

PROJECT: PROPOSED CONSTRUCTION OF A STANDARD
LABORATORY BLOCK FOR MAARA NGCDF

CLIENT: MAARA CONSTITUENCY DEVELOPMENT
FUND

BILLS OF QUANTITIES

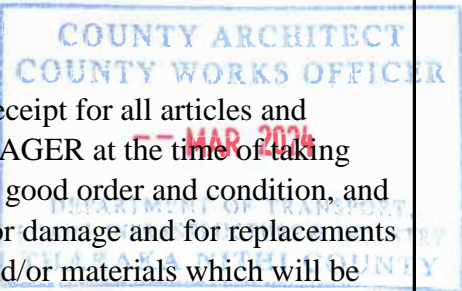


GENERAL PRELIMINARIES

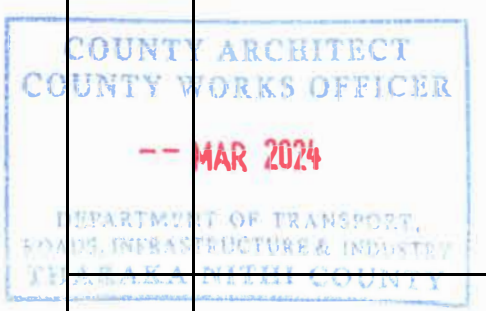
COUNTY ARCHITECT
COUNTY WORKS OFFICER

-- MAR 2024

DEPARTMENT OF TRANSPORT,
ROADS, INFRASTRUCTURE & INDUSTRY
THARAKA NITHI COUNTY

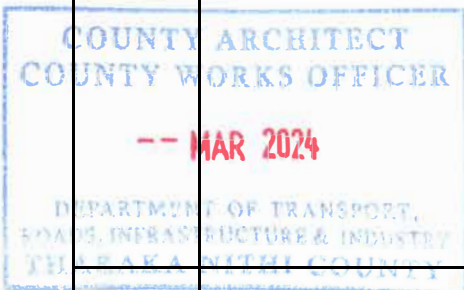
ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>PLANT, TOOLS AND VEHICLES</u></p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the work except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>	
B	<p><u>TRANSPORT.</u></p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent</p> <p>Allow for transport of project management team to and from the site for meeting or supervision wherever need arises; at such hours and by such routes as may be permitted by the competent authorities.</p>	
C	<p><u>MATERIALS AND WORKMANSHIP.</u></p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
D	<p><u>SIGN FOR MATERIALS SUPPLIED.</u></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p>	
	Total carried to collections	

ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>STORAGE OF MATERIALS</u></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
B	<p><u>SAMPLES</u></p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER PROVIDED THEY PASS THE TEST. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p>Samples of paint, carpets, curtains & covers, tiles & timber shall be required for approval by the PM together with the employer.</p> <p>No alternte rate shall be offered on account that the employer has chosen a superior finish unless the bidder had attached the sample he priced.</p>	
Total carried to collections		



ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>PUBLIC AND PRIVATE ROADS.</u></p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from 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><u>EXISTING PROPERTY.</u></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p>	
C	<p><u>ACCESS TO SITE AND TEMPORARY ROADS.</u></p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads 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>	
D	<p><u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u></p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p> <div data-bbox="695 1585 1166 1879" style="text-align: center; border: 1px solid blue; padding: 5px;"> <p>COUNTY ARCHITECT COUNTY WORKS OFFICER</p> <p>-- MAR 2024</p> <p>DEPARTMENT OF TRANSPORT, ROADS, INFRASTRUCTURE & INDUSTRY THARAKA NITHI COUNTY</p> </div>	
Total carried to collections		

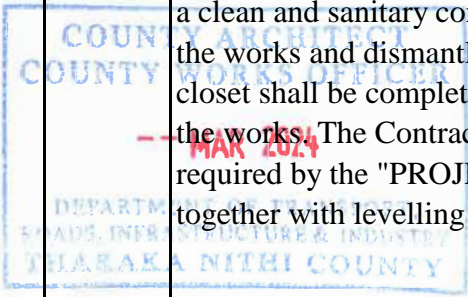
ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p>	
B	<p><u>PROGRESS CHART.</u></p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT 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>	
C	<p><u>INSURANCE</u></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>	
D	<p><u>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</u></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>	
Total carried to collections		



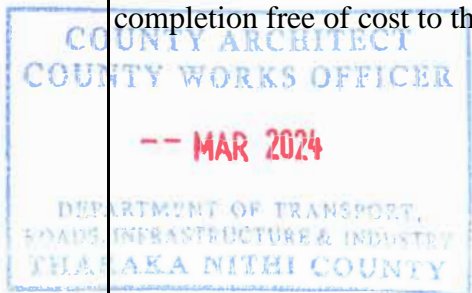
ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>PROVISIONAL WORK</u></p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under 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>	
B	<p><u>PROVISIONAL SUMS.</u></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for profit.</p>	
C	<p><u>ADJUSTMENT OF PROVISIONAL SUMS.</u></p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued , 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> <div data-bbox="406 1554 893 1869" style="text-align: center; border: 1px solid blue; padding: 10px; margin: 20px auto; width: fit-content;"> <p>COUNTY ARCHITECT COUNTY WORKS OFFICER</p> <p>-- MAR 2024</p> <p>DEPARTMENT OF TRANSPORT, ROADS, INFRASTRUCTURE & INDUSTRY THARAKA NITHI COUNTY</p> </div>	
	Total carried to collections	

ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>PRIME COST (OR P.C.) SUMS.</u></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>	
B	<p><u>ADJUSTMENT OF P.C. SUMS.</u></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them. 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>	
C	<p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts 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>	
	Total carried to collections	

ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>DIRECT CONTRACTS</u></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>	
B	<p><u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for 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>	
C	<p><u>OFFICE ETC. FOR THE PROJECT MANAGER (NOT APPLICABLE)</u></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</p>	
Total carried to collections		



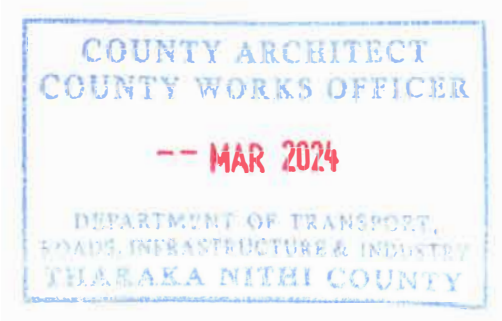
ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable 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</p>	9,610
B	<p><u>SANITATION OF THE WORKS</u></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p>	
C	<p><u>SUPERVISION AND WORKING HOURS</u></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p>	
D	<p><u>PROTECTION OF THE WORKS.</u></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>	
Total carried to collections		9,610.00



ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>WORKS TO BE DELIVERED UP CLEAN</u></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p>	
B	<p><u>GENERAL SPECIFICATION.</u></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of 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</p>	
C	<p><u>TRAINING LEVY</u></p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs. 50,000.00 in value.</p>	
D	<p><u>MATERIALS ON SITE</u></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> <div data-bbox="430 1585 901 1890" style="text-align: center; border: 1px solid blue; padding: 5px;"> <p>COUNTY ARCHITECT COUNTY WORKS OFFICER</p> <p>-- MAR 2024</p> <p>DEPARTMENT OF TRANSPORT, ROADS, INFRASTRUCTURE & INDUSTRY THARAKA NITHI COUNTY</p> </div>	
Total carried to collections		

ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>HOARDING</u></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 for a total length of approximately three hundred meters. 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>	
B	<p><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></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>	
C	<p><u>MATERIALS ARISING FROM EXCAVATIONS</u></p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless otherwise provided for in the particular preliminaries. 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>	
D	<p><u>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</u></p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p>	
	Total carried to collections	

ITEM	DESCRIPTION	AMOUNT(Kshs.)
A	<p><u>GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</u></p> <p>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 No claim in respect of want of knowledge in this connection will be entertained.</p>	
B	<p><u>REMOVAL OF RUBBISH ETC.</u></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>	
C	<p><u>BLASTING OPERATIONS</u></p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the PROJECT MANAGER governing the use and storage of explosives.</p>	
D	<p><u>SIGNAGE</u></p> <p>Allow for providing after the course of the Contract and afterwards clearing away a signage as designed, specified and approved by the Project Manager.</p>	
	Total carried to collections	

ITEM	DESCRIPTION	AMOUNT(Kshs.)
	<u>COLLECTION</u>	
	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	9,610.00
	Brought Forward From Page GP/10	
	Brought Forward From Page GP/11	
	Brought Forward From Page GP/12	
		
	Total Carried to Main Summary	9,610.00

MEASURED WORKS

COUNTY ARCHITECT
COUNTY WORKS OFFICER

-- MAR 2024

DEPARTMENT OF TRANSPORT,
ROADS, INFRASTRUCTURE & INDUSTRY
THARAKA NITHI COUNTY

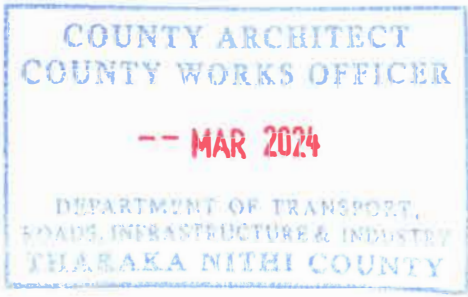
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>SECONDARY SCHOOL</u>				
	<u>LABORATORY BLOCK</u>				
	<u>ELEMENT NO. 1</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	144	sm	50	7,200.00
	<u>Excavation</u>				
	<u>Over-site excavations: 100-200mm Depth, load and deposit as instructed by the project manager</u>				
B	Reducing levels; 200 mm	144	sm	100	14,400.00
C	Excavate for strip footing trenches n.e. 1.5 m deep	50	cm	350	17,500.00
E	Level bottom of foundations to receive blinding	57	sm	80	4,560.00
F	Return, fill-in and rum selected imported materials around foundations	43	cm	250	10,750.00
G	Remove and cart away surplus excavated materials.	8	cm	300	2,400.00
	<u>Diposal of water</u>				
H	Keeping all excavations free from all water including spring or running water	1	Item		5,000.00
	<u>Planking and strutting</u>				
I	Uphold the sides of all excavations	1	Item		3,000.00
	<u>Filling</u>				
J	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness	43	cm	950	40,850.00
K	50mm (average) thick murrum blinding to surfaces of hardcore	144	sm	120	17,280.00
	<u>Carried to Collection</u>				122,940.00

COUNTY ARCHITECT
COUNTY WORKS OFFICER

-- MAR 2024

DEPARTMENT OF TRANSPORT,
ROADS, INFRASTRUCTURE & INDUSTRY
THARAKA NITHI COUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Antitermite treatment</u>				
A	Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	144	sm	180	25,920.00
	<u>Concrete</u>				
	<u>Insitu concrete;mass concrete mix 1:3:6</u>				
B	50mm blinding to foundations	57	sm	400	22,800.00
	<u>Insitu concrete; reinforced; class 25 / (25mm); vibrated</u>				
C	Strip footing	8	cm	13500	108,000.00
D	150mm thick bed	144	sm	1500	216,000.00
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 and hot rolled to B.S. 4449 including bends, hooks, tying wire and distance blocks</u>				
E	In assorted reinforcement of various sizes	679	kg	170	115,430.00
	<u>Fabric; B.S. 4483</u>				
F	Reference A96 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps(including bends, tying wire and distance blocks	144	sm	400	57,600.00
	<u>Walling</u>				
G	200 mm thick natural stone foundation walling bedded in c/s mortar	63	sm	1300	81,900.00
	<u>Sawn formwork to insitu concrete as described:-</u>				
H	Edges of ground floor slab; 75 to 150mm wide	46	lm	550	25,300.00
	<u>Damp proofing</u>				
I	Polythene sheet; 1000 gauge, 200mm welted laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding	144	sm	110	15,840.00
	<i>Carried to Collection</i>				668,790.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>In situ Finishings</u>				
A	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	18	sm	350	6,300.00
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
B	Wood floated rendered plinths over 300mm girth	18	sm	300	5,400.00
	<i>Carried to Collection</i>				11,700.00
	<u>COLLECTION</u>				
	From page BW/1				122,940.00
	From page BW/2				668,790.00
	From page above				11,700.00
					
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				803,430.00


ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 2</u>				
	<u>SUPERSTRUCTURE</u>				
	<u>WALLING</u>				
	<u>Bituminous or other equal approved damp-proof course</u>				
A	200mm Wide approved quality 3-ply bituminous felt damp proof course under walls	57	LM	200	11,400.00
	<u>Masonry Walling</u>				
	<u>Approved Natural machine dressed stone in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course (piers are included in the measurements of the wall)</u>				
B	150mm thick walling	113	sm	1400	158,200.00
C	100mm thick walling to gas chamber and chimney	21	sm	1200	25,200.00
	<u>Vibrated Reinforced concrete grade 25 to:</u>				
D	Ring beam	4	cm	13500	54,000.00
	<u>High yield ribbed bar reinforcement to B.S 4461</u>				
E	In assorted reinforcement of various sizes	310	kg	170	52,700.00
	<u>Sawn formwork to</u>				
F	Sides and soffits of ring beam	48	sm	550	26,400.00
G	Supply and fix 50mm CHS 2mm thick verandah posts (3.64kg/m)	62	kg	300	18,600.00
H	Paint works to steel surfaces as described	18	sm	90	1,620.00
	TOTAL FOR SUPERSTRUCTURE CARRIED TO SUMMARY				327,900.00

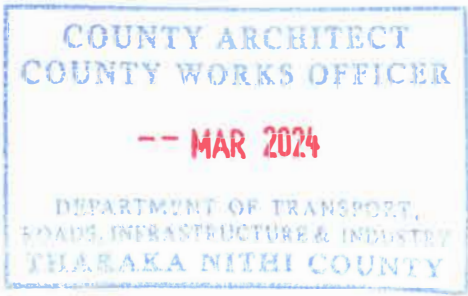
COUNTY ARCHITECT
COUNTY WORKS OFFICER

-- MAR 2024

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 3</u>				
	<u>ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL</u>				
	<u>Roof covering.</u>				
	<u>Galvanized C.I resincoat sheets; 30 gauge; prepainted</u>				
A	Roof covering; 150mm laps on one end and one and a half corrugation side lap; and nailing to 75x50 mm celcured sawn cypress purlins (m/s) on timber trusses (m/s) at 1200mm c/c all laid to fall at 30 ⁰	165	sm	1100	181,500.00
	<u>Accessories, fixing as necessary to roof sheets</u>				
B	150mm dia. Half round ridge sheet	16	lm	400	6,400.00
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress timber trusses, bolted connections, to detail; hoisting approx. 3.0m above ground</u>				
C	100 x 50mm rafters	107	lm	350	37,450.00
D	100 x 50mm ceiling joist	104	lm	350	36,400.00
E	100 x 50mm struts and ties	129	lm	300	38,700.00
F	100 x 50mm king post	18	lm	350	6,300.00
	<u>The following in sawn celcured cypress</u>				
G	150 x 50mm wall plate rag-bolted at 1200mm centres with 12mm diameter bolts (m/s)	61	lm	350	21,350.00
H	200 x 50mm ridge board	19	lm	350	6,650.00
J	75 x 50mm purlins	132	lm	300	39,600.00
	<i>Carried to Collection</i>				374,350.00

COUNTY ARCHITECT
COUNTY WORKS OFFICER
-- MAR 2024
ROADS, INFRASTRUCTURE & INDUSTRY
THARAKA NITHI COUNTY

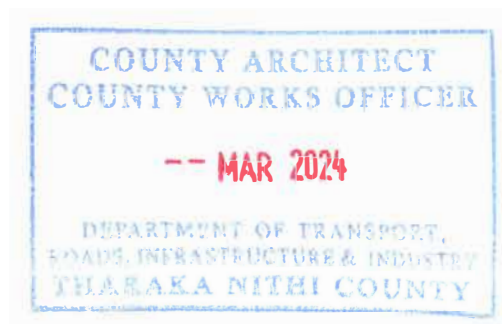
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>The following in wrot cypress</u>				
A	200 x 25mm thick fascia	33	lm	400	13,200.00
B	200 x 25mm thick barge boards	19	lm	400	7,600.00
	<u>Painting and Decorations</u>				
	<u>On Woodwork</u>				
	<u>Prepare and apply one zinc plumbate primer and three coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-</u>				
C	Fascias and barge boards; 200 to 300mm girth; external	52	LM	80	4,160.00
	<i>Total carried to collection</i>				24,960.00
	<u>COLLECTION</u>				
	From page BW/5				374,350.00
	From page Above				24,960.00
					
	TOTAL FOR ROOFING CONSTRUCTION CARRIED TO SUMMARY				399,310.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>METAL WORK - PURPOSE - MADE UNITS</u>				
	<u>Mild steel casement doors; 100 x 50 x 3mm thick frame plugged to concrete or blockwork with 100mm long fishtailed 25 x 25 x 2mm thick angle section, 50 x 50 x 3mm thick angle section frames at 300mm centres both sides, angles cut, mitred and welded; panels infilled with glazing (m/s), one coat manufacturer's primer, complete with all necessary ironmongery and paintworks; all welding ground to smooth finish</u>				
A	1500 x 2400mm high, complete; Double swing door	1	No.	36000	36,000.00
	<u>Internal Doors</u>				
	<u>Frame and Finishing</u>				
	<u>Wrot hardwood as described</u>				
B	75 x 25 mm; 2 No. labours; plugged door frame	11	lm	750	8,250.00
C	40 x 25 mm weathered architrave	11	lm	90	990.00
D	25mm rounded quardrant	11	lm	75	825.00
	<u>45mm Thick semi solid core flush doors to B.S 459: part 2 veneered both sides with first quality plywood and lipped on all edges in approved hardwood</u>				
E	Ditto but solid core size 900 x 2400mm high	2	No.	6200	12,400.00
					
	<i>Carried to Collection</i>				58,465.00

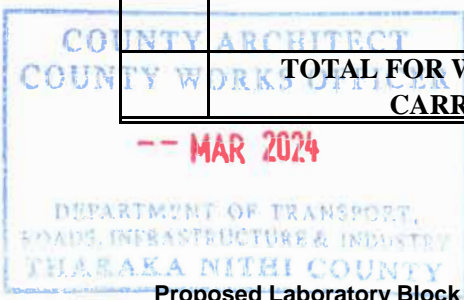
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Iron mongery</u>				
	<u>Supply and fix the following to UNION catalogue or other equal and approved</u>				
	<u>To softwood, hardwood or the like fixing with screws</u>				
A	Two- lever mortice lock complete with set lever brass handle furniture	2	No.	2400	4,800.00
B	100mm steel butt hinges	3	prs	120	360.00
C	100mm Long aluminium barrel bolts	2	No	250	500.00
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
D	General surfaces of doors; internal	9	sm	300	2,700.00
E	General surfaces of metal; external	7	sm	300	2,100.00
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
F	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	11	lm	45	495.00
	<u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u>				
G	Frames; 200 to 300mm girth	11	lm	75	825.00
H	Frames not exceeding 100mm girth; internal	11	lm	25	275.00
	<i>Total carried to collection</i>				12,055.00
	<u>COLLECTION</u>				
	From page BW/7				58,465.00
	From pageBW/8 (Above)				12,055.00
	TOTAL FOR DOORS CARRIED TO SUMMARY				70,520.00


ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>ELEMENT NO. 6</u></p> <p><u>WINDOWS</u></p> <p><u>METAL WORK</u></p> <p><u>PURPOSE - MADE UNITS</u></p> <p><u>Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish.</u></p> <p><i>Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging</i></p>				
A	Window, overall size 1500 x 1500mm high with 2 No. openable light size 400 x 1200 mm high.	7	No	10125	70,875.00
B	Ditto overall size 1000 x 1500mm high	2	No	6750	13,500.00
	<p><u>Glazing</u></p>				
C	4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty	19	sm	1200	22,800.00
D	Ditto; obscured	2	sm	1400	2,800.00
E	WINDOW CILL; 250 x 50 mm extreme height; once weathered; once throated; reinforced as necessary for handling; surface fair finish 275 mm girth; bedding, jointing and pointing in cement sand (1:3) mortar	13	lm	250	3,250.00
	<p><u>Painting and Decorations</u></p> <p><u>On Metal work</u></p> <p><u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u></p>				
F	General window surfaces; over 300mm girth internal	19	sm	300	5,700.00
	TOTAL FOR WINDOWS CARRIED TO SUMMARY				118,925.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Floor finishes</u>				
	<u>Cement sand screed with approved colour.</u>				
A	25mm thick c/s floor finish coloured to approval.	144	sm	400	57,600.00
B	100mm wide skirting; rounded junction with wall finish, coved junction with floor finish.	49	lm	75	3,675.00
	<i>Carried to collection</i>				61,275.00
	From page BW / 10				134,050.00
	From page BW/ 11(above)				61,275.00
	TOTAL FOR FINISHES CARRIED TO SUMMARY				195,325.00



ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>WORKTOP</u>				
	<u>Concrete Worktops</u>				
	<u>In situ concrete ; reinforced ; class 20/20mm ;vibrated</u>				
A	75mm top	28	sm	1200	33,600.00
	<u>Fabric : BS 4483</u>				
B	Reerence A 142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured ney - no allowance made for laps) including bends : tying wire and distance block	28	sm	400	11,200.00
	<u>Sawn formwork to insitu concrete as described:-</u>				
C	To sides : of soffits of ring beam & worktop	28	sm	260	7,280.00
	<u>NATURAL STONE WALLING</u>				
D	100mm thick approved local : chisel dressed both sides :bedding, jointing and pointing in cement sand (1:3) mortar	14	sm	1100	15,400.00
	<u>Finishes to worktop</u>				
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm 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>				
E	Sides of walls and concrete surfaces	66	sm	350	23,100.00
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply one undercoat and three finishing coats of interior quality emulsion paint to:</u>				
F	Plastered walls	66	sm	300	19,800.00
	<u>Chemical & Reagents shelve rack</u>				
G	Fabricate wooden shelves racks of size 2500 x 2200mm high with 4no horizontal members spaced at 500mm high	1	no	25600	25,600.00
TOTAL FOR WORKTOPS AND FIXTURES CARRIED TO SUMMARY					135,980.00



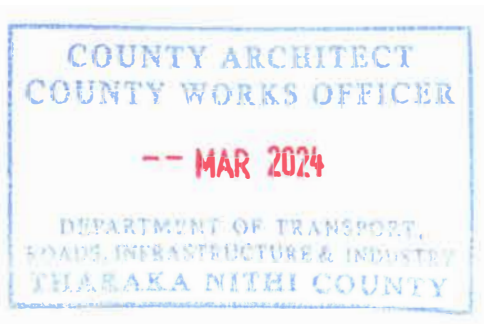
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>SUMMARY</u>				
ELEMENT NO.	TITLE		PAGE NO.		AMOUNT
1	SUBSTRUCTURE (ALL PROVISIONAL)		BW / 3		803,430.00
2	SUPERSTRUCTURE		BW / 4		327,900.00
3	ROOF CONSTRUCTION		BW / 6		399,310.00
4	DOORS		BW / 8		70,520.00
6	WINDOWS		BW / 9		118,925.00
7	FINISHES		BW / 11		195,325.00
8	WORKTOP		BW / 12		135,980.00
					
TOTAL FOR LABORATORY BLOCK CARRIED TO GRAND SUMMARY					2,051,390.00

P.C. & PROVISIONAL SUMS



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PRIME COSTS & PROVISIONAL SUMS</u>				
	<u>PRIME COSTS</u>				
	<u>Prime Cost sums for works to be executed by nominated subcontractors</u>				
A	Allow a provisional sum of Kenya Shillings Eighty Thousand (Kshs 80,000.00) only for Electrical Installations (Connection, Conduiting, Wiring and Electrical Fittings).		ITEM		80,000.00
B	Allow a provisional sum of Kenya Shillings Forty Thousand (Kshs 40,000.00) only for Mechanical Installations (Water Connection, Internal plumbing and internal drainage)		ITEM		40,000.00
	<u>PROVISIONAL SUMS</u>				
	<u>The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required</u>				
C	Allow for Kenya Shillings One Hundred and Thirty Thousand (Kshs 130,000.00) only for Laboratory Gas Installation		ITEM		130,000.00
D	Allow for Kenya Shillings Fifty Thousand (Kshs 50,000.00) only for Contingency Sums		ITEM		50,000.00
E	Allow a provisional sum of Kenya Shillings Sixty Six Thousand (Ksh 66,000.00) only for Project Management.		ITEM		66,000.00
F	Allow a provisional sum of Kenya Shillings Forty Eight Thousand (Ksh 48,000.00) only for Project Documentation and Administration costs.		ITEM		48,000.00
G	Allow a provisional sum of Kenya Shillings Thirty Thousand (Ksh 25,000.00) only for Fabrication of signboard and signage		ITEM		25,000.00
	TOTAL FOR P.C. & PROVISIONAL SUMS CARRIED TO GRAND SUMMARY				439,000.00

GRAND SUMMARY



ITEM	DESCRIPTION	SHS	SHS
	<u>GRAND SUMMARY</u>	FOR OFFICIAL USE	FOR CONTRACTOR'S USE
1	GENERAL PRELIMINARIES		9,610.00
2	MEASURED WORKS		2,051,390.00
	SUB-TOTAL INCLUSIVE OF VAT		2,066,390.00
	PRIME COST & PROVISIONAL SUMS		439,000.00
	TOTAL CARRIED TO FORM OF TENDER KSHS		2,500,000.00

Amount of tender in words: Kenya shillings

.....

Tenderer's signature and stamp.....

Address.....

Date.....

Witness: Name and signature.....

Address.....

Date.....

