Extra over mdf door for routed edges	Lm	8		
C	25 x 1.5mm PVC edging strip fixed to edges of mdf with approved adhesive	Lm	18		
	<u>Wrot cypress or any other equal and approved softwood</u>				
D	25 x 50mm Bearers	Lm	11		
E	75 x 50mm Frame with one labour	Lm	13		
	<u>The following ironmongery to timber</u>				
F	12mm Diameter, 200 x 36mm matt stainless steel door handle	No	25		
G	Approved heavy duty stainless steel malpa hinges	Pairs	38		
	<u>SHELVES</u>				
	<u>METAL FRAMEWORK</u>				
H	50 x 25 x 3mm Mild steel rectangular hollow section stanchions	Lm	9		
I	25 x 25 x 3mm Mild steel square hollow section bearers with welded connections to stanchions, primed and painted with three coats gloss paint	Lm	12		
	<u>Blockboard to B.S. EN 12871</u>				
J	25mm Thick shelves	SM	36		
K	Knot, prime and stop, prepare and spray paint one undercoats and three finishing coats "Crown" or any other equal and approved automotive paint on wood work				
L	General surfaces of blockboard	SM	36		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		WRD//20		
	Total brought forward from page		WRD//21		
	CARRIED TO SUMMARY			KES	
	BILL NO. II ELEMENT NO. 09 JOINERY FITTINGS AND FIXTURES (ALL PROVISIONAL)				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
BILL NO. II					
MAIN WORKS SUMMARY					
<u>Item No.</u>	<u>ELEMENT NO.</u>		<u>PG No.</u>		<u>Amount</u>
01	SUBSTRUCTURES		WRD/04		
02	REINFORCED CONCRETE SUPERSTRUCTURES		WRD/05		
03	WALLING		WRD/06		
04	ROOFING AND RAINWATER DISPOSAL		WRD/07		
05	WINDOWS		WRD/12		
06	DOORS		WRD/15		
07	FINISHES		WRD/18		
08	BUILDER'S WORK IN CONNECTION WITH SERVICES		WRD/19		
09	JOINERY FITTINGS AND FIXTURES (ALL PROVISIONAL)		WRD/19		
	CARRIED TO WARD BLOCKS SUMMARY			KES	
BILL NO. II					
MALE WARDS					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
NB	<u>SUMMARY FOR WARD BLOCKS</u>				
	<u>Female Ward, Male Ward and Peadeatric Wards are all The same Size</u>				
	TOTAL FOR MALE WARD BLOCK				KES
	Therefore 3No. Wards =		Male ward	X 3	KES
	CARRIED TO GRAND SUMMARY				KES

BILL NO. II
WARDS BLOCKS

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>MATERNITY BLOCK</u>				
	<u>ELEMENT NO. 01</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>EARTHWORKS</u>				
A	Clear site of all shrubs, grass, undergrowth and the like and burn arisings on site	SM	446		
B	Excavate pit for column bases depth not exceeding 1.50m commencing from reduced levels.	CM	55		
C	Excavate trench for strip footings depth not exceeding 1.50m commencing from reduced levels.	CM	147		
D	Extra over excavations for excavation in rock	CM	81		
	<u>MAINTENANCE OF EXCAVATIONS</u>				
E	Allow for maintaining sides of all excavations by plankin and strutting or other means as required. Additional works caused by the collapse of excavations through inadequate planking and strutting or removal of ground or rain water from excavations will be at the	Item			
F	Allow for keeping the excavations and works free from all water, including spring, storm and any other running water, by pumping or other means as required.	Item			
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
<u>DISPOSAL OF EXCAVATED MATERIAL</u>					
A	Backfill selected excavated material fill around foundations or to make up levels : compact in layers not exceeding 150mm thick	CM	112		
B	Remove surplus excavated materials from site	CM	91		
<u>SOIL AND HARDCORE FILLINGS</u>					
C	300mm Thick approved imported hardcore fill material in raising levels handpacked, well rammed, watered and well compacted in 150mm layers all to Engineer's direction and satisfaction.	SM	368		
D	30mm Thick murrum blinding to surfaces of hardcore	SM	368		
E	Gladiator or equal and approved chemical anti termite treatment executed complete by an approved specialist under a ten (10) year guarantee to bases of excavations applied at a rate of 7 litres per square metre	SM	421		
F	1000 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net no allowance made for laps)	SM	421		
CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>CONCRETE</u>				
	<u>PLAIN MASS CONCRETE (CLASS 15)</u>				
A	50mm Thick blinding under column bases	SM	46		
B	Ditto under strip footings	SM	123		
	<u>VIBRATED REINFORCED CONCRETE (CLASS 25)</u>				
C	Column bases	CM	9		
D	Column	CM	3		
E	Strip footings	CM	25		
F	100mm Thick floor slab laid on damp proof membrane (measured separately) in bays not exceeding 36 square metres including formwork to edge of bays	SM	368		
G	100mm Thick Ramp Floor slab	SM	55		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>REINFORCEMENT</u>				
A	Steel wire fabric mesh reinforcement to B.S 4483 (Ref:A142 weighing 2.22kg/m2) in concrete bed or wall (measured net-no allowance made for minimum of 225mm laps) including tying and supporting as required	SM	368		
	<u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u>				
B	10mm Bars	Kg	667		
C	12mm Bars	Kg	1,495		
	<u>FORMWORK</u>				
D	Vertical sides of column bases	SM	37		
E	Vertical sides of columns	SM	23		
F	Vertical sides of strip footings	SM	41		
G	Edges of ground floor slab height exceeding 75mm but not exceeding 150mm	Lm	92		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>FOUNDATION WALLING</u>				
	<u>Approved quarry hand dressed natural stone foundation wall bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u>				
A	200mm Thick foundation walls	SM	237		
	<u>PLINTH TREATMENT</u>				
B	12mm thick cement/sand (1:4) render to plinth	SM	37		
C	Prepare and apply three coats black Bituminous paint on rendered plinth	SM	37		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		MTN/01		
	Total brought forward from page		MTN/02		
	Total brought forward from page		MTN/03		
	Total brought forward from page		MTN/04		
	Total brought forward from page		MTN/04		
	CARRIED TO SUMMARY				KES
	BILL NO. III ELEMENT NO. 01 SUBSTRUCTURE				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 02</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>CONCRETE</u>				
	<u>VIBRATED REINFORCED CONCRETE (CLASS 20)</u>				
A	Columns	CM	11		
B	Beams	CM	25		
	<u>REINFORCEMENT</u>				
	<u>Square twisted high tensile steel bar reinforcement to B.S. 4461 and K.S. 02-22:1976</u>				
C	8mm Bars	Kg	1,576		
D	10mm Bars	Kg	3,565		
	<u>FORMWORK</u>				
E	Vertical sides of columns	SM	92		
F	Vertical sides and soffits of beams	SM	409		
	CARRIED TO SUMMARY				KES
	ELEMENT NO. 02				
	REINFORCED CONCRETE FRAME				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	ELEMENT NO. 03				
	SUPERSTRUCTURE WALLING				
	DAMP PROOF COURSES				
	<u>Approved horizontal damp proof course to B.S. 743 laid under walling (measured net - no allowance made for laps) including leveling bed</u>				
A	200mm Wide	LM	205		
	MASONRY CONSTRUCTION				
	EXTERNAL WALLING				
	<u>Machine cut Ngong blue stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u>				
B	200mm Thick wall	SM	386		
	INTERNAL WALLING				
	<u>Machine cut Ngong blue stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced every alternate course with hoop iron</u>				
C	200mm Thick wall	SM	396		
	VENT BLOCKS				
D	300 x 200mm Vent Blocks	No	29		
	CARRIED TO SUMMARY				KES
	ELEMENT NO. 03				
	SUPERSTRUCTURE WALLING				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 04</u>				
	<u>ROOF STRUCTURE, COVERING & RAINWATER GOODS</u>				
	<u>ROOF STRUCTURE</u>				
	<u>The following in prime grade, pressure impregnated sawn cypress with and including bolted and nailed connections and all other necessary accessories</u>				
	<u>The following in 4No. Single pitched roof truss 8800mm wide and 1068mm rise including hoisting and fixing 10050mm (approx.) above ground floor level</u>				
A	100 x 50mm Tie beams	Lm	90		
B	100 x 50mm Rafters	Lm	131		
C	75 x 50mm Struts and ties	Lm	145		
	<u>The following in prime grade, pressure impregnated sawn cypress with nailed connections (Provisional)</u>				
D	150 x 50mm Purlins	Lm	267		
E	100 x 50 mm Wall plate secured with and including hoop iron at 900mm centres cast in concrete ring beam	Lm	198		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ROOF COVERING</u>				
	<u>IT5 ROOFING SHEETS</u>				
A	22.5° IT5 box profile sheets 28 gauge; to Engineer's details	SM	488		
B	Ridge and hip covers to match	Lm	37		
	<u>RAIN WATER GOODS (ALL PROVISIONAL)</u>				
C	150mm diameter UPVC gutter fixed to fascia board with all it's necessary parts.	Lm	92		
D	100mm diameter UPVC down pipe in duct or fixed to wall with and including approved holderbats at 1200mm centres	Lm	9		
E	Exta over down pipe for swan neck	No.	2		
F	Ditto horse shoe	No.	2		
G	Ditto bend	No.	2		
	<u>ROOF FINISHING</u>				
	<u>The following in eaves boarding</u>				
H	50 x 50 mm Sawn cypress or any other equal and approved softwood bearers	Lm	202		
I	100 x 25mm Tongued and grooved wrot cypress or any other equal and approved softwood boarding nailed to brandering (measured separately)	SM	110		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	25 x 300mm Wrot, treated cypress fascia or barge board <u>Knot, prime and stop, prepare and apply one undercoats and two finishing coats "Crown Solo" or any other equal and approved gloss paint on wood work</u>	Lm	92		
B	General surfaces of woodwork	SM	110		
C	Surfaces girth exceeding 200mm but not exceeding 300mm	Lm	92		
CARRIED TO COLLECTION					

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		MTN/09		
	Total brought forward from page		MTN/10		
	Total brought forward from page		MTN/11		
	CARRIED TO SUMMARY				KES
	BILL NO. III ELEMENT NO. 04 ROOF STRUCTURE, COVERING & RAINWATER GOODS				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 5</u>				
	<u>WINDOWS</u>				
	<u>CILLS AND BOARDS</u>				
A	250 x 75mm Thick precast concrete (1:2:4) sunk, weathered and throated window cill cast in convenient lengths, reinforced as necessary, bedded, jointed and pointed in gauged mortar and finished smooth on all exposed surfaces, with 10mm drip and with 0.25mm thick polythene DPM.	Lm	35		
B	25 x 6mm Galvanised metal water bar grouted in groove in concrete cill	Lm	29		
	<u>ALUMINIUM CASEMENT WINDOWS</u>				
	<u>Supply assemble and fix the following purpose made powder coated anodised aluminium sliding, hinged or fixed composite windows frames in approved heavy duty sections complete with all coupling mullions and transomes and frames and handles, lever, finger pulls, pins, permanent vent with mosquito gauze wire, catches, stays, hinges, approved locking devices and other accessories where applicable, complete with glazings, fixed at predetermined positions, including 'snap on' glazing beads; building in lugs to jambs, plugging and screwing head and cill to concrete and bedding frames in waterproof cement mortar and pointing in approved mastic externally oiling, easing and adjusting and leaving in perfect working order.</u>				
C	Window size 900mm x 2100mm high ditto (W01)	No.	32		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	<u>BURGLARPROOFING GRILLS</u> Approved mild steel Burglar proofing grilles: in 25mm CHS spaces at 150mm both sides; complete with all necessary framework in 50mm CHS; with & including building in lugs to jambs, plugging and screwing to head or cill, bedded all round in cement and sand (1:3) mortar ; complete with making good disturbed surfaces ; all to Architectural details	SM	61		
B	<u>CURTAIN RAILING</u> Supply and fix wrought iron double curtain rod; with 20mm diameter curtain rod and 10mm diameter sheer rod; complete with and including decorative mouldings, rollers, fixing brackets and all fixing screws and accessories; as "Tile and Carpet Ltd" or equal and approved : plugging, and all necessary paintwork	Lm	35		
	<u>FINISHING</u> <u>Prepare stain to approval with timber guard and apply three coats matt "Crown Tuffseal" or other equal and approved polyurethane varnish to woodwork to be executed by an approved sub-contractor</u>				
D	Timber surfaces exceeding 100mm but not exceeding 200mm girth	Lm	35		
E	Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal windows	SM	122		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		MTN/13		
	Total brought forward from page		MTN/14		
	CARRIED TO SUMMARY			KES	
	BILL NO. III ELEMENT NO. 05 WINDOWS				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 06</u>				
	<u>DOORS</u>				
	<u>DOOR FRAMES</u>				
	<u>Wrot mahogany, or other equal and approved hardwood framed frames and finishings.</u>				
A	50 x 150mm Frame head, rebated fixed to wall	Lm	83		
B	150mm x 50mm Transome fixed to frames (m.s)	Lm	18		
C	25 x 50mm moulded architrave with one labour	Lm	83		
D	25 x 25mm Quadrant	Lm	83		
	<u>PANEL DOORS</u>				
	<u>Wrot mahogany or other equal and approved hardwood.</u>				
E	Double leaf door overall size 1800mm x 2400 mm	No.	5		
F	Single leaf door overall size 900mm x 2400 mm	No.	9		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following ironmongery complete with furniture and matching screws as per 'UNION' catalogue or approved equivalent:</u>				
A	3 Lever lockset with martin design aluminium handle.	No.	14		
B	100 x 76 x 3mm Stainless steel ball bearing hinges as Union HN-4BB-403030 or any other equal and approved in stainless steel finish	Prs	35		
C	Coat and hat hook with rubber tip in stainless steel finish.	No.	3		
D	Cylindrical floor mounted door stop as Union Cat. No. J-DS101 SS or any other equal and approved in matt stainless steel finish	No.	23		
	<u>FINISHING</u>				
E	Prepare and apply one coat "Crown" or equal and approved aluminium wood primer before fixing on backs of wood surfaces in contact with masonry, concrete or plaster girth exceeding 200 but not exceeding 300mm	Lm	101		
	<u>Prepare stain to approval with timber guard and apply three coats matt "Crown Tuffseal" or other equal and approved polyurethane varnish to</u> <u>woodwork to be executed by an approved sub-contractor</u>				
F	General surfaces of woodwork	SM	79		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	Surfaces girth exceeding 200mm but not exceeding 300mm	Lm	101		
	<u>STEEL DOORS</u>				
	Supply, assemble and fix the following purpose made standard section steel doors complete with frames to comply to B.S.990,obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with, hinges, handles, catches, heavy duty tower bolts and building in lugs to concrete or masonrv iambs or heads.				
B	Single leaf door overall size 1200mm x 2400 mm	NO	1		
C	Prepare, prime with "Crown" or equal and approved zinc plumbate primer and paint one undercoat and two gloss finishing coats of "Crown Super Gloss" or equal and approved oil paint on surfaces of metal doors	SM	7		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		MTN/16		
	Total brought forward from page		MTN/17		
	Total brought forward from page		MTN/18		
	CARRIED TO SUMMARY			KES	
	BILL NO. III ELEMENT NO. 06 DOORS				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Cement and sand (1:3) screed trowelled hard and smooth with steel trowel</u>				
A	38mm Bed laid to receive Terrazzo floor finish	SM	319		
	<u>TERRAZZO FLOOR FINISH</u>				
B	Polished Terrazzo floor finish to Architects details	SM	319		
C	10 x 100mm High skirting	Lm	202		
	<u>EXTERNAL WALL FINISHES</u>				
	<u>RENDERS AND PAINTS</u>				
	<u>Cement and sand (1:5) external rendering finished with a wood float</u>				
D	12mm Cement and sand (1:5) external rendering finished with a wood float on brick walling or concrete surfaces	SM	386		
	<u>FINISHING</u>				
E	Prepare and apply one undercoat and three coats of "Crown Solo" or equal and approved Hi Matt Vinyl emulsion paint on plastered concrete surfaces	SM	386		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>INTERNAL WALL FINISHES</u>				
A	12mm Cement and sand (1:4) with anti fungal treatment incorporated backing on walls finished to receive ceramic wall tiles.	SM	30		
B	12mm (minimum) Two coat lime plaster comprising 9mm first coat of cement and sand (1:4) and 3mm second coat of cement and sand lime putty on walls finished smooth with a steel trowel on concrete or stone walls	SM	1,178		
	<u>TILEWORK</u>				
	<u>Coloured glazed ceramic wall tiles fixed to backing (measured separately) with an approved adhesive on walls and pointed with and including coloured anti fungal cement grout</u>				
C	300 x 300 x 6mm Thick tiles as "Saj" or any other equal and approved	SM	25		
	<u>PAINT WORK AND DECORATIONS</u>				
D	Prepare and apply one undercoat and three coats of "Crown Solo" or equal and approved silk vinyl emulsion paint on plastered walls internally	SM	1,178		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
A	<p><u>GYPSUM CEILING</u></p> <p>Supply and install 12.5mm thick "Rhinoboard" or any other equal and approved gypsum board to BS1230 fixed on to and including galvanised steel bearers and studs spaced at maximum 600mm centres, with and including sealing jointing with approved fibre tapes and approved filler and</p> <p>Soffits and sides of ceiling bulkheads</p>	SM	319		
B	<p><u>FINISHING</u></p> <p>Prepare plasterboard or gypsum surfaces, skim to approval with Altek or any other equal and approved, apply one undercoat and four coats of "Crown Solo" or equal and approved Hi Matt Vinyl emulsion paint all to Interior Designer's Colour Scheme</p>	SM	319		
	<p>CARRIED TO COLLECTION</p>				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		MTN/20		
	Total brought forward from page		MTN/21		
	Total brought forward from page		MTN/22		
	CARRIED TO SUMMARY			KES	
	BILL NO. III ELEMENT NO. 07 FINISHES				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>ELEMENT NO. 8</u>				
	<u>JOINERY FITTINGS AND FIXTURES</u>				
	<u>(ALL PROVISIONAL)</u>				
	<u>WRITING TOPS</u>				
	<u>Metal Framework</u>				
A	25 x 25 x 3mm Mild steel square hollow section bearers with welded connections and bolted to masonry or concrete, primed and painted with three coats gloss paint	Lm	8		
	<u>The following in plain medium density fiberboard (mdf) with with and including screwed connections, shelf studs, PVC lipping and any necessary support or reinforcing mechanism</u>				
B	25mm Thick top to receive granite (measured separately)	SM	2		
	<u>Polished granite in approved colours and texture</u>				
C	20mm Thick counter top fixed to blockboard (measured separately)	SM	2		
D	20mm Thick fascia 80mm high	Lm	7		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>HIGH LEVEL CABINETS</u>				
	<u>CABINETS</u>				
	<u>Medium Density Fiber Board</u>				
A	25mm Thick shelves with sapele laminate both sides	SM	1		
B	25mm Thick bases or top with sapele laminate both sides	SM	3		
C	25mm Thick partitions and sides with sapele	SM	2		
D	Door size 650 x 600mm high 18mm thick with	No	5		
E	Extra over mdf door for routered edges	Lm	8		
F	25 x 1.5mm PVC edging strip fixed to edges of mdf with approved adhesive	Lm	16		
	<u>Wrot cypress or any other equal and approved softwood</u>				
G	25 x 50mm Bearers	Lm	8		
H	75 x 50mm Frame with one labour	Lm	9		
	<u>The following ironmongery to timber</u>				
I	12mm Diameter, 200 x 36mm matt stainless steel door handle	No	5		
J	Approved heavy duty stainless steel malpa hinges	Pairs	9		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>SHELVES</u>				
	<u>METAL FRAMEWORK</u>				
A	50 x 25 x 3mm Mild steel rectangular hollow section stanchions	Lm	18		
B	25 x 25 x 3mm Mild steel square hollow section bearers with welded connections to stanchions, primed and painted with three coats gloss paint	Lm	35		
	<u>Blockboard to B.S. EN 12871</u>				
C	25mm Thick shelves	SM	7		
	Knot, prime and stop, prepare and spray paint one undercoats and three finishing coats "Crown" or any other equal and approved automotive paint on wood work				
A	General surfaces of blockboard	SM	7		
	CARRIED TO COLLECTION				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
	<u>COLLECTION PAGE</u>		PAGE		
	Total brought forward from page		MTN/24		
	Total brought forward from page		MTN/25		
	Total brought forward from page		MTN/26		
	CARRIED TO SUMMARY			KES	
	BILL NO. III ELEMENT NO. 08 JOINERY FITTINGS AND FIXTURES				

Item No.	Description	Unit	Quantity	Rate (Kshs)	Amount (Kshs)
<u>MAIN WORKS SUMMARY</u>					
Item No.	ELEMENT NO.		Page No.		
1	SUBSTRUCTURES		4		
2	REINFORCED CONCRETE SUPERSTRUCTURES		5		
3	WALLING		6		
4	ROOFING AND RAINWATER DISPOSAL		9		
5	WINDOWS		12		
6	DOORS		15		
7	FINISHES		18		
8	JOINERY FITTINGS AND FIXTURES		21		
	CARRIED TO MAIN COLLECTION			KES	
	BILL NO. III				
	MATERNITY BLOCK				

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	MECHANICAL WORKS				
	FEMALE WARD/MALE WARD/PAEDIATRIC WARD				
1.0	SANITARY FITTINGS				
A	GENERAL PURPOSE SQUATING W.C Water closet suite ('S' or 'P'- trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless cistern fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, inlet connection 1No. 15mm Chrome plated angle valve as HANSGROHE "Angle Valve E" No. 1390200. All to be as Twyford's "Arabian" water closet or equal and approved.	2	No.		
B	WATER CLOSET (W.C.) SUITE Close coupled WC in white vitreous china , comprising bowl with Horizontal Outlet No. 017609; cistern and fitting with total install dual flush 6/4 litre push button No. GP2496WH; Heavy duty seat and cover No.GP7815WH; Dual Flush push button No.CF1002TG, 'S' or turned 'P' trap outlet connector. To be as DURAVIT BATHROOM FOSTER TOILET or equal and approved.	1	No.		
C	DISABLED UNIT Disable toilet suite comprising: WC with horizontal outlet, 2No. support rails, Doc M hinged support rail, Doc. M cistern and fittings, Doc. M seat ring, stainless steel seat hinges, No. 1240WH P trap connector or equal and approved.	1	No		
D	WASH HAND BASIN- VANITYTOP Drop in Basin (Vanity top) wash hand basin size 635 x 500mm and in white colour, with 1No. Taphole and chain stay hole, 32mm chrome plated chain waste 1No. Swan Neck Single Lever Mixer tap and 32mm diameter plastic bottle trap with 75mm seal. 2No. 15mm Chrome plated angle valve as HANSGROHE "Angle Valve E" No. 1390200 As Twyford or approved equivalent.	22	No.		
E	SPLASH/ HOSE BIB TAPS 15mm diameter chrome plated bib tap as pegler or equal and approved.	4	No.		
F	SHOWER FITTINGS 1.No. Giro Shower Head, 1 No. Kevon Shower Mixer and any other item necessary for installation. Or equal and approved.	3	No.		
G	SOAP DISH Wall mounted Chrome plated soap dish as DURAVIT "D-CODE" No. 009918 OR equal and approved.	3	No.		
H	MIRRORS 600 x 600 x 6mm thick plate glass mirror, similar or equal to Twyford "Bevelled mirror" No.PB 0383 XX. Mirrors shall be installed above all W.H.B's with Pedestals.	22	No.		
I	SOAP DISPENSER Wall mounted Soap dispenser as GROHE OR equal and approved.	11	No		
J	TOILET ROLL HOLDER Wall mounted toilet roll holder chrome plated. To be as DURAVIT KARREE No. 009955 or equal and approved.	4	No.		
K	ARABIC SHOWER TREDEX Arabic Shower, complete with 1 No. 15mm Chrome plated angle valves as HANSGROHE. The Arabic Shower to be as TREDEX B 51010+KH or Equal and Approved.	4	No.		
	TOTAL FOR SANITARY FITTINGS CARRIED FORWARD TO COLLECTION PAGE MW/5				

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
2.0	COLD WATER PLUMBING INSTALLATION				
	General Note:- Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes on walls and Floors for wall chasing and holes cutting by others all as required in the pipework installation. The following in PN 20PPRC conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/Plastic threaded adaptors where required for the connection of sanitary fixtures, support raceways , isolating sheaths, elastic materials, expansion arms and bends, crossovers etc.				
	PIPEWORK				
A	32mm diameter pipe	12	LM		
B	25mm diameter pipe	84	LM		
C	20mm ditto	38	LM		
	ELBOW				
D	32mm diameter	10	No		
E	25mm diameter	52	No		
F	20mm ditto	45	No		
	TEES				
G	25 x 25 x 25 mm diameter	11	No		
	REDUCERS				
H	32mm-25mm reducers	1	No		
I	25mm-20mm ditto	8	No		
J	20mm-15mm ditto	15	No		
	SOCKETS				
K	32mm diameter	6	No		
L	25mm diameter	42	No		
M	20mm diameter	19	No		
	UNIONS				
N	32mm diameter	3	No		
O	25mm diameter	21	No		
P	20mm diameter	10	No		
Q	FLEXIBLE COPPER CONNECTIONS 15MM DIAMETER There are to be a maximum length of 300 mm each complete with connecting couplers per length.	22	No		
	GATE VALVES				
R	32mm diameter high pressure screw-down full way non-rising stem solid wedge disc gate valve to BS 5154 PN 16 for Series B Rating with wheel head and including jointing to steel tubing. As CRANE Model 156 or equal and approved	7	No		
TOTAL FOR COLD WATER PLUMBING CARRIED FORWARD TO COLLECTION PAGE MW/5					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
A	MALE/FEMALE THREADED ELBOW 15 mm diameter bend	13	No		
B	MALE/FEMALE THREADED ADAPTORS 32mm diameter	4	No		
C	25mm diameter	16	No		
D	STERILIZATION Allow for sterilization including flushing out water and chlorine to the satisfaction of the Engineer.	Item	Sum		
E	TESTING AND COMMISSIONING Test and commission the entire internal water supply to the satisfaction of the Engineer.	Item	Sum		
TOTAL FOR COLD WATER PLUMBING CARRIED FORWARD TO COLLECTION PAGE MW/5					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
3.0	DRAINAGE INSTALLATION Supply, install, test and commission the following complete: General Note. Prices for pipework shall include the cost for couplings, connectors and jointing to fittings appliances etc., and fixing brackets all as required in the pipework installation, together with marking pipe routes on walls and floors for wall chasing and holes cutting by others. All UPVC couplings, branches, tees etc., are to be formed strictly in accordance with the manufacture's interactions. Jointing pipework by " heat formed sockets" etc., shall not be accepted.U.P.V.C. Soil, Waste and Ventilation Pipes and fittings to B.S. No. 5255 PIPEWORK waste pipe fixed to wall or wall chase including approved pipe clips or brackets				
A	40mm	42	LM		
B	50mm	24	LM		
C	100mm grey drain pipe fixed to wall surface or boxed to architect's detail	6	LM		
	UNDERGROUND UPVC PIPEWORK TO BS 4660:1963 GOLDEN BROWN SERIES				
D	100mm soil and waste pipe laid in or under concrete	96	LM		
	BENDS				
E	40mm	46	No.		
F	100mm	6	No.		
	TEE WITH ACCESS				
G	50 mm	10	No.		
H	VENT COWL TERRAIN No. 150.2	1	No.		
I	FLOOR TRAP Floor trap as " Key Terrain" 281.3 trapped Floor gully, 282.6 Floor gully inlet and grating.	10	No.		
J	GULLY TRAP Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm blockwork with cement mortar joints, on 150mm thick mass concrete slab and plastered inside for 100mm trap and hopper. 40mm thick, 250 x 250mm cover to gully trap chamber.	10	No.		
K	INSPECTION CHAMBER Internal chambers not to exceed 1070 x 910mm and depth not to exceed 2000mm below finished floor or ground level. Wall thickness should be 150mm blockwork and it should have concrete base and rendered concrete benching 1:3:6 mix. The cover to be cast iron Grade "B" medium duty to BS 497 with double seal.	13	No.		
L	BIODIGESTER & SOAKPIT Allow construction of a 4 CM Biodigester complete with 2mx2mx5m soak pit to serve each Ward independently.inclusive of excavations, back filling with hardcore, making an inspection chamber with cover and carting away excess excavated material.	1	No.		
	TOTAL FOR DRAINAGE INSTALLATION CARRIED FORWARD TO				

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
5.0	<p>PORTABLE FIRE EXTINGUISHERS</p> <p>Supply, deliver, install, test and commission the flowing portable fire extinguishers and conforming to BS EN 3/BS 1449.</p> <p>A CARBONDIOXIDE GAS EXTINGUISHER 4.5Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mountings brackets</p>	2	No		
TOTAL FOR PORTABLE FIRE EXTINGUISHERS C/F TO BELOW					
<p>COLLECTION PAGE</p> <p>FEMALE WARD/MALE WARD/PAEDIATRIC WARD</p> <p>A Total For Sanitary Fittings B/F from Page MW/1</p> <p>B Total For Cold Water Plumbing Installation B/F from Page MW/2 Total For Cold Water Plumbing Installation B/F from Page MW/3</p> <p>D Total For Drainage Installation B/F from Page MW/4</p> <p>E Total For Portable Fire Extinguishers B/F from Above</p> <p style="text-align: right;">Total for 1NO. Ward</p> <p style="text-align: right;">= X 3</p>					
TOTAL FOR 01NO. WARDS (FEMALE WARD, MALE WARD/PAEDIATRIC WARD) CARRIED FORWARD TO SUMMARY PAGE					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	MECHANICAL WORKS				
	MATERNITY BLOCK				
1.0	SANITARY FITTINGS				
A	GENERAL PURPOSE SQUATING W.C Water closet suite ('S' or 'P'- trap) in approved colour complete with horizontal outlet to BS 3402 with 7.5 litre valveless cistern fittings including siphon, 15mm diameter side inlet ball valve, 20mm diameter side overflow, plastic flush bend, inlet connection 1No. 15mm Chrome plated angle valve as HANSGROHE "Angle Valve E" No. 1390200. All to be as Twyford's "Arabian" water closet or equal and approved.	2	No.		
B	WATER CLOSET (W.C.) SUITE Close coupled WC in white vitreous china , comprising bowl with Horizontal Outlet No. 017609; cistern and fitting with total install dual flush 6/4 litre push button No. GP2496WH; Heavy duty seat and cover No.GP7815WH; Dual Flush push button No.CF1002TG, 'S' or turned 'P' trap outlet connector. To be as DURAVIT BATHROOM FOSTER TOILET or equal and approved.	1	No.		
C	DISABLED UNIT Disable toilet suite comprising: WC with horizontal outlet, 2No. support rails, Doc M hinged support rail, Doc. M cistern and fittings, Doc. M seat ring, stainless steel seat hinges, No. 1240WH P trap connector or equal and approved.	1	No		
D	WASH HAND BASIN- VANITYTOP Drop in Basin (Vanity top) wash hand basin size 635 x 500mm and in white colour, with 1No. Taphole and chain stay hole, 32mm chrome plated chain waste 1No. Swan Neck Single Lever Mixer tap and 32mm diameter plastic bottle trap with 75mm seal. 1No. 15mm Chrome plated angle valve as HANSGROHE "Angle Valve E" No. 1390200 As Twyford or approved equivalent.	28	No.		
E	SPLASH/ HOSE BIB TAPS 15mm diameter chrome plated bib tap as pegler or equal and approved.	4	No.		
F	SHOWER FITTINGS 1.No. Instant Shower Head Heater, 1 No. Kevon Shower Mixer and any other item necessary for installation. Or equal and approved.	3	No.		
G	SOAP DISH Wall mounted Chrome plated soap dish as DURAVIT "D-CODE" No. 009918 OR equal and approved.	3	No.		
H	MIRRORS 600 x 600 x 6mm thick plate glass mirror, similar or equal to Twyford "Bevelled mirror" No.PB 0383 XX. Mirrors shall be installed above all W.H.B's with Pedestals.	28	No.		
I	SOAP DISPENSER Wall mounted Soap dispenser as GROHE OR equal and approved.	11	No		
J	TOILET ROLL HOLDER Wall mounted toilet roll holder chrome plated. To be as DURAVIT KARREE No. 009955 or equal and approved.	4	No.		
K	ARABIC SHOWER TREDEX Arabic Shower, complete with 1 No. 15mm Chrome plated angle valves as HANSGROHE. The Arabic Shower to be as TREDEX B 51010+KH or Equal and Approved.	4	No.		
TOTAL FOR SANITARY FITTINGS CARRIED FORWARD TO COLLECTION PAGE MW/5					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
2.0	COLD WATER PLUMBING INSTALLATION				
	General Note:- Price of pipework to include the cost of couplings, connectors, fixing brackets, holderbats, plugs and jointing to fittings etc., together with marking of pipe routes on walls and Floors for wall chasing and holes cutting by others all as required in the pipework installation. The following in PN 20PPRC conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. Rates must allow for all Metal/Plastic threaded adaptors where required for the connection of sanitary fixtures, support raceways , isolating sheaths, elastic materials, expansion arms and bends, crossovers etc.				
	PIPEWORK				
A	32mm diameter pipe	12	LM		
B	25mm diameter pipe	84	LM		
C	20mm ditto	38	LM		
	ELBOW				
D	32mm diameter	10	No		
E	25mm diameter	52	No		
F	20mm ditto	45	No		
	TEES				
G	25 x 25 x 25 mm diameter	11	No		
	REDUCERS				
H	32mm-25mm reducers	1	No		
I	25mm-20mm ditto	8	No		
J	20mm-15mm ditto	15	No		
	SOCKETS				
K	32mm diameter	6	No		
L	25mm diameter	42	No		
M	20mm diameter	19	No		
	UNIONS				
N	32mm diameter	3	No		
O	25mm diameter	21	No		
P	20mm diameter	10	No		
Q	FLEXIBLE COPPER CONNECTIONS 15MM DIAMETER There are to be a maximum length of 300 mm each complete with connecting couplers per length.	22	No		
	GATE VALVES				
R	32mm diameter high pressure screw-down full way non-rising stem solid wedge disc gate valve to BS 5154 PN 16 for Series B Rating with wheel head and including jointing to steel tubing. As CRANE Model 156 or equal and approved	7	No		
TOTAL FOR COLD WATER PLUMBING CARRIED FORWARD TO COLLECTION PAGE MW/5					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
A	MALE/FEMALE THREADED ELBOW 15 mm diameter bend	13	No		
B	MALE/FEMALE THREADED ADAPTORS 32mm diameter	4	No		
C	25mm diameter	16	No		
D	STERILIZATION Allow for sterilization including flushing out water and chlorine to the satisfaction of the Engineer.	Item	Sum		
E	TESTING AND COMMISSIONING Test and commission the entire internal water supply to the satisfaction of the Engineer.	Item	Sum		
TOTAL FOR COLD WATER PLUMBING CARRIED FORWARD TO COLLECTION PAGE MW/5					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
3.0	DRAINAGE INSTALLATION Supply, install, test and commission the following complete: General Note. Prices for pipework shall include the cost for couplings, connectors and jointing to fittings appliances etc., and fixing brackets all as required in the pipework installation, together with marking pipe routes on walls and floors for wall chasing and holes cutting by others. All UPVC couplings, branches, tees etc., are to be formed strictly in accordance with the manufacture's interactions. Jointing pipework by " heat formed sockets" etc., shall not be accepted.U.P.V.C. Soil, Waste and Ventilation Pipes and fittings to B.S. No. 5255 PIPEWORK waste pipe fixed to wall or wall chase including approved pipe clips or brackets				
A	40mm	42	LM		
B	50mm	24	LM		
C	100mm grey drain pipe fixed to wall surface or boxed to architect's detail	6	LM		
	UNDERGROUND UPVC PIPEWORK TO BS 4660:1963 GOLDEN BROWN SERIES				
D	100mm soil and waste pipe laid in or under concrete	96	LM		
	BENDS				
E	40mm	46	No.		
F	100mm	6	No.		
	TEE WITH ACCESS				
G	50 mm	10	No.		
H	VENT COWL TERRAIN No. 150.2	1	No.		
I	FLOOR TRAP Floor trap as " Key Terrain" 281.3 trapped Floor gully, 282.6 Floor gully inlet and grating.	10	No.		
J	GULLY TRAP Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm blockwork with cement mortar joints, on 150mm thick mass concrete slab and plastered inside for 100mm trap and hopper. 40mm thick, 250 x 250mm cover to gully trap chamber.	10	No.		
K	INSPECTION CHAMBER Internal chambers not to exceed 1070 x 910mm and depth not to exceed 2000mm below finished floor or ground level. Wall thickness should be 150mm blockwork and it should have concrete base and rendered concrete benching 1:3:6 mix. The cover to be cast iron Grade "B" medium duty to BS 497 with double seal.	13	No.		
L	BIODIGESTER & SOAKPIT Allow construction of a 4 CM Biodigester complete with 2mx2mx5m soak pit to serve each Ward independently.inclusive of excavations, back filling with hardcore, making an inspection chamber with cover and carting away excess excavated material.	1	No.		
	TOTAL FOR DRAINAGE INSTALLATION CARRIED FORWARD TO				

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
5.0	<p>PORTABLE FIRE EXTINGUISHERS</p> <p>Supply, deliver, install, test and commission the flowing portable fire extinguishers and conforming to BS EN 3/BS 1449.</p>				
A	<p>CARBONDIOXIDE GAS EXTINGUISHER 4.5Kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mountings brackets</p>	2	No		
TOTAL FOR PORTABLE FIRE EXTINGUISHERS C/F TO BELOW					
<p>COLLECTION PAGE</p> <p>MATERNITY BLOCK</p> <p>A Total For Sanitary Fittings B/F from Page MW/6</p> <p>B Total For Cold Water Plumbing Installation B/F from Page MW/7 Total For Cold Water Plumbing Installation B/F from Page MW/8</p> <p>D Total For Drainage Installation B/F from Page MW/9</p> <p>E Total For Portable Fire Extinguishers B/F from Above</p>					
TOTAL FOR MATERNITY BLOCK CARRIED FORWARD TO SUMMARY PAGE					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
1.0	WATER RETICULATION				
A	ELEVATED WATER TANK Allow Installation of 2No. 10,000 Ltrs Cylindrical Tank as Kentank or Equal and Approved.Complete with 32mm Inlet ball valve, Outlet and 40mm Overflow.Supported on a 6m High Steel structure to Structural Engineer's Details.	2	NO.		
B	WATER BOOSTER PUMP Submersible Pump type Shall be as <i>Pedrollo UPm2/4</i> Capacity: 3.0m ³ /hr Head: 10m Power supply: 1phase 240v, 50Hz.Complete with float switches,pump controls and any other accessories necessary for efficient operation or equal and approved.	1	No.		
C	PIPEWORK Allow pipework connection from the underground water tank to the Elevated water tank and from the Elevated water tanks to respective distribution points complete with control gate and non-return valves.	Item	Sum		
D	STERILIZATION Allow for sterilization including flushing out water and chlorine to the satisfaction of the Engineer	Item	Sum		
E	TESTING AND COMMISSIONING Test and commission the entire internal water supply to the satisfaction of the Engineer.	Item	Sum		
TOTAL FOR WATER RETICULATION CARRIED FORWARD TO SUMMARY PAGE					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	<u>UNDERGROUND WATER TANK (100 CM)</u>				
	<u>SUBSTRUCTURES</u> <u>(All provisional)</u>				
A	Clear site of all grass and small trees not exceeding 600mm girth and cart away or burn arisings.	76	SM		
B	Excavate pit (with a diameter not exceeding 7.0m) not exceeding 1.5m deep.	67	CM		
C	Ditto depth not limited to 1.5m but not exceeding 2.5m deep.	48	CM		
D	Ditto depth not limited to 2.5m but not exceeding 3.5m deep.	40	CM		
E	Allow for excavation over all kinds of excavation for excavating in rock irrespective of class.	ITEM	SUM		
F	Allow for keeping excavations free from all water by pumping or otherwise.	ITEM	SUM		
G	Ditto for planking and strutting to sides of excavations.	ITEM	SUM		
	<u>Disposal</u>				
H	Return fill and ram selected excavated material around foundations.	53	CM		
I	Load, wheel and cart away from site surplus excavated material and deposit in approved dumping area.	51	CM		
	<u>Imported filling</u>				
J	300mm thick (average) approved broken quarry stone hardcore filling in two equal layers well compacted.	25	SM		
K	50mm thick stone dust blinding to surfaces of hardcore	25	SM		
	<u>50mm thick plain concrete(1:4:8 class 15/20mm)blinding to:</u>				
L	Foundation base	25	SM		
	<u>Sawn formwork to:</u>				
M	Edges of ground floor bed exceeding 150mm but not exceeding 300mm girth.	17	LM		
	<u>Anti-termite treatment</u>				
N	'Dagnet' or other equal and approved anti termite insecticide treatment to blinded hardcore surfaces applied in accordance with manufacturer's instructions.	25	SM		
	<u>Damp proof membrane</u>				
O	1000 gauge polythene sheering laid under concrete floor bed.	25	SM		
TOTAL FOR SUBSTRUCTURE CARRIED FORWARD TO COLLECTION PAGE					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	<u>REINFORCEMENT</u> (All provisional) <u>High tensile square twisted bars BS 4461 as described in:</u>				
A	8mm diameter bars	300	KG		
B	10mm ditto	635	KG		
C	12mm ditto	564	KG		
D	16mm ditto	40	KG		
	<u>Vibrated reinforced concrete class 25 in</u>				
E	300mm thick raft foundation slab	25	CM		
F	150mm thick suspended slab with one opening size 600x600mm and 450mm deep cross / ring beams.	25	SM		
G	250mm thick closing lid	1	SM		
H	50mm thick mastic asphalt waterproofing or equivalent to structural engineer's specifications.	38	SM		
	<u>Sawn formwork to:</u>				
I	Soffits of suspended slab	38	SM		
J	Edges of suspended slab exceeding 75mm but not exceeding 150mm girth.	17	LM		
K	Soffits of lid	1	SM		
L	Vertical sides of closing lid.	3	LM		
TOTAL FOR REINFORCEMENT CARRIED FORWARD TO COLLECTION PAGE UT/4					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	WALLING				
	Natural stone walling in cement mortar (1:3)				
A	200mm thick masonry circular wall of internal diameter of 5.0m(16feets) and height of 3.0m(10feets) between ground raft slab and soffit to ring/cross beams to suspended slab with 20mm thick mortar joints with 2No. Well spaced Y10 high tensile square twisted bars at every course.	124	SM		
	Floor Finishes				
B	32mm thick cement and sand (1:4) bedding screed steel floated.	25	SM		
	Wall Finishes				
C	12mm thick cement and sand plaster 1:4 steel trowelled.	54	SM		
	Ceiling Finishes				
D	12mm thick cement and sand (1:4) plaster steel trowelled to soffits of suspended slab and cross/ring beams.	28	SM		
E	32mm thick cement and sand (1:4) screed to top of suspended slab.	25	SM		
TOTAL FOR WALLING CARRIED FORWARD TO COLLECTION PAGE UT/4					

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	COLLECTION PAGE				
	UNDERGROUND WATER TANK (100CM)				
A	Total For Substructure B/F from Page UT/1				
B	Total For Reinforcement B/F from Page UT/2				
C	Total For Walling B/F from Page UT/3				
	TOTAL FOR UNDERGROUND WATER TANK CARRIED FORWARD TO SUMMARY PAGE				

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

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

ITEM	DESCRIPTION	QTY	UNIT	RATE Kshs	AMOUNT Kshs
	COLLECTION PAGE				
	<u>SUBSTRUCTURE</u>				
A	Total B/F from Page ET/1				
B	Total B/F from Page ET/2				
	TOTAL FOR SUBSTRUCTURE CARRIED FORWARD TO SUMMARY PAGE				

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

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

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

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

BILL No.	DESCRIPTION	Page no.	AMOUNT (Kshs)
	<p>MECHANICAL WORKS</p> <p><u>MAIN SUMMARY COLLECTION</u></p> <p>01 WARDS BLOCKS (FEMALE, MALE WARD, PAEDIATRIC WARD)</p> <p>02 MATERNITY</p> <p>03 WATER RETICULATION</p> <p>04 UNDERGROUND WATER TANK</p> <p>05 RC WATER TOWER</p>	<p>WD/05</p> <p>UWT/04</p> <p>UWT/04</p> <p>UWT/04</p> <p>WT/07</p>	
	CARRIED TO GRAND SUMMARY		

ELECTRICAL WORKS**ELECTRICAL INSTALLATION WORKS AT THE PROPOSED MATERNITY BLOCK:**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1:01	<u>Supply and Install lighting points wired in 3 x 1.5 mm² core cables in 20 mm diameter p.v.c heavy gauge conduit including all the necessary accessories excluding fittings:</u> <ul style="list-style-type: none">• In one gang one way• In one gang two way• In intermediate switches switching	8 2 1	No No No		
2:02	<u>Supply and install power points wired in 2.5 mm² single core cables drawn in 20 mm² p.v.c heavy gauge conduits excluding the socket outlets :</u> <ul style="list-style-type: none">• For twin socket out-let	16	No		
2:03	Supply and install ceiling fans switching points wired in 1.5mm ² single core cables drawn in 20mm ² p.v.c cables excluding fans	11	No		
2:04	Supply and install 24" ceiling fans as Orient firmly fixed on the ceiling	9	No		
2:07	<u>Supply and install the following switches:</u> <ul style="list-style-type: none">• One gang One way switch.• One gang two way switches• Intermediate switches.	8 2 1	No No No		
2:08	<u>Supply and install Sockets (Fittings only):</u> <ul style="list-style-type: none">• Twin Socket outlets as Mem or it"s equivalent	16	No		
	SUB-TOTAL CARRIED TO COLLECTION				

ELECTRICAL INSTALLATION WORKS AT THE PROPOSED MATERNITY BLOCK.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
2:01	<u>Supply and install the following lighting fittings</u> <ul style="list-style-type: none"> • 1200 mm fluorescent fittings with batten holders complete with tubes as original philips or its equivalent. • 60 watts spherical ceiling fittings complete with energy saving bulbs. • 100 watts bulk-head fittings complete with energy savers 	17 2 6	No No No		
2:03	<u>Sub-mains cables running from the Metre board to the Distribution Board</u> <ul style="list-style-type: none"> • 6.0 mm² single core cable (Red) • 6.0 mm² single core cable (Blue) • 6.0 mm² single core cable (Yellow) • 6.0 mm² single core cable (Black) • 6.0 mm² single core cable 	25 25 25 25 25	LM LM LM LM LM		
2:04	<u>METRE BOARD:</u> <ul style="list-style-type: none"> • Double - Tariff Galvanized metre board with a built in inspection window with a see through glass. 	1	No		
2:05	<u>Supply and install 100 Amps Isolator</u> <ul style="list-style-type: none"> • 100 Amps Fused Isolator as MEM/KEW 	1	No		
2:06	<u>Supply and install :</u> <ul style="list-style-type: none"> • 4-way Distribution Board complete with its integral switch as Havel's or its equivalent. 	1	No		
	<u>EARTHING CHAMBER:</u> <ul style="list-style-type: none"> • 300mm X 300 mm concrete earthing chamber with removable concrete cover • Earth-Rod 1200 mm² long as copper complete with earthing clamp. 6.0 mm ² Earth –lead singles green yellow cable concealed in 20 mm ² from the Bonding bolt in the metre board to the earthing clamp.	1 6	ITEM No LM		
	SUB-TOTAL CARRIED TO COLLECTION				

ELECTRICAL WORKS

ELECTRICAL INSTALLATION WORKS AT THE PROPOSED MATERNITY BLOCK.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Total carried from page E/W 1 Total carried from page E/W 2				
	Total carried to grand summary				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS -4 NO.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	MATERNITY WARD				
1:01	<p><u>Supply and Install lighting points wired in 3 x 1.5 mm² core cables in 20 mm diameter p.v.c heavy gauge conduit including all the necessary accessories excluding fittings:</u></p> <ul style="list-style-type: none"> • In one gang one way. • In one gang two way. • In four gang one way. • In three gang one way. 	3 - 2 1	No No No No		
1:02	<p><u>Supply and install power points wired in 2.5 mm² single core cables drawn in 20 mm² p.v.c heavy gauge conduits excluding the socket outlets :</u></p> <ul style="list-style-type: none"> • For twin socket out-let 	16	No		
1:03	Supply and install ceiling fans switching points wired in 1.5mm ² single core cables drawn in 20mm ² p.v.c cables excluding fans	11	No		
1:04	Supply and install 24" ceiling fans as Orient firmly fixed on thge ceiling	11	No		
1:05	<p><u>Supply and install the following switches:</u></p> <ul style="list-style-type: none"> • One gang One way switch. • One gang two way switches • Four gang switching • Three gang switching. 	3 - 2 1	No No No No		
1:06	<p><u>Supply and install Data outlets and points to be done by others(Nursing Station)</u></p> <ul style="list-style-type: none"> • Data outlet point done in concealed 20 mm ²HG/PVC Conduiting. • Telephone and data outlet plate as crabtree or approved equivalent 	3 3	No No		
	SUB-TOTAL CARRIED TO COLLECTION				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	MATERNITY WARD				
2:01	<p><u>Supply and install the following lighting fittings</u></p> <ul style="list-style-type: none"> • 1200 mm fluorescent fittings with batten holders complete with tubes as original philips or its equivalent. • 60 watts spherical ceiling fittings complete with energy saving bulbs. • 100 watts bulk-head fittings complete with energy savers 	20	No		
		7	No		
		4	No		
2:02	<p><u>Supply and install 13 Amps switched socket – outlet s .</u></p> <ul style="list-style-type: none"> • Twin Switched socket outlets 	16	No		
2:03	<p><u>Sub-mains cables running from the Metal looping box to the Distribution Board</u></p> <ul style="list-style-type: none"> • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable(Red) • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable (Black) • 6.0 mm² single green cable. 	25	LM		
		25	LM		
		25	LM		
		25	LM		
		25	LM		
2:04	<p><u>Supply and install 100 Amps Isolator to be fixed adjacent to the D/B</u></p> <ul style="list-style-type: none"> • 100 Amps Fused Isolator as MEM/KEW 	1	No		
2:05	<p><u>Supply and install :</u></p> <ul style="list-style-type: none"> • 4-way Distribution Board complete with its integral switch as Havel. 	1	No		
2:06	<p><u>Supply and install a Nursing station control system with the following minimal specifications:</u></p> <ul style="list-style-type: none"> • Switchboard • Roam alert • Sensors as doors/window,smoke,water leakage • PA System ,compatible with patients and the nurse on duty. 	1	No		
	SUB-TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Total carried from page E/W 1 Total carried from page E/W 2				
	Total carried to grand summary				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	FEMALE WARD.				
1:01	<p><u>Supply and Install lighting points wired in 3 x 1.5 mm² core cables in 20 mm diameter p.v.c heavy gauge conduit including all the necessary accessories excluding fittings:</u></p> <ul style="list-style-type: none"> • In one gang one way. • In one gang two way. • In four gang one way. • In three gang one way. 	3 - 2 1	No No No No		
1:02	<p><u>Supply and install power points wired in 2.5 mm² single core cables drawn in 20 mm² p.v.c heavy gauge conduits excluding the socket outlets :</u></p> <ul style="list-style-type: none"> • For twin socket out-let 	16	No		
1:03	Supply and install ceiling fans switching points wired in 1.5mm ² single core cables drawn in 20mm ² p.v.c cables excluding fans	11	No		
1:04	Supply and install 24" ceiling fans as Orient firmly fixed on thge ceiling	11	No		
1:05	<p><u>Supply and install the following switches:</u></p> <ul style="list-style-type: none"> • One gang One way switch. • One gang two way switches • Four gang switching • Three gang switching. 	3 - 2 1	No No No No		
1:06	<p><u>Supply and install Data outlets and points to be done by others(Nursing Station)</u></p> <ul style="list-style-type: none"> • Data outlet point done in concealed 20 mm ²HG/PVC Conduiting. • Telephone and data outlet plate as crabtree or approved equivalent 	3 3	No No		
	SUB-TOTAL CARRIED TO COLLECTION				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	FEMALE WARD.				
2:01	<p><u>Supply and install the following lighting fittings</u></p> <ul style="list-style-type: none"> • 1200 mm fluorescent fittings with batten holders complete with tubes as original philips or its equivalent. • 60 watts spherical ceiling fittings complete with energy saving bulbs. • 100 watts bulk-head fittings complete with energy savers 	20	No		
		7	No		
		4	No		
2:02	<p><u>Supply and install 13 Amps switched socket – outlet s .</u></p> <ul style="list-style-type: none"> • Twin Switched socket outlets 	16	No		
2:03	<p><u>Sub-mains cables running from the Metal looping box to the Distribution Board</u></p> <ul style="list-style-type: none"> • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable(Red) • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable (Black) • 6.0 mm² single green cable. 	25	LM		
		25	LM		
		25	LM		
		25	LM		
		25	LM		
2:04	<p><u>Supply and install 100 Amps Isolator to be fixed adjacent to the D/B</u></p> <ul style="list-style-type: none"> • 100 Amps Fused Isolator as MEM/KEW 	1	No		
2:05	<p><u>Supply and install :</u></p> <ul style="list-style-type: none"> • 4-way Distribution Board complete with its integral switch as Havels. 	1	No		
2:06	<p><u>Supply and install a Nursing station control system with the following minimal specifications:</u></p> <ul style="list-style-type: none"> • Switchboard • Roam alert • Sensors as doors/window,smoke,water leakage • PA System ,compatible with patients and the nurse on duty. 	1	No		
	SUB-TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Total carried from page E/W 1 Total carried from page E/W 2				
	Total carried to grand summary				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	MALE WARD.				
1:01	<p><u>Supply and Install lighting points wired in 3 x 1.5 mm² core cables in 20 mm diameter p.v.c heavy gauge conduit including all the necessary accessories excluding fittings:</u></p> <ul style="list-style-type: none"> • In one gang one way. • In one gang two way. • In four gang one way. • In three gang one way. 	3 - 2 1	No No No No		
1:02	<p><u>Supply and install power points wired in 2.5 mm² single core cables drawn in 20 mm² p.v.c heavy gauge conduits excluding the socket outlets :</u></p> <ul style="list-style-type: none"> • For twin socket out-let 	16	No		
1:03	Supply and install ceiling fans switching points wired in 1.5mm ² single core cables drawn in 20mm ² p.v.c cables excluding fans	11	No		
1:04	Supply and install 24" ceiling fans as Orient firmly fixed on thge ceiling	11	No		
1:05	<p><u>Supply and install the following switches:</u></p> <ul style="list-style-type: none"> • One gang One way switch. • One gang two way switches • Four gang switching • Three gang switching. 	3 - 2 1	No No No No		
1:06	<p><u>Supply and install Data outlets and points to be done by others(Nursing Station)</u></p> <ul style="list-style-type: none"> • Data outlet point done in concealed 20 mm ²HG/PVC Conduiting. • Telephone and data outlet plate as crabtree or approved equivalent 	3 3	No No		
	SUB-TOTAL CARRIED TO COLLECTION				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	MALE WARD.				
2:01	<p><u>Supply and install the following lighting fittings</u></p> <ul style="list-style-type: none"> • 1200 mm fluorescent fittings with batten holders complete with tubes as original philips or its equivalent. • 60 watts spherical ceiling fittings complete with energy saving bulbs. • 100 watts bulk-head fittings complete with energy savers 	20	No		
		7	No		
		4	No		
2:02	<p><u>Supply and install 13 Amps switched socket – outlet s .</u></p> <ul style="list-style-type: none"> • Twin Switched socket outlets 	16	No		
2:03	<p><u>Sub-mains cables running from the Metal looping box to the Distribution Board</u></p> <ul style="list-style-type: none"> • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable(Red) • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable (Black) • 6.0 mm² single green cable. 	25	LM		
		25	LM		
		25	LM		
		25	LM		
		25	LM		
2:04	<p><u>Supply and install 100 Amps Isolator to be fixed adjacent to the D/B</u></p> <ul style="list-style-type: none"> • 100 Amps Fused Isolator as MEM/KEW 	1	No		
2:05	<p><u>Supply and install :</u></p> <ul style="list-style-type: none"> • 4-way Distribution Board complete with its integral switch as Havel. 	1	No		
2:06	<p><u>Supply and install a Nursing station control system with the following minimal specifications:</u></p> <ul style="list-style-type: none"> • Switchboard • Roam alert • Sensors as doors/window,smoke,water leakage • PA System ,compatible with patients and the nurse on duty. 	1	No		
	SUB-TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Total carried from page E/W 1 Total carried from page E/W 2				
	Total carried to grand summary				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PEADIATRIC -WARD				
1:01	<p><u>Supply and Install lighting points wired in 3 x 1.5 mm² core cables in 20 mm diameter p.v.c heavy gauge conduit including all the necessary accessories excluding fittings:</u></p> <ul style="list-style-type: none"> • In one gang one way. • In one gang two way. • In four gang one way. • In three gang one way. 	3 - 2 1	No No No No		
1:02	<p><u>Supply and install power points wired in 2.5 mm² single core cables drawn in 20 mm² p.v.c heavy gauge conduits excluding the socket outlets :</u></p> <ul style="list-style-type: none"> • For twin socket out-let 	16	No		
1:03	Supply and install ceiling fans switching points wired in 1.5mm ² single core cables drawn in 20mm ² p.v.c cables excluding fans	11	No		
1:04	Supply and install 24" ceiling fans as Orient firmly fixed on thge ceiling	11	No		
1:05	<p><u>Supply and install the following switches:</u></p> <ul style="list-style-type: none"> • One gang One way switch. • One gang two way switches • Four gang switching • Three gang switching. 	3 - 2 1	No No No No		
1:06	<p><u>Supply and install Data outlets and points to be done by others(Nursing Station)</u></p> <ul style="list-style-type: none"> • Data outlet point done in concealed 20 mm ²HG/PVC Conduiting. • Telephone and data outlet plate as crabtree or approved equivalent 	3 3	No No		
	SUB-TOTAL CARRIED TO COLLECTION				

ELECTRICAL INSTALLATION WORKS IN THE PROPOSED WARDS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PEADIATRIC -WARD				
2:01	<p><u>Supply and install the following lighting fittings</u></p> <ul style="list-style-type: none"> • 1200 mm fluorescent fittings with batten holders complete with tubes as original philips or its equivalent. • 60 watts spherical ceiling fittings complete with energy saving bulbs. • 100 watts bulk-head fittings complete with enery savers 	20	No		
		7	No		
		4	No		
2:02	<p><u>Supply and install 13 Amps switched socket – outlet s .</u></p> <ul style="list-style-type: none"> • Twin Switched socket outlets 	16	No		
2:03	<p><u>Sub-mains cables running from the Metal looping box to the Distribution Board</u></p> <ul style="list-style-type: none"> • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable(Red) • 10.0 mm² single core cable (Red) • 10.0 mm² single core cable (Black) • 6.0 mm² single green cable. 	25	LM		
		25	LM		
		25	LM		
		25	LM		
		25	LM		
2:04	<p><u>Supply and install 100 Amps Isolator to be fixed adjacent to the D/B</u></p> <ul style="list-style-type: none"> • 100 Amps Fused Isolator as MEM/KEW 	1	No		
2:05	<p><u>Supply and install :</u></p> <ul style="list-style-type: none"> • 4-way Distribution Board complete with its integral switch as Havel. 	1	No		
2:06	<p><u>Supply and install a Nursing station control system with the following minimal specifications:</u></p> <ul style="list-style-type: none"> • Switchboard • Roam alert • Sensors as doors/window,smoke,water leakage • PA System ,compatible with patients and the nurse on duty. 	1	No		
	SUB-TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Total carried from page E/W 1 Total carried from page E/W 2				
	Total carried to grand summary				

Item No.	Description	Amount (Kshs)
	<u>SUMMARY COLLECTIONS - ELECTRICAL WORKS</u>	
01	MATERNITY BLOCK	
02	MATERNITY WARD	
03	FEMALE WARDS	
04	MALE WARDS	
05	PEADIATRIC WARD	
	CARRIED TO GRAND SUMMARY	
	BILL NO. V ELECTRICAL WORKS	

Item No.	Description	Unit	Amount (Kshs)
	<p><u>PRIME COST & PROVISIONAL SUM</u></p> <p><u>CONTINGENCY</u></p> <p>A Provide a Provisional Sum of Kenya Shillings Three Million for Contingency</p>	P.Sum	3,000,000.00
	<p>CARRIED TO GRAND SUMMARY</p>	<p>KES</p>	<p>3,000,000.00</p>
	<p>BILL NO. VI PRIME COST AND PROVISIONAL SUM</p>		

