

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 Ministry of Agriculture, Livestock, Fisheries and Irrigation. Represented by the Principal Secretary, State Department of Fisheries, Aquaculture & the Blue Economy</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>	

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<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p> <p>G</p>	<p>MECHANICAL ENGINEER</p> <p>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.</p> <p>STRUCTURAL ENGINEER</p> <p>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.</p> <p>SCOPE OF THE CONTRACT</p> <p>The works to be carried out under this contract comprise of Erection of a Canteen, Ablution Block, Sentry & Chain link fence, Civil Works and Associated Electrical & Mechanical Works.</p> <p>DESCRIPTION OF THE WORKS</p> <p>The works comprise of erection to completion of a Canteen, Ablution Block, Sentry & Chain link fence, associated civil, electrical and mechanical works</p> <p>MEASUREMENTS</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> <p>LOCATION OF SITE</p> <p>The site for works is located at, SHIMONI, KWALE 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.</p> <p>SIGNING OF THE TENDER DOCUMENTS</p> <p>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.</p>	
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	<p>DEMOLITIONS AND ALTERATIONS</p> <p>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</p> <p>The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described.</p> <p>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site.</p> <p>The 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</p> <p>CLEARING AWAY</p> <p>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.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p> <p>CLAIMS</p> <p>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.</p>	
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	<p>PAYMENTS</p> <p>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</p> <p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>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.</p> <p>WORKING CONDITIONS</p> <p>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.</p> <p>SIGNBOARD</p> <p>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.</p> <p>LABOUR CAMPS</p> <p>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.</p> <p>MATERIALS FROM DEMOLITIONS</p> <p>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.</p>	
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	<p>PRICING RATES</p> <p>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.</p> <p>URGENCY OF THE WORKS</p> <p>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.</p> <p>PAYMENT FOR MATERIALS ON SITE</p> <p>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.</p> <p>EXISTING SERVICES</p> <p>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.</p> <p>BID SECURITY</p> <p>E The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement.</p> <p>The bid security shall, at the bidder’s option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or 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.</p>	
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	<p>PERFORMANCE BOND</p> <p>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.</p> <p>TENDER DOCUMENTS</p> <p>B Tender documents are as listed in Clause 2.1 of the Instruction to Tenderers</p> <p>DELIVERY OF TENDER</p> <p>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.</p> <p>Tenders will be opened in the manner specified similarly. Tenders delivered/received later than the specified time will not be opened.</p> <p>VALUE ADDED TAX</p> <p>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.</p> <p>INSURANCE</p> <p>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.</p>	
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ITEM	DESCRIPTION	KSHS
	<p>FIRM PRICE CONTRACT</p> <p>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.</p> <p>B. 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.</p> <p>C. Add contractor's profits ... %</p> <p>D. Allow a Provisional Sum of Kenya Shillings Two Hundred Thousand only for stationery</p> <p>E. Add contractor's profits ... %</p> <p>F. <u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u></p> <p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p>Period of Final Measurement 3 Months From Practical completion</p> <p>Defects Liability Period 6 Months from Practical completion</p> <p>Date for Possession To be agreed with the Project Manager</p> <p>Date for Completion 25 Weeks from date of Possession</p> <p>Liquidated and Ascertained At the rate of Kshs.. 25,000.00... per week or part thereof</p> <p>Period of Interim Certificates Monthly</p> <p>Period of Honouring Certificates 30 days</p> <p>Percentage of Certified Value Retained 10%</p> <p>Limit of Retention 10%</p> <p>Advance payment Not applicable</p>	<p>2,800,000.00</p> <p>200,000.00</p>
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ITEM	DESCRIPTION	KSHS
	<p>TRANSPORT</p> <p><u>Flight Arrangements</u></p> <p>A 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>B 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 Shimoni, 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>36 No. days @Kshs. per day</p> <p>Allow a percentage for contractor's overhead costs and profits %</p>	
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ITEM	DESCRIPTION	KSHS
	<p style="text-align: center;"><u>COLLECTION</u></p> <p>Brought forward from page PP/1</p> <p>Brought forward from page PP/2</p> <p>Brought forward from page PP/3</p> <p>Brought forward from page PP/4</p> <p>Brought forward from page PP/5</p> <p>Brought forward from page PP/6</p> <p>Brought forward from page PP/7</p> <p>Brought forward from page PP/8</p>	
	TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY	

ITEM	DESCRIPTION	KSHS
	<p>BILL NO. 2; GENERAL PRELIMINARIES</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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	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p>A <i>Attendance</i> ; Clause B19 (a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>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.</p> <p><i>Fix Only</i>:-</p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated),pay all demurrage charges, load and transport to site where necessary, unload, store,unpack, assemble as necessary, distribute to position, hoist and fix only.</p> <p>FORM OF CONTRACT</p> <p>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</p> <p>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>	
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ITEM	DESCRIPTION	KSHS
	<p>PLANT, TOOLS AND VEHICLES</p> <p>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.</p> <p>TRANSPORT</p> <p>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.</p> <p>MATERIALS AND WORKMANSHIP</p> <p>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.</p> <p>SIGN FOR MATERIALS SUPPLIED</p> <p>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</p> <p>STORAGE OF MATERIALS</p> <p>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.</p>	
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ITEM	DESCRIPTION	KSHS
	<p>SAMPLES</p> <p>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.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p>GOVERNMENT ACTS REGARDING WORKPEOPLE, ETC</p> <p>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.</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 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.</p>	
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ITEM	DESCRIPTION	KSHS
	<p>SECURITY OF WORKS, ETC</p> <p>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.</p> <p>PUBLIC AND PRIVATE ROADS</p> <p>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</p> <p>EXISTING PROPERTY</p> <p>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</p> <p>VISIT SITE AND EXAMINE DRAWINGS.</p> <p>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.</p> <p>ACCESS TO SITE AND TEMPORARY ROADS</p> <p>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).</p>	
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ITEM	DESCRIPTION	KSHS
	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR</p> <p>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</p> <p>OFFICE FOR THE PROJECT MANAGER</p> <p>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, rangin</p> <p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>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.</p> <p>SANITATION FOR THE WORKS</p> <p>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</p>	
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	<p>SUPERVISION AND WORKING HOURS</p> <p>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.</p> <p>PROVISIONAL SUMS</p> <p>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</p> <p>PRIME COST (OR P.C.) SUMS</p> <p>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.</p> <p>PROGRESS CHART</p> <p>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.</p> <p>ADJUSTMENT OF P.C. SUMS</p> <p>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"</p>	
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	<p>ADJUSTMENT OF P.C. SUMS. Ctd.....</p> <p>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.</p> <p>ADJUSTMENT OF PROVISIONAL SUMS</p> <p>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.</p> <p>NOMINATED SUB-CONTRACTORS</p> <p>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".</p> <p>DIRECT CONTRACTS</p> <p>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.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p>ATTENDANCE UPON OTHER TRADESMEN, ETC</p> <p>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.</p> <p>PROVISIONAL WORK</p> <p>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.</p> <p>ALTERATIONS TO BILLS, PRICING, ETC</p> <p>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.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p>BLASTING OPERATIONS</p> <p>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.</p> <p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>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.</p> <p>PROTECTION OF THE WORKS</p> <p>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.</p> <p>REMOVAL OF RUBBISH, ETC</p> <p>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.</p> <p>WORKS TO BE DELIVERED UP CLEAN</p> <p>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</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p>GENERAL SPECIFICATION</p> <p>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.</p> <p>MATERIALS ON SITE</p> <p>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.</p> <p>HOARDING</p> <p>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.</p> <p>CONTRACTOR'S SUPERINTENDENT/SITE AGENT</p> <p>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.</p>	
	<i>Carried to collection</i>	

ITEM	DESCRIPTION	KSHS
	<p style="text-align: center;"><u>COLLECTION</u></p> <p>Brought Forward From Page GP/ 1</p> <p>Brought Forward From Page GP/ 2</p> <p>Brought Forward From Page GP/ 3</p> <p>Brought Forward From Page GP/ 4</p> <p>Brought Forward From Page GP/ 5</p> <p>Brought Forward From Page GP/ 6</p> <p>Brought Forward From Page GP/ 7</p> <p>Brought Forward From Page GP/ 8</p> <p>Brought Forward From Page GP/ 9</p> <p>Brought Forward From Page GP/ 10</p> <p>Brought Forward From Page GP/ 11</p>	
	<p>TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY</p>	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>BILL NO. 3; CANTEEN</u> <u>BUILDERS WORKS</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>Site Clearance</u>				
A	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising	182	SM		
	<u>Excavations and earthworks</u>				
B	Reduce level to remove top vegetable soil average 200mm deep and spread as directed on site	182	SM		
C	Excavate for strip foundation trenches not exceeding 1.5 metres deep commencing from reduced level	71	CM		
D	Ditto column bases	27	CM		
E	Excavate for strip foundation trenches exceeding 1.5 metres but not exceeding 3.0metres	9	CM		
F	Ditto column bases	12	CM		
G	Extra over excavations for excavating in rock class 1	60	CM		
H	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
J	Allow for planking and strutting to sides of excavations		ITEM		
	<u>Disposal</u>				
K	Load surplus excavated material and cart away	48	CM		
	<u>Filling</u>				
L	Return fill and ram selected excavated material around foundations.	71	CM		
	<u>Hardcore</u>				
M	300mm thick hardcore filling including levelling and consolidating in 150mm layers	130	SM		
N	Form sinking in hardcore average 550mm wide by 100mm deep	2	LM		
P	Handpack hardcore to form battering sides 200m girth (bsm)	4	LM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<u>Blinding</u> 50mm Thick Quarry dust blinding to the surface of hardcore; rolled smooth	130	SM		
	<u>Insecticide treatment</u>				
B	"TERMIDOL" or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	130	SM		
	<u>In-situ concrete work</u> <u>Mass concrete (1:3:6/38-38mm aggregate)</u>				
C	50mm Thick blinding under strip foundations	47	SM		
D	Ditto under column bases	18	SM		
	<u>Vibrated reinforced concrete (1:1.5:3/25-20mm aggregate) as described in:</u>				
E	Foundation strips	10	CM		
F	Column bases	7	CM		
G	Columns	2	CM		
H	150mm Thick ground floor slab	130	SM		
J	Mass concrete in ramp	1	CM		
K	Thickening under slab average 550mm wide by 100mm deep	2	LM		
L	Extra over for forming channels in slab 300mm wide x 150mm deep including all necessary formwork	11	LM		
	<u>Damp proof membrane</u>				
M	500 gauge polythene sheeting laid under concrete under concrete floor bed.	130	SM		
	<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position as described.</u>				
N	8 mm diameter ribbed bars	490	KG.		
P	12 mm ditto	750	KG.		
Q	16 mm ditto	1220	KG.		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	130	SM		
	<u>Sawn formwork as described to:</u>				
B	Vertical sides of strip foundations	32	SM		
C	Vertical sides of column bases	61	SM		
D	Vertical sides of columns	27	SM		
E	Ditto curved to a radius	5	SM		
F	Edge of ground floor slab 75-150mm high	48	LM		
	<u>Foundation walling</u>				
G	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	150	SM		
	<u>Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)</u>				
H	200mm wide levelled and bedded in cement and sand (1:3) mortar under walls	62	LM		
J	100mm ditto	2	LM		
	<u>Plinth area finishes</u>				
K	12mm Thick cement and sand (1:3) wood float render to plinth area	24	SM		
L	Prepare and apply three coats black bitumastic paint to rendered area	24	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. C		1		
	Brought Forward from Page No. C		2		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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 and ring beams	11	CM		
B	Columns	7	CM		
C	Gutter beam.	10	CM		
D	Steps and staircases	2	CM		
E	Suspended slabs, thickness 150 mm	70	SM		
F	Roof slabs ditto	25	SM		
G	Landing slabs, thickness 150mm	3	SM		
H	Arches	1	CM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position as described.</u>				
J	8 mm diameter ribbed bars	1010	KG.		
K	10 mm diameter	1350	KG.		
L	12 mm diameter	1350	KG.		
M	16 mm diameter	1680	KG.		
N	25 mm diameter	1350	KG.		
	<u>Sawn formwork as described to;</u>				
P	Sides of ringbeam/beams	135	SM		
Q	Sides of columns	79	SM		
R	Ditto curved to a radius	17	SM		
S	Sides and soffites of gutter beam	108	SM		
T	Soffites of suspended slabs	95	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Sawn formwork cont'd;</u>				
A	Sloping soffits of stairs	8	SM		
B	Open string of staircase 300mm (extreme height) including cutting to profile of treads and risers	7	LM		
C	Face of risers 150-225mm girth	24	LM		
D	Edges of suspended slabs 150-225mm	52	LM		
E	Edges of landings ditto	1	LM		
F	Horizontal soffites of landings	3	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. C		4		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 2</u>				
	<u>R.C. SUPERSTRUCTURE</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	185	SM		
B	200mm thick in parappet walling	39	SM		
C	250 x 75mm precast concrete coping	65	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	51	SM		
E	100mm thick	5	SM		
	<u>TOTAL FOR ELEMENT NO.3</u>				
	<u>WALLING</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO 4</u>				
	<u>ROOFING AND RAIN WATER DISPOSAL</u>				
	<u>Sawn cypress treated with a moisture content not exceeding 12%</u>				
A	200x 25mm ridge board	4	LM		
B	100 x 50 mm purlins	120	LM		
C	150 x 50 mm intermediate rafters.	35	LM		
D	150 x 50 mm jack rafters.	86	LM		
E	100 x 50 mm wall plate.	44	LM		
F	150 x 50mm hip rafters	56	LM		
	<u>The following in trusses with nailed connections including templates, fillets, straps, splices and hoisting approx. 6000mm above ground level</u>				
G	150 x 50 mm rafters.	41	LM		
H	150 x 50 mm tie beams.	36	LM		
J	100 x 50 mm ties and struts.	56	LM		
	<u>ROOF COVERING.</u>				
K	Approved Gauge 24 Aluminium 'Roman tile coloured' roofing sheets as 'Kaluworks' or other equal and approved including fixing to purlins to Architect's approval	108	SM		
L	Ditto; ridge capping to match - 600mm girth	4	LM		
M	Ditto; hip capping to match - 600mm girth	56	LM		
N	As flashing including groove in walling for turn-in pointed in cement mortar, girth 600mm	11	LM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	45	LM		
B	Extra-over gutter for fulbora with cover grating, 100mm diameter.	9	NO		
C	Ditto anti-splash horse shoe 300mm long	9	NO		
D	Extra over 90 ⁰ bend	9	NO		
	<u>Roof Finishes</u>				
E	Make 50mm wide x 25mm deep groove in reinforced concrete, turn in roofing felt and make good thereafter	130	LM		
F	32mm thick cement/sand screed to to slab receive roofing felt	25	SM		
G	Ditto gutter ditto	68	SM		
H	Apply priming coat on screeded surface by torch spray	93	SM		
J	Sirrah P GR 5kg/sm APP bituminous membrane roofing felt applied on primed screed	93	SM		
K	Ditto in dressing upstand beam to 150mm overlap	39	SM		
L	15mm thick cement:sand (1:4) render, wood trowelled	132	SM		
	<u>Concrete tiles</u>				
M	"Supply and fix" interlocking tiles on and including 40mm thick cement/sand paving to to a fall.	25	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. C		7		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 4</u> <u>ROOFING AND RAINWATER DISPOSAL</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	41	SM		
B	Ditto gutter beams externally	78	SM		
C	Ditto walls	185	SM		
D	Ditto parapet walls (b.s.m)	78	SM		
E	Ditto columns	48	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats exterior quality rough and tough paint on:-</u>				
F	Fair faced surfaces of concrete beams	41	SM		
G	Ditto gutter beams externally	78	SM		
H	Ditto walls	185	SM		
J	Ditto parapet walls (b.s.m)	78	SM		
K	Ditto columns	48	SM		
	<u>Paving around the Building</u>				
L	150mm thick murram fill rammed and rolled to level.	58	SM		
M	"Round up" or other equal and approved weed killer treatment applied in accordance with manufacturer's instructions	58	SM		
N	"Premise 200" Anti-termite treatment on murram surfaces	58	SM		
P	600 x 600 x 50mm thick PCC paving slabs on and including 50mm sand bed jointed and pointed in cement sand 1:3 mortar	58	SM		
	<u>TOTAL FOR ELEMENT NO. 5</u>				
	<u>EXTERNAL WALL FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u>				
	<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>				
A	Surfaces of walls, columns and beams; internally	348	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats silk vinyl paint on:-</u>				
B	Plastered surfaces of walls, columns and beams	348	SM		
	<u>Tile finish</u>				
C	25mm thick cement/sand backing (1:3) to receive ceramic wall tiles (m.s)	20	SM		
D	200 x 250 x 6mm thick coloured ceramic wall tiles pointed in white cement and fixed with an approved adhesive	20	SM		
E	20 x 3mm coloured metal tile edging (provisional)	5	LM		
F	Border tile to approval	9	LM		
	<u>TOTAL FOR ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 7</u>				
	<u>FLOOR FINISHES</u>				
	<u>Terrazzo finish</u>				
A	40mm thick terrazzo finish comprising 20mm thick cement and sand (1:3) ground and 20mm thick terrazzo paving ground smooth and polished	200	SM		
B	32x3mm plastic dividing strips	300	LM		
C	100x20mm terrazzo skirting.	131	LM		
	<u>Staircase finish</u>				
D	40mm thick terrazzo (a.b.d) on landing	3	SM		
E	Ditto to treads 280mm wide	22	LM		
F	Ditto to face of risers 150mm wide	24	LM		
G	Extra over for carborandum non-slip inserts	22	LM		
	<u>Mild steel grating</u>				
H	Fabricate, supply and fix the following factory primed mild steel grating framed with 50 x50 x 4mm angle section, 16mm diameter round bars welded together at 50mm centres; including assembly and laying to channel; overall size 300mm wide	11	LM		
	<u>Prepare and apply one undercoat and two finishing coats marine paint on:-</u>				
J	Metal surfaces (b.s.m)	7	SM		
	<u>TOTAL FOR ELEMENT NO. 7</u>				
	<u>FLOOR FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 8</u>				
	<u>CEILING FINISHES</u>				
	<u>Internal</u>				
	<u>Gypsum board ceiling</u>				
A	12mm thick suspended gypsum boarding fixed on to and including steel grid work	116	SM		
B	150 x 25mm gypsum/stryopor decorative cornice with three labours plugged.	30	LM		
C	Extra over for forming trap door with cypress framing, size 600x600mm	1	NO		
	<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>				
D	Ditto to soffits of suspended ceiling	95	SM		
E	Ditto to slopping soffits of stairs	8	SM		
F	Plaster to horizontal soffites of landing	3	SM		
G	Extreme girth of staircase; 300mm	8	LM		
	<u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u>				
H	Gypsum board soffites	116	SM		
J	Ditto to soffits of suspended ceiling	95	SM		
K	Ditto to slopping soffits of stairs	8	SM		
L	Plaster to horizontal soffites of landing	3	SM		
M	Extreme girth of staircase; 300mm	8	LM		
	<u>TOTAL FOR ELEMENT NO. 8</u>				
	<u>CEILING FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 9</u>				
	<u>WINDOWS</u>				
A	175 x 75mm thick precast concrete window; weathered and throated	29	LM		
	<u>Prime grade wrot mahogany</u>				
B	50 x 25mm window board with one labour.	21	LM		
C	25mm quadrant bead	21	LM		
	<u>Venetian Blinds</u>				
	<u>Supply and Fix' vertical venetain blinds complete with all accessories to approval</u>				
D	Window size 1500 x 1500mm high	13	NO		
E	Window size 1200 x 1500mm high	1	NO		
	<u>Painting</u>				
F	Prepare and apply three coats of gloss oil paint to timber surfaces not exceeding 100mm girth	21	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>				
G	Windows 1500 x 1500mm high	18	NO		
H	Window 1200 x 1500mm high	1	NO		
J	Windows 900 x 900mm high	1	NO		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<p><u>Burglar proofing</u></p> <p>Burglar proofing with 10mm square steel rods welded to a mesh at 100mm centres both ways</p>	43	SM		
	<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>				
B	<p>Burglar grilles (measured on both sides)</p>	86	SM		
	<p><u>Approved clear sheet glass</u></p>				
C	<p>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>	42	SM		
	<p><u>Approved obscure sheet glass</u></p>				
D	<p>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>	1	SM		
<i>Carried to collection below</i>					
<u>COLLECTION</u>					
Brought Forward from Page No. C			13		
Brought Down from					
	<p><u>TOTAL FOR ELEMENT NO. 9</u> <u>WINDOWS</u> <i>CARRIED TO SUMMARY</i></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 10</u></p> <p><u>DOORS</u></p> <p><u>Aluminium Casement Doors</u></p> <p><u>Aluminium casement door comprising 100x50 x1.5 mm thick powder coated aluminium sections, approved beading sections, rubber gaskets, 8mm thick laminated clear glass and complete with hinges, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4)</u></p>				
A	Double leaf double swing door overall size 1200x2400mm high (5 lever mortice lock, heavy duty handles included; hinges; and a heavy duty concealed floor Briton door closer	1	NO		
B	Ditto overall size 1500x2400mm high ditto	1	NO		
	<p><u>Galvanised mild steel casement doors</u></p> <p><u>Standard doors complete with hinges, lock, bolts etc. assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand (1:4) mortar</u></p> <p><u>Mild steel doors comprising 40x25x3mm hollow (RHS) section stiles, bottom and top rails and intermediate rails and stiles, ends welded and angles cut, mitred and welded and both sides covered with 16 gauge sheet welded to framing; all welding ground to smooth finish;</u></p>				
C	Mild steel double leaf door overall size 1200 x 2400mm high in two equal leafs with and including hanging devices and priming back to metal surfaces	1	NO		
	<p><u>Panel doors</u></p>				
D	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	3	NO		
	<p><u>Flush doors</u></p>				
E	45mm thick semi-solid core flush door size 820 x 2060mm faced with quality plywood on both sides and hardwood beaded all round	2	NO		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Wrot mahogany backs primed before fixing in aluminium wood primer:</u>				
A	150 x 50 mm frame primed back once rebated	17	LM		
B	Ditto transome	3	LM		
C	100 x 50 mm frame primed back once rebated	10	LM		
D	45 x 25 mm architrave with one labour	27	LM		
E	25mm quadrant	27	LM		
	<u>Ironmongery as per Union Catalogue</u>				
F	Five-lever steel door lock with lever furniture approval	1	NO		
G	Three-lever cylinder door lock with satin anodized aluminium (SAA) set lever furniture to the Architect's approval	3	NO		
H	Two lever bathroom lock set with aluminium lever handles	2	NO		
J	38mm rubber door stop fixed with rawl bolt	9	NO		
K	100mm pressed brass butt hinges	6	Prs		
L	Double action hinges	1.5	Prs		
M	Overhead door closer; cat. No. 8823	3	NO		
N	Aluminium coat hooks (showers)	2	NO		
P	Aluminium kick plate size 800 x 300mm	2	NO		
Q	Aluminium "D" pull handles	4	NO		
R	Aluminium push plates	4	NO		
	<u>Prepare and apply two undercoats stainer and two finishing coats of varnish to:-</u>				
S	Timber door general surfaces	18	SM		
T	Ditto 200 to 300mm girth.	17	LM		
U	Ditto 100 to 200mm girth.	10	LM		
V	Ditto; not exceeding 100mm girth	37	LM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Touch up primer and apply one undercoat and two finishing coats of 1st quality marine paint to:-</u>				
A	General surfaces of metal doors	6	SM		
	<u>Glazing</u>				
B	5mm thick clear sheet glass in panes not exceeding 0.5 sm.	1	SM		
C	20 x 20mm wrot mahogany glazing bead.	14	LM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. C	13			
	Brought Forward from Page No. C	14			
	Brought Down from Above				
	<u>TOTAL FOR ELEMENT NO. 10</u>				
	<u>DOORS</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
<p><u>ELEMENT NO. 11</u></p> <p><u>BALUSTRADING</u></p> <p><u>Wrought mahogany</u></p> <p>A 100x50mm hand rail</p> <p><u>3mm thick stainless steel circular hollow extrusion tubes</u></p> <p><u>Composite balustrading comprising 50mm diameter x 3mm thick top rail welded onto 25mm x 3mm secondary balusters 200mm long at 450mm long; 50mm diameter primary balusters at 900mm centres and 30mm diameter x 2mm horizontal braces at 250mm centres to detail including grinding welds smooth fixing to concrete plinth and kerb and end to walling overall 900mm high:-</u></p> <p>B Staircase railing</p>		<p>8</p> <p>8</p>	<p>LM</p> <p>LM</p>		
	<p><u>TOTAL FOR ELEMENT NO. 11</u></p> <p><u>BALUSTRADING</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 9</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.	11	SM		
B	Ditto; but fascia 250mm wide	25	LM		
	<u>Plain concrete 1:3:6</u>				
C	Plinths, thickness 100 mm	11	SM		
	<u>Plain concrete class 20</u>				
D	Worktop, thickness 75 mm	11	SM		
	<u>Steel mesh fabrics reinforcement to B.S 4483</u>				
E	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	11	SM		
	<u>Formwork</u>				
F	Edges of beds, etc 75 to 150 mm high	25	LM		
G	Edges of slabs, etc not exceeding 75 mm high	25	LM		
	<u>Lined formwork and fair face of concrete</u>				
H	Soffits of worktops	11	SM		
	<u>Solid concrete block walling in cement sand mortar</u>				
J	Walling reinforced as described, 100 mm thick	3	SM		
	<u>Lime Plaster</u>				
K	12mm thick plaster to walls mix (1:2:9)	6	SM		
	<u>Wrot Mahogany</u>				
L	75x50mm frame with one labour	51	LM		
M	Bearer size 50x25mm	6	LM		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Blockboard to BS3444</u>				
A	Tops including lipping, mahogany veneer faced one side; thickness	1	SM		
B	Shelves ditto	1	SM		
C	20mm divisions and sides ditto	3	SM		
D	25mm door size 600x600mm high hardwood lipped all round mahogany veneer faced one side	23	NO		
E	Drawer 550x250mm high on face x 500mm deep comprising 50mm front grooved for pull, 25mm sides and back and 6mm plywood bottom all housed together and glued and set on 25x12mm runners and grooves to sides	5	NO		
	<u>Ironmongery - supply and fix with matching screws</u>				
F	75 mm steel butt hinges	23	Prs		
G	44mm brass cylinder Cupboard lock	12	NO		
H	Magnetic catch	46	NO		
J	100mm Brass D Pull handle	23	NO		
K	Brass Drawer knob, screwed	5	NO		
	<u>Prepare and apply two undercoats stainer and two finishing coats of varnish to:-</u>				
L	Frames exceeding 100 but not exceeding 200mm girth.	10	LM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. C	19			
	Brought Down from Above				
	<u>TOTAL FOR ELEMENT NO. 12</u>				
	<u>JOINERY FITTINGS</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	BUILDERS WORKS SUMMARY				
		PAGE	NO		
1	SUBSTRUCTURES	C	3		
2	R.C SUPERSTRUCTURES	C	5		
3	WALLING	C	6		
4	ROOFING AND RAIN WATER DISPOSAL	C	8		
5	EXTERNAL WALL FINISHES	C	9		
6	INTERNAL WALL FINISHES	C	10		
7	FLOOR FINISHES	C	11		
8	CEILING FINISHES	C	12		
9	WINDOWS	C	14		
10	DOORS	C	17		
11	BALUSTRADING	C	18		
12	JOINERY FITTINGS	C	20		
	TOTAL FOR BUILDERS WORKS				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>BILL NO. 4; ABLUTION BLOCK</u> <u>BUILDERS WORKS</u></p> <p><u>ELEMENT NO. 1</u> <u>SUBSTRUCTURES (ALL PROVISIONAL)</u></p> <p><u>NOTE: (I) All work measured under this element is up to and including the floor slab but excluding the finishes thereon.</u></p> <p><u>Site Clearance</u></p>				
A	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising	97	SM		
	<p><u>Excavations and earthworks</u></p>				
B	Reduce level to remove top vegetable soil average 200mm deep and spread as directed on site	97	SM		
C	Excavate for strip foundation trenches not exceeding 1.5 metres deep commencing from reduced level	45	CM		
D	Ditto column bases	13	CM		
E	Excavate for strip foundation trenches exceeding 1.5 metres but not exceeding 3.0metres	15	CM		
F	Ditto column bases	6	CM		
G	Extra over excavations for excavating in rock class 1	40	CM		
H	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
J	Allow for planking and strutting to sides of excavations		ITEM		
	<p><u>Disposal</u></p>				
K	Load surplus excavated material and cart away	32	CM		
	<p><u>Filling</u></p>				
L	Return fill and ram selected excavated material around foundations.	47	CM		
	<p><u>Hardcore</u></p>				
M	300mm thick hardcore filling including levelling and consolidating in 150mm layers	60	SM		
N	Form sinking in hardcore average 550mm wide by 100mm deep	18	LM		
P	Handpack hardcore to form battering sides 200m girth (bsm)	36	LM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Blinding</u>				
A	50mm Thick Quarry dust blinding to the surface of hardcore; rolled smooth	60	SM		
	<u>Insecticide treatment</u>				
B	"TERMIDOL" or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	60	SM		
	<u>In-situ concrete work</u>				
	<u>Mass concrete (1:3:6/38-38mm aggregate)</u>				
C	50mm Thick blinding under strip foundations	30	SM		
D	Ditto under column bases	9	SM		
	<u>Vibrated reinforced concrete (1:1.5:3/25-20mm aggregate) as described in:</u>				
E	Foundation strips	6	CM		
F	Column bases	3	CM		
G	Columns	1	CM		
H	150mm Thick ground floor slab	60	SM		
J	Mass concrete in ramp	1	CM		
K	Thickening under slab average 550mm wide by 100mm deep	18	LM		
	<u>Damp proof membrane</u>				
L	500 gauge polythene sheeting laid under concrete under concrete floor bed.	60	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	210	KG.		
N	10 mm ditto	315	KG.		
P	12 mm ditto	525	KG.		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	60	SM		
	<u>Sawn formwork as described to:</u>				
B	Vertical sides of strip foundations	20	SM		
C	Vertical sides of column bases	12	SM		
D	Vertical sides of columns	11	SM		
E	Edge of ground floor slab 75-150mm high	33	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	95	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	40	LM		
H	150mm ditto	13	LM		
	<u>Plinth area finishes</u>				
J	12mm Thick cement and sand (1:3) wood float render to plinth area	17	SM		
K	Prepare and apply three coats black bitumastic paint to rendered area	17	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. AB		1		
	Brought Forward from Page No. AB		2		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	Ring beams	5	CM		
B	Columns	1	CM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position as described.</u>				
C	8 mm diameter ribbed bars	180	KG.		
D	10 mm diameter	270	KG.		
E	16 mm diameter	450	KG.		
	<u>Sawn formwork as described to;</u>				
F	Sides of ringbeam	55	SM		
G	Sides of columns curved to a radius	14	SM		
	<u>TOTAL FOR ELEMENT NO. 2</u>				
	<u>R.C. SUPERSTRUCTURE</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	55	SM		
B	200mm thick in gable walling	20	SM		
C	150mm thick	1	SM		
				
D	Extra over for eaves filling 300mm high	10	LM		
E	Extra over raking cutting to 200mm thick walling	26	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>				
F	200mm thick	23	SM		
G	150mm thick	33	SM		
	<u>TOTAL FOR ELEMENT NO.3</u>				
	<u>WALLING</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO 4</u>				
	<u>ROOFING AND RAIN WATER DISPOSAL</u>				
	<u>Sawn cypress treated with a moisture content not exceeding 12%</u>				
A	200x 25mm ridge board	18	LM		
B	100 x 50 mm purlins	100	LM		
C	100 x 50 mm intermediate rafters.	50	LM		
D	100 x 50 mm jack rafters.	36	LM		
E	100 x 50 mm wall plate.	10	LM		
F	100 x 50mm valley rafters	34	LM		
	<u>The following in trusses with nailed connections including templates, fillets, straps, splices and hoisting approx. 3000mm above ground level</u>				
G	100 x 50 mm rafters.	66	LM		
H	100 x 50 mm tie beams.	46	LM		
J	100 x 50 mm ties and struts.	93	LM		
	<u>Wrot cypress treated as described and with a moisture content not exceeding 12%.</u>				
K	200x25mm fascia board.	36	LM		
	<u>ROOF COVERING.</u>				
L	Approved Gauge 24 Aluminium 'Roman tile coloured' roofing sheets as 'Kaluworks' or other equal and approved including fixing to purlins to Architect's approval	98	SM		
M	Ditto; ridge capping to match - 600mm girth	18	LM		
N	Ditto; valley sheeting to match - 600mm girth	17	LM		
P	Prepare and apply one undercoat and two finishing coats pinotex paint to surfaces of fascia board exceeding 200 but not exceeding 300mm girth.	36	LM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Eaves</u>				
A	200mm wide PVC tongued and grooved boarding to eaves fixed on and including 50x50mm treated sawn cypress brandering at 600mm centres	21	SM		
B	PVC cornice, 100x2mm plugged	72	LM		
	<u>RAIN WATER DISPOSAL.</u>				
	<u>24 gauge aluminium purpose made ready box gutters jointed with mastic and fixed to fascia with brackets</u>				
C	Size,200x200mm.	10	LM		
D	Extra-over gutter for outlet, 100mm diameter.	4	NO		
E	Ditto, stopped ends.	8	NO		
	<u>Downpipe - UPVC</u>				
F	100mm Diameter UPVC down pipe in duct or fixed to wall with and including approved holderbats at 1200mm centres	12	LM		
G	Extra-over gutter for fulbora with cover grating,100mm diameter.	4	NO		
H	Ditto anti-splash horse shoe 300mm long	4	NO		
J	Extra over 90 ⁰ bend	4	NO		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. AB		6		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 4</u>				
	<u>ROOFING AND RAINWATER DISPOSAL</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	15	SM		
B	Ditto walls	16	SM		
C	Ditto gable walls	20	SM		
D	Ditto columns	11	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	15	SM		
F	Ditto walls	16	SM		
G	Ditto gable walls	20	SM		
H	Ditto columns	11	SM		
	<u>Tile finish</u>				
J	25mm thick cement/sand backing (1:3) to receive ceramic wall tiles (m.s)	39	SM		
K	6mm thick coloured irregular shaped ceramic wall tiles pointed in white cement and fixed with an approved adhesive	39	SM		
	<u>Paving around the Building</u>				
L	150mm thick murrum fill rammed and rolled to level.	40	SM		
M	"Round up" or other equal and approved weed killer treatment applied in accordance with manufacturer's instructions	40	SM		
N	"Premise 200" Anti-termite treatment on murrum surfaces	40	SM		
P	600 x 600 x 50mm thick PCC paving slabs on and including 50mm sand bed jointed and pointed in cement sand 1:3 mortar	40	SM		
	<u>TOTAL FOR ELEMENT NO. 5</u>				
	<u>EXTERNAL WALL FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u>				
	<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>				
A	Surfaces of walls, columns and beams; internally	84	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats silk vinyl paint on:-</u>				
B	Plastered surfaces of walls, columns and beams	84	SM		
	<u>Tile finish</u>				
C	25mm thick cement/sand backing (1:3) to receive ceramic wall tiles (m.s)	114	SM		
D	200 x 250 x 6mm thick coloured ceramic wall tiles pointed in white cement and fixed with an approved adhesive	114	SM		
E	20 x 3mm coloured metal tile edging (provisional)	54	LM		
F	Border tile to approval	68	LM		
	<u>TOTAL FOR ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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>59</p> <p>89</p> <p>76</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><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 8</u></p> <p><u>CEILING FINISHES</u></p> <p><u>Internal</u></p> <p><u>Gypsum board ceiling</u></p>				
A	12mm thick suspended gypsum boarding fixed on to and including steel grid work	59	SM		
B	150 x 25mm gypsum/stryopor decorative cornice with three labours plugged.	94	LM		
C	Extra over for forming trap door with cypress framing, size 600x600mm	2	NO		
	<p><u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u></p>				
D	Gypsum board soffites	59	SM		
	<p><u>TOTAL FOR ELEMENT NO. 8</u></p> <p><u>CEILING FINISHES</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 9</u>				
	<u>WINDOWS</u>				
A	175 x 75mm thick precast concrete window; weathered and throated	12	LM		
	<u>Prime grade wrot mahogany</u>				
B	50 x 25mm window board with one labour.	1	LM		
C	25mm quadrant bead	1	LM		
	<u>Venetian Blinds</u>				
	<u>Supply and Fix' vertical venetain blinds complete with all accessories to approval</u>				
D	Window size 900 x 900mm high	1	NO		
	<u>Painting</u>				
F	Prepare and apply three coats of gloss oil paint to timber surfaces not exceeding 100mm girth	1	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>				
G	Windows 1500 x 1200mm high	3	NO		
H	Window 1500 x 900mm high	3	NO		
J	Windows 900 x 900mm high	3	NO		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Burglar proofing</u>				
A	Burglar proofing with 10mm square steel rods welded to a mesh at 100mm centres both ways	12	SM		
	<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>				
B	Burglar grilles (measured on both sides)	24	SM		
	<u>Approved clear sheet glass</u>				
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	2	SM		
	<u>Approved obscure sheet glass</u>				
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	10	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. AB		12		
	Brought Down from				
	<u>TOTAL FOR ELEMENT NO. 9</u>				
	<u>WINDOWS</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	3	NO		
B	Ditto double swing overall size 1000x2400mm high with 1000x300mm fan lights ditto	1	NO		
	<u>Flush doors</u>				
C	45mm thick semi-solid core flush door size 820 x 2060mm faced with quality plywood on both sides and hardwood beaded all round	6	NO		
	<u>Wrot mahogany backs primed before fixing in aluminium wood primer:</u>				
D	150 x 50 mm frame primed back once rebated	23	LM		
E	Ditto transome	4	LM		
F	100 x 50 mm frame primed back once rebated	30	LM		
G	45 x 25 mm architrave with one labour	53	LM		
H	25mm quadrant	53	LM		
	<u>Ironmongery as per Union Catalogue</u>				
J	Three-lever cylinder door lock with satin anodized aluminium (SAA) set lever furniture to the Architect's approval	3	NO		
K	Two lever bathroom lock set with aluminium lever handles	6	NO		
L	38mm rubber door stop fixed with rawl bolt	11	NO		
M	100mm pressed brass butt hinges	13.5	Prs		
N	Double action hinges	1.5	Prs		
P	Overhead door closer; cat. No. 8823	3	NO		
Q	Aluminium coat hooks (showers)	7	NO		
R	Aluminium kick plate size 800 x 300mm	6	NO		
S	Ditto 900 x 300mm	1	NO		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Prepare and apply two undercoats stainer and two finishing coats of varnish to:-</u>				
A	Timber door general surfaces	36	SM		
B	Ditto 200 to 300mm girth.	23	LM		
C	Ditto 100 to 200mm girth.	30	LM		
D	Ditto; not exceeding 100mm girth	53	LM		
	<u>Glazing</u>				
E	5mm thick clear sheet glass in panes not exceeding 0.5 sm.	1	SM		
F	20 x 20mm wrot mahogany glazing bead.	20	LM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. AB	14			
	Brought Down from Above				
	<u>TOTAL FOR ELEMENT NO. 10</u>				
	<u>DOORS</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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.	3	SM		
B	Ditto; but fascia 250mm wide	5	LM		
	<u>Plain concrete 1:3:6</u>				
C	Plinths, thickness 100 mm	3	SM		
	<u>Plain concrete class 20</u>				
D	Worktop, thickness 75 mm	3	SM		
	<u>Steel mesh fabrics reinforcement to B.S 4483</u>				
E	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	3	SM		
	<u>Formwork</u>				
F	Edges of beds, etc 75 to 150 mm high	5	LM		
G	Edges of slabs, etc not exceeding 75 mm high	5	LM		
	<u>Lined formwork and fair face of concrete</u>				
H	Soffits of worktops	3	SM		
J	<i>Allow a provisional sum of KShs. 100,000.00 for additional joinery fixtures</i>		SUM		
	<u>TOTAL FOR ELEMENT NO. 11</u>				
	<u>JOINERY FITTINGS</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
BUILDERS WORKS SUMMARY					
		PAGE	NO		
1	SUBSTRUCTURES	AB	3		
2	R.C SUPERSTRUCTURES	AB	4		
3	WALLING	AB	5		
4	ROOFING AND RAIN WATER DISPOSAL	AB	7		
5	EXTERNAL WALL FINISHES	AB	8		
6	INTERNAL WALL FINISHES	AB	9		
7	FLOOR FINISHES	AB	10		
8	CEILING FINISHES	AB	11		
9	WINDOWS	AB	13		
10	DOORS	AB	15		
11	JOINERY FITTINGS	AB	16		
TOTAL FOR BUILDERS WORKS					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>BILL NO. 5; SENTRY</u>				
	<u>BUILDERS WORKS</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>Site Clearance</u>				
A	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>				
B	Reduce level to remove top vegetable soil average 200mm deep and spread as directed on site	37	SM		
C	Excavate for strip foundation trenches not exceeding 1.5 metres deep commencing from reduced level	17	CM		
D	Extra over excavations for excavating in rock class 1	5	CM		
E	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
F	Allow for planking and strutting to sides of excavations		ITEM		
	<u>Disposal</u>				
G	Load surplus excavated material and cart away	7	CM		
	<u>Filling</u>				
H	Return fill and ram selected excavated material around foundations.	10	CM		
	<u>Hardcore</u>				
J	300mm thick hardcore filling including levelling and consolidating in 150mm layers	17	SM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Blinding</u>				
A	50mm Thick Quarry dust blinding to the surface of hardcore; rolled smooth	17	SM		
	<u>Insecticide treatment</u>				
B	"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>				
C	50mm Thick blinding under strip foundations	11	SM		
	<u>Vibrated reinforced concrete (1:1.5:3/25-20mm aggregate) as described in:</u>				
D	Foundation strips	2	CM		
E	150mm Thick ground floor slab	17	SM		
F	Mass concrete in ramp	1	CM		
	<u>Damp proof membrane</u>				
G	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>				
H	8 mm diameter ribbed bars	90	KG.		
J	12 mm ditto	210	KG.		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	Edge of ground floor slab 75-150mm high	16	LM		
	<u>Foundation walling</u>				
D	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>				
E	200mm wide levelled and bedded in cement and sand (1:3) mortar under walls	17	LM		
	<u>Plinth area finishes</u>				
F	12mm Thick cement and sand (1:3) wood float render to plinth area	8	SM		
G	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>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	Ring beams	2	CM		
B	Gutter beam.	3	CM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix steel bars reinforcement including bending, hooks, tying wire, cutting, spacer blocks and supporting all in position as described.</u>				
C	8 mm diameter ribbed bars	150	KG.		
D	10 mm diameter	375	KG.		
E	12 mm diameter	225	KG.		
	<u>Sawn formwork as described to;</u>				
F	Sides of ringbeam	17	SM		
G	Sides and soffites of gutter beam	30	SM		
	<u>TOTAL FOR ELEMENT NO. 2</u>				
	<u>R.C. SUPERSTRUCTURE</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 3</u></p> <p><u>WALLING</u></p> <p><u>External walls</u></p> <p><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></p> <p>A 200mm thick</p> <p>B 200mm thick in parapet walling</p> <p>C 250 x 75mm precast concrete coping</p> <p><u>Internal walls</u></p> <p><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></p> <p>D 200mm thick</p>	<p>27</p> <p>5</p> <p>18</p> <p>8</p>	<p>SM</p> <p>SM</p> <p>LM</p> <p>SM</p>		
	<p><u>TOTAL FOR ELEMENT NO.3</u></p> <p><u>WALLING</u></p> <p><i>CARRIED TO SUMMARY</i></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO 4</u>				
	<u>ROOFING AND RAIN WATER DISPOSAL</u>				
	<u>Sawn cypress treated with a moisture content not exceeding 12%</u>				
A	200x 25mm ridge board	1	LM		
B	100 x 50 mm purlins	32	LM		
C	100 x 50 mm intermediate rafters.	4	LM		
D	100 x 50 mm jack rafters.	20	LM		
E	100 x 50 mm wall plate.	19	LM		
F	100 x 50mm hip rafters	20	LM		
	<u>The following in trusses with nailed connections including templates, fillets, straps, splices and hoisting approx. 3000mm above ground level</u>				
G	100 x 50 mm rafters.	16	LM		
H	100 x 50 mm tie beams.	14	LM		
J	100 x 50 mm ties and struts.	16	LM		
	<u>ROOF COVERING.</u>				
K	Approved Gauge 24 Aluminium 'Roman tile coloured' roofing sheets as 'Kaluworks' or other equal and approved including fixing to purlins to Architect's approval	25	SM		
L	Ditto; ridge capping to match - 600mm girth	1	LM		
M	Ditto; hip capping to match - 600mm girth	10	LM		
	Carried to Collections				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	6	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>				
E	Make 50mm wide x 25mm deep groove in reinforced concrete, turn in roofing felt and make good thereafter	36	LM		
F	32mm thick cement/sand screed to gutter receive roofing felt	21	SM		
G	Apply priming coat on screeded surface by torch spray	21	SM		
H	Sirrah P GR 5kg/sm APP bituminous membrane roofing felt applied on primed screed	21	SM		
J	15mm thick cement:sand (1:4) render, wood trowelled	21	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. S		6		
	Brought Down from		Above		
	<u>TOTAL FOR ELEMENT NO. 4</u> <u>ROOFING AND RAINWATER DISPOSAL</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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	7	SM		
B	Ditto gutter beams externally	22	SM		
C	Ditto walls	27	SM		
D	Ditto parapet walls (b.s.m)	10	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	7	SM		
F	Ditto gutter beams externally	22	SM		
G	Ditto walls	27	SM		
H	Ditto parapet walls (b.s.m)	10	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>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u>				
	<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>				
A	Surfaces of walls and beams; internally	40	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and two finishing coats silk vinyl paint on:-</u>				
B	Plastered surfaces of walls and beams	40	SM		
	<u>Tile finish</u>				
C	25mm thick cement/sand backing (1:3) to receive ceramic wall tiles (m.s)	13	SM		
D	200 x 250 x 6mm thick coloured ceramic wall tiles pointed in white cement and fixed with an approved adhesive	13	SM		
E	20 x 3mm coloured metal tile edging (provisional)	4	LM		
F	Border tile to approval	7	LM		
	<u>TOTAL FOR ELEMENT NO. 6</u>				
	<u>INTERNAL WALL FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 8</u></p> <p><u>CEILING FINISHES</u></p> <p><u>Internal</u></p> <p><u>Gypsum board ceiling</u></p>				
A	12mm thick suspended gypsum boarding fixed on to and including steel grid work	17	SM		
B	150 x 25mm gypsum/stryopor decorative cornice with three labours plugged.	22	LM		
C	Extra over for forming trap door with cypress framing, size 600x600mm	1	NO		
	<p><u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on:-</u></p>				
D	Gypsum board soffites	17	SM		
	<p><u>TOTAL FOR ELEMENT NO. 8</u></p> <p><u>CEILING FINISHES</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Burglar proofing</u>				
A	Burglar proofing with 10mm square steel rods welded to a mesh at 100mm centres both ways	12	SM		
	<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>				
B	Burglar grilles (measured on both sides)	24	SM		
	<u>Approved clear sheet glass</u>				
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	5	SM		
	<u>Approved obscure sheet glass</u>				
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	1	SM		
	<i>Carried to collection below</i>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. S		12		
	Brought Down from				
	<u>TOTAL FOR ELEMENT NO. 9</u>				
	<u>WINDOWS</u>				
	<i>CARRIED TO SUMMARY</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<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>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
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	7		
5	EXTERNAL WALL FINISHES	S	8		
6	INTERNAL WALL FINISHES	S	9		
7	FLOOR FINISHES	S	10		
8	CEILING FINISHES	S	11		
9	WINDOWS	S	13		
10	DOORS	S	14		
11	JOINERY FITTINGS	S	15		
TOTAL FOR BUILDERS WORKS					

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (Kshs)
	<u>BILL NO. 6</u>				
	<u>FENCING: 200LM</u> <u>(ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear site of grass, shrubs and small trees, grub up roots and burn up arisings.	200	SM		
	<u>Excavation</u>				
B	Excavate pits size 450x450x800mm deep starting from ground level and not exceeding 1.5m deep	11	CM		
C	Ditto size 600x300x600mm ditto	1	CM		
	<u>Disposal</u>				
D	Return fill and ram selected excavated materials	6	CM		
E	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>				
F	Post footings.	6	CM		
	<u>Precast concrete units:-</u>				
G	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		
H	Provide and install 100 x 100 mm x 3250mm high pre-cast concrete strainer posts set in concrete surround at 45 metres centres	8	NO		
	Total carried to summary				

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (Kshs)
A	<p><u>Chainlink</u></p> <p>Supply and fix 2200mm 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></p> <p>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 decribed.</p>	600	LM		
C	<p><u>GATES.</u></p> <p><u>Mild Steel primed before fixing and painted afterwards with three coats of marine paint as directed:-</u></p> <p>Double leaf gate overall size 6000x2100mm high each leaf tapering and rising by 0.5m as they meet top spikes at 150mm centres in two equal leaves, each leaf comprising 75x25x3mm R.H.S frame, two 75x25x3mm middle rails and 25x25x3mm R.H.S vertical members welded to rails and frame at 75mm centres and plugged top and bottom each leaf hanging on gate 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		
Total carried to summary					

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (Kshs)
A	<p><u>Gate Pillars</u></p> <p>500x500x2400mm High reinforced concrete class 25 gate post, 700x700x75mm weathered and throated capping at top and four (4No.)x100mm long mild steel hooks and three gate hinges (m/s) cast into post which is fair face finished and emulsion paint painting including steel reinforcement, formwork and all necessary excavation and backfilling.</p>	2	NO		
B	Extra; for 100mm diameter x 3000mm long stanchion in mass concrete class 'Q' 600mm diameter x 600mm deep base	2	NO		
	Total carried to summary				
	<u>SUMMARY</u>				
1	TOTAL FROM PAGE F/1				
2	TOTAL FROM PAGE F/2				
3	TOTAL FROM ABOVE				
	TOTAL FOR FENCING CARRIED TO GRAND SUMMARY				

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

PROJECT: PROPOSED SHIMONI STAFF CANTEEN, SENTRY AND ABLUTION BLOCK CIVIL WORKS

BILL NO. 7;

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	15,000 LITRES SEPTIC TANK (50 PEOPLE)				
A	Excavation pit for septic tank n.e. 1.5m deep)	CM	66		
B	Ditto between 1.5m and 3.0m deep)	CM	57		
C	Return fill and rum	CM	84		
D	Cartaway away surplus material	CM	39		
E	Provide lay & vibrated conc. 1:3:6 to base	CM	3		
F	Provide lay & vibrate conc. 1:2:4 to cover slab, buffer & dividing walls	CM	3		
G	Provide materials & erect 200mm thick masonry wall in cement motar 1:4	SM	51		
H	Provide formwork to soffit of suspended slab exceeding 1.5 m high	SM	13		
J	Ditto to edge of slab between 75 & 150mm high	LM	5		
K	Ditto to sides of walls	SM	8		
L	Make or leave dia. 100mm hole & build in dia 100mm pipe	NO	2		
M	Make or leave dia. 160mm hole & build in dia 160mm pipe	NO	2		
N	Make or leave rebated opening 600x450mm	No	4		
P	Build in dia. 100mm UPVC class 41 'Tee'	No	2		
Q	Provide & apply 12mm thick water proof plaster	SM	102		
Q	Provide apply 25mm thick screed to floor slab	SM	12		
R	Provide cut bend & fix in wall BRC mesh type A142	SM	7		
S	Ditto dia. 10mm HT bars in slab	KG	162		
T	Planking & strutting to sides of excavations		ITEM		
U	Keep excavations free from general waters		ITEM		
V	Provide & fix 600x450mm MD MH cover & frame	NO	4		
TOTAL CARRIED TO COLLECTION					

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

PROJECT: PROPOSED SHIMONI STAFF CANTEEN, SENTRY AND ABLUTION BLOCK CIVIL WORKS

BILL NO. 7;

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	MANHOLE TYPE 'C' (50)5303 (10NO)				
A	Excavation pit for manhole n.e. 1.5m deep	CM	30		
B	Return fill and rum	CM	10		
C	Cartaway away surplus material	CM	20		
D	Provide lay & vibrate conc. 1:3:6 to base	CM	10		
E	Provide lay & vibrate conc. 1:2:4 to cover slab, buffer & dividing walls	CM	10		
F	Provide materials & erect 200mm thick masonry wall in cement motar 1:4	SM	70		
G	Provide & fix malleable iron step in manhole	No	40		
H	Provide & apply 12mm thick water proof plaster	SM	50		
J	Provide & fix 600x450mm MD MH cover & frame	No	10		
	Make or leave dia. 160mm hole & build in dia 160mm pipe	NO	40		
K	Build in dia. 160mm UPVC class 41 pipe	No	40		
L	Provide formwork to soffit of slab	SM	20		
M	Formwork to edge 150-225mm high	LM	40		
N	Provide cut bend & fix in wall dia. 8mm HT reinforcing bar	KG	130		
P	Make or leave rebated opening 600x450mm	NO	10		
	TOTAL CARRIED TO SUMMARY				

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

PROJECT: PROPOSED SHIMONI STAFF CANTEEN, SENTRY AND ABLUTION BLOCK CIVIL WORKS

BILL NO. 7;

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>SOAK PIT(1No) 50(5345) (1NO.)</u>				
A	Excavation pit for sak pit n.e. 1.5m deep	CM	15		
B	Ditto between 1.5m and 3.0m deep	CM	2		
C	Ditto between 3.0m and 4.5m deep	CM	2		
D	Ditto between 4.5m and 6.m deep	CM	2		
E	Return fill and rum	CM	13		
F	Cartaway away surplus material	CM	8		
G	Provide materials & erect 150mm thick circular masonry wall in cement motar 1:4	SM	7		
H	Provide lay & vibrate conc. 1:3:6 to 150mm thick base	CM	1		
J	Provide lay & vibrate conc. 1:2:4 to cover slab, 150mm thick	CM	1		
K	Provide & fix 600x450mm MD MH cover & frame	NO	1		
L	Provide formwork to soffit of slab	SM	1		
M	Ditto to curved edge 150-225mm high	LM	5		
N	Provide cut bend & fix in wall dia. 8mm HT reinforcing bar	KG	26		
P	Provide approved hardcore fill to soak pit	CM	7		
Q	Make or leave rebated opening 600x450mm	NO	1		
R	Keep excavations free from general waters		ITEM		
TOTAL CARRIED TO COLLECTION					

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

PROJECT: PROPOSED SHIMONI STAFF CANTEEN, SENTRY AND ABLUTION BLOCK CIVIL WORKS

BILL NO. 7;

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
DIAMETER 160mm UPVC SEWER PIPE					
A	Excavate trench for dia. 160mm sewer pipe starting from ground level n. e. 1.5m deep, backfill after laying pipe, bed & surround, & dispose surplus material as directed by the Engineer, average depth 1.25m	LM	70		
B	Allow for plunking & strutting to sides of excavations		ITEM		
C	Allow for keeping excavations free from general waters		ITEM		
D	Provide lay & joint in trench in flexible (rubber ring or lip seal joints) dia. 160mm UPVC golden brown class 41 sewer pipe, including approved murrm bed & surround to detail (50) 5310 type 'F'	LM	70		
TOTAL CARRIED TO COLLECTION					
COLLECTION					
TOTAL CARRIED FROM PAGE					
TOTAL CARRIED FROM PAGE ABOVE					
TOTAL CARRIED SUMMARY					

PROPOSED CONSTRUCTION OF A CANTEEN, ABLUTION BLOCK SENTRY AT SHIMONI, KWALE COUNTY

PROJECT: PROPOSED SHIMONI STAFF CANTEEN, SENTRY AND ABLUTION BLOCK CIVIL WORKS

BILL NO. 7;

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	SUMMARY				
	15,000 LITRE SEPTIC TANK				
	MANHOLE TYPE 'C' (50)5303 (10NO.)				
	SOAK PIT (1No) 50(5345)				
	DIAMETER 160mm UPVC SEWER PIPE				
	SUB TOTAL				
	ALLOW FOR 7.5% CONTIGENCIES				
	TOTAL FOR CIVIL WORKS CARRIED TO GRAND SUMMARY				