

ITEM	DESCRIPTION	KSHS
	<p><u>BILL NO. 1; PARTICULAR PRELIMINARIES</u></p> <p><u>Definition of Terms</u></p> <p>PRICING ITEMS OF PRELIMINARIES</p> <p>A 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 preliminary items.</p> <p>EMPLOYER</p> <p>B The "Employer" is Kenya Ferry Services Limited. Represented by the Managing Director</p> <p>The term "Employer" and "Government" wherever used in the contract document shall be synonymous</p> <p>PROJECT MANAGER</p> <p>C 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 authorised to represent him on behalf of the Government.</p> <p>ARCHITECT</p> <p>D The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is State Department of Public Works, P.O. Box 30743-00100, NAIROBI.</p> <p>QUANTITY SURVEYOR</p> <p>E The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is State Department of Public Works, P,O Box 30743-00100, NAIROBI.</p> <p>ELECTRICAL ENGINEER</p> <p>F The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is State Department of Public Works, P.O. Box 30743-00100, NAIROBI.</p>	
	<i>Carried to collection</i>	

MECHANICAL ENGINEER

- A** The term "Mechanical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is State Department of Public Works, P.O. Box 30743-00100, NAIROBI.

STRUCTURAL ENGINEER

- B** The term "Structural Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is State Department of Public Works, P.O. Box 30743-00100, NAIROBI.

SCOPE OF THE CONTRACT

- C** The works to be carried out under this contract comprise of **Perimeter Wall, Sentry, Water Tower, Septic Tank and Electric Fence Installations**

DESCRIPTION OF THE WORKS

- D** The works comprise of **Construction of masonry walling, chainlink fence, high level water tank tower, septic tank and installation of an electric fence**

MEASUREMENTS

- E** 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.

LOCATION OF SITE

- F** The site for works is located at, **Kenya Ferry Services Limited headquarters at the Mainland - Mombasa County**. The Tenderer shall be deemed to have visited the site and familiarised himself with all site conditions prior to submission of tenders. No claims arising from tenderer's failure to do so will be entertained.

SIGNING OF THE TENDER DOCUMENTS

- G** The bidder shall append his / her signature and / or company's rubber stamp on the form of tender and grand summary pages of tender document.

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DEMOLITIONS AND ALTERATIONS

A The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project Manager

The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described.

Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site.

The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Project Manager that such damage or breakage was inevitable as a result of the condition of the item concerned

CLEARING AWAY

B 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.

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.

CLAIMS

C It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.

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PAYMENTS

- A** The tenderer’s attention is drawn to the fact that the **Government shall not make advance payments** but pays for work done and materials delivered to site: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements

PREVENTION OF ACCIDENT, DAMAGE OR LOSS

- B** The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of activities being carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.

WORKING CONDITIONS

- C** The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.

SIGNBOARD

- D** 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.

LABOUR CAMPS

- E** The Contractor shall NOT be allowed to house labour on site. To allow for transporting workers to and from the site during the tenure of the contract.

MATERIALS FROM DEMOLITIONS

- F** Any reusable materials arising from demolitions and not re-used in this contract shall become the property of the Client. The Contractor shall allow in his rates the cost of transporting the such materials to the Client's stores.

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PRICING RATES

- A** The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract.

URGENCY OF THE WORKS

- B** The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries. The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.

PAYMENT FOR MATERIALS ON SITE

- C** All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.

EXISTING SERVICES

- D** 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.

BID SECURITY

- E** The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement.

The bid security shall, at the bidder’s option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or insurance firm approved by the Government. The format of the bank guarantee shall be in accordance with the sample forms of bid security included in the post qualification forms, other formats may be permitted, subject to the prior approval of the Government. **Letters of credit, Bank Guarantees issued as surety shall be valid for a period of One Hundred and Fifty (150) days from the date of Tender Opening.**

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PERFORMANCE BOND

- A** A performance bond equivalent to 5% of the contract sum will be required in accordance with clause 6.00 of the Instructions to Tenderer's. No payment under the contract shall be made before the contractor submits a bond acceptable to the employer.

TENDER DOCUMENTS

- B** Tender documents are as listed in Clause 2.1 of the Instruction to Tenderers

DELIVERY OF TENDER

- C** The Tender documents above shall be delivered in one sealed and properly addressed envelope as specified in these Tender Documents and in the 'Tender Invitation Advertisement' and deposited at the address and time specified thereof.

Tenders will be opened in the manner specified similarly. Tenders delivered/received later than the specified time will not be opened.

VALUE ADDED TAX

- D** 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. The Tenderer is required to allow for VAT for all items in the Bills of Quantities and no claim for VAT shall otherwise be entertained.

INSURANCE

- E** The Contractor shall insure as required in Clause 30 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.

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FIRM PRICE CONTRACT

A Unless otherwise specifically stated, this is a firm price contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of the contract.

B **PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT**

The following are the insertions to be made in the appendix to the Contract Agreement: -

Period of Final Measurement 3 Months From Practical completion

Defects Liability Period 6 Months from Practical completion

Date for Possession To be agreed with the Project Manager

Date for Completion 20 Weeks from date of Possession

Liquidated and Ascertained At the rate of **Kshs.. 25,000.00...** per week or part thereof

Period of Interim Certificates Monthly

Period of Honouring Certificates 30 days

Percentage of Certified Value Retained 10%

Limit of Retention 10%

Advance payment **Not applicable**

.....
C Allow a Provisional Sum of Kenya Shillings Two Million Eight Hundred Thousand only for Project Management Expenses including subsistence allowances (Per Diem) for Project Management officers. **2,800,000.00**

D Add contractor's profits ... %

E Allow a Provisional Sum of Kenya Shillings Two Hundred Forty Thousand only for Airtime **240,000.00**

F Add contractor's profits ... %

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<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p>	<p>Allow a Provisional Sum of Kenya Shillings Two Hundred Thousand only for stationery</p> <p>Add contractor's profits ... %</p> <p>TRANSPORT</p> <p><u>Flight Arrangements</u></p> <p>The contractor shall facilitate flight booking (Return ticket) from Nairobi to Mombasa and back as and when required for 6No. Officers from State Department of Public Works Head Office</p> <p>Allow for Air Travel by Kenya Airways as above described 6 No. persons @ Kshs. Per person X 12No. Trips</p> <p><u>Local Running</u></p> <p>The contractor shall provide a car for local running to comfortably seat Seven (7No.) persons (driver included) including maintaining licences and insurances, competent driver: all to the satisfaction of the Project Manager. The vehicle should be in perfect mechanical condition at all times.</p> <p>The vehicle shall be provided specifically for and during site visits by the State Department of Public Works Technical team. The vehicle shall be in perfect condition for the entire duration of the trip i.e. from Mombasa International Airport to Likoni, and back to the Airport including Local running.</p> <p>The driver shall be at the sole direction of the Project Manager for the entire duration of the trip, until released by him /her.</p> <p>20 No. days @Kshs. per day</p> <p>Allow a percentage for contractor's overhead costs and profits %</p>	<p>200,000.00</p>
<p><i>Carried to collection</i></p>		

COLLECTION

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TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY

ITEM	DESCRIPTION	KSHS
	<p><u>BILL NO. 2; GENERAL PRELIMINARIES</u></p> <p>PRICING ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>A Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>ABBREVIATIONS</p> <p>B Throughout these Bills, units of measurement and terms are abbreviated and shall be all the requirements for the proper execution of the whole of the works in the Contract.</p> <p><i>C.M.</i> Shall mean cubic metre</p> <p><i>S.M.</i> Shall mean square metre</p> <p><i>L.M.</i> Shall mean linear metre</p> <p><i>MM</i> Shall mean Millimetre</p> <p><i>Kg.</i> Shall mean Kilogramme</p> <p><i>No.</i> Shall mean Number</p> <p><i>Prs.</i> Shall mean Pairs</p> <p><i>B.S.</i> - Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p><i>Ditto</i> - Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p><i>m.s.</i> Shall mean measured separately.</p> <p><i>a.b.d</i> Shall mean as before described.</p>	
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EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT

A *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 standing 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- Contractors' work and being responsible for the accuracy of the same.

Fix Only:-

"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.

FORM OF CONTRACT

B The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works(2006 Edition) included herein

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

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PLANT, TOOLS AND VEHICLES

- A** 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.

TRANSPORT

- B** Contractor to allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.

MATERIALS AND WORKMANSHIP

- C** 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 ensure they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.

SIGN FOR MATERIALS SUPPLIED

- D** 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

STORAGE OF MATERIALS

- E** 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.

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SAMPLES

A The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Roads, Housing and Public Works.

The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER. The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.

GOVERNMENT ACTS REGARDING WORKPEOPLE, ETC

B Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople.

The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.

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SECURITY OF WORKS, ETC

- A** The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.

PUBLIC AND PRIVATE ROADS

- B** Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER

EXISTING PROPERTY

- C** The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT

VISIT SITE AND EXAMINE DRAWINGS.

- D** 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.

ACCESS TO SITE AND TEMPORARY ROADS

- E** 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 for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER The Contractor should also allow for relocating existing fence (approx. 30 metres long).

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AREA TO BE OCCUPIED BY THE CONTRACTOR

- A** 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

OFFICE FOR THE PROJECT MANAGER

- B** The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the Ministry of Works standard type B, complete with furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff,
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WATER AND ELECTRICITY SUPPLY FOR THE WORKS

- C** The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. 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.

SANITATION FOR THE WORKS

- D** 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

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SUPERVISION AND WORKING HOURS

- A** 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.

PROVISIONAL SUMS

- B** The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for

PRIME COST (OR P.C.) SUMS

- C** The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.

PROGRESS CHART

- D** The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.

ADJUSTMENT OF P.C. SUMS

- E** 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"

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ADJUSTMENT OF P.C. SUMS. Ctd.....

- A** Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.

ADJUSTMENT OF PROVISIONAL SUMS

- B** In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.

NOMINATED SUB-CONTRACTORS

- C** When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".

DIRECT CONTRACTS

- D** Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.

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ATTENDANCE UPON OTHER TRADESMEN, ETC

A The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.

PROVISIONAL WORK

B All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.

ALTERATIONS TO BILLS, PRICING, ETC

C Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the 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.

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BLASTING OPERATIONS

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

MATERIALS ARISING FROM EXCAVATIONS

- B** Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER. Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.

PROTECTION OF THE WORKS

- C** Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.

REMOVAL OF RUBBISH, ETC

- D** Removal of rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.

WORKS TO BE DELIVERED UP CLEAN

- E** Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER

Carried to collection

GENERAL SPECIFICATION

- A** For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads, Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.

MATERIALS ON SITE

- B** All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.

HOARDING

- C** The Contractor shall enclose all the site under construction with a hoarding 2400 mm high consisting of iron sheets gauge 30 on 100 x 50 mm 2nd grade treated sawn cypress timber posts firmly secured at 1800 mm centres with two 75 x 50 mm 2nd grade treated sawn cypress timber.

CONTRACTOR'S SUPERINTENDENT/SITE AGENT

- D** The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall be fully engaged to the superintendence of the works for the duration of the contract. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions and instructions shall be deemed to have been issued to the Contractor in accordance with the Conditions of Contract.

Carried to collection

COLLECTION

Brought Forward From Page GP/ 1

Brought Forward From Page GP/ 2

Brought Forward From Page GP/ 3

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TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	
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ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>BILL NO. 3; SENTRY</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>NOTE: (I) All work measured under this element is up to and including the floor slab but excluding the finishes thereon.</u>				
	<u>Demolitions and earthworks</u>				
A	Carefully demolish existing metal gate and concrete columns founded on reinforced concrete bases and set aside salvagable materials cart away debris arising therefrom (In 1NO.)		ITEM		
	<u>Site Clearance</u>				
B	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising	37	SM		
	<u>Excavations and earthworks</u>				
C	Reduce level to remove top vegetable soil average 200mm deep and spread as directed on site	37	SM		
D	Excavate for strip foundation trenches not exceeding 1.5 metres deep commencing from reduced level	17	CM		
E	Ditto column bases	10	CM		
F	Extra over excavations for excavating in rock class 1	14	CM		
G	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
H	Allow for planking and strutting to sides of excavations		ITEM		
	<u>Disposal</u>				
J	Load surplus excavated material and cart away	11	CM		
	<u>Filling</u>				
K	Return fill and ram selected excavated material around foundations.	16	CM		
	Carried to Collections				

	<u>Hardcore</u>				
A	300mm thick hardcore filling including levelling and consolidating in 150mm layers	17	SM		
	<u>Blinding</u>				
B	50mm Thick Quarry dust blinding to the surface of hardcore; rolled smooth	17	SM		
	<u>Insecticide treatment</u>				
C	"TERMIDOL" or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	17	SM		
	<u>In-situ concrete work</u>				
	<u>Mass concrete (1:3:6/38-38mm aggregate)</u>				
D	50mm Thick blinding under strip foundations	11	SM		
E	Ditto column bases	7	SM		
	<u>Vibrated reinforced concrete (1:1.5:3/25-20mm aggregate) as described in:</u>				
F	Foundation strips	2	CM		
G	Column bases	3	CM		
H	Columns	1	CM		
J	150mm Thick ground floor slab	17	SM		
K	Mass concrete in ramp	1	CM		
	<u>Damp proof membrane</u>				
L	500 gauge polythene sheeting laid under concrete under concrete floor bed.	17	SM		
	<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position as described.</u>				
M	8 mm diameter ribbed bars	150	KG.		
N	12 mm ditto	210	KG.		
P	16 mm ditto	240	KG.		
	Carried to Collections				

	<u>Steel reinforcement</u>			
A	B.R.C A142, steel mesh fabric reinforcement weighing 2.22 kg/m ² , measured nett including end and side laps	17	SM	
	<u>Sawn formwork as described to:</u>			
B	Vertical sides of strip foundations	8	SM	
C	Vertical sides of column bases	9	SM	
D	Vertical sides of columns	3	SM	
E	Edge of ground floor slab 75-150mm high	16	LM	
	<u>Foundation walling</u>			
F	225mm thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in every alternate course	31	SM	
	<u>Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)</u>			
G	200mm wide levelled and bedded in cement and sand (1:3) mortar under walls	17	LM	
	<u>Plinth area finishes</u>			
H	12mm Thick cement and sand (1:3) wood float render to plinth area	8	SM	
J	Prepare and apply three coats black bitumastic paint to rendered area	8	SM	
	<i>Carried to collection below</i>			
	<u>COLLECTION</u>			
	Brought Forward from Page No. S		1	
	Brought Forward from Page No. S		2	
	Brought Down from		Above	
	<u>TOTAL FOR ELEMENT NO. 1</u>			
	<u>SUBSTRUCTURES</u>			
	<i>CARRIED TO SUMMARY</i>			

<u>ELEMENT NO.2</u>					
<u>REINFORCED CONCRETE FRAME</u>					
<u>Vibrated reinforced concrete (1:1.5:3/25 - 20mm aggregate) as described in:-</u>					
A	Beams/Ring beams	4	CM		
B	Columns	3	CM		
C	175mm Thick sloping roof slab	23	SM		
D	Ditto sloping canopy slab	30	SM		
<u>Steel reinforcement</u>					
<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position as described.</u>					
E	8 mm diameter ribbed bars	365	KG.		
F	10 mm diameter	851	KG.		
G	12 mm diameter	729	KG.		
H	16 mm diameter	486	KG.		
<u>Sawn formwork as described to;</u>					
J	Sides of ringbeam	46	SM		
L	Sides of columns	11	SM		
M	Sloping soffites of roof slab	23	SM		
N	Sloping soffites of canopy slab	30	SM		
P	Edge of roof slab 75-150mm high	19	LM		
Q	Edge of canopy slab 75-150mm high	29	LM		
<u>TOTAL FOR ELEMENT NO. 2</u>					
<u>R.C. SUPERSTRUCTURE</u>					
<u>CARRIED TO SUMMARY</u>					

<u>ELEMENT NO. 3</u>					
<u>WALLING</u>					
<u>External walls</u>					
<u>Approved load bearing machine cut coral stone walling bedded and jointed in cement sand (1:3) mortar with 20 mm wide hoop irons in every alternate course.</u>					
A	200mm thick	27	SM		
B	200mm thick in gable walling	8	SM		
C	Extra over for raking cutting in 200mm thick walling	10	LM		
<u>Internal walls</u>					
<u>Approved load bearing machine cut coral stone walling bedded and jointed in cement sand (1:3) mortar with 20 mm wide hoop irons in every alternate course.</u>					
D	200mm thick	8	SM		
<u>TOTAL FOR ELEMENT NO.3</u>					
<u>WALLING</u>					
<i>CARRIED TO SUMMARY</i>					

	<u>ELEMENT NO 4</u>				
	<u>RAIN WATER DISPOSAL.</u>				
	<u>Downpipe - UPVC</u>				
A	100mm Diameter UPVC down pipe in duct or fixed to wall with and including approved holderbats at 1200mm centres	12	LM		
B	Extra-over gutter for fulbora with cover grating, 100mm diameter.	2	NO		
C	Ditto anti-splash horse shoe 300mm long	2	NO		
D	Extra over 90 ⁰ bend	2	NO		
	<u>Roof Finishes</u>				
	<u>Light weight roof screeds consisting of waterproof cement, sand and pumice (1:3:7) with 6mm layer of cement and sand topping laid to falls and crossfalls</u>				
E	50mm screed on concrete sloping < 45 degrees from horizontal	53	SM		
F	Work screed around 110mm rainwater outlet	2	NO		
G	110mm Cast iron coated "Fulbora " rainwater outlet complete with grating, setting in concrete and jointing to uPVC pipe	2	NO		
H	Apply master seal as per the Manufacturer's instructions to Engineer's approval	53	SM		
J	Ditto Sika 1 ditto	53	SM		
	<u>TOTAL FOR ELEMENT NO. 4</u>				
	<u>ROOFING AND RAINWATER DISPOSAL</u>				
	<u>CARRIED TO SUMMARY</u>				

<u>ELEMENT NO. 5</u>					
<u>EXTERNAL FINISHES</u>					
<u>Wall Finishes</u>					
<u>Render</u>					
A	12mm thick cement and sand rendering (1:4) to beams; wood floated finish	30	SM		
B	Ditto walls	27	SM		
C	Ditto gable walls	8	SM		
D	Sloping soffites of canopy	30	SM		
<u>Painting and decorations</u>					
<u>Prepare and apply one undercoat and two finishing coats exterior quality rough and tough paint on:-</u>					
E	Fair faced surfaces of concrete beams	30	SM		
F	Ditto walls	27	SM		
G	Ditto gable walls	8	SM		
H	Sloping soffites of canopy	30	SM		
<u>Paving around the Building</u>					
J	150mm thick murrum fill rammed and rolled to level.	19	SM		
K	"Round up" or other equal and approved weed killer treatment applied in accordance with manufacturer's instructions	19	SM		
L	"Premise 200" Anti-termite treatment on murrum surfaces	19	SM		
M	600 x 600 x 50mm thick PCC paving slabs on and including 50mm sand bed jointed and pointed in cement sand 1:3 mortar	19	SM		
<u>TOTAL FOR ELEMENT NO. 5</u>					
<u>EXTERNAL WALL FINISHES</u>					
<u>CARRIED TO SUMMARY</u>					

	<p><u>ELEMENT NO. 6</u></p> <p><u>INTERNAL WALL FINISHES</u></p> <p><u>Plaster; 15mm thick, 2 No. coatwork, 12mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to masonry walls;</u></p>				
A	<p>Surfaces of walls and beams; internally</p> <p><u>Painting and decorations</u></p> <p><u>Prepare and apply one undercoat and two finishing coats silk vinyl paint on:-</u></p>	48	SM		
B	<p>Plastered surfaces of walls and beams</p> <p><u>Tile finish</u></p>	48	SM		
C	<p>25mm thick cement/sand backing (1:3) to receive ceramic wall tiles (m.s)</p>	13	SM		
D	<p>200 x 250 x 6mm thick coloured ceramic wall tiles pointed in white cement and fixed with an approved adhesive</p>	13	SM		
E	<p>20 x 3mm coloured metal tile edging (provisional)</p>	4	LM		
F	<p>Border tile to approval</p>	7	LM		
	<p><u>TOTAL FOR ELEMENT NO. 6</u></p> <p><u>INTERNAL WALL FINISHES</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

	<p><u>ELEMENT NO. 7</u></p> <p><u>FLOOR FINISHES</u></p> <p><u>Terrazzo finish</u></p> <p>A 40mm thick terrazzo finish comprising 20mm thick cement and sand (1:3) ground and 20mm thick terrazzo paving ground smooth and polished</p> <p>B 32x3mm plastic dividing strips</p> <p>C 100x20mm terrazzo skirting.</p>	<p>17</p> <p>26</p> <p>21</p>	<p>SM</p> <p>LM</p> <p>LM</p>		
	<p><u>TOTAL FOR ELEMENT NO. 7</u></p> <p><u>FLOOR FINISHES</u></p> <p><i>CARRIED TO SUMMARY</i></p>				

	<p><u>ELEMENT NO. 8</u></p> <p><u>CEILING FINISHES</u></p> <p><u>Internal</u></p> <p><u>Plaster; 15mm thick, 2 No. coatwork, 12mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to masonry walls;</u></p> <p>A Sloping ceiling soffites</p> <p><u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u></p> <p>B Plastered sloping ceiling soffites</p>	<p>23</p> <p>23</p>	<p>SM</p> <p>SM</p>		
	<p><u>TOTAL FOR ELEMENT NO. 8</u></p> <p><u>CEILING FINISHES</u></p> <p><i>CARRIED TO SUMMARY</i></p>				

	<u>ELEMENT NO. 9</u>				
	<u>WINDOWS</u>				
A	175 x 75mm thick precast concrete window; weathered and throated	4	LM		
	<u>Prime grade wrot mahogany</u>				
B	50 x 25mm window board with one labour.	4	LM		
C	25mm quadrant bead	4	LM		
	<u>Venetian Blinds</u>				
	<u>Supply and Fix' vertical venetain blinds complete with all accessories to approval</u>				
D	Window size 1200 x 1500mm high	3	NO		
	<u>Painting</u>				
E	Prepare and apply three coats of gloss oil paint to timber surfaces not exceeding 100mm girth	4	LM		
	<u>Aluminium Casement Windows</u>				
	<u>Supply, assemble and fix the following purpose-made coloured powder coated Aluminium windows complete with all opening accessories, 50x50mm thick frame units; including "snap on' 30mm wide permanent vent; building in lugs to jambs; plugging and screwing head and cill; bedding frames in waterproof cement mortar and pointing in approved mastic externally; fixing 6mm thick reflective glass m.s; oiling, easing and adjusting as described in the following overall sizes;</u>				
F	Window 1200 x 1500mm high	3	NO		
G	Windows 600 x 900mm high	1	NO		
	Carried to Collections				

	<p><u>Burglar proofing</u></p> <p>A Burglar proofing with 10mm square steel rods welded to a mesh at 100mm centres both ways</p> <p><u>Prepare and apply one coat touch up primer, one undercoat and two finishing coats of approved premium quality marine paint on metal surfaces.</u></p> <p>B Burglar grilles (measured on both sides)</p> <p><u>Approved clear sheet glass</u></p> <p>C 6mm glass and glazing to metal with aluminium glazing beads and tack-on rubber wash leather in panes not exceeding 0.1 square meter</p> <p><u>Approved obscure sheet glass</u></p> <p>D 6mm glass and glazing to metal with aluminium glazing beads and tack-on rubber wash leather in panes not exceeding 0.1 square meter</p> <p style="text-align: center;"><i>Carried to collection below</i></p> <p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;">Brought Forward from Page No. S</p> <p style="text-align: center;">Brought Down from</p>	<p>12</p> <p>24</p> <p>5</p> <p>1</p> <p>12</p>	<p>SM</p> <p>SM</p> <p>SM</p> <p>SM</p> <p>12</p>		
	<p><u>TOTAL FOR ELEMENT NO. 9</u></p> <p><u>WINDOWS</u></p> <p><i>CARRIED TO SUMMARY</i></p>				

<u>ELEMENT NO. 10</u>					
<u>DOORS</u>					
<u>Panel doors</u>					
A	50mm thick mahogany panel door overall size 900x2400mm high with 900x300mm fan lights at top left open for glazing fixed with mahogany beads (both sides m/s); comprising of 150x50mm top rail and stiles, 200x50 middle and bottom rail resulting panels infilled with bevel raised and fielded panels	2	NO		
<u>Wrot mahogany backs primed before fixing in aluminium wood primer:</u>					
B	150 x 50 mm frame primed back once rebated	11	LM		
C	Ditto transome	2	LM		
D	45 x 25 mm architrave with one labour	11	LM		
E	25mm quadrant	11	LM		
<u>Ironmongery as per Union Catalogue</u>					
F	Three-lever cylinder door lock with satin anodized aluminium (SAA) set lever furniture to the Architect's approval	2	NO		
G	38mm rubber door stop fixed with rawl bolt	2	NO		
H	100mm pressed brass butt hinges	3	Prs		
J	Overhead door closer; cat. No. 8823	2	NO		
K	Aluminium coat hooks (showers)	1	NO		
<u>Prepare and apply two undercoats stainer and two finishing coats of varnish to:-</u>					
L	Timber door general surfaces	8	SM		
M	Ditto 200 to 300mm girth.	11	LM		
N	Ditto; not exceeding 100mm girth	22	LM		
<u>Glazing</u>					
P	5mm thick clear sheet glass in panes not exceeding 0.5 sm.	1	SM		
Q	20 x 20mm wrot mahogany glazing bead.	10	LM		
<u>TOTAL FOR ELEMENT NO. 10</u>					
<u>DOORS</u>					
<i>CARRIED TO SUMMARY</i>					

<u>ELEMENT NO. 11</u>					
<u>JOINERY FITTINGS</u>					
<u>Granite counter tops</u>					
A	20mm thick granite top counter in approved colour fixed to concrete top cut to shape and set in one piece to the approval of the Architect.	1	SM		
B	Ditto; but fascia 250mm wide	2	LM		
<u>Plain concrete class 20</u>					
C	Worktop, thickness 75 mm	1	SM		
<u>Steel mesh fabrics reinforcement to B.S 4483</u>					
D	Layer of mesh fabric reinforcement laid in slab or bed [measured nett - no allowance made for laps] Ref. A 142 weighing 2.22 Kgs per square metre	1	SM		
<u>Formwork</u>					
E	Edges of slabs, etc not exceeding 75 mm high	4	LM		
<u>Lined formwork and fair face of concrete</u>					
F	Soffits of worktops	1	SM		
<u>Solid concrete block walling in cement sand mortar</u>					
G	Walling reinforced as described, 100 mm thick	1	SM		
<u>Lime Plaster</u>					
H	12mm thick plaster to walls mix (1:2:9)	2	SM		
<u>Plaster; 15mm thick, 2 No. coatwork, 12mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to masonry walls;</u>					
J	To plastered wall surfaces	2	SM		
<u>TOTAL FOR ELEMENT NO. 9</u>					
<u>JOINERY FITTINGS</u>					
<i>CARRIED TO SUMMARY</i>					

BUILDERS WORKS SUMMARY		PAGE	NO		
1	SUBSTRUCTURES	S	3		
2	R.C SUPERSTRUCTURES	S	4		
3	WALLING	S	5		
4	ROOFING AND RAIN WATER DISPOSAL	S	6		
5	EXTERNAL WALL FINISHES	S	7		
6	INTERNAL WALL FINISHES	S	8		
7	FLOOR FINISHES	S	9		
8	CEILING FINISHES	S	10		
9	WINDOWS	S	12		
10	DOORS	S	13		
11	JOINERY FITTINGS	S	14		
TOTAL FOR SENTRY CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
<u>BILL NO. 4; PERIMETER WALL</u>					
<u>Site preparation (all provisional)</u>					
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	1400	sm		
B	Cut down small trees not exceeding average girth 600-900mm girth, grub up all roots, cut up and dispose or burn all arisings.	280	NO		
<u>Demolitions and earthworks</u>					
C	Remove barbed or coil wire security fencing from atop existing masonry walling and dispose.	487	LM		
D	Excavate around existing masonry wall to expose walling down to foundation level including any murrum/hardcore parking.	877	cm		
E	Demolish existing masonry walling down to foundation level.	2192	sm		
F	Demolish existing reinforced concrete wall footing including steel reinforcement.	97	cm		
G	Carefully remove existing steel gate size 3000mm x 2100mm high complete with gate posts and store on site as directed.	1	No		
H	Load and cart away demolition debris for disposal approximately three kilometers from site.	1019	cm		
J	Excavate for foundations for new footings not exceeding 3.0 meters deep.	179	cm		
K	Excavate foundation to expand and deepen foundations for new footings exceeding 1.5m but not exceeding 3.0 meters deep.	308	cm		
L	Extra over excavation for excavating in hard coral rock. (class 1).	398	cm		
Carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
A	Return, fill-in and rum selected excavated material around foundations.	711	cm		
B	Cart away from site surplus excavated material.	474	cm		
	<u>Disposal of water</u>				
C	Keeping all excavations free from all water including spring or running water	1	Item		
	<u>Planking and strutting</u>				
D	Uphold sides of all excavations to keep free of falling soil and other debri.	1	Item		
	<u>Mass concrete class Q (1:3:6) in;</u>				
E	50mm thick blinding to bottoms of foundations.	725	sm		
	<u>Insitu reinforced and vibrated concrete class 25/20mm (1:1.5:3) in;</u>				
F	Strip foundations.	84	cm		
G	Column bases	92	cm		
H	Columns	35	cm		
	<u>Reinforcement (Provisional)</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks</u>				
J	8mm diameter bars	3376	kg		
K	10mm diameter bars	5908	kg		
L	12mm diameter bars	7596	kg		
	<u>Sawn formwork :-</u>				
M	To vertical sides strip foundations.	280	sm		
N	Ditto. Column bases	305	sm		
P	Ditto. columns	455	sm		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
A	<u>Expansion joint.</u> 12mm flexcell expansion.	39	sm		
B	25x25mm expansion joint sealer.	245	LM		
	<u>Substructure walling</u> <u>Approved local natural stone; roughly squared;</u> <u>bedding and jointing in cement sand (1:3) mortar.</u>				
C	200mm overall thick walling reinforced with and including hoop iron at every alternate course	1068	sm		
	<u>Superstructure walling</u> <u>Approved local natural stone; medium chasing;</u> <u>bedding and jointing in cement sand (1:3) mortar</u>				
D	200mm overall thick walling reinforced with and including hoop iron at every alternate course	1649	sm		
E	450x300x50mm column caps bedding and jointing in cement sand (1:3) mortar.	212	no		
	<u>In situ reinforced and vibrated concrete class</u> <u>25/20mm (1:1.5:3) in;</u>				
F	Columns	74	cm		
G	Beams	172	cm		
	<u>Reinforcement (Provisional)</u> <u>Bars; high yield steel; cold worked to B.S. 4461</u> <u>including bends, hooks, tying wire and distance</u> <u>blocks</u>				
H	8mm diameter bars	6888	kg		
J	12mm diameter bars	12792	kg		
	<u>Sawn formwork :-</u>				
N	To vertical sides columns	965	sm		
P	Ditto. beams	191	sm		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
	<u>Wall decoration and ventillation</u>				
A	200mm thick x 600mm high masonry and concrete decorative mouldings over walls to PM's detail.	201	sm		
B	Make or leave 50mm wide ventillation openings in 200mm thick walling to pattern as directed by PM.	448	sm		
C	Make or leave 100mm diameter weep holes in 200mm thick walling lined with plastic pipe including making good disturbed work and make good disturbed work.	350	no		
	<u>Finishings</u>				
D	15mm thick cement sand (1:4) render; wood floated to blockwork; externally.	3300	sm		
E	Ditto. columns.	668	sm		
F	Ditto. Beams	233	sm		
G	Ditto. to precast decorative mouldings including working in confined space.	112	sm		
H	Extra over wall finishing for working in confined space of ventillation openings.	336	sm		
	<u>Painting and Decorating</u>				
	<u>Prepare and apply three coats permaplast long lasting marine emulsion paint on:-</u>				
J	Rendered surfaces, externally.	4201	sm		
K	Ditto. To confined space of decorative mouldings and ventillation openings	448	SM		
Carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (Kshs)
	<p><u>Collection</u></p> <p>From page PF/1</p> <p>From page PF/2</p> <p>From page PF/3</p> <p>From page PF/4</p>				
	TOTAL FOR PERIMETER FENCE CARRIED TO GRAND SUMMARY				

PROPOSED SECURITY UPGRADE – ERECTION OF A PERIMETER WALL AND RELATED WORKS AT HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (Kshs)
<u>BILL NO. 5; CHAIN LINK FENCING (200LM LONG); (ALL PROVISIONAL)</u>					
<u>Site preparation</u>					
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	200	SM		
B	Cut down small trees not exceeding average girth 600-900mm girth, grub up all roots, cut up and dispose or burn all arisings.	25	NO		
<u>Excavation</u>					
C	Excavate pits size 450x450x800mm deep starting from ground level and not exceeding 1.5m deep	11	CM		
D	Ditto size 600x300x600mm ditto	1	CM		
E	Extra over excavation for excavating in hard coral rock. (class 1).	6	CM		
<u>Disposal</u>					
F	Return fill and ram selected excavated materials	6	CM		
G	Load, wheel and spread on site excavated material as directed by the Project Manager.	6	CM		
<u>The following in fence comprising barbed wire and chainlink on precast concrete posts; overall 2400mm high</u>					
<u>Mass concrete mix 1:3:6 in:-</u>					
H	Post footings.	6	CM		
<u>Precast concrete units:-</u>					
J	Provide and install 125 x 150 mm x 3000mm high cranked pre-cast concrete posts set in concrete surround at 3 metres centres	68	NO		
K	Provide and install 100 x 100 mm x 3250mm high pre-cast concrete strainer posts set in concrete surround at selected corners	8	NO		
Total carried to summary					

PROPOSED SECURITY UPGRADE – ERECTION OF A PERIMETER WALL AND RELATED WORKS AT HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT		
A	<p><u>Chain link</u> Supply and fix 2700mm high x 9 gauge PVC coated chain-link tied with 14 gauge galvanised tying wire to 12 ½ gauge x 5No. horizontal strands of 4.75mm o/d line wires evenly spaced passed through purpose-made holes in precast concrete posts (m/s).</p>	200	LM		
B	<p><u>Barbed wire to cranked top of posts</u> Supply and fix to cranked top of precast concrete posts (m/s) 3No. horizontal strands of 12 ½ gauge galvanized barbed wire passed through holes as before described.</p>	600	LM		
	<p><u>GATES.</u></p>				
C	<p><u>Mild Steel primed before fixing and painted afterwards with three coats of marine paint (m.s) as directed:-</u> 6000x2100mm high grilled gate leaf tapering and rising by 0.3m as they meet top spikes at 150mm centres in two equal leaves, each leaf comprising 50x25x3mm R.H.S frame, two 50x25x3mm middle rails and 25x25x3mm R.H.S vertical members welded to rails and frame at 75mm centres and plugged top and bottom and hanging on precast concrete posts (m/s) on three purpose made heavy duty hinges with brush bush set in and provided with 2No. 750mm long drop barrel bolt and brass castor including 1200mm diameter 16gauge mild steel sheet on both sides of each leaf.</p>	1	NO		
D	<p>Ditto pedestrian gate 1500x2100mm high ditto</p> <p><u>Prepare and apply three coats long lasting marine paint on:-</u></p>	1	NO		
E	Metal surfaces	35	SM		
	Total carried to summary				

PROPOSED SECURITY UPGRADE – ERECTION OF A PERIMETER WALL AND RELATED WORKS AT HEADQUARTERS BUILDING (PELELEZA)

ITEM	DESCRIPTION	QTY	UNIT		
<u>SUMMARY</u>					
1	TOTAL FROM PAGE F/1				
2	TOTAL FROM PAGE F/2				
TOTAL COST FOR CHAIN LINK FENCING CARRIED TO GRAND SUMMARY					