

ITEM	DESCRIPTION	KSHS.
	<p>AMENDMENTS TO TENDERING INSTRUCTIONS</p> <p>a) Tenders shall remain valid as per Invitation Tenders.</p> <p>b) Bid bond/Tender Security shall be as prescribed under Invitation to Tenders and Appendix to Instructions to Tenderers.</p> <p>A PRICING ITEMS OF PRELIMINARIES Prices SHALL BE INSERTED against items of "preliminaries" in the tenderer's priced Bills of Quantities.</p> <p>Please note that failure to price any item of general particular preliminaries will be construed to mean that the tenderer wishes to provide for that item free of charge.</p> <p>B VALUE ADDED TAX & WITHHOLDING TAX The bidders shall have 16% VAT inbuilt in proposed schedule of rates. Any omission in respect thereof shall be treated and corrected as an arithmetic error as per clause 5.7 of the instructions to Tenderers. The Contractor shall allow for 3% Withholding Tax which should be included within the pricing rates</p> <p>Please note that from every Interim and Final Payment, 16% VAT and 3% Withholding Tax shall be deducted and paid directly to the Commissioner of Value Added Tax (V.A.T.)/ K.R.A.</p> <p>C FIRM PRICE CONTRACT</p> <p>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>Carried to Collection</p>	

ITEM	DESCRIPTION
A	<p>SCOPE OF THE CONTRACT</p> <p>The works to be carried out under this contract comprise of PROPOSED CONSTRUCTION OF KISUMU COUNTY POULTRY HATCHERY AND INCUBATION CENTER.</p>
B	<p>DESCRIPTION OF THE WORKS</p> <p>Walling shall be in natural stone external and Roofing with IT4 sheet fixed onto timber frame work while internal walls shall be in natural stone. Windows shall be in steel while doors shall be steel doors on external wall while mahogany veneered flush door shall be in the internal walls. Ceramic tile shall be used on floor while walls and ceiling shall be plastered and painted.</p>
C	<p>FLOOR AREA</p> <p>The total gross approximate floor area is 2058 square metres. The total gross floor area is given without any warranty but for guidance only.</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 document shall immediately be referred to the Project Manager.</p>
D	<p>LOCATION OF SITE</p> <p>The site for works is located in North Seme ward approximately 20 km from Kisumu Town</p> <p>The tenderer shall be deemed to have visited the site and familiarized himself with all site conditions prior to submission of tenders.</p> <p>No claims arising from the tenderers failure to do so will be entertained.</p>
Carried to Collection	

ITEM	DESCRIPTION
A	<p>EXISTING BUILDING SERVICES Special precautions shall be required throughout the contract period to avoid damage to the existing cables, drains and other services.</p> <p>The Contractor shall allow for making good any damage arising from his actions during execution of this contract at his own expense.</p>
B	<p>GENERAL</p> <p>The Contractor is referred to General Specifications for Building Works – 1976 Edition Pages B1 – B2 and must allow for all costs in complying with these clauses.</p> <p>CONTRACT COMPLETION PERIOD</p> <p>The contract completion period in accordance with condition 31 of the conditions of contract must be strictly adhered to.</p> <p>The PROJECT MANAGER shall strictly monitor the Contractors progress in relation to the progress chart and should it be found necessary, the PROJECT MANAGER shall inform the Contractor in writing that his actual performance on site is not satisfactory.</p> <p>In all such cases, the Contractor shall accelerate his rate of performance, production and progress by all means such as additional labour, plant, e.t.c., and working overtime all at his cost.</p>
C	<p>WORKING CONDITIONS</p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of execution 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.</p>
Carried to Collection	

ITEM	DESCRIPTION	
A	<p>SIGN BOARD</p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
B	<p>LABOUR CAMPS</p> <p>The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>	
C	<p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become the property of the government. The Contractor shall allow in his rates for the cost of assembling and keeping them in the Ministry of Works, Bandani Yard.</p>	
D	<p>PRICING RATES</p> <p>The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing all to comply with the said Conditions of Contract.</p>	
Carried to Collection		

ITEM	DESCRIPTION
<p><u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u></p>	
A	The following are the insertions to be made in the appendix to the Contract Agreement: -
B	Period of Final Measurement 3 Months From Practical completion
C	Defects Liability Period 6 Months from practical completion
D	Date for Possession To be agreed with the Project Manager
E	Date for Completion 52 Weeks from date of Possession
	<p>Liquidated and Ascertained At the rate of Kshs 200,000.00 per week or part prime cost sums for which the the Contractor desires to tender</p>
	Period of Interim Certificates Monthly
	Period of Honouring Certificates 30 days
	<p>percentage of certified value retained 10%</p>
	Limit of Retention Fund 10%
	<p>bonds shall be from Approved Banks or Approved Insurance Companies</p>
	Carried to Collection

ITEM	DESCRIPTION
COLLECTION	
Brought forward from page PP/1	
Brought forward from page PP/2	
Brought forward from page PP/3	
Brought forward from page PP/4	
Brought forward from page PP/5	
	PARTICULAR PRELIMINARIES CARRIED TO BILL No.1 SUMMARY

ITEM	DESCRIPTION	
A	<p>GENERAL PRELIMINARIES</p> <p>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>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>	
B	<p>ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</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.1 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> <p><i>P.M</i> Shall mean Project Manager</p>	
	<i>Carried to collection</i>	
	GP/1	

ITEM	DESCRIPTION	
<p>A.</p>	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p><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>B.</p>	<p>EMPLOYER</p> <p>The Kisumu County Government</p> <p>The term "Employer" and "Government" wherever used in the contract document shall be synonymous</p>	
<p>C.</p>	<p>PROJECT MANAGER</p> <p>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>D.</p>	<p>ARCHITECT</p> <p>The term "Architect" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Chief Officer, Department of Roads, Transport & Public Works , P.O. Box 2738-40100 Kisumu.</p>	
<p>E.</p>	<p>QUANTITY SURVEYOR</p> <p>The term "Quantity Surveyor" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Chief Officer, Department of Roads, Transport & Public Works , P.O. Box 2738-40100 Kisumu.</p>	
<p><i>Carried to collection</i></p> <p>GP/2</p>		

ITEM	DESCRIPTION	
A	<p>ELECTRICAL ENGINEER</p> <p>The term "Electrical Engineer" shall be deemed to mean "The P.M." as defined above whose address unless otherwise notified is Chief Officer, Department of Roads, Transport & Public Works , P.O. Box 2738-40100 Kisumu.</p>	
B	<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 Chief Officer, Department of Roads, Transport & Public Works , P.O. Box 2738-40100 Kisumu.</p>	
C	<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 Chief Officer, Department of Roads, Transport & Public Works , P.O. Box 2738-40100 Kisumu.</p>	
D	<p>FORM OF CONTRACT</p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works(2000 Edition) included herein The Conditions of Contract are also included herein Conditions of Contract These are numbered from 1 to 37 as set out in pages 20 to 48 of these tender documents.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>	
E	<p>BOND.</p> <p>The Contractor shall find and submit on the Form of Tender security in form of Bank Guarantee from approved bank or insurance and who will be willing to be bound the Government in and amount equal to five per cent (5%) of the Contract amount for the due performances of the Contract up to the date of completion as certified by the PROJECT MANAGER and who will when and if called upon, sign a Bond to that effect on the relevant standard form included herein. (without the addition of any limitations) on the same day as the Contract Agreement is signed, by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
	<i>Carried to collection</i>	
	GP/3	

ITEM	DESCRIPTION
A.	PLANT, TOOLS AND VEHICLES 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.
B.	TRANSPORT. 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.
C.	MATERIALS AND WORKMANSHIP. All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.
D.	SIGN FOR MATERIALS SUPPLIED. 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
E.	STORAGE OF MATERIALS 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.
<i>Carried to collection</i>	

GP/4

ITEM	DESCRIPTION
A	SAMPLES The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Roads, Housing and Public Works. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.
B	GOVERNMENT ACTS REGARDING WORKPEOPLE ETC. Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the 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.
C	SECURITY OF WORKS ETC. 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.
<i>Carried to collection</i>	

GP/5

ITEM	DESCRIPTION	
A	<p>PUBLIC AND PRIVATE ROADS.</p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER</p>	
B	<p>EXISTING PROPERTY.</p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p>	
C	<p>VISIT SITE AND EXAMINE DRAWINGS.</p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>	
D	<p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads (approximately 100metres long) for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges, or any other means of gaining access to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER</p>	
E	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR</p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
	<i>Carried to collection</i>	
	GP/6	

ITEM	DESCRIPTION	
A.	<p>OFFICE ETC. FOR THE PROJECT MANAGER</p> <p>The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete with Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect 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, ranging rods and 50 metre metallic or linen tape.</p>	
B.	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters 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>	
C	<p>SANITATION OF THE WORKS</p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p>	
D	<p>SUPERVISION AND WORKING HOURS</p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p>	
E	<p>PROVISIONAL SUMS.</p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement Such sums are net and no addition shall be made to them for profit.</p>	
	<p><i>Carried to collection</i></p>	
	<p>GP/7</p>	

ITEM	DESCRIPTION	
<p>A</p> <p>PRIME COST (OR P.C.) SUMS.</p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of 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>B</p> <p>PROGRESS CHART.</p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p> <p>C</p> <p>ADJUSTMENT OF P.C. SUMS.</p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. 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>		
	<i>Carried to collection</i>	
	GP/8	

ITEM	DESCRIPTION	
A	<p>ADJUSTMENT OF PROVISIONAL SUMS.</p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued, 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>	
B	<p>NOMINATED SUB-CONTRACTORS</p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts 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>	
C	<p>DIRECT CONTRACTS</p> <p>Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In 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>	
D	<p>ATTENDANCE UPON OTHER TRADESMEN, ETC.</p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>	
	<p><i>Carried to collection</i></p> <p>GP/9</p>	

ITEM	DESCRIPTION	
A.	<p>INSURANCE</p> <p>The Contractor shall insure as required in Conditions No. 30 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance 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>	
B	<p>PROVISIONAL WORK</p> <p>All work described as "Provisional" in these Bills of Quantities is subject to re-measurement 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>	
C	<p>ALTERATIONS TO BILLS, PRICING, ETC.</p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the 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>	
D	<p>BLASTING OPERATIONS</p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
<i>Carried to collection</i>		
GP/10		

ITEM	DESCRIPTION	
<p>A. MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER. Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p> <p>B PROTECTION OF THE WORKS.</p> <p>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>C REMOVAL OF RUBBISH ETC.</p> <p>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>D WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p> <p>E FIRM PRICE CONTRACT</p> <p>Unless otherwise specifically stated in the particular preliminaries this is a firm price contract and the contractor must allow in his tender rates for any increase in the cost of labour and/ or materials during the currency of the contract.</p>		
	<p><i>Carried to collection</i> GP/11</p>	

ITEM	DESCRIPTION	
A	<p>GENERAL SPECIFICATION.</p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works 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>	
B	<p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value to National Industrial Training Authority Nairobi.</p>	
C	<p>MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
D	<p>HOARDING</p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
E	<p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</p> <p>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 give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
F	<p>COPYRIGHT</p> <p>The copyright of these documents is vested in the Chief Officer, Department of Roads, Transport & Public Works - Kisumu County</p> <p>No part of this document may be produced in any form or by any means without their prior permission.</p> <p style="text-align: center;"><i>Carried to Collection</i> <i>GP/12</i></p>	

ITEM	DESCRIPTION	
A	NATIONAL CONSTRUCTION LEVY Allow for 0.5% of the bedded amount being NCA LEVY to be paid to NCA by the Main Contractor on behalf of the Client	
B	NEMA LEVY Allow for 0.1% of the bedded amount being NEMA LEVY to be paid to NEMA by the Main Contractor on behalf of the Client	
	<i>Carried to Collection</i>	
	COLLECTION	
	Brought Forward From Page GP/1	
	Brought Forward From Page GP/2	
	Brought Forward From Page GP/3	
	Brought Forward From Page GP/4	
	Brought Forward From Page GP/5	
	Brought Forward From Page GP/6	
	Brought Forward From Page GP/7	
	Brought Forward From Page GP/8	
	Brought Forward From Page GP/9	
	Brought Forward From Page GP/10	
	Brought Forward From Page GP/11	
	Brought Forward From Page GP/12	
	Brought down from above	
	TOTAL FOR GENERAL PRELIMINARIES	
	CARRIED TO BILL No. 1 SUMMARY	
	GP/13	

ITEM	DESCRIPTION	
	<u>BILL NO. 1 SUMMARY</u> A PARTICULAR PRELIMINARIES (PAGE PP/6) B GENERAL PRELIMINARIES (PAGE GP/13)	
	TOTAL FOR PRELIMINARIES CARRIED TO GRAND SUMMARY	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.
	<p><u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1</u></p> <p>BILLS OF QUANTITIES</p> <p><u>SECTION NO. 2</u></p> <p>ELEMENT NO.1</p> <p><u>SUBSTRUCTURE</u></p> <p><i>(All Provisional)</i></p> <p><u>NOTES</u></p> <p>1 The Tenderer's attention is drawn to the Preliminaries Contract Particulars Clause 8.0 which states that the Standard Method of Measurement is the June 2008 Edition. Per Clause D5(g) of this S.M.M all excavations in this BoQ have been measured NET and no allowance has been made for working space and the tenderer is shall price for the excavations accordingly.</p> <p>2 Cement for all Structural Works in these Bills of Quantities shall strictly be Grade 32.5</p> <p>3 Cement for Non-Structural Works in these Bills of Quantities shall be Grade 32.5</p> <p>4 All Reinforcement in these Bills of Quantities shall be to BS 4449:1997 with the following characteristic; a) Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm²; allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools;</p>				

<u>SUBSTRUCTURES (CONTD)</u>				
<u>Excavations & Earthworks</u>				
A	Excavate to remove top vegetation sou average 100mm deep; remove from site	m2	474	
B	Excavate to reduce levels, not exceeding 1.5 m deep from stripped level	m3	214	
C	Excavate for strip foundations not exceeding 1.5 m deep from reduced level	m3	86	
D	Ditto for Column Bases not exceeding 1.5 m deep from reduced level	m3	74	
E	Allow for keeping excavations free from water by baling or pumping as required including provision of drains, etc., as described	Item		
F	Allow for maintaining and supporting sides of excavations and for keeping free from fallen materials as described	Item		
<u>Disposal</u>				
G	Backfilling around foundations & columns	m3	98	
H	Load and cart away surplus spoil	m3	140	
<u>Imported filling</u>				
I	300mm Thick approved hardcore under floor bed well compacted	m2	474	
J	40mm Thick Murrum or quarry dust blinding to hardcore	m2	474	
<u>Carried to Collection</u>				
				Kshs.

SUBSTRUCTURES (CONTD)		
<u>Damp proof membrane as described :-</u>		
A	1000 Gauge polythene sheet dampproof membrane to horizontal surfaces	m2 474
<u>Anti-termite treatment</u>		
B	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to horizontal surfaces of the floor slab and around the plinth, e.t.c.	m2 474
<u>Concrete Class (1:3:6) in 50mm thick blinding under :-</u>		
C	Strip foundations for masonry walling	m2 74
D	Column bases	m2 78
<u>Vibrated reinforced concrete class 25 in:</u>		
E	Colum Bases	m3 16
F	Columns	m3 4
G	Strip foundations	m3 11
H	100 mm Thick slab	m2 474
I	Ground beame	m3 7
<u>Reinforcement</u>		
<u>Reinforcement to BS 4449:1997 with the following characteristic: a) Grade 460 B high strength type 2.</u>		
<u>Ribbed bars with proof stress of 460N/mm², allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools</u>		
J	8mm diameter bars	Kg 914
K	10mm diameter bars	Kg 810
L	12mm diameter bars	Kg 889
M	16mm diameter bars	Kg 924
<u>Carried to Collection</u>		Kshs.

<u>SUBSTRUCTURES (CONTD)</u>				
<u>Steel mesh fabric reinforcement to B.S. 4483</u>				
A	Ref. A142 Layer of fabric mesh reinforcement laid in bed with 150mm side and end laps	m2	474	
<u>Sawn formwork to:</u>				
B	Sides of column bases	m2	70	
C	Sides of column	m2	51	
D	Sides of strip foundations	m2	48	
E	Edges of floor beds 150 - 225mm high	m	110	
<u>Quarry dressed natural stone walling in cement sand mortar (1:3) with minimum crushing strength of 7.0 N/mm²</u>				
F	200mm Thick walling	m2	178	
<u>1000 Gauge polythene sheet damp proof course laid on and including cement sand (1:3) levelling screed</u>				
G	200mm Wide <u>Cement sand (1:4) render to :-</u>	m	191	
H	12mm Thick render to wall externally <u>Prepare and apply two coats of bituminous paint to :-</u>	m2	36	
I	Rendered walls externally <u>Paving slab around the building</u>	m2	36	
J	600x600x50mm thick precast concrete paving slabs bedded and jointed in cement and sand(1:4) mortar laid on and including 50mm thick sand bed	m2	65	
	<u>Carried to Collection</u>			Kshs.
<u>COLLECTION</u>				
Page No. 2/2				
Page No. 2/3				
Page No. 2/4				
<u>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</u>				<u>KSHS.</u>

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT</u>					
	<u>STOCK UNIT 1</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO.2</u>					
	<u>RC SUPERSTRUCTURE</u>					
	Concrete Class 25mm in:-					
A	Columns	m3	10			
	Concrete Class 25mm in:-					
B	Ring beams	m3	9			
	<u>Reinforcement, as before described</u>					
C	8mm diameter bars	Kg	468			
D	10mm diameter bars	Kg	529			
E	12mm diameter bars	Kg	412			
F	16mm diameter bars	Kg	534			
	<u>Sawn formwork to :-</u>					
G	Vertical sides of columns	m2	158			
H	Sides and soffits of ringbeams	m2	114			
I	100mm diameter 3000mm high CHS Columns	m	148			
	<u>TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SUMMARY</u>					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 8</u>					
	<u>ROOFING AND RAINWATER DISPOSAL</u> (All provisional)					
A	Prepainted Gauge 28 IT5 roofing sheet	m2	615			
B	Ditto to ridge cap	m	42			
	<u>Supply and fix steel roof square tubes.the contractor to allow for proper joints and connection as may be deem necessary</u> Structural steel					
C	75x75mm x4mm Z Purlins	m	626			
D	100x50mmx4mm rafters	m	258			
E	50x50mmx4mm struts and ties	m	340			
F	25mmx25mmx5mm Trusses	m	276			
G	75mmx100mm x5mm wall plate	m	192			
H	225mmx25mm Fascia board/barge board	m	177			
	<u>Rainwater Disposal</u>					
I	100mmx150mmx4mm steel gutter	m	82			
J	150mm x 150mm prepainted gauge 24 galvanised iron rain water down pipe fixed onto walls with approved mild steel support brackets at 1,000mm centres	m	14			
	<u>Carried to Collection</u>				Kshs.	
	<u>COLLECTION</u>					
	Page No. 2/1					
	<u>TOTAL FOR ROOF CARRIED TO SUMMARY</u>				KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO. 5					
	EXTERNAL WALLS					
	<u>Approved local natural stonework; squared and machine dressed; bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u>					
A	200mm Thick walls	m2	198			
B	Ditto Dwarf wall	m2	136			
	<u>Damp proof course</u>					
C	200mm wide	m	158			
	Grill works					
D	Permanent ventilation made of painted heavy gauge mesh wire with additional chicken wire	m2	174			
E	28gauge mabati to gable ends	m2	68			
	TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY					
					KSHS.	

BILLS OF QUANTITIES

SECTION NO. 2

ELEMENT NO. 6

INTERNAL WALLS

Approved local natural stonework; squared and machine-dressed bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course

A	200mm Thick walls	m2	158
B	200mm Wide	m	37

TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY

KSHS.

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO. 7					
	WINDOWS					
	STEEL WINDOWS					
	Supply and fix the following purpose made casement windows comprising of 50 x 50 x 16 G and 25 mm "Z" section framing including all coupling mullions etc and complete with bronze handles ,peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs ; bedding in cement and sand (1:3) mortar , pointing all round frames in mastic ,easing ,oiling and adjusting opening lights on completion, including 4 mm glazing; All as per the architect's Schedule of windows					
A	Size 2000x 1500 mm high	No.	2			
	Carried to Collection			Kshs.	0	00

WINDOWS (CONT'D)					
<u>Precast concrete weathered and throated window cills</u>					
A	Window cill over all size 275 x 100 mm high with 3 No labour. Prepare and apply three coats gloss paint to;	m	6		
B	Windows	m2	12		
<u>Carried to Collection</u>				Kshs.	
<u>COLLECTION</u>					
Page No. 2/1					
Page No. 2/2					
<u>TOTAL FOR WINDOWS CARRIED TO SUMMARY</u>				KSHS.	

PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1

BILLS OF QUANTITIES

SECTION NO. 2

ELEMENT NO. 8

DOORS

Flush Doors

45mm Thick blockboard semi -solid core flush door with hardwood lipping

A Size 900 x 2100 mm high door No. 1

Frames

Sawn softwood frame

B 150 x 30 mm Thick frames with two labours m 6

C 50x25mm architraves with two labours,plugged m 6

D 25x24mm quadrant m 6

Steel Doors

Suppl and fix steel casement door complete with fittings and accessories

E Size 900 x 2400 mm high door No. 2

Carried to Collection

Kshs.

<u>DOORS (CONTD)</u>				
<u>Ironmongery</u>				
<u>Supply and fix the following ironmongery as applicable or equal and approved ironmongery with matching screws</u>				
A	100 mm Mild Steel Butt Hinges	Prs	3	
B	Two lever mortice lock including 2 No. Lever Handles	Set	1	
C	Rubber door stoper	Set	3	
<u>Painting and decorating</u>				
<u>Prepare and apply three coats matt emulsion paint to</u>				
D	Timber surfaces	m2	6	
<u>Prepare and apply three coats of gloss oil paint to</u>				
E	Metal surfaces	m2	12	
<u>Carried to Collection</u>				Kshs.
<u>COLLECTION</u>				
Page No. 2/1				
Page No. 2/2				
<u>TOTAL FOR DOORS CARRIED TO SUMMARY</u>				KSHS.

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 9</u>					
	<u>EXTERNAL FINISHES</u>					
	<u>Floor Finishes</u>					
	<u>Cement Sand (1:4) screed as described</u>					
A	40 mm Thick screed	m2	60			
	<u>Cement and sand (1:4) render</u>					
B	12 mm Thick plaster to masonry or concrete surfaces	m2	312			
	<u>Ramp</u>					
C	2000x2400mm Mass Concrete Ramp	No	2			
	<u>Painting and Decorating</u>					
	<u>Prepare and apply three coats internal quality matt emulsion paint to:-</u>					
D	Plastered wall surfaces	m2	312			
	<u>TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY</u>					
					KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF PARENT					
	STOCK UNIT 1					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO.10					
	INTERNAL FINISHES					
	Floor Finishes					
	<u>Cement Sand (1:4) screed as described</u>					
A	20 mm Thick finished to receive ceramic floor tiles	m2	454			
	<u>Supply and fix with and including Sika Ceramic 100g grey adhesive and grouting with Sika tile grout and pointing to match. Rate to include breakage and cutting waste.</u>					
B	300 x 300 mm ceramic floor tiles in patterns as directed	m2	14			
C	100 mm Skirting tile cut out of tiles above	m	11			
	<u>Cement, sand, lime (1:2:9) in :-</u>					
D	12 mm Thick plaster to masonry or concrete surfaces	m2	486			
	<u>Carried to Collection</u>					
				Kshs.		

<u>Painting and Decorating</u>				
<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>				
A	Plastered wall surfaces	m2	486	
<u>Ceiling Finishes</u>				
<u>Chipboard ceiling</u>				
B	Chipboard ceiling	m2	14	
C	Provide and fix 50x50mm cornices	m2	112	
D	Branding size 75x50mm plugged	m2	137	
<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>				
E	soffits of chipboard	m2	14	
<u>Carried to Collection</u>				Kshs.
<u>COLLECTION</u>				
Page No. 2/1				
Page No. 2/2				
<u>TOTAL FOR INTERNAL FINISHES CARRIED TO SUMMARY</u>				KSHS.

ITEM NO.		SHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1</u>		
	<u>BILLS OF QUANTITIES</u>		
	<u>SECTION NO. 2</u>		
	<u>SUMMARY</u>	<u>PAGE NO.</u>	
1.	SUBSTRUCTURES	2/5	
2.	RC SUPERSTRUCTURE	2/6	
3.	ROOF	2/4	
4.	EXTERNAL WALLS	2/15	
5.	INTERNAL WALLS	2/16	
6.	WINDOWS	2/18	
7.	DOORS	2/20	
8.	EXTERNAL FINISHES	2/22	
9.	INTERNAL FINISHES	2/24	
	<u>TOTAL CARRIED TO MAIN SUMMARY</u>	<u>KSHS.</u>	

ITEM NO.		SHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 1</u>		
	<u>MAIN SUMMARY</u>	<u>PAGE NO.</u>	
1.	PRELIMINARIES	1/26	
2.	BUILDER'S WORKS	2/25	
3.	PROVISIONAL SUMS	3/1	
	SUB-TOTAL		
	ADD 16% VAT		
	<u>TOTAL CARRIED TO FORM OF TENDER</u>	KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2</u>				
	BILLS OF QUANTITIES				
	<u>SECTION NO. 2</u>				
	<u>ELEMENT NO.1</u>				
	<u>SUBSTRUCTURE</u>				
	<i>(All Provisional)</i>				
	<u>NOTES</u>				
1	The Tenderer's attention is drawn to the Preliminaries Contract Particulars Clause 8.0 which states that the Standard Method of Measurement is the June 2008 Edition. Per Clause D5(g) of this S.M.M all excavations in this BoQ have been measured NET and no allowance has been made for working space and the tenderer is shall price for the excavations accordingly.				
2	Cement for all Structural Works in these Bills of Quantities shall strictly be Grade 32.5				
3	Cement for Non-Structural Works in these Bills of Quantities shall be Grade 32.5				
4	All Reinforcement in these Bills of Quantities shall be to BS 4449:1997 with the following characteristic; a) Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm² ; allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools;				

<u>SUBSTRUCTURES (CONTD)</u>				
<u>Excavations & Earthworks</u>				
A	Excavate to remove top vegetation sou average 100mm deep; remove from site	m2	474	
B	Excavate to reduce levels, not exceeding 1.5 m deep from stripped level	m3	214	
C	Excavate for strip foundations not exceeding 1.5 m deep from reduced level	m3	86	
D	Ditto for Column Bases not exceeding 1.5 m deep from reduced level	m3	74	
E	Allow for keeping excavations free from water by baling or pumping as required including provision of drains, etc., as described	Item		
F	Allow for maintaining and supporting sides of excavations and for keeping free from fallen materials as described	Item		
<u>Disposal</u>				
G	Backfilling around foundations & columns	m3	98	
H	Load and cart away surplus spoil	m3	140	
<u>Imported filling</u>				
I	300mm Thick approved hardcore under floor bed well compacted	m2	474	
J	40mm Thick Murrum or quarry dust blinding to hardcore	m2	474	
<u>Carried to Collection</u>				
				Kshs.

SUBSTRUCTURES (CONTD)				
<u>Damp proof membrane as described :-</u>				
A	1000 Gauge polythene sheet dampproof membrane to horizontal surfaces	m2	474	
<u>Anti-termite treatment</u>				
B	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to horizontal surfaces of the floor slab and around the plinth, e.t.c.	m2	474	
<u>Concrete Class (1:3:6) in 50mm thick blinding under :-</u>				
C	Strip foundations for masonry walling	m2	74	
D	Column bases	m2	78	
<u>Vibrated reinforced concrete class 25 in:</u>				
E	Colum Bases	m3	16	
F	Columns	m3	4	
G	Strip foundations	m3	11	
H	100 mm Thick slab	m2	474	
I	Ground beame	m3	7	
<u>Reinforcement</u>				
<u>Reinforcement to BS 4449:1997 with the following characteristic: a) Grade 460 B high strength type 2.</u>				
<u>Ribbed bars with proof stress of 460N/mm², allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools</u>				
J	8mm diameter bars	Kg	914	
K	10mm diameter bars	Kg	810	
L	12mm diameter bars	Kg	889	
M	16mm diameter bars	Kg	924	
<u>Carried to Collection</u>				Kshs.

<u>SUBSTRUCTURES (CONTD)</u>					
<u>Steel mesh fabric reinforcement to B.S. 4483</u>					
A	Ref. A142 Layer of fabric mesh reinforcement laid in bed with 150mm side and end laps	m2	474		
<u>Sawn formwork to:</u>					
B	Sides of column bases	m2	70		
C	Sides of column	m2	51		
D	Sides of strip foundations	m2	48		
E	Edges of floor beds 150 - 225mm high	m	110		
<u>Quarry dressed natural stone walling in cement sand mortar (1:3) with minimum crushing strength of 7.0 N/mm²</u>					
F	200mm Thick walling	m2	178		
<u>1000 Gauge polythene sheet damp proof course laid on and including cement sand (1:3) levelling screed</u>					
G	200mm Wide	m	191		
<u>Cement sand (1:4) render to :-</u>					
H	12mm Thick render to wall externally	m2	36		
<u>Prepare and apply two coats of bituminous paint to :-</u>					
I	Rendered walls externally	m2	36		
<u>Paving slab around the building</u>					
J	600x600x50mm thick precast concrete paving slabs bedded and jointed in cement and sand(1:4) mortar laid on and including 50mm thick sand bed	m2	65		
	<u>Carried to Collection</u>			Kshs.	
<u>COLLECTION</u>					
	Page No. 2/2				
	Page No. 2/3				
	Page No. 2/4				
<u>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</u>				KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	RSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT</u>					
	<u>STOCK UNIT 2</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO.2</u>					
	<u>RC SUPERSTRUCTURE</u>					
	Concrete Class 25mm in:-					
A	Columns	m3	10			
	Concrete Class 25mm in:-					
B	Ring beams	m3	9			
	<u>Reinforcement, as before described</u>					
C	8mm diameter bars	Kg	468			
D	10mm diameter bars	Kg	529			
E	12mm diameter bars	Kg	412			
F	16mm diameter bars	Kg	534			
	<u>Sawn formwork to :-</u>					
G	Vertical sides of columns	m2	158			
H	Sides and soffits of ringbeams	m2	114			
I	100mm diameter 3000mm high CHS Columns	m	148			
	<u>TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SUMMARY</u>					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 8</u>					
	<u>ROOFING AND RAINWATER DISPOSAL</u> (All provisional)					
A	Prepainted Gauge 28 IT5 roofing sheet	m2	615			
B	Ditto to ridge cap	m	42			
	<u>Supply and fix steel roof square tubes.the contractor to allow for proper joints and connection as may be deem necessary</u> Structural steel					
C	75x75mm x4mm Z Purlins	m	626			
D	100x50mmx4mm rafters	m	258			
E	50x50mmx4mm struts and ties	m	340			
F	25mmx25mmx5mm Trusses	m	276			
G	75mmx100mm x5mm wall plate	m	192			
H	225mmx25mm Fascia board/barge board	m	177			
	<u>Rainwater Disposal</u>					
I	100mmx150mmx4mm steel gutter	m	82			
J	150mm x 150mm prepainted gauge 24 galvanised iron rain water down pipe fixed onto walls with approved mild steel support brackets at 1,000mm centres	m	14			
	<u>Carried to Collection</u>				Kshs.	
	<u>COLLECTION</u>					
	Page No. 2/1					
	<u>TOTAL FOR ROOF CARRIED TO SUMMARY</u>				KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 5</u>					
	<u>EXTERNAL WALLS</u>					
	<u>Approved local natural stonework; squared and machine dressed; bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u>					
A	200mm Thick walls	m2	198			
B	Ditto Dwarf wall	m2	136			
	<u>Damp proof course</u>					
C	200mm wide	m	158			
	<u>Grill works</u>					
D	Permanent ventilation made of painted heavy gauge mesh wire with additional chicken wire	m2	174			
E	28gauge mabati to gable ends	m2	68			
	<u>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</u>				KSHS.	

BILLS OF QUANTITIES

SECTION NO. 2

ELEMENT NO. 6

INTERNAL WALLS

Approved local natural stonework, squared and machine-dressed bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course

A	200mm Thick walls	m2	158
B	200mm Wide	m	37

TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY

KSHS.

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO. 7					
	WINDOWS					
	STEEL WINDOWS					
	Supply and fix the following purpose made casement windows comprising of 50 x 50 x 16 G and 25 mm "Z" section framing including all coupling mullions etc and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jams ; bedding in cement and sand (1:3) mortar , pointing all round frames in mastic ,easing ,oiling and adjusting opening lights on completion, including 4 mm glazing; All as per the architect's Schedule of windows					
A	Size 2000x 1500 mm high	No.	2			
	Carried to Collection				Kshs.	

WINDOWS (CONT'D)				
<u>Precast concrete weathered and throated window cills</u>				
A	Window cill over all size 275 x 100 mm high with 3 No labour. Prepare and apply three coats gloss paint to;	m	6	
B	Windows	m2	12	
<u>Carried to Collection</u>				Kshs.
<u>COLLECTION</u>				
Page No. 2/1				
Page No. 2/2				
<u>TOTAL FOR WINDOWS CARRIED TO SUMMARY</u>				KSHS.

PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2

BILLS OF QUANTITIES

SECTION NO. 2

ELEMENT NO. 8

DOORS

Flush Doors

45mm Thick blockboard semi -solid core flush door with hardwood lipping

A Size 900 x 2100 mm high door No. 1

Frames

Sawn softwood frame

B 150 x 30 mm Thick frames with two labours m 6

C 50x25mm architraves with two labours,plugged m 6

D 25x24mm quadrant m 6

Steel Doors

Suppl and fix steel casement door complete with fittings and accessories

E Size 900 x 2400 mm high door No. 2

Carried to Collection

Kshs.

<u>DOORS (CONTD)</u>				
<u>Ironmongery</u>				
<u>Supply and fix the following ironmongery as applicable or equal and approved ironmongery with matching screws</u>				
A	100 mm Mild Steel Butt Hinges	Prs	3	
B	Two lever mortice lock including 2 No. Lever Handles	Set	1	
C	Rubber door stoper	Set	3	
<u>Painting and decorating</u>				
<u>Prepare and apply three coats matt emulsion paint to</u>				
D	Timber surfaces	m2	6	
<u>Prepare and apply three coats of gloss oil paint to</u>				
E	Metal surfaces	m2	12	
<u>Carried to Collection</u>				Kshs.
<u>COLLECTION</u>				
Page No. 2/1				
Page No. 2/2				
<u>TOTAL FOR DOORS CARRIED TO SUMMARY</u>				KSHS.

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 9</u>					
	<u>EXTERNAL FINISHES</u>					
	<u>Floor Finishes</u>					
	<u>Cement Sand (1:4) screed as described</u>					
A	40 mm Thick screed	m2	60			
	<u>Cement and sand (1:4) render</u>					
B	12 mm Thick plaster to masonry or concrete surfaces	m2	312			
	<u>Ramp</u>					
C	2000x2400mm Mass Concrete Ramp	No	2			
	<u>Painting and Decorating</u>					
	<u>Prepare and apply three coats internal quality matt emulsion paint to:-</u>					
D	Plastered wall surfaces	m2	312			
	<u>TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY</u>					
					KSHS.	

<u>Painting and Decorating</u>					
<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>					
A	Plastered wall surfaces	m2	486		
<u>Ceiling Finishes</u>					
<u>Chipboard ceiling</u>					
B	Chipboard ceiling	m2	14		
C	Provide and fix 50x50mm cornices	m2	112		
D	Branding size 75x50mm plugged	m2	137		
<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>					
E	soffits of chipboard	m2	14		
<u>Carried to Collection</u>				Kshs.	
<u>COLLECTION</u>					
Page No. 2/1					
Page No. 2/2					
<u>TOTAL FOR INTERNAL FINISHES CARRIED TO SUMMARY</u>				KSHS.	

ITEM NO.		SHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2</u>		
	<u>BILLS OF QUANTITIES</u>		
	<u>SECTION NO. 2</u>		
	<u>SUMMARY</u>	<u>PAGE NO.</u>	
1.	SUBSTRUCTURES	2/5	
2.	RC SUPERSTRUCTURE	2/6	
3.	ROOF	2/4	
4.	EXTERNAL WALLS	2/15	
5.	INTERNAL WALLS	2/16	
6.	WINDOWS	2/18	
7.	DOORS	2/20	
8.	EXTERNAL FINISHES	2/22	
9.	INTERNAL FINISHES	2/24	
	<u>TOTAL CARRIED TO MAIN SUMMARY</u>	<u>KSHS.</u>	

ITEM NO.		SHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF PARENT STOCK UNIT 2</u>		
	<u>MAIN SUMMARY</u>	<u>PAGE NO.</u>	
1.	PRELIMINARIES	1/26	
2.	BUILDERS WORKS	2/25	
3.	PROVISIONAL SUMS	3/1	
	SUB-TOTAL		
	ADD 16% VAT		
	<u>TOTAL CARRIED TO FORM OF TENDER</u>	KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.
	<p><u>PROPOSED CONSTRUCTION OF BROODING UNIT</u></p> <p>BILLS OF QUANTITIES</p> <p><u>SECTION NO. 2</u></p> <p><u>ELEMENT NO.1</u></p> <p><u>SUBSTRUCTURE</u></p> <p><i>(All Provisional)</i></p> <p><u>NOTES</u></p> <p>1 The Tenderer's attention is drawn to the Preliminaries Contract Particulars Clause 8.0 which states that the Standard Method of Measurement is the June 2008 Edition. Per Clause D5(g) of this S.M.M all excavations in this BoQ have been measured NET and no allowance has been made for working space and the tenderer is shall price for the excavations accordingly.</p> <p>2 Cement for all Structural Works in these Bills of Quantities shall strictly be Grade 32.5</p> <p>3 Cement for Non-Structural Works in these Bills of Quantities shall be Grade 32.5</p> <p>4 All Reinforcement in these Bills of Quantities shall be to BS 4449:1997 with the following characteristic; a) Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm²; allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools;</p>				

<u>SUBSTRUCTURES (CONTD)</u>				
<u>Excavations & Earthworks</u>				
A	Excavate to remove top vegetation sou average 100mm deep; remove from site	m2	474	
B	Excavate to reduce levels, not exceeding 1.5 m deep from stripped level	m3	214	
C	Excavate for strip foundations not exceeding 1.5 m deep from reduced level	m3	86	
D	Ditto for Column Bases not exceeding 1.5 m deep from reduced level	m3	74	
E	Allow for keeping excavations free from water by baling or pumping as required including provision of drains, etc., as described	Item		
F	Allow for maintaining and supporting sides of excavations and for keeping free from fallen materials as described	Item		
<u>Disposal</u>				
G	Backfilling around foundations & columns	m3	98	
H	Load and cart away surplus spoil	m3	140	
<u>Imported filling</u>				
I	300mm Thick approved hardcore under floor bed well compacted	m2	474	
J	40mm Thick Murrum or quarry dust blinding to hardcore	m2	474	
<u>Carried to Collection</u>				Kshs.

SUBSTRUCTURES (CONTD)		
<u>Damp proof membrane as described :-</u>		
A	1000 Gauge polythene sheet dampproof membrane to horizontal surfaces	m2 474
<u>Anti-termite treatment</u>		
B	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to horizontal surfaces of the floor slab and around the plinth, e.t.c.	m2 474
<u>Concrete Class (1:3:6) in 50mm thick blinding under :-</u>		
C	Strip foundations for masonry walling	m2 74
D	Column bases	m2 78
<u>Vibrated reinforced concrete class 25 in:</u>		
E	Colum Bases	m3 16
F	Columns	m3 4
G	Strip foundations	m3 11
H	100 mm Thick slab	m2 474
I	Ground beame	m3 7
<u>Reinforcement</u>		
<u>Reinforcement to BS 4449:1997 with the following characteristic: a) Grade 460 B high strength type 2.</u>		
<u>Ribbed bars with proof stress of 460N/mm², allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools</u>		
J	8mm diameter bars	Kg 914
K	10mm diameter bars	Kg 810
L	12mm diameter bars	Kg 889
M	16mm diameter bars	Kg 924
<u>Carried to Collection</u>		Kshs.

<u>SUBSTRUCTURES (CONTD)</u>				
<u>Steel mesh fabric reinforcement to B.S. 4483</u>				
A	Ref. A142 Layer of fabric mesh reinforcement laid in bed with 150mm side and end laps	m2	474	
<u>Sawn formwork to:</u>				
B	Sides of column bases	m2	70	
C	Sides of column	m2	51	
D	Sides of strip foundations	m2	48	
E	Edges of floor beds 150 - 225mm high	m	110	
<u>Quarry dressed natural stone walling in cement sand mortar (1:3) with minimum crushing strength of 7.0 N/mm²</u>				
F	200mm Thick walling	m2	178	
<u>1000 Gauge polythene sheet damp proof course laid on and including cement sand (1:3) levelling screed</u>				
G	200mm Wide	m	191	
<u>Cement sand (1:4) render to :-</u>				
H	12mm Thick render to wall externally	m2	36	
<u>Prepare and apply two coats of bituminous paint to :-</u>				
I	Rendered walls externally	m2	36	
<u>Paving slab around the building</u>				
J	600x600x50mm thick precast concrete paving slabs bedded and jointed in cement and sand(1:4) mortar laid on and including 50mm thick sand bed	m2	65	
<u>Carried to Collection</u>				Kshs.
<u>COLLECTION</u>				
Page No. 2/2				
Page No. 2/3				
Page No. 2/4				
<u>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</u>				<u>KSHS.</u>

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF BROODING</u>					
	<u>UNIT</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO.2</u>					
	<u>RC SUPERSTRUCTURE</u>					
	Concrete Class 25mm in:-					
A	Columns	m3	10			
	Concrete Class 25mm in:-					
B	Ring beams	m3	9			
	<u>Reinforcement, as before described</u>					
C	8mm diameter bars	Kg	468			
D	10mm diameter bars	Kg	529			
E	12mm diameter bars	Kg	412			
F	16mm diameter bars	Kg	534			
	<u>Sawn formwork to :-</u>					
G	Vertical sides of columns	m2	158			
H	Sides and soffits of ringbeams	m2	114			
I	100mm diameter 3000mm high CHS Columns	m	148			
	<u>TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SUMMARY</u>					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
<u>PROPOSED CONSTRUCTION OF BROODING UNIT</u>						
<u>BILLS OF QUANTITIES</u>						
<u>SECTION NO. 2</u>						
<u>ELEMENT NO. 8</u>						
<u>ROOFING AND RAINWATER DISPOSAL</u> (All provisional)						
A	Prepainted Gauge 28 IT5 roofing sheet	m2	615			
B	Ditto to ridge cap	m	42			
Supply and fix steel roof square tubes.the contractor to allow for proper joints and connection as may be deemed necessary Structural steel						
C	75x75mm x4mm Z Purlins	m	626			
D	100x50mmx4mm rafters	m	258			
E	50x50mmx4mm struts and ties	m	340			
F	25mmx25mmx5mm Trusses	m	276			
G	75mmx100mm x5mm wall plate	m	192			
H	225mmx25mm Fascia board/barge board	m	177			
<u>Rainwater Disposal</u>						
I	100mmx150mmx4mm steel gutter	m	82			
J	150mm x 150mm prepainted gauge 24 galvanised iron rain water down pipe fixed onto walls with approved mild steel support brackets at 1,000mm centres	m	14			
<u>Carried to Collection</u>					Kshs.	
<u>COLLECTION</u>						
Page No. 2/1						
<u>TOTAL FOR ROOF CARRIED TO SUMMARY</u>					KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF BROODING UNIT					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO. 5					
	EXTERNAL WALLS					
	<u>Approved local natural stonework; squared and machine dressed; bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u>					
A	200mm Thick walls	m2	198			
B	Ditto Dwarf wall	m2	136			
	<u>Damp proof course</u>					
C	200mm wide	m	158			
	Grill works					
D	Permanent ventilation made of painted heavy gauge mesh wire with additional chicken wire	m2	174			
E	28gauge mabati to gable ends	m2	68			
	TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY				KSHS.	

BILLS OF QUANTITIES

SECTION NO. 2

ELEMENT NO. 6

INTERNAL WALLS

Approved local natural stonework, squared and machine-dressed bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course

A	200mm Thick walls	m2	158
B	200mm Wide	m	37

TOTAL FOR INTERNAL WALLS CARRIED TO SUMMARY

KSHS.

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF BROODING UNIT					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO. 7					
	WINDOWS					
	STEEL WINDOWS					
	Supply and fix the following purpose made casement windows comprising of 50 x 50 x 16 G and 25 mm "Z" section framing including all coupling mullions etc and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs ; bedding in cement and sand (1:3) mortar , pointing all round frames in mastic ,easing ,oiling and adjusting opening lights on completion, including 4 mm glazing; All as per the architect's Schedule of windows					
A	Size 2000x 1500 mm high	No.	2			
	Carried to Collection				Kshs.	

WINDOWS (CONT'D)				
<u>Precast concrete weathered and throated window cills</u>				
A	Window cill over all size 275 x 100 mm high with 3 No labour. Prepare and apply three coats gloss paint to;	m	6	
B	Windows	m2	12	
<u>Carried to Collection</u>				
<u>COLLECTION</u>				
Page No. 2/1				
Page No. 2/2				
<u>TOTAL FOR WINDOWS CARRIED TO SUMMARY</u>				
				KSHS.

<u>PROPOSED CONSTRUCTION OF BROODING UNIT</u>			
<u>BILLS OF QUANTITIES</u>			
<u>SECTION NO. 2</u>			
<u>ELEMENT NO. 8</u>			
DOORS			
<u>Flush Doors</u>			
<u>45mm Thick blockboard semi -solid core flush door with hardwood lipping</u>			
A	Size 900 x 2100 mm high door	No.	1
<u>Frames</u>			
<u>Sawn softwood frame</u>			
B	150 x 30 mm Thick frames with two labours	m	6
C	50x25mm architraves with two labours,plugged	m	6
D	25x24mm quadrant	m	6
<u>Steel Doors</u>			
<u>Suppl and fix steel casement door complete with fittings and accessories</u>			
E	Size 900 x 2400 mm high door	No.	2
<u>Carried to Collection</u>			Kshs.

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF BROODING UNIT</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 9</u>					
	<u>EXTERNAL FINISHES</u>					
	<u>Floor Finishes</u>					
	<u>Cement Sand (1:4) screed as described</u>					
A	40 mm Thick screed	m2	60			
	<u>Cement and sand (1:4) render</u>					
B	12 mm Thick plaster to masonry or concrete surfaces	m2	312			
	<u>Ramp</u>					
C	2000x2400mm Mass Concrete Ramp	No	2			
	<u>Painting and Decorating</u>					
	<u>Prepare and apply three coats internal quality matt emulsion paint to:-</u>					
D	Plastered wall surfaces	m2	312			
	<u>TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY</u>					
					KSHS.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	PROPOSED CONSTRUCTION OF BROODING UNIT					
	BILLS OF QUANTITIES					
	SECTION NO. 2					
	ELEMENT NO.10					
	INTERNAL FINISHES					
	Floor Finishes					
	<u>Cement Sand (1:4) screed as described</u>					
A	20 mm Thick finished to receive ceramic floor tiles	m2	454			
	<u>Supply and fix with and including Sika Ceramic 100g grey adhesive and grouting with Sika tile grout and pointing to match. Rate to include breakage and cutting waste</u>					
B	300 x 300 mm ceramic floor tiles in patterns as directed	m2	14			
C	100 mm Skirting tile cut out of tiles above	m	11			
	<u>Cement, sand, lime (1:2:9) in :-</u>					
D	12 mm Thick plaster to masonry or concrete surfaces	m2	486			
	<u>Carried to Collection</u>				Kshs.	

<u>Painting and Decorating</u>					
<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>					
A	Plastered wall surfaces	m2	486		
<u>Ceiling Finishes</u>					
<u>Chipboard ceiling</u>					
B	Chipboard ceiling	m2	14		
C	Provide and fix 50x50mm cornices	m2	112		
D	Branding size 75x50mm plugged	m2	137		
<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>					
E	soffits of chipboard	m2	14		
<u>Carried to Collection</u>				Kshs.	
<u>COLLECTION</u>					
Page No. 2/1					
Page No. 2/2					
<u>TOTAL FOR INTERNAL FINISHES CARRIED TO SUMMARY</u>				KSHS.	

ITEM NO.		SHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF BROODING UNIT</u>		
	<u>BILLS OF QUANTITIES</u>		
	<u>SECTION NO. 2</u>		
	<u>SUMMARY</u>	<u>PAGE NO.</u>	
1.	SUBSTRUCTURES	2/5	
2.	RC SUPERSTRUCTURE	2/6	
3.	ROOF	2/4	
4.	EXTERNAL WALLS	2/15	
5.	INTERNAL WALLS	2/16	
6.	WINDOWS	2/18	
7.	DOORS	2/20	
8.	EXTERNAL FINISHES	2/22	
9.	INTERNAL FINISHES	2/24	
	<u>TOTAL CARRIED TO MAIN SUMMARY</u>	<u>KSHS.</u>	

ITEM NO.		SHS.	CTS.
	<u>PROPOSED CONSTRUCTION OF BROODING UNIT</u>		
	<u>MAIN SUMMARY</u>	<u>PAGE NO.</u>	
1.	PRELIMINARIES	1/26	
2.	BUILDERS WORKS	2/25	
3.	PROVISIONAL SUMS	3/1	
	SUB-TOTAL		
	ADD 16% VAT		
	<u>TOTAL CARRIED TO FORM OF TENDER</u>	KSHS.	

Item	Description	Qty	Unit	Rate	Amount
<u>PROPOSED CHAINLINK FENCE ON PLOT LR NO. FOR DEPARTMENT OF AGRICULTURE AND TRADE FENCING</u>					
A	2.1 high 16 gauge chainlink with 18 gauge x 6 strands straining galvanized barbed wire fencing with 100 dia (100*100) concrete posts, mass concrete 1:3:6 including all excavation in all materials, backfilling, disposal, formwork all inclusive.	698	LM		
B	Extra over ditto for end posts with diagonal braces	18	NO		
C	Ditto corner posts	16	NO		
D	Ditto intermediate posts	31	NO		
<u>GATES</u>					
E	Double leaf metal gate overall size 6000mm x2100 mm high comprising 75mmx50mm R,H,S framing all round,divided by 2NO 75x50mm mullion	3	NO		
F	Single leaf metal gate overall size 1200mm x2100 mm high comprising 75mmx50mm R,H,S framing all round,divided by 2NO 75x50mm mullion	2	NO		
G	400x200x3000mm high RC Column	6	NO		
<u>(2.0) SUPERSTRUCTURE</u>					
<u>(2.1) WALLING</u>					
<u>Approved fine dressed stone walling with zero vertical joint bedded and jointed in cement and sand (1:3) mortar with and including 25 mm thick hoop iron in:-</u>					
H	200 mm thick	52	SM		
<u>(3.1) WALL FINISH</u>					
<u>Cement and sand (1:4) plaster as described in:-</u>					
I	12 mm thick to Wall surfaces	114	SM		
Total carried to collection					

Item	Description	Qty	Unit	Rate	Amount
SECTION No. 9- PRIME COST AND PROVISIONAL SUMS					
A	Provide a prime cost sum of Kenya Shillings three Hundred a thousand(Kshs. 200,000.00) for Contingencies	1	Item	200,000	200,000.00
B	Provide a prime cost sum of Kenya Shillings one Hundred a thousand (Kshs. 100,000.00) for Project management	1	Item	100,000	100,000
C	Provide a prime cost sum of Kenya Shillings Five Hundred a thousand(Kshs. 500,000.00) for provision of live wire around the fence	1	Item	500,000	500,000.00
SECTION NO. 5 PROVISIONAL AND PRIME COST					Carried to Main summary
					600,000.00

PROPOSED CHAINLINK FOR DEPARTMENT OF AGRICULTURE				
GRAND SUMMARY			Page	Amount
1	PRELIMINARIES		1/17	
2	CHAINLINK FENCE		7/5	
3	PRIME COST AND PROVISIONAL SUMS		9/1	
		Sub-Total	Kshs.	
		Add 16% VAT	Kshs.	
TOTAL COST CARRIED TO SUMMARY			KSHS.	

2 DOORS ABLUTION BLOCK AND 1NO SEPTIC TANK FOR DEPARTMENT OF AGRICULTURE.					
ITEM		QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 1				
	SUBSTRUCTURES				
	(ALL PROVISIONAL)				
	<u>Site Clearance</u>				
A	Clear site of small bushes and grub roots of small trees and cart away	20	SM		
	<u>Excavations</u>				
B	Excavate to remove top vegetable soil and cut away from site depth 300mm	20	SM		
C	Excavate foundation trenches n.e 1.5m deep from stripped level	29	CM		
	Disposal of excavated materials				
D	Return fill and ram	17	CM		
E	Load cart away	28	CM		
	<u>Damp Proof Membrane</u>				
F	Single layer of 1000 gauge polythene sheeting laid on blinded hardcore with 300 mm side and end laps to receive concrete	20	SM		
	<u>Anti - termite treatment</u>				
G	Treat surface of blinding with 'Dieldrin' or similar approved ant-termitic solution applied strictly in accordance with the manufacturer's instructions	20	SM		
	Total				

Concrete work			
<u>Plain concrete (1:4:8) in :-</u>			
A	50mm Blinding to strip foundation.	16	SM
<u>Vibrated Reinforced concrete class 20 in :-</u>			
B	200mm Thick Strip footing	4	CM
C	150mm Thick Bed	20	SM
D	100mm thick suspended slab	4	SM
<u>Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting spacers and supporting all in position</u>			
<u>High yield square twisted bar reinforcement to B.S. 4661 :-</u>			
E	12mm diameter bars	142	KG
F	10mm diameter bars	168	KG
G	8mm diameter bars	105	KG
<u>Steel fabric mesh reinforcement to B.S. 4483</u>			
<u>Sawn formwork to:</u>			
H	Vertical sides of strip footing girth 225mm-300mm	18	LM
I	Sides and soffits of slab	4	SM
Walling			
<u>Hard dressed natural quarry stone walling bedded and jointed in cement and sand (1:4) mortar with recessed vertical and horizontal joints externally to match existing</u>			
J	150mm Thick foundation walling	28	SM
<u>Cement/sand (1:3)</u>			
K	12mm Thick external rendering to plinth surfaces finished smooth with a wood float	7	SM
L	Prepare and apply two coats of bituminous paint to rendered surfaces externally	7	SM
Total			
Page 1			
Page 2			
Carried to Collection			

<u>ELEMENT NO. 2</u>			
<u>WALLING</u>			
Hard dressed natural quarry stone walling bedded and jointed in cement and sand (1:4) mortar with recessed vertical and horizontal joints externally to match existing			
External walling			
A	150mm Thick walling	28	SM
Internal walling			
B	150mm Thick walling	18	SM
<u>Approved hessian based damp proof course</u>			
C	200mm Wide	16	LM
Total to Summary			

ELEMENT NO. 3				
ROOFING AND RAINWATER DISPOSAL				
(All provisional)				
Sawn cypress: second grade: clean: pre-treated with wood preservative to engineers approval: including jointing and connections as necessary				
A	IT5 Gauge 30 roofing sheet	31	SM	
B	Ditto to ridge cap	4	LM	
C	75 x 50mm purlins	42	LM	
D	150 x 50 mm Rafter	31	LM	
E	200 x 25 mm Fascia board complete with tie member on the ring beam	11	LM	
F	Prepare surfaces: and apply undercoat and two finishing coats first grade gloss enamel paint as "Crown Paints" or other equal approved: on wooden surfaces: to Fascia and barge boards: surfaces over 200 but not exceeding 300 mm girth			
G	100 x 50 mm Wall plate	11	LM	
Carried to Collection				
ELEMENT NO. 4				
DOORS/WINDOWS				
External Doors				
<u>Supply and fix solid core flush door complete with frame and fittings</u>				
A	Door size 900mm x 2100mm	2	NO	
<u>Prepare surface and apply one undercoat and two finishing coats of exterior quality elastic emulsion paint to:</u>				
B	Doors	9	SM	
C	Door size 1000mm x 2400mm Grile doors	1	NO	
<u>Supply and fix steel casement window complete with fittings</u>				
D	Window size 500mm x 600mm	2	NO	
E	225x50mm precast concrete window cill	3	M	
Total to Summary				

<u>ELEMENT NO. 5</u>				
<u>EXTERNAL WALL FINISHES</u>				
F	Keying to surface	31	SM	
RAMP				
G	Allow for construction of concrete Ramp size 1400x1200mm including excavation,concrete in foundation,finished rough on top and sides plastered and painted	2	No	
Total to Summary				

<u>ELEMENT NO. 6</u>				
<u>INTERNAL WALL FINISHES</u>				
<u>15mm thick gauged lime plaster (1:2:9) as described to:-</u>				
A	Sides of walls	54	SM	
<u>PAINTING AND DECORATING</u>				
<u>Prepare and apply three coats interior quality vinyl matt emulsion paint to:-</u>				
B	Plastered walls	54	SM	
Total to Summary				
<u>ELEMENT NO. 7</u>				
<u>FLOOR FINISHES</u>				
<u>Cement and sand (1:4) screed as described in:-</u>				
C	32mm Thick screed to floor finish	20	SM	
<u>Ceramic floor tiles</u>				
D	300x300mm thick ceramic floor tiles	20	SM	
<u>Cement and sand (1:4) screed as described in:-</u>				
E	10mm Thick backing to receive wall tile	15	SM	
<u>Ceramic wall tiles</u>				
F	300x300mm thick ceramic floor tiles	15	SM	
<u>ELEMENT NO. 8</u>				
G	3000 Litres plastic water tank	2	NO	
H	Provide and fix Ceramic Wash hand basin complete with fittings	2	NO	
Total to Summary				

SUMMARY				
1	SUBSTRUCTURES	From page		
2	WALLING			
3	ROOFING AND RAINWATER DISPOSAL			
4	DOORS/WINDOWS			
5	EXTERNAL WALL FINISHES			
6	INTERNAL WALL FINISHES			
7	FLOOR/CEILING FINISHES			
TOTAL				
GRAND TOTAL INCLUSIVE 16% VAT CARRIED TO FORM OF TENDER				

2 DOORS ABLUTION BLOCK AND 1NO SEPTIC TANK FOR DEPARTMENT OF AGRICULTURE- KISUMU.					
ITEM NO.	DESCRIPTION	UNIT	QTY.	KSHS.	AMOUNT
	<u>BILLS OF QUANTITIES</u>				
	<u>SECTION NO. 3</u>				
	<u>PRIME COST AND PROVISIONAL SUMS</u>				
	<u>PRIME COST SUMS</u>				
A	Allow the Prime Cost Sum of Kenya Shillings Fifty Thousand for Electrical Works ,		Sum		50,000
B	Allow the Prime Cost Sum of Kenya Shillings One Hundred Thousand for Contingencies		Sum		100,000.00
C	Allow the Prime Cost Sum of Kenya Shillings Seventy Thousand for Plumbing works		Sum		70,000.00
D	Allow the Prime Cost Sum of Kenya Shillings Fifty Thousand for Connection works		Sum		50,000.00
E	Allow the Prime Cost Sum of Kenya Shillings Eight Hundred thousand for 1No Septic Tank		Sum		800,000.00
	<u>TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO SUMMARY</u>			KSHS.	1,070,000

2 DOORS ABLUTION BLOCK AND 1NO SEPTIC TANK FOR DEPARTMENT OF AGRICULTURE- KISUMU.					
ITEM NO.			SHS.	CTS.	AMOUNT
	<u>MAIN SUMMARY</u>	<u>PAGE NO.</u>			
1	BUILDER'S WORKS	2/18			
2	PROVISIONAL SUMS	3/1			
	<u>TOTAL CARRIED TO FORM OF TENDER</u>	<u>KSHS.</u>			

Item	Description	Unit	Qty	Rate	Amount (SHS)
PROPOSED ELEVATED WATER TANK AND BOREHOLE ON PLOT LR NO.					
FOR DEPARTMENT OF AGRICULTURE.					
SECTION NO. 3 - 1 NO. ELEVATED WATER TANK					
ELEMENT NO. 1					
<i>Excavation:</i>					
A	Excavate for column bases not exceeding 1.5m deep	CM	18		
B	Vibrated reinforced concrete in stub columns and column base	CM	3		
C	<i>Assorted reinforcement in columns and column bases</i>	KG	300		
ELEVATED WATER TANKS					
Supply,delivery and installation of the following items as specified complete with all necessary supports,ittings and accessories.all to satisfaction of the Engineer					
D	10,000 Litres (2200 gallons) capacity cylindrical plastic water storage tank on a galvanized tank dimension 3390x2540 mm height complete with cover and having screwed connections for inlet (50mm),outlets (80mm),overflow (65mm) and 25mm drain.Allow for the connection fittings to/from the tank.the tanks to be "Roto"or approved equivalent-Raw water from the bore hole	NO	2		
E	5000 litres (1100 gallons) capacity cylindrical plastic water storage tank in roof space tank dimension 1600 x1360mm height complete with cover and having screwed connections for inlet (32mm) outlets (40mm),overflow(50mm) and (25mm) drain. Allow for connection fittings to/from the tank.the tank to be "Roto" or approved equivalent -Rain water collected from the gutters	NO	1		
F	Water level indicator	NO	1		
G	Steel tower of height approximately 6m to support the above water tank (A). complete with a 4600 x 4600 x 6mm thick chequered steel plates platform,ladder and protection cage.Allow for two coats of red oxide paint.	NO	1		
Carried to Collection					
Page 7 / 1					

ASSOCIATED PIPEWORK					
Supply,delivery and install galvanized mild steel pipes to BS 1387 Class "B"with screwed and socketed joints to BS 143 and BS1256 and of approved manufacture with galvanizing to BS 729.Tenderers must allow in their pipework prices for all couplings,unions,connectors,joints,holder bats,reducers etc as required in the running lengths of pipework and also where necessary for pipe fixing clips,plugged and screwed.					
A	80mm diameter GMS pipe	LM	15		
B	50mm diameter GMS pipe	LM	27		
Gate Valves;					
C	80mm diameter non-rising slow full way high pressure flanged gate valve with wheel and jointing to tubing	NO	1		
D	Ditto but 50mm dia	NO	2		
Non-return Valves;					
E	32mm diameter flanged non*return valve	NO	1		
Unions;					
F	80mm diameter union	NO	1		
G	50mm diameter union	NO	2		
<u>Bend/Elbow</u>					
H	80mm diameter Bend/Elbow	NO	4		
I	50mm diameter Bend/Elbow	NO	6		
Tees;					
J	80mm diameter equal tee	NO	1		
K	50mm diameter equal tee	NO	2		
L	80 x 80 x65mm tee	NO	1		
Carried to Collection					
Page 7 / 2					

	Reducers;				
A	85 x 50mm reducer	NO	1		
	Excavation;				
B	Excavate trench on rocky ground from ground level for water supply pipes not exceeding 900mm wide and average 600mm deep,part return,fill in,ram and remainder cart away,Allow for pipe bedding materials	LM	18		
	Pressurization pump set-1/4" filtered bore hole water to the elevated PVC tank				
C	Set of automatic electrically driven twin booster pump,one duty and the other one alternate with automatic changeover,capacity of delivering 6m3 per hour against a head of 20 metres with a single phase power sources,the pumps set shall be complete with adjustable electric water level float switch suitably wired to turn on the pump whenever the elevated tank is half full and including all the accessories required for the proper and satisfactory operation	SET	1		
	CONTROL AND CONTROL PANEL;				
D	Control panel for the above pump with contactors, over voltage and under voltage protection relays,MCBs phase failure protection,timer,start/stop push button and indicator lights. All these shall be housed in a lockable cabinet (with integrated isolator) made from SWG 18 mild steel sheet that is even powder coated,the control panel to be wired and programmed to control the adjustable electric water level float switch such that it turn on the pump whenever the elevated tank is half full,there shall also be an adjustable time delay switch to ensure pumping cycles are control to not more than 6 per hour	SET	1		
	Carried to Collection				
	<u>COLLECTION</u>				
	From Page 7/1				
	From Page 7/2				
	From above				
	ELEMENT NO. 1				
	SUBSTRUCTURES				
	Carried to Main Summary				
	Page 7/3				

**PROPOSED ELEVATED WATER TANK AND BOREHOLE ON PLOT LR NO.
FOR DEPARTMENT OF AGRICULTURE.**

SECTION NO. 3 - 1 NO. ELEVATED WATER TANK

ELEMENT NO. 7

A	Booster pumps low level float switch cut out adequately wired in such amanner that it prevent pumps from running dry.	NO	1	
B	Electrical works	ITEM	1	
	Testing and Commissioning;			
C	Allow for setting to work,testing and commissioning of the work	SUM	1	
	Carried to Collection			
	Page 7/4			

**PROPOSED ELEVATED WATER TANK AND BOREHOLE ON PLOT LR NO.
FOR DEPARTMENT OF AGRICULTURE.**

MAIN SUMMARY FOR ELEVATED WATER TANK

1 From page

PAGE

7/3

2 From page

7/5

SECTION NO. 7

TOTAL AMOUNT FOR WATER TANK. CARRIED TO THE GRAND SUMMARY

SHS

PROPOSED ELEVATED WATER TANK AND BOREHOLE ON PLOT I.R. NO. FOR DEPARTMENT OF AGRICULTURE.			
SECTION No. 9- PRIME COST AND PROVISIONAL SUMS			
A	Provide a prime cost sum of Kenya Shillings two Hundred thousand (Kshs. 200,000.00) for Contingencies	Item	200,000.00
B	Provide a prime cost sum of Kenya Shillings One Hundred thousand (Kshs. 100,000.00) for Project Management	Item	100,000.00
C	Provide a prime cost sum of Kenya Shillings Two Million (Kshs. 2,000,000.00) for Borehole Drilling and Equipping-200M depth	Item	2,000,000.00
SECTION NO. 5			
PROVISIONAL AND PRIME COST			
Carried to Main summary		Kshs.	2,300,000.00

**PROPOSED ELEVATED WATER TANK AND BOREHOLE ON PLOT LR NO
FOR DEPARTMENT OF AGRICULTURE**

GRAND SUMMARY		Page	Amount
1	PRELIMINARIES	1/17	
1	ELEVATED WATER TANK	7/5	
2	PRIME COST AND PROVISIONAL SUMS	9/1	
	Sub-Total	Kshs.	
	Add 16% VAT	Kshs.	
TOTAL COST OF TENDER CARRIED TO FORM OF TENDER		KSHS.	

ITEM NO.			AMOUNT (KSHS)	CTS.
	<u>PROPOSED KISUMU POULTRY HATCHERY AND INCUBATION CENTER</u>			
	<u>MAIN SUMMARY</u>	<u>PAGE NO.</u>		
1	PRELIMINARY	1/13		
2	PARENT STOCK UNIT. 1	2/25		
3	PARENT STOCK UNIT.2	2/25		
4	BROODING UNIT	2/25		
5	BOUNDARY WALL AND CHAINLINK FENCE	2/21		
6	2 DOORS ABLUTION BLOCK AND 1NO SEPTIC T	2/17		
7	ELEVATED WATER TOWER	2/14		
	<u>TOTAL CARRIED TO FORM OF TENDER</u>	KSHS.		

EMPLOYER:

CONTRACTOR

NAME:

NAME:

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ADDRESS:

ADDRESS:

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SIGNATURE:

SIGNATURE:

DATE:

DATE: