



REPUBLIC OF KENYA
COUNTY GOVERNMENT OF LAIKIPIA



DEPARTMENT OF INFRASTRUCTURE, ROADS AND PUBLIC WORKS

BILL OF QUANTITIES

FOR

PROPOSED CONSTRUCTION OF KWA WANJIKU DISPENSARY

Co-ordinates 0.154968N,36.366927

IN

MARMANET WARD

LAIKIPIA COUNTY

PREPARED BY

**COUNTY QUANTITY SURVEYOR
DIRECTORATE OF PUBLIC WORKS**

ISSUED BY

**COUNTY WORKS OFFICER
DIRECTORATE OF PUBLIC WORKS**

MAY 2026

ITEM	DESCRIPTION	KSHS
<p>A</p>	<p><u>PARTICULAR PRELIMINARIES</u></p> <p>PRICING ITEMS OF PRELIMINARIES</p> <p>Prices SHALL BE INSERTED against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The contractor is advised to read and understand all preliminary items. In the event that an item is not priced the cost is deemed to be included in the measured works/Bills of Quantities.</p> <p>This is a FULL contract and the prices inserted against the various items shall be for all expenses required for the proper execution of the works.</p>	
<p>B</p>	<p>DESCRIPTION OF THE WORKS</p> <p>The works to be carried out under this contract involves Construction work</p>	
<p>C</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>D</p>	<p>LOCATION OF SITE</p> <p>The site for the proposed works is at Kwa Wanjiku centre Marmanet wardThe Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor’s failure to do so will be entertained.</p>	
	<p><i>Carried to collection</i></p>	

<p>A</p>	<p>TENDER VALIDITY PERIOD Clause 3.6 of the Instructions to Tenderers has been amended to read; Tenders shall remain valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening, and not Ninety (90) days.</p> <p>All Tenderers are advised to note this amendment when filling the Form of Tender</p> <p>B</p> <p>TENDER SECURITY (N/A) Bid bond/Tender security, which must be from an established bank or insurance company shall remain valid for a period of One Hundred and Fifty (150) days from the date of Tender Opening i.e. Thirty (30) days beyond the Tender Validity Period.</p> <p>C</p> <p>DEMOLITIONS AND ALTERATIONS 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 loss or damage made good 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><i>Carried to collection</i></p>	

<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p>	<p>CLEARING AWAY CTD... 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 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 contact period.</p> <p>PAYMENTS The tenderer's attention is drawn to the fact that the GOVERNMENT DOES 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 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 deemes necessary by taking such care within the site.</p> <p>WORKING CONDITIONS The Contractor shall allow in his rates for any interfrance 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 station will be operating as usual during the course of the contract.</p> <p>SIGNBOARD 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><i>Carried to collection</i></p>	

<p>A</p> <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> <p>B</p> <p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become the property of the Government of Kenya.</p> <p>C</p> <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> <p>D</p> <p>SECURITY</p> <p>The Contractor shall allow for providing adequate security for the works and the workers in the course of execution of this contract. No claim will be entertained from the Contractor for not maintaining adequate security for both the works and workers.</p> <p>E</p> <p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “ works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.</p> <p>F</p> <p>PAYMENT FOR MATERIALS ON SITE</p> <p>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>G</p> <p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>		
	<i>Carried to collection</i>	

<p>A</p>	<p>CONTRACT COMPLETION PERIOD</p> <p>The contract completion period in accordance with condition 31 of the Conditions of contract must be 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 .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> <p>B</p> <p>PERFORMANCE BOND</p> <p>A bond of 5 % of the contract sum will be required in accordance with clause 6.00 on award of contract of the Instructions to Tenderer’s. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.</p> <p>C</p> <p>TENDER DOCUMENTS</p> <p>Tender documents are as listed in Clause 2.1 of the Instruction to Tenderer’s Page STD/8</p> <p>D</p> <p>DELIVERY OF TENDER</p> <p>Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the invitation to tender.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the invitation to tender. Tenders delivered/received later than the above time will not be opened.</p>	
	<p><i>Carried to collection</i></p>	
<p>A</p>	<p>VALUE ADDED TAX</p>	

The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for VAT and any other Government taxes currently in force.

NB:V.A.T. shall not be included in the rates but shall be given as a percentage in the grand summary page.

SPECIAL PLERIMINARIES

PROJECT MANAGERS EXPENSES

B	Provide a provisional sum of Kenya Shillings One Hundred and Fifty Thousand Shillings (Ksh 150,000) only for project manager supervisory expenses and project implementation committee	150,000.00
C	Allow for Contractor's profit and overheads(.....%)	
D	Allow for branding and labelling as per county colours with the wording 'FUNDED BY COUNTY GOVERNMENT OF LAIKIPIA FY/25-26'	

Carried to collection

A PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT

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

Period of Final Measurement; 3 Months From Practical Completion

Defects Liability Period; 6 Months from Practical Completion

Date for Possession; To be agreed with the Project Manager

Date for Completion; 12Weeks from date of Possession

Liquidated and Ascertained damages;At the rate of Kshs **5,000**per week or part thereof

Prime cost sums for which
The Contractor desires to tender

Period of Interim Certificates Monthly

Period of Honouring Certificates 30 days

Percentage of Certified Value Retained 10%

Limit of Retention Fund 10%

Carried to collection

COLLECTION

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TOTAL FOR PARTICULAR PRELIMINARIES TO GRAND SUMMARY

		GENERAL PRELIMINARIES
A		PRICING ITEMS OF PRELIMINARIES AND PREAMBLES
		Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.
		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. Value Added Tax (V.A.T.) shall not be included in the individual prices but shall be given as a percentage in the grand summary page.
B		ABBREVIATIONS
		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.
	C.M.	Shall mean cubic metre
	S.M.	Shall mean square metre
	L.M.	Shall mean linear metre
	MM	Shall mean Millimetre
	Kg.	Shall mean Kilogramme
	No.	Shall mean Number
	Prs.	Shall mean Pairs
		B.S. - Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.
		Ditto - Shall mean the whole of the preceding description except as qualified in the description in which it occurs.
	m.s.	Shall mean measured separately.
	a.b.d	Shall mean as before described.
C		EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT
		Attendance ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-
		Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.
		"Fix Only" 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.
		Total to collection

A	FORM OF CONTRACT	
	The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Building Works (2021 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 18 to 38 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	
B	BOND.	
	The Contractor shall find and submit on the Form of Tender and approved bank and who will be willing to be bound the county 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.	
C	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.	
D	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.	
E	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 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.	
F	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	
	Total to collection	

A	PUBLIC AND PRIVATE ROADS.	
	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	
B	EXISTING PROPERTY.	
	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	
C	VISIT SITE AND EXAMINE DRAWINGS.	
	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.	
D	ACCESS TO SITE AND TEMPORARY ROADS.	
	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 70 metres long) for the transport of the materials, plant and workmen as may be required for the complete execution of the works including 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, culverts, bridges, etc. and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER.	
E	AREA TO BE OCCUPIED BY THE CONTRACTOR	
	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	
F	OFFICE ETC. FOR THE PROJECT MANAGER	
	The contractor shall provide, erect and maintain where directed on site and afterwards dismantle a site office of the type noted in the particular preliminaries or as directed by the PROJECT MANAGER, 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.	
		Total to collection

<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p>	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS 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 OF THE WORKS 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> <p>SUPERVISION AND WORKING HOURS 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. The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement mentioned in Condition No. 16 of the conditions of Contract. Such sums are net and no addition shall be made to them for profit.</p> <p>PRIME COST (OR P.C.) SUMS. 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 mentioned in Condition No. 16 of the conditions of Contract. Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 20 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p> <p>PROGRESS CHART. 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><i>Total to collection</i></p>	

<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p> <p>F</p>	<p>ADJUSTMENT OF P.C. SUMS. 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> <p>ADJUSTMENT OF P.C. SUMS. Ctd..... 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. In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 13 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work 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 When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No. 20 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p> <p>DIRECT CONTRACTS 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> <p>ATTENDANCE UPON OTHER TRADESMEN, ETC. 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>	
	<i>Total to collection</i>	

<p>A</p> <p>B</p> <p>C</p> <p>D</p> <p>E</p>	<p>INSURANCE 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> <p>PROVISIONAL WORK 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. 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> <p>BLASTING OPERATIONS 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><i>Total to collection</i></p>	

A	<p>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>	
B	<p>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>C 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>D 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, 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>E 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.</p> <p>F 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> <p>G HOARDING</p> <p>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 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>	
	<p><i>Total to collection</i></p>	

A	<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>	
	<i>Total to collection</i>	

	<p><u>COLLECTION</u></p> <p>Brought forward from page 9</p> <p>Brought forward from page 10</p> <p>Brought forward from page 11</p> <p>Brought forward from page 12</p> <p>Brought forward from page 13</p> <p>Brought forward from page 14</p> <p>Brought forward from page 15</p> <p>Brought forward from page 16</p> <p>Brought forward from page 17</p> <p>Brought forward from Above</p>	
	TOTAL FOR GENERAL PRELIMINARIES TO GRAND SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PROPOSED CONSTRUCTION OF KWA WANJIKU DISPENSARY-LAIKIPIA COUNTY ELEMENT NO.1 SUBSTRUCTURES EARTHWORKS</u>				
A	Excavate oversite average 150mm deep and cart away as directed	160	sm		
B	Excavate oversite to reduce levels commencing from stripped level not exceeding 1.50meters deep cart and spread 100metre away	48	cm		
C	Excavate trenches for strip foundation not exceeding 1.5metres for reduced level	66	cm		
D	Excavate for column bases	1	cm		
E	Extra over excavation from rock in any position	5	cm		
F	Selected imported materials filling making up levels around foundation ,spread levelled,well rammed and considilated in 150mm layers	34	cm		
G	Load and cart away excavated materials from site	67	cm		
	<u>Diposal of water</u>				
H	Keeping all excavations free from all water including spring or running water		Item		
	<u>Planking and strutting</u>				
J	Uphold the sides of all excavations		Item		
K	Hardcore filling in making up levels, exceeding 300mm thick in layers of 150mm maximum thickness.	34	cm		
L	50 mm selected fine material to hardcore surfaces, well rolled and leveled to receive concrete	112	sm		
M	Apply "Termidor" or any other similar and approved anti termite chemical treatment on blinded surfaces.	112	sm		
L	500 gauge polythene sheeting with sides and end laps as described laid on blinded surfaces	112	sm		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Plain concrete (1:4:8) in</u> 50mm Thick blinding to strip foundation	64	sm		
B	<u>Vibrated reinforced concrete grade 20/20 (1:2:4) in:</u> Strip footing irrespective of depth	13	cm		
C	Column bases	1	cm		
D	Column	1	cm		
E	150mm Thick ground bed/Ramp	140	sm		
F	Ramp	7	sm		
	<u>Sawn formwork to:</u>				
G	Sides of strip footing	44	sm		
H	Sides of column bases	4	sm		
J	Vertical sides of column	4	sm		
K	Edges of floor bed 75 - 150mm high	58	lm		
	<u>Steel reinforcement as described including cutting to length, bending and fixing including all necessary tying wires and spacing blocks (all provisional)</u>				
L	12mm diameter bars	120	Kg		
M	10mm diameter bar	276	Kg		
N	8mm diameter bar	181	Kg		
	<u>Steel fabric mesh reinforcement to B.S. 4483</u>				
P	No. A 142 fabric weighing 2.22Kg/sm fixed in bed	140	sm		
	<u>Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.</u>				
Q	200mm Thick walling	160	sm		
R	Extra walling in 400x200x1200mm high mason pier	18	No		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT		
	<u>Plinths</u>				
A	12mm thick cement and sand (1:3) render to plinths	26	sm		
B	Prepare and apply three coats bituminous paint to rendered plinths	26	sm		
	<u>Paving Slabs around building</u>				
C	600 x 600 x 50mm thick precast concrete paving slabs bedded and jointed in cement and sand (1:4) mortar laid on and including 50mm thick sand bed	35	sm		
	Carried to Collection				
	<u>COLLECTION</u>				
	FROM PAGE /19				
	FROM PAGE /20				
	FROM ABOVE				
	TOTAL FOR SUBSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 2</u>				
	<u>FRAME</u>				
	<u>Vibrated reinforced concrete grade 20/20 (1:2:4) in:</u>				
A	Columns	1	cm		
B	Beams	7	cm		
	<u>Sawn formwork to:</u>				
C	Sides and soffites of beams	90	sm		
D	Sides of Column	6	sm		
	<u>Steel reinforcement as described including cutting to length, bending, hoisting and fixing including all necessary tying wires and spacing blocks (all provisional)</u>				
E	8mm Diameter bars	274	Kg		
F	12mm Ditto	504	Kg		
	TOTAL FOR FRAME CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
A	200 mm wide approved quality 3-ply bituminous felt damp proof course under walls	108	lm		
	<u>Machine dressed natural stone walling from approved quarry in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
B	200mm Thick walling externally	198	sm		
C	Extra over walling in 400x400x2700mm high mason pier	12	No		
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.4</u>				
	<u>ROOFING</u>				
	<u>prepainted sheets; 28gauge; prepainted</u>				
A	Roof covering; 150mm laps on one end and one and a half corrugation side lap; fixed to angle section purlins with and including J-bolts, nut and neoprene washers.	194	sm		
B	150mm dia. Half round ridge cap/valleys	25	lm		
	<u>The following in pressure impregnated first grade cypress timber</u>				
C	100 x 50mm Rafters	118	lm		
D	Ditto common rafters	54	lm		
E	Ditto tie beams	86	lm		
F	Ditto king post	18	lm		
G	75x50 50mm struts and ties	160	lm		
H	75x50mm Purlins	234	lm		
I	100 x 50 mm wall plate bolted to wall with and including 12mm diameter bolts 60mm long at 1000mm centres	61	lm		
J	Bore hole in 50mm thick timber for 12mm diameter bolts	30	No		
K	Make mortice in reinforced concrete for 12mm diameter bolts	30	No		
L	200mmlong bolts and nut	30	No		
	<u>Eaves</u>				
M	25 x 100mm Tongue & Grooved boarding secret nailed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centres	52	sm		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Fascia Board</u>				
A	225 x 25 mm thick wrot cypress fascia /barge boards fixed to end of rafters (m/s)	69	lm		
	<u>Rain water goods</u>				
	<u>Heavy duty upvc gutters and down pipe as classic or equal and approved</u>				
B	160mm half round diameter gutter fixed to fascia boards (m/s) with and including approved brackets at 1000mm centres	66	lm		
C	Extra over gutter for stopped ends	4	No		
D	Ditto but for 100 mm diameter outlet	4	No		
	<u>Downpipe</u>				
E	75mm diameter upvc downpipe fixed to wall with and including holder butts at 1000mm centres	12	lm		
F	Extra over downpipe for swanneck 1200mm long	4	No		
G	Ditto horse shoe 300 mm long	4	No		
	<u>Decoration and painting</u>				
	<u>Knot, stain prepare and apply three coats oil gloss paint to:</u>				
H	Fascias; 200 to 300mm girth; external	69	lm		
J	Surfaces of eaves; over 300mm girth external	52	sm		
	Carried to Collection				
	<u>COLLECTION</u>				
	FROM PAGE 24				
	FROM ABOVE				
	TOTAL FOR ROOFING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.5</u>				
	<u>DOORS</u>				
	<u>Mild steel Doors</u>				
A	900 x 2400mm high mild steel pannel door comprising of 3 No. Size 300 x 800mm high and 3No. Size 300 x 450mm high including 900 x 200mm and 900 x 300mm high double plates complete with 50x 50 x 3mm RHS framing and metal lugs including purpose made hanging and locking accessories once primed with red oxide primer before delivery to the site including three lever mortice steel lock as per 'Union' Ref 2277 or other equal and approved manufacturer.	8	No		
	<u>4mm Thick one way glass and glazing fixed with and including putty to steel windows</u>				
B	Panes 0.1 - 0.5 square metres	3	sm		
	<u>Flush door</u>				
	50mm thick solid core standard flush door faced both sides with mahogany veneer and hardwood lipped all round in:				
C	Single leaf door; size 900 x 2100mm high comprising of 900 x 2100 mm high openable leaf faced both side with mahogany veneer and hardwood lipping	5	No		
	<u>Frames & Finishings</u>				
	<u>Wrot softwood</u>				
D	150mm x 50mm Frame with two labours plugged	33	lm		
E	45 x 38mm architrave	33	lm		
F	25mm diameter quadrant	33	lm		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Supply and fix the following ironmongery with screws to match.</u>				
A	2 Lever mortice lock and set furniture Ref.Union 2295.	5	No		
B	100mm Brass butts hinges	5	Prs		
C	40mm Diameter rubber door stops	13	No		
	<u>Fanlight Glazing</u>				
D	4mm Thick clear glass and glazing fixed with and including timber beading all round ; size 850 x 250mm high	5	No		
	<u>Painting</u>				
A	Prepare and apply three coats wood preservative primer to backs of timber frame not exceeding 100mm girth	33	lm		
	<u>Prepare and apply three coats of premium quality clear varnish as "Basco Paints - Duracoat" or "Crown Paints" to</u>				
B	General surfaces of flush door	18	sm		
C	Surfaces between 200mm to 300mm girth	66	lm		
D	Ditto between 100mm to 200mm girth	33	lm		
	<u>Prepare and apply three coats gloss oil paint to:</u>				
F	General surfaces of metal	39	sm		
	Carried to Collection				
	<u>COLLECTION</u> FROM PAGE 26 FROM ABOVE				
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.6</u>				
	<u>WINDOWS</u>				
A	250 x 25mm Precast concrete window cill bedded and jointed with cement and sand (1:3) mortar <u>Supply & fix the following purpose made steel casement window fabricated from standard sections complete with frames, mullions and transomes including all necessary locking and window stays, screws and nuts once shop primed before delivery to site</u>	34	lm		
B	Steel casement window size 1200 x 1200mm high.	11	No		
C	Steel casement window size 600 x 600mm high. <u>Burglar proofing.</u>	2	No		
D	Overall size 1200 x 1200mm high comprising of 25 x 25x2mm shc mild steel welded at 125mm centres <u>Curtain rods</u>	17	sm		
E	Premium quality chrome plated double line curtain rods complete with all accessories to the architect approval <u>Glazing</u> <u>4mm Thick one way glass and glazing fixed with and including putty to steel windows</u>	13	lm		
F	Panes 0.1 - 0.5 square metres <u>4mm Thick obscure glass and glazing fixed with and including putty to steel windows</u>	16	sm		
G	Panes 0.1 - 0.5 square metres	1	sm		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and decoration</u>				
	<u>Prepare and apply three coats gloss oil paint to surfaces of metal</u>				
A	Glazed surfaces; both sides (measured gross)	34	SM		
B	Ditto grilled surfaces; both sides (measured gross)	34	SM		
	Carried to Collection				
	<u>COLLECTION</u>				
	FROM PAGE 28				
	FROM ABOVE				
	TOTAL FOR WINDOWS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7</u>				
	<u>EXTERNAL FINISHINGS</u>				
	<u>Walls</u>				
A	Extra over walling for smooth chisel dressing with flush pointed vertical joints and recessed horizontal joints	90	sm		
	<u>12mm thick gauged lime (1:2:9) plaster to :</u>				
B	Beams	18	sm		
	<u>Prepare and apply three coats of first grade silk vinly emulsion paint as per "Crown Berger" or other equal and approved to:</u>				
D	Plastered surfaces of beams	18	sm		
	TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 8</u>				
	<u>INTERNAL FINISHES</u>				
	<u>FLOORS</u>				
	<u>Cement and sand (1:4) screeding smooth trowelled</u>				
A	32mm thick screed to receive floor tile	114	sm		
B	8mm thick non slip floor tiles on approved backing	114	sm		
C	Ditto 100mm high x 10mm thick skirting	149	lm		
	<u>Walls</u>				
	<u>Plaster; 18mm 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 concrete or blockwork base generally to: -</u>				
D	Walls, beams and internal	316	sm		
	<u>Tile, Slab or Block Finishings</u>				
	<u>Approved ceramic tiles to B.S. 1281; local; white glazed wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white cement</u>				
E	6mm thick; butt joints straight both ways; to cement sand base (m/s) to walls internal	24	sm		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and three coats of first quality plastic emulsion paint to: -</u>				
F	Plastered walls	316	sm		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Ceiling</u>				
A	50 x 50mm celcured cypress timber bandering	370	lm		
B	Ditto but plugged	164	lm		
C	12mm Chipboard ceiling nailed to timber bandering (m/s)	114	sm		
D	Extra over for trap door size 600 x 450mm wide comprising with and including 50 x 50mm timber framing	2	No		
E	100 x 25mm Thick wrot softwood moulded cornice	164	lm		
	<u>Prepare and apply three coats first grade plastic emulsion paint to:</u>				
F	Ceiling surfaces	114	sm		
G	Timber surfaces not exceeding 100mm girth	164	lm		
	Carried to Collection				
	<u>COLLECTION</u>				
	From page 31				
	From page above				
	TOTAL FOR INTERNAL FINISHING CARRIED TO SUMMARY				

<u>SUMMARY PAGE</u>			
NO	ITEM	PAGE NO	AMOUNT
A	SUBSTRUCTURES		
B	FRAME		
C	WALLING		
D	ROOFING		
E	DOORS		
F	WINDOWS		
G	EXTERNAL FINISHES		
H	INTERNAL FINISHES		
	<u>Rain water Storage tank</u>		
J	Supply and install on ar raised plastform 10000litres capacity cylindrical plastic storage water tank as ROTO or approved equivalent complete with overflow pipe,15mm bib tab as cobra,seiving mesh as all necessary installation necessities i.e pipework for water collection from gutters	Item	
TOTAL FOR BUILDER'S WORKS CARRIED TO SUMMARY			

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PROPOSED PIT LATRINE WITH URINAL</u>				
	<u>ELEMENT NO 1</u>				
	<u>SUBSTRUCTURE WORKS (All provisional)</u>				
A	Clear site of all shrubs, bushes, trees and undergrowth including grubbing up of roots and dispose off as directed.	30	sm		
B	Excavate oversite average 200mm deep and cart away as directed	30	sm		
C	Excavation to reduce levels starting from stripped level not exceeding 1.5m deep	9	cm		
D	Excavate trenches for strip foundation not exceeding 1.5metres from reduced level	18	cm		
E	Bulk excavation from reduced level not exceeding 1.5m deep	6	cm		
F	Ditto starting from 1.5m deep but n e 3.0 deep	6	cm		
G	Ditto starting from 3.0m deep but n e 4.5m deep	6	cm		
H	Ditto starting from 4.5m deep but n e 6.0	6	cm		
I	Ditto starting from 6.0m deep but n e 7.5	6	cm		
	Filling and carting away				
J	Return, fill and ram and approved excavated material around foundation walling and lining	10	cm		
K	Load and cart away excavated materials from site Hardcore Fillings	47	cm		
	Disposal of water				
L	Keeping all excavations free from all water including spring or running water		Item		
M	Planking and strutting		Item		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUBSTRUCTURE -CONTINUED</u>				
	<u>Filling</u>				
A	300mm thick hardcore bed hand packed watered and compacted in 150 mm thick layer	14	sm		
B	50 mm murrum filling to hardcore surfaces, well rolled and levelled to receive concrete	14	sm		
	<u>Damp-Proof membrane</u>				
C	1000 gauge polythene sheeting with sides and end laps as described laid on blinded surfaces	22	sm		
	<u>Anti-termite treatment</u>				
D	Termidor 25 EC" or other equal and approved anti-termite chemical treatment applied by an approved pest control specialist with a 10 year warranty strictly applied according to manufacturer's printed instructions	22	sm		
	<u>Concrete Work</u>				
	<u>Plain concrete (1:4:8) in</u>				
E	50mm Thick blinding to strip foundation	12	sm		
	<u>Vibrated reinforced concrete grade 20/20 (1:2:4) in:</u>				
F	Strip footing	3	cm		
G	150mm Thick ground bed <u>Sawn Formwork to :</u>	22	sm		
H	Sides of strip foundation	8	sm		
J	Edges of floor bed 75 - 150mm high	20	lm		
K	Soffits of suspended slab	3	sm		
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Reinforcement</u>				
	<u>Supply, cut, bend and fix the following reinforcement bars including tying wire, stirrups and spacer blocks to B.S. 4461</u>				
A	10 mm bars	78	Kg		
B	8mm	45	Kg		
	<u>Steel fabric mesh reinforcement to B.S. 4483</u>				
C	B.R.C fabric mesh reinforcement ref: A142(measured net-no allowance made for laps)	17	sm		
	<u>Foundation Walling</u>				
D	200mm thick natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.	46	sm		
	<u>Plinths</u>				
E	12mm thick C/S (1:3) plaster to plinth	8	sm		
F	Prepare and apply three coats bituminous paint to rendered plinths	8	sm		
	Carried to collection				
	<u>COLLECTION</u>				
	From Page 34				
	From Page 35				
	From Above				
	TOTAL FOR SUBSTRUCTURE CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO 2</u>				
	<u>RINGBEAM</u>				
	<u>Vibrated reinforced concrete grade 20/20 (1:2:4)</u> <u>in:-</u>				
A	Ring Beam	1	cm		
	<u>Reinforcement (All Provisional)</u>				
	<u>Supply, cut, bend and fix the following</u> <u>reinforcement bars including tying wire, stirrups</u> <u>and spacer blocks to B.S. 4461</u>				
B	10mm diameter bars	58	Kg		
C	8 mm diameter	38	Kg		
	<u>Sawn formwork to :-</u>				
D	Sides and soffits of beams	24	sm		
	TOTAL FOR RINGBEAM CARRIED TO SUMMARY				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO 3</u>				
	<u>WALLING</u>				
	<u>Approved stone load bearing (6N/mm²) masonry walling, bedded jointed and pointed in cement sand (1:3) mortar and reinforced in 25x3mm wide hoop irons in every alternate course to approval</u>				
A	150mm Thick walling	52	sm		
	<u>Damp-proofing</u>				
C	150mm Wide Hessian based bituminous felt damp proofing course laid and bedded on cement sand (1:3) mortar; externally	26	lm		
	<u>Column stanchion</u>				
D	75mm diameter x 3mm thick Circular Hollow Section (CHS); 2700mm high mild steel black pipe top end with U-holder butt for 100x50mm wall plate(m/s) fixed with fish tail lugs to concrete floor slab.	6	lm		
	<u>Paint</u>				
E	Touch up primer apply one undercoat and two coats of super gloss oil paint to metal,girth between 200-300mm	6	lm		
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO 4</u>				
	<u>ROOFING (All Provisional)</u>				
	<u>Roof Construction</u>				
	<u>Sawn cypress, second grade; well seasoned and treated with approved wood preservative; with and including all jointing and connection (packing piece, bolts, etc.) as necessary; in roof</u>				
	<u>The following in trusses and/or independent member</u>				
A	100x50mm Rafters	20	lm		
B	75x50mm purlins	28	lm		
C	100x50mm wall plate; fixed to concrete or masonry with and including approved bolts at 100mm centers	18	lm		
	<u>Roof Covering</u>				
D	30G Prepainted sheets nailed to purlin (m.s)	32	sm		
E	225 x 25 fascia board	15	lm		
F	Prepare and apply primer and two coat of gloss paint tp fascia board surfaces	15	lm		
	TOTAL FOR ROOFING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO 5</u>				
	<u>DOORS</u>				
	<u>25mm Thick match boarded door with approved softwood timber battens 100 x 25mm thick jointed with tongue and grooves supported with diagonal timber braces, 150 x 25mm thick ,horizontal timber ledges ,150 x 30 mm thick and vertical frames 150 x 25mm thick</u>				
A	Door size 800 x 2050 mm high	3	No		
B	Door size 1000x2050mm high	1	No		
	<u>Wrot Cypress frame</u>				
C	150 x 30 mm; 2 No. labours; plugged door frame	22	lm		
	<u>Ironmongeries</u>				
D	Mild steel Tower latch 150mm long	4	No		
E	Mildsteel aldrop tower latch 150mm long	4	No		
F	100mm Steel butts hinges	4	Prs		
	<u>Door Grillage</u>				
	<u>Mild steel door grillage consisting of 25x25x2mm SHS frame and intermediated members welded at 125mm/c vertically once primed and two coat of gloss paint</u>				
G	Size 1200x1500mm high	3	No		
	<u>Painting and decoration</u>				
	<u>Prepare and apply primer and two coaf of gloss paint to :</u>				
H	General surfaces of doors	30	sm		
	TOTAL FOR DOORS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.6</u>				-
	<u>WINDOWS</u>				-
	<u>Steel casement windows</u>				
A	450x450mm <u>Mild steel grillage consisting of 25x25x2mm SHS welded at 125mm c/c once primed and two coat of gloss paint</u>	4	No		
B	Size 1200x600mm high (urinal)	1	No		
	<u>Glazing</u>				
C	4mm thick obscure glass glazing with steel putty	2	sm		
	<u>Painting and decoration</u>				
	<u>Prepare and apply primer and two coat of gloss paint to :</u>				
D	General surfaces of windows	4	sm		
	TOTAL FOR WINDOWS CARRIED TO				
	SUMMARY				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO 6</u>				
	<u>FINISHES</u>				
	<u>External wall</u>				
A	Extra key pointing in 10mm thick rod in cement and sand (1:3) mortar; one coat of bituminous paint.	34	sm		
B	18 mm rendering to beams externally finished with a wood float	6	sm		
	<u>Prepare surfaces and apply one undercoats stainer and two finishing coats of crown permacoat paint to:</u>				
C	General rendered surfaces externally	6	sm		
	<u>Internal walls</u>				
	<u>Plaster</u>				
D	18mm thick two coat ; 12mm thick first and 3mm thick coat cement sand (1;3) to walls internally	78	sm		
	<u>Wall tiles</u>				
E	Ceramic wall tiles with approve adhesive	48	sm		
	<u>Floor</u>				
	<u>Cement and sand (1:3)render in:-</u>				
F	35mm floor screed to receive ceramic tiles(m.s)	14	sm		
G	300x300x6mm thick ceramic floor tiles with approved adhesive	14	sm		
H	100mm high skirting	10	lm		
	Carried to Collection				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Prepare and apply three coats first grade silk vinyl emulsion paint on appropriate basecoat and shade to approval: on plastered surfaces: to</u>				-
A	Plastered walls internally	30	sm		
B	Supply and fix 100mm diameter upvc vent pipe with complete with vent cowl 600mm high above roof	4	lm		
	<u>PWD</u>				
C	Supply ,fabricate and fix 38mm diameter G.I pipe grab bars(one fixed and other movable) to detail.	3	lm		
D	Supply and deliver portable folding toilet with lid(reusable)-20litre	1	No		
E	Allow Kenya Shilling Five Thousand (5,000)Shillings only for labelling 'FUNDED BY COUNTY GOVERNMENT OF LAIKIPIA FY25/26'		Item		
	Carried to Collection				
	<u>COLLECTION</u> From page 42 From page above				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				-

ITEM	DESCRIPTION	PG.No	AMOUNT
	<u>SUMMARY</u>		
1	SUBSTRUCTURE		
2	RINGNEAM		
3	WALLING		
4	ROOFING		
5	DOORS		
6	WINDOWS		
7	FINISHES		
	TOTAL FOR ABLUTION BUILDER'S WORKS CARRIED TO GRAND SUMMARY		-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p>SANITARY FITTINGS: <u>Supply,deliver,install and fix the following sanitary fittings including all materials and jointing to supply,waste/soil and overflow pipes.Twyfords Ltd products are specified only as an indication of quality.Equal approved appliances may be supplied.Where trade name are mentioned,the Ref.No. is intended only as a guide to the type and quality of fittings.</u></p>				
A.	<p>WATER CLOSET: White ceramic water closet squat type pan. TheW. C. pan should have a back inlet and come complete with non-slip treads. Prefered W. C dimensions to be 575 x 460 x 360mm. The pan to come complete with appropriate trap, inlet gaskets and all drainage fitments. The pan to be as "Twyford" or approved equivalent.</p> <p>Flush Valve - Manual Push Button Manual push button action, back inlet squat toilet flush valve with 6 litre per flush. The valve to have a 1 1/4" chrome plated connections with synthetic diaphragm and adjustabel tailpipe. Valve to be as "Sloan, Royal 137-1.6"or approved equivalent</p>	2	NO.		
B	<p>WASH HAND BASIN: Wash hand basin,size 590x440mm wide in hole Ref. No. WB 2535 WH complete with pedestal ceramic stand.</p> <p>Chrome plated Aztec pillar taps ½" Ref. No. AZ 5200 CP.</p> <p>Chrome plated tap Ref. No. AZ 5800CP Wall supports Ref. No. SR 1319XX as twyfords "SOLA 590" together with bottle traps.</p>	2	NO.		
C	<p>Wall mounted stainless Single bowl single drainer, (SBSD) Medical purpose sink,size 1000x500mm complete with overflow,waste fittings,plug,chain stay 1 No. chromium plated bib taps and 40mm diameter plastic bottle trap with 75mm deep seal.</p>	5	NO.		
	Carried forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought forward				
	ROBE HOOK:				
A	Robe Hook in-vitreous China White colour mounted unto a concealed screw to wall wedges,to be as Twyford's OC 6858 1998 or Equivalent Approved.	2	NO.		
	SOAP DISPENSER:				
B	Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	5	NO.		
	SOAP DISH				
C	Semi recessed built in soap tray in Vitreous China of size: 305 x 150mm in approved colour as Twyford's or equal and approved	2	NO.		
	SHOWER FITTINGS				
D	15mm diameter concealed shower fitting complete with 600mm long by 25mm dia chrome plated towel rail, 25mm dia gate valve	2	NO.		
	INSTANTANEOUS SHOWER HEATER				
E	Shower, Overhead mounted, instantan-eous shower heater with 4.4kW heating element and complete with electric cable. To be as "LORENZETTI" or equal and approved	2	NO.		
	BOOSTER PUMP				
F	Supply, deliver and install electrically driven water booster pumps capable of delivering 0.8 litres/sec against a total static head of 10 with all its accessories	1	NO.		
	MIRROR				
G	6mm thick polished plate glass,silver backed mirror with beveled edges,size 450x600mm plugged and screwed to wall with 4 No. chrome plated chrome capped screws and 5mm thick foam plated chrome capped scrtews and 5mm thick foam plated chrome capped screws and 5mm thick foam back nest.	2	NO.		
	Carried forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought forward				
A	TOILET ROLL HOLDER: Toilet roll holder in vitreous China to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to BE AS Twyford's "SEMI RECESSED & ORNAMENTAL" accessories Ref. No. VC 9808 WH. Brass toilet holder	2	NO.		
B	TOILET BRUSH AND HOLDER: Toilet brush and holder in vitreous china or equal and approved equivalent.	2	NO.		
C	FLEXIBLE CONNECTIONS 300 long x 15 mm diameter flexible including brass backnuts jointing GMS tubing	10	NO.		
D	STORAGE TANKS: Supply and Install plastic water tank of capacity 1000Litres on on roof. The tank to be as (Kentank) will have to be assembled complete with medium pressure ball valve inlet, outlet connection and drain cork and all other connections including Horse Reel connection and other necessary item for its proper functioning.	1	NO.		
	Total for sanitary fittings carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL PLUMBING: <u>Supply,deliver,Install and test PPR.PN pipes and fittings as described and shown on the drawings.Rates must allow.</u>				
	PPR PN PIPEWORK:				
A	25mm diameter pipework	30	LM		
B	20mm ditto	25	LM		
	BENDS/ELBOWS:				
C	20mm diameter	16	NO.		
D	25mm diameter	12	NO.		
	EXTRA OVER GMS PIPEWORK FOR THE FOLLOWING TEES/UNIONS:				
	TEES:				
E	20mm diameter	10	NO		
F	25mm diameter	10	NO		
	UNIONS:				
G	20mm diameter	8	NO		
H	25mm diameter	10	NO		
	VALVES:				
I	Gate valves 20mm diameter Peglar type	2	NO		
J	Gate valves 25mm diameter ditto	2	NO		
	SOCKETS:				
K	20mm diameter (Male \$ Female \$ Plain)	10	NO		
L	25mm diameter (Male \$ Female \$ Plain) .	14	NO		
	NIPPLES:				
M	25mm diameter	8	NO		
N	20mm diameter	6	NO		
	REDUCING BUSH:				
O	25X20mm Ditto	5	NO		
P	PORTABLE FIRE FIGHTING EQUIPMENT:				
	DRY POWDER				
	9Kg dry powder fire extinguisher with normal charge and with mounting brackets.	2	NO		
	Water/Carbon dioxide Gas Fire Extinguisher				
	9 litres water/Carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brankets.	2	NO		
	Total for Internal Plumbing carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL DRAINAGE				
	<u>All drainage pipes to a key terrain or equal approved.Allow for connection to the nearest manholes.</u>				
	UPVC AND MUPVC PIPE:				
A	100mm heavy duty Golden brown pipe class D. W.C connecting bend	20	LM		
B	100mm diameter heavy duty grey pipe class D.	32	LM		
C	38mm diameter heavy duty class D.	15	LM		
D	32mm ditto	15	LM		
	Extra overUPVC and m.u.P.V.C pipe work for the following:				
	BENDS:				
E	100mm diameter Plain bend	4	NO		
F	100mm diameter Inspection Bend	4	NO		
G	32mm Ditto inspection tee	3	NO		
H	38mm ditto inspection tee	3	NO		
	BOSS CONNECTOR:				
I	100mmx50mm boss connector.	2	NO		
	W.C CONNECTORS:				
J	100mm diameter WC connectors.	2	NO		
	WC MANIFOLD:				
K	100mm diameter WC manifold capable of connection to horizontal soil pipe.Complete with pan seal to fit pan outlet.	2	NO		
	GULLEY TRAP				
L	Construct to completion 300 × 300 mm internally square gully trap with 100 mm dia outlet, made of heavy-duty PVC set in cement concrete bedding, properly connected to waste pipe. Provide for a gully trap medium duty single seal coated cast iron cover and frame of 300 × 300 mm to BS497(grade B)	5	NO		
	TEES:				
M	100mm diameter (plain.)	5	NO		
N	Ditto Inspection Tee.	5	NO		
	Carried forward				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Brought forward				
	VENT COWL:				
A	Supply and install UPVC vent cowl of approved make, suitable for 100 mm dia vent pipe, including fixing accessories, weather-tight installation upto completion.	2	NO		
	TANGIT:				
B	Solvent cement (Tangit).	1	Litr		
C	EXCAVATION OF PPR 25mm TRENCHES Excavate for a 25mm ppr pipe from stand pipe layed to excavated trench include the backfill for water connections.	35	LM		
	MANHOLE				
D	Construct to completion standard manhole 450x450mm internally and 750mm average depth as type B and 450x450mm medium duty single seal coated cast iron manhole cover and frame to BS497(grade B) weighing 45 kg include bending frame in cement and sand (1;3) mortal and setting cover in grease adjusting in position including coating all surface with bitumen	8	NO		
E	UPVC 100mm PIPE TO THE SEWER LINE 100 mm diameter drainage pipes heavy duty golden brown layed to the excavated trench to the sewer line	50	LM		
F	EXCAVATION OF UPVC PIPE TO THE SEWER Excavate drain trenches starting from the ground level grade and complete bottoms including backfilling above bends and surrounds and removing surplus excavated materials from site trench not exceeding 750mm deep	50	LM		
G	Testing and commissioning of the system to the satisfaction of the engineer		ITEM		
	Total for internal drainage carried to collection				
	<u>COLLECTION</u> Sanitary Fittings from page 47 Internal Plumbing from page 48 Internal drainage from above				
	TOTAL FOR MECHANICAL WORKS CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.01	<p><u>SUPPLY, INSTALL, TEST & COMMISSION THE FOLLOWING LIGHTING POINTS</u></p> <p>Lighting points wired in 3 x 1.5 mm² P.V.C – SC-CU cables (E.A) drawn in 20 mm diameter H.G P.V.C conduits concealed inside ceiling c/w all necessary accessories.</p>	16	NO		
1.02	<p><u>LIGHTING FITTINGS</u></p> <p>Light fittings c/w fixing accessories and lamps as follows:-</p> <p>(i)1200mm , 1 x 36w florescent fittings of slim cross section with clip-on cover as Thorn/approved equivalent.</p> <p>(ii)50w,watts led floodlight c/w fixing accessories with input voltage of 85v-265v.</p> <p>(iii)Ball fitting c/w fixing accessories</p> <p>(iv)Circular 300mm dia moon light fitting as massive at entrance and corrindor</p>	6	NO		
1.03	<p><u>SWITCHES</u></p> <p>Switching points wired in 3X1.5 mm sc cu cables drawn in concealed 20mm diameter HG PVC conduits</p> <p>(i)One gang one way switch as MK or approved equivalent.</p> <p>(ii)One gang two way switch as MK or approved equivalent.</p> <p>(iii)Two gang two way switch as MK or approved equivalent.</p>	10	NO		
1.04	<p><u>SOCKET OUTLET/POWER POINTS</u></p> <p>(i)Socket outlet points wired using 3x2.5 mm² SC-P.V.C-CU underground armored cable c/w all necessary accessories</p> <p>(ii)13A 2 gang switched molded socket outlet plate as MK/approved equivalent</p>	6	NO		
	Total carried to collection				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.05	<p><u>DISTRIBUTION BOARD</u></p> <p>(a)4 way SPN lockable meterbox,flush mounted distribution board,complete with a 100A integral isolator as schneider/approved equivalent with all accessories but excluding MCBs</p> <p>(b)4 way consumer unit flush molded on wall c/w 100A SPN/N integral isolator as schneider/approved equivalent.</p> <p>Single pole miniature cct breakers to fit the above consumer unit as follows:-</p> <p>(i)10 Amps sp</p> <p>(ii)32 Amps sp</p> <p>(iii)Blankplates</p>	1	NO		
		1	NO		
		1	NO		
		2	NO		
		1	NO		
1.06	<p><u>SUB-MAINS CABLES AND OTHER ITEMS</u></p> <p>(i)Sub-mains wired in 3 x 16.0 mm² SC-PVC-CU cables (E.A) drawn in 32 mm diameter H.G pvc conduits concealed inside ceiling c/w all necessary accessories from solar panels to batteries.</p> <p>(i)Sub-mains wired in 3 x 10.0 mm² SC-PVC-CU cables (E.A) drawn in 32 mm diameter H.G pvc conduits concealed inside ceiling c/w all necessary accessories from batteries to DB to consumer Unit.</p>	20	LM		
		6	LM		
1.08	<p><u>EARTH SYSTEM & OTHER ITEM</u></p> <p>(i)Electrical earthing system comprising 4.0 mm² SC-PVC-CU cables (E.A) drawn inside HG PVC conduits, 1500 mm x 15 mm diameter copper electrode c/w clamp, precast concrete inspection pit with cover</p>	ITE M	ITEM		
	Total carried to collection				-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.09	<u>SOLAR POWER ITEMS</u>				
	(a)Solar module 200watts as solarpex with 25yrs warrant or approved equivalent.	8	NO		
	(b)Array Solar structure as solar pex /approved equivalent	8	NO		
	(c)24v-200AH sealed battery,free maintainance deepcycle as solar pex/dayliff or approved equivalent	2	NO		
	(d)Inverter 24V x 300watts digital as solateck	1	NO		
	(e)Solar charge controller 100Amps digital as solar pex/dayliff or approved equivalent	1	NO		
	Total Carried to Collection				
	<u>COLLECTION</u>				
	From page 51				
	From page 52				
	From page above				
	TOTAL FOR ELECTRICAL WORKS CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PROPOSED CHAINLINK FENCING (598)</u>				
A	Allow Kenya Shilling Fifty thousand (50,000) for survey works		Item		
	<u>Site Clearance</u>				
B	Clear fence route of all bushes,shrubs,undergrowth,trees and burn or remove from site all arisings,about an average of 2m width	598	lm		
	<u>Chainlink fence</u>				
C	Provide materials and erect chain link fence 2.40m high 14-gauge chainlink complete with 16 gauge x3 strand galvanized barbed wire(at the top) 4mm galvanized steel wire x4 strands(straining wire) ; chainlink 2.1m above ground level;300mm anchored below ground morticed in mass concrete surround(1:3:6);trench 250x250mm deep,consisting of 100x125mm cranked reinforced concrete(1:2:4-20mm) posts(3.0m average leght) at 3.0m centres and reinforced with 4No.10mm mild steel rods and 6mm steel rod stirrups at 250mm c/c bottom ends embedded in and including plain concrete(1:3:6) base size 300x300x600mm deep including all excavation.	598	lm		
D	Extra over dito for 100x125mm precast concrete post 2600mm long for corner and struts	30	No		
	<u>GATE</u>				
E	Provide materials and fabricate double gate overall size 6.0mx2.0m high comprising of 50x50x3mm hollow section main frame and middle rail with 50x25x3mm hollow section vertical rails welded at 200mm centres including one coat red oxide primer and two coat of gloss paint in client approved colours and mounted on 2No 100mm diameter x 3000mm overall height galvanized mild steel pipe column with mass concrete (1:3:6) infill in pipe;with cross bars welded at bottom and embedded in 600mm diameter x600mm deep pits .	1	No		
	TOTAL FOR CHAINLINK FENCE CARRIED TO GRAND SUMMARY				

<u>GRAND SUMMARY</u>			
ITEM	DESCRIPTION	TENDERERS AMOUNT	OFFICIAL USE
1	Particular preliminaries from page 8		
2	General preliminaries from page 18		
3	Dispensary builder's works from page 33		
4	Ablution block Works from page 44		
5	Mechanical Works from page 50		
6	Electrical works from page 53		
7	Chainlink fence from page 54		
	SUB TOTAL		
	V.A.T 16%		
	TOTAL CARRIED TO FORM OF TENDER		
Amount of tender in words: Kenya Shilings.....			
Tenderer's signature and stamp.....			
Address.....			
Date.....			
Witness: Name and signature.....			
Description.....			
Address.....			

