



**NEW KENYA PLANTERS CO-OPERATIVE UNION  
PROPOSED RENOVATION OF WAREHOUSES FOR NKCPU IN SAGANA,  
KIRINYAGA COUNTY**

**W.P. ITEM D1173/CE/KYA /2501 JOB NO. 11592A**

**BILLS OF QUANTITIES**

**PROJECT MANAGER**

Works Secretary,  
Ministry of Lands, Public Works, Housing & Urban Development,  
State Department for Public Works,  
P.O Box 30743-00100,  
**NAIROBI, KENYA**

<b><u>ARCHITECT</u></b> Chief Architect, Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>	<b><u>QUANTITY SURVEYOR</u></b> Chief Quantity Surveyor, Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>
<b><u>STRUCTURAL ENGINEER</u></b> Chief Engineer (Structural), Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>	<b><u>MECHANICAL ENGINEER</u></b> Chief Engineer Mechanical (BS), Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>
<b><u>ELECTRICAL ENGINEER</u></b> Chief Engineer Electrical), Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>	<b><u>DESIGNER</u></b> Chief Designer, Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>

**OCTOBER, 2025**

## **PARTICULAR PRELIMINARIES**

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
	<p><b><u>BILL NO. 1</u></b></p> <p><b><u>PARTICULAR PRELIMINARIES</u></b></p> <p><b>A PRICING ITEMS OF PRELIMINARIES</b></p> <p>Prices <b>SHALL BE INSERTED</b> against items of “preliminaries” in the tenderer’s priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.</p> <p><b>B DESCRIPTION OF THE WORKS</b></p> <p>The works to be carried out under this contract constitute: Demolition Works, Walling, Floor Finishes, Ceiling Finishes, Wall Finishes, Windows, Doors, Boundary wall, Civil Works, Electrical and Mechanical Installation Works</p> <p><b>C MEASUREMENTS</b></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 12 of the General Conditions of Contract. The discrepancies shall then be treated as a Variation and be dealt with in accordance with Clause 13 of the said Conditions.</p> <p><b>D LOCATION OF SITE</b></p> <p>The site of the proposed works is at Sagana, The 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><b>E SIGNING OF THE TENDER DOCUMENTS</b></p> <p>The bidder shall append his / her signature and / or company ‘s rubberstamp on each and every page of tender document.</p> <p><b>F BID SECURITY</b></p> <p>The Bidder shall furnish, as part of his bid, a security as specified in the tender advertisement.</p> <p>The bid security shall, at the bidder’s option, be in the form of a certified cheque, bank draft, standby letter of credit or guarantee from a reputable bank located in Kenya or insurance firm approved by the Government. The format of the bank guarantee shall be in accordance with the sample forms of bid security included in the post qualification forms, other formats may be permitted, subject to the prior approval of the Government.</p>	
	<b>Carried to collection</b>	

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
<b>A</b>	<p><b>DEMOLITIONS AND ALTERATIONS</b></p> <p>The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs, etc as directed by the Project Manager and as necessary for the adequate propping and protection of existing property, finishes, workmen employed on the site, employer's agents and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the works and any necessary making good consequent upon this is to be executed to the satisfaction of the Project Manager</p> <p>The works shall be propped, strutted and supported as necessary before any alteration or demolition work commences. Prices shall include for all cleaning and preparatory work to structure and finishes and for making good to all finishes on completion whether or not specifically described.</p> <p>Unless described as set aside for re-use all arising debris and surplus materials shall be carefully removed from building and carted away from site.</p> <p>The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use during their removal unless it is certified by the Project Manager that such damage or breakage was inevitable as a result of the condition of the item concerned</p>	
<b>B</b>	<p><b>CLEARING AWAY</b></p> <p>The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Project Manager.</p> <p>The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.</p>	
<b>C</b>	<p><b>CLAIMS</b></p> <p>It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.</p>	
	<b>Carried to collection</b>	
<b>A</b>	<b>PAYMENTS</b>	

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
	<p>The tenderer's attention is drawn to the fact that the Government shall not make advance payments but pays for work done and materials delivered to site: all in accordance with Clause 14 of the General 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>	
<b>B</b>	<p><b>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</b></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 thus instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of activities being carried out by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.</p>	
<b>C</b>	<p><b>WORKING CONDITIONS</b></p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.</p>	
<b>D</b>	<p><b>SIGNBOARD</b></p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
<b>E</b>	<p><b>LABOUR CAMPS</b></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>	
<b>F</b>	<p><b>MATERIALS FROM DEMOLITIONS</b></p> <p>Any materials arising from demolitions and not re-used shall become the property of the client</p>	
	<b>Carried to collection</b>	

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
<b>A</b>	<p><b>PRICING RATES</b></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>	
<b>B</b>	<p><b>SECURITY</b></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>	
<b>C</b>	<p><b>URGENCY OF THE WORKS</b></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>	
<b>D</b>	<p><b>PAYMENT FOR MATERIALS ON SITE</b></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>	
<b>E</b>	<p><b>EXISTING SERVICES</b></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>	
<b>F</b>	<p><b>CONTRACT COMPLETION PERIOD</b></p> <p>The contract completion period in accordance with condition clause 10 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>	

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
	Carried to collection	
<b>A</b>	<p><b>PERFORMANCE BOND</b></p> <p>A bond of 5% of the contract sum will be required in accordance with clause 48 (as amended) 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>	
<b>B</b>	<p><b>TENDER DOCUMENTS</b></p> <p>Tender documents are as listed in Sub-Clause 6 of the Instruction to Tenderer.</p>	
<b>A</b>	<p><b>DELIVERY OF TENDER</b></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 advertisement.</p> <p>Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.</p>	
<b>C</b>	<p><b>VALUE ADDED TAX</b></p> <p>The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1<sup>st</sup> September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for prices for VAT and any other Government taxes currently in force.</p> <p>The tenderer is advised that in accordance with Government public notice No. 35 &amp; 36 Dated 11<sup>th</sup> September 2003 operational from 1<sup>st</sup> October 2003, VAT will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment for VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with.</p> <p><b>ALL RATES SHALL BE VAT INCLUSIVE</b></p>	
	Carried to collection	
	<b>PROJECT MANAGEMENT EXPENSES</b>	

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
<b>A</b>	Allow a provisional sum of Kenya Shillings Three Million Shillings (Kshs 3,000,000.00) only for the Project Management expenses.	3,000,000.00
<b>B</b>	Allow a percentage for Contractor's overhead costs and profits (-----%)	
	<b>TRANSPORT</b>	
<b>C</b>	<p>The contractor shall provide transport from State Department for Sagana and back whenever instructed by the PM for the duration of the contract. The transport shall be in form of Nine Seater Nissan Van or equivalent. The vehicle together with a licensed and competent driver, shall be available to the PM for the duration of the trip until released:</p> <p>The contractor shall ensure that the vehicle is properly licensed, comprehensively insured and in good state of maintenance.</p> <p>The Project Manager may reject an unsatisfactory vehicle or driver and order acceptable replacement</p> <p><b>Reimbursement for transport shall be as follows:-</b></p> <p>By a rate per (1 day) trip for providing a satisfactory vehicle together with a licensed, competent and acceptable driver and his subsistence allowances, adequate fuel for the trip as per tenderer's quoted rates below.</p> <p>Allow for providing a satisfactory vehicle together with a licensed and competent driver, adequate fuel for the 1 day trip and driver allowance</p> <p>Allow a percentage for Contractor's overhead costs and profits (-----%)</p>	
	<b>Carried to collection</b>	



**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
A	<p><b><u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u></b></p> <p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p><b>Period of Final Measurement</b>                      <b>3 Months</b> From Practical completion</p> <p><b>Defects Liability Period</b>                              <b>6 Months</b> from Practical completion</p> <p><b>Date for Possession</b>                              To be agreed with the Project Manager</p> <p><b>Date for Completion</b>                              <b>52 Weeks</b> from date of Possession</p> <p><b>Liquidated and Ascertained</b>                      At the rate of Kshs.. <b>0.01 %</b> per Day or part thereof of the contract price</p> <p><b>Prime cost</b> sums for which ..... The Contractor desires to tender .....</p> <p><b>Period of Interim Certificates</b>                              Monthly</p> <p><b>Period of Honouring Certificates</b>                              30 days</p> <p><b>Percentage of Certified Value Retained</b>                              10%</p> <p><b>Limit of Retention Fund</b>    5%</p>	
	Carried to collection	

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS
	<p><b><u>COLLECTION</u></b></p> <p>Brought forward from page PP/1</p> <p>Brought forward from page PP/2</p> <p>Brought forward from page PP/3</p> <p>Brought forward from page PP/4</p> <p>Brought forward from page PP/5</p> <p>Brought forward from page PP/6</p> <p>Brought forward from page PP/7</p>	
	<b>TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY</b>	

## GENERAL PRELIMINARIES

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

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

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A.</b>	<p><b>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</b></p> <p><b>Attendance ;</b> Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary;providing space for office accommodation and for storage of plant and materials;providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p><b>Fix Only:-</b></p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>		
<b>B.</b>	<p><b>EMPLOYER</b></p> <p>The "Employer" is <b>New Kenya Planters Cooperative Union (NKPCU)</b></p> <p>The term "Employer" and " <b>New Kenya Planters Cooperative Union (NKPCU)</b>" wherever used in the contract document shall be synonymous</p>		
<b>C.</b>	<p><b>PROJECT MANAGER</b></p> <p>The term "P.M." wherever used in these Bills of Quantities shall be deemed to imply the Project Manager as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government.</p>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>KSHS</b>	<b>CTS</b>
<b>A</b>	<b>ARCHITECT</b>  The term "Architect" shall be deemed to mean "The Project Manager." as defined above whose address unless otherwise notified is State Department For Public Works, P.O. Box 30743-00100, NAIROBI.		
<b>B</b>	<b>QUANTITY SURVEYOR</b>  The term "Quantity Surveyor" shall be deemed to mean "The Project Manager." as defined above whose address unless otherwise notified is State Department For Public Works, P.O. Box 30743-00100, NAIROBI.		
<b>C</b>	<b>ELECTRICAL ENGINEER</b>  The term "Electrical Engineer" shall be deemed to mean "The Project Manager." as defined above whose address unless otherwise notified is State Department For Public Works, P.O. Box 30743-00100, NAIROBI.		
<b>D</b>	<b>MECHANICAL ENGINEER</b>  The term "Mechanical Engineer" shall be deemed to mean "The Project Manager." as defined above whose address unless otherwise notified is State Department For Public Works, P.O. Box 30743-00100, NAIROBI.		
<b>E</b>	<b>STRUCTURAL ENGINEER</b>  The term "Structural Engineer" shall be deemed to mean "The Project Manager." as defined above whose address unless otherwise notified is State Department For Public Works, P.O. Box 30743-00100, NAIROBI.		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>FORM OF CONTRACT</b></p> <p>The Form of Contract shall be as stipulated in the Republic of Kenya's Standard Tender Document for Procurement of Works; Building and Associated Civil Engineering Works; (April 2022) included herein</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p>		
<b>B</b>	<p><b>PLANT, TOOLS AND VEHICLES</b></p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and except for such items specifically and only required for the use of nominated Sub-Contractors as described herein. No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.</p>		
<b>C</b>	<p><b>MATERIALS AND WORKMANSHIP.</b></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 on site when required for use in the works when required. The Bills of Quantities shall not be used for the purposed of ordering materials</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 materialsto 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>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<b>SIGN FOR MATERIALS SUPPLIED.</b>  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		
<b>B</b>	<b>STORAGE OF MATERIALS</b>  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.		
	<b>Carried to collection</b>		



**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>SAMPLES</b></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. 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>		
<b>B</b>	<p><b>GOVERNMENT ACTS REGARDING WORK PEOPLE ETC.</b></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.</p> <p>No claim in respect of want of knowledge in this connection will be entertained.</p>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>SECURITY OF WORKS ETC.</b></p> <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>B</b>	<p><b>PUBLIC AND PRIVATE ROADS.</b></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>C</b>	<p><b>VISIT SITE AND EXAMINE DRAWINGS.</b></p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>ACCESS TO SITE AND TEMPORARY ROADS.</b></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>		
<b>B</b>	<p><b>AREA TO BE OCCUPIED BY THE CONTRACTOR</b></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>		
<b>C</b>	<p><b>OFFICE ETC. FOR THE PROJECT MANAGER</b></p> <p>The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle the site office of the type noted in the Particular Preliminaries, complete with Furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect and maintain a lock-up type water or bucket closet for the sole use of the PROJECT MANAGER including making temporary connections to the drain where applicable to the satisfaction of Government and Medical Officer of Health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces. The office and closet shall be completed before the Contractor is permitted to commence the works. The Contractor shall make available on the Site as and when required by the "PROJECT MANAGER" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic or linen tape.</p>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<b>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</b>  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.		
<b>B</b>	<b>SANITATION OF THE WORKS</b>  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		
<b>C</b>	<b>SUPERVISION AND WORKING HOURS</b>  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.		
<b>D</b>	<b>PROVISIONAL SUMS.</b>  The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement. Such sums are net and no addition shall be made to them for profit.		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>PRIME COST (OR P.C.) SUMS.</b></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>B</b>	<p><b>PROGRESS CHART.</b></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>		
<b>C</b>	<p><b>ADJUSTMENT OF P.C. SUMS.</b></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>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>ADJUSTMENT OF PROVISIONAL SUMS.</b></p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued , but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>		
<b>B</b>	<p><b>NOMINATED SUB-CONTRACTORS</b></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>		
<b>C</b>	<p><b>DIRECT CONTRACTS</b></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 in the priced Bills of Quantities will be adjusted as described for P.C. Sums is allowed.</p>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>ATTENDANCE UPON OTHER TRADESMEN, ETC.</b></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>		
<b>B</b>	<p><b>INSURANCE</b></p> <p>The Contractor shall insure as required in Clause 18 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>		
<b>C</b>	<p><b>PROVISIONAL WORK</b></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>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>KSHS</b>	<b>CTS</b>
<b>A</b>	<p><b>ALTERATIONS TO BILLS, PRICING, ETC.</b></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>		
<b>B</b>	<p><b>BLASTING OPERATIONS</b></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>		
<b>C</b>	<p><b>MATERIALS ARISING FROM EXCAVATIONS</b></p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>		
	<b>Carried to collection</b>		



**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<p><b>PROTECTION OF THE WORKS.</b></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>B</b>	<p><b>REMOVAL OF RUBBISH ETC.</b></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>		
<b>C</b>	<p><b>WORKS TO BE DELIVERED UP CLEAN</b></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>D</b>	<p><b>GENERAL SPECIFICATION.</b></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
<b>A</b>	<b>TRAINING LEVY</b>  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.		
<b>B</b>	<b>MATERIALS ON SITE</b>  All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.		
<b>C</b>	<b>HOARDING</b>  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 approximately three hundred and fifty metres. 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.		
<b>D</b>	<b>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</b>  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.		
	<b>Carried to collection</b>		

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	KSHS	CTS
	<u><b>COLLECTION</b></u>		
	Brought Forward From Page GP/1		
	Brought Forward From Page GP/2		
	Brought Forward From Page GP/3		
	Brought Forward From Page GP/4		
	Brought Forward From Page GP/5		
	Brought Forward From Page GP/6		
	Brought Forward From Page GP/7		
	Brought Forward From Page GP/8		
	Brought Forward From Page GP/9		
	Brought Forward From Page GP/10		
	Brought Forward From Page GP/11		
	Brought Forward From Page GP/12		
	Brought Forward From Page GP/13		
	Brought Forward From Page GP/14		
	Brought Forward From Page GP/15		
	<b>TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY</b>		

## LABORATORY

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Disposal:</u> Load and cart away excavated materials from site to a dumping site approved by the Local Authority.	468	CM		
B	<u>Filling:</u> 300mm Thick Approved hand packed hardcore: compacted in layers not exceeding 150mm Thick : to the satisfaction of the Structural Engineer.	87	CM		
C	Approved Imported murram fillings to make up levels : compacted in layers not exceeding 150mm Thick : to the satisfaction of the Structural Engineer.	226	CM		
D	50 mm Thick Quarry dust blinding to surfaces of hardcore filling, levelled and compacted to approval.	282	SM		
E	<u>Anti-Termite Treatment:</u> Insecticide treatment on top of hardcore filling and over foundation walls applied as per <b>manufacturer's instruction with a 10 year guarantee .</b>	282	SM		
F	<u>Damp proof mebrane</u> Single layer of 1000 gauge polythene sheeting laid on blinded hardcore with 150 mm side laps to receive concrete.	282	SM		
	<b>CARRIED TO COLLECTION</b>				

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
A	<u>B.R.C. Mesh</u> Mesh fabric reinforcement complying with B. S 1483Ref A142 embedded in floor slab (measured net with no allowance for minimum of 225mm. laps) including tying wire and supporting as required.	282	SM		
B	Ditto ramp ditto.	5	SM		
	<u>FORMWORK</u> <u>Sawn timber formwork to:</u>				
C	Sides of column bases.	15	SM		
D	Vertical sides of strip footing	25	SM		
E	Vertical sides of Foundation Columns.	15	SM		
F	Edges of floor bed girth 75 - 150 mm high	87	LM		
G	Edges of risers girth 75 - 150 mm girth for the Entrance steps.	8	LM		
H	Edges of ramp girth 150-225 mm girth.	21	LM		
J	<u>Foundation Walling</u> <u>200mm Thick approved natural stone; local; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar and reinforced with 25mm wide x 20 gauge hoop iron in alternate courses as described in:</u>  200 mm Thick.	133	SM		
	<b>CARRIED TO COLLECTION</b>				



## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
	<u>COLLECTION</u>				
	Brought forward from page LB/1				
	Brought forward from page LB/2				
	Brought forward from page LB/3				
	Brought forward from page LB/4				
	Brought forward from page LB/5				
	TOTAL CARRIED TO SUMMARY				

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
A	ELEMENT NO. 2:  REINFORCED CONCRETE WORK:  CONCRETE WORK:  <u>Vibrated reinforced concrete Class 20 as described in:</u>  Columns	5	CM		
B	Ring Beams	15	CM		
C	Concrete gutter	35	CM		
	REINFORCEMENT STEEL (Provisional):  <u>Deformed high yield steel ribbed bars reinforcement to KS 573: 2014 for cutting, bending, hoisting and fixing including all necessary tying wires, distance blocks, spacers, templates and stools</u>				
C	8 mm diameter bars	437	KG		
D	12 mm ditto	3573	KG		
	FORMWORK:  <u>Sawn timber formwork to:</u>				
E	Sides of columns	20	SM		
F	Sides and soffits of beams	111	SM		
G	Sides and soffits of concrete gutter	154	SM		
	Total Amount Carried to Section Summary				

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
A	ELEMENT NO.3  WALLING  EXTERNAL WALLING  <i>Approved Natural local stone of the approved colour; squared ; bush hammered ; in 200mm course heights, bedded and jointed in cement sand mortar (1:3), reinforced with 20 gauge x 25mm wide hoop iron reinforcement and column wall ties in every alternate course</i>  200 mm Thick walling.	254	SM		
B	Ditto Parapet walling.	74	SM		
C	Eave filling to 200mm Thick walls extreme height 300mm  <i>Three- ply bituminous felt damp proof course bedded in cement and sand (1:3) mortar (measured nett allow for 300mm laps):-</i>	77	LM		
D	200mm wide under walls  INTERNAL WALLING  <i>Machine cut local stone walling in 200mm course heights, bedded and jointed in cement sand mortar (1:3), reinforced with 20 gauge x 25mm wide hoop iron reinforcement and column wall ties in every alternate course</i>	171	LM		
E	200 mm Thick walling.  <i>Three- ply bituminous felt damp proof course</i>	165	SM		
F	200mm wide under walls	46	LM		
	Carried To Collection				

**PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY**

Item	Description	Quantity	Unit	Rate	Amount
	<u>Dry Wall Partitions</u>				
	<u>Frameless glass Partitions</u>				
	<u>Powder coated aluminium standard U section sections to B.S.4873; channels mitred at corners including reinforcing cleats; All framing complete with fixing accessories such as bolts, nuts, screws etc, lugs and softwood packing piece for fixing the frame to walls or concrete; all to approval colours</u>				
A	12 mm thick frameless toughened glass with window film fixed to aluminium U channels with rubber gaskets (m/s) in panes 0.5 to 3.0 square meters	92	SM		
B	50 x 12mm Thick approved rubber lining to aluminium U framing (m/s)	256	LM		
C	Window film fixed to the toughened glass; all to Project Manager's details.	79	SM		
D	76 x 1.4 mm thick U-shaped aluminium channel screwed to floor by 75mm long rawbolts	124	LM		
	<u>Carried To Collection</u>				
	<u><b>COLLECTION</b></u>				
	Brought forward from page LB/8				
	Brought forward from above				
	<i><b>Total Amount Carried to Summary</b></i>				

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
	<u>Supply and fix the following Unplasticised PVC rainwater pipes and fittings:solvent welded joints)</u>				
A	100 mm Diameter downpipe fixed to masonry wall with and including all matching brackets and clips	35	LM		
B	Extra over gutters for 100 mm diameter outlet	10	NO		
C	Extra over down pipe for 100 mm swan- neck bend	10	NO		
D	Ditto for 100 mm shoe	10	NO		
E	Rainwater anti-splash shoe	10	NO		
	<u>Carried To Collection</u>				
	<b><u>COLLECTION</u></b>				
	Brought forward from page LB/10				
	Brought forward from page LB/11				
	Brought forward from above				
	<b>Total Amount Carried to Section Summary</b>				



**PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY**

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>ELEMENT NO.5</u></b>				
	<b><u>WINDOWS:</u></b>				
	<b><u>Window Cill</u></b>				
A	Supply and Fix 275x50mm Thick window cill once rebated and throated laid and jointed in cement and sand (1:3) mortar.	40	LM		
	<b><u>Window Board</u></b>				
	<b><u>Supply and Fix Mahogany: selected and kept clean</u></b>				
B	200 x 25 mm Window board; plugged	40	LM		
C	35 x 35 mm decorated beading	40	LM		
	<u>Supply, assemble and fix the following purpose-made welded mild steel casement windows complete with hinges and building lugs to masonry or concrete and incorporating louvered permanent ventilation panels infilled with approved mosquito gauze wire netting, primed with onecoat or re-oxide primer, comprising standard T-section framing, SHS 50x25x3mm and Intermediate members 25x25x3mm MS T-Section including all necessary couling mulions, transomes, metal gauge permanent vents and afterwards easing and oiling and adjusting opening lights on :-</u>				
	<b><u>Notes</u></b>				
	<u>Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging</u>				
D	Window overall size 3000 X1800mm High.	7	NO		
E	Ditto: 1500 X1800mm High.	6	NO		
F	Ditto: 1500 X1800mm High.	1	NO		
	<i>Carried to collection</i>				

**PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY**

Item	Description	Quantity	Unit	Rate	Amount
	<u>Glass and glazing</u>				
	<u>Supply and fix 6 mm Thick clear sheet glass and glazing with linseed oil based putty to metal as described in:</u>				
A	Panes not exceeding 0.09 square meters.	56	SM		
	<u>Prepare, prime with one coat of rust-inhibiting primer and Spray one undercoat and two finishing coats of gloss oil paint as described on:</u>				
B	General metal surfaces(measured over one side)	112	SM		
	<i>Carried to Collection</i>				
	<b><u>COLLECTION</u></b>				
	Brought forward from page LB/13				
	Brought forward from above				
	<i>Total Amount Carried to Section Summary</i>				

**PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY**

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>ELEMENT NO.6</u></b>				
	<b><u>DOORS</u></b>				
	<u>Frames &amp; Finishings</u>				
	<u>Supply and Fix Wrot Mahogany; plugged, screwed and pelleted</u>				
A	150 x 50mm frame with three labours : moulded screwed and pelleted.	61	LM		
B	Architrave to detail size, 50 x 25mm	61	LM		
C	Quadrant bead, diameter 25mm	61	LM		
D	40 x 25 mm glazing beading.	34	LM		
	<b><u>Solid Flush doors</u></b>				
	<u>Supply and Fix 45 mm (finished) solid core flush door faced on both sides with 5mm Thick mahogany veneer and 15 mm x 15 mm hardwood beadings pinned and glued to door on both faces to form grids to architect's details and approval: hardwood lipped on all edges to approval:</u>				
E	Single leaf door size 900 x 2400mm High.	7	NO		
F	Single leaf door size 1100 x 2400mm High.	2	NO		
	<b><u>Frameless Glass Door</u></b>				
G	12 mmx 2400 x 3000 mm high laminated armour glass frameless door comprising 2No. equal sliding leaves each size 1200 x 2400mm high and hang to wall with and including floor springs and complete with and including all necessary iron mongery	1	NO		
	<b>CARRIED TO COLLECTION</b>				

**PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY**

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>Ironmongery</u></b>				
	<i><u>Supply and fix the following ironmongery including all necessary matching screws.</u></i>				
A	Heavy duty stainless steel hinges with washers	16	PRS		
B	40mm Diameter rubber door stops	13	NO		
C	3 -lever mortice lock complete with pair of brass lever handle.	9	NO		
	<b><u>Painting and Decorating</u></b>				
	<i><u>Prepare and apply one undercoat and two finishing coats high quality polyurethane clear lacquer to wooden surfaces as supplied by an approved Manufacturer : internally and/or externally : to</u></i>				
E	General surfaces of wood work (m.o.b.s)	45	SM		
F	Frames; over 100mm-200mm girth;	61	LM		
G	Frames not exceeding 100mm girth; internal.	61	LM		
	<i><u>Prime backs of wood before fixing with aluminium or other approved primer on:</u></i>				
F	Surfaces exceeding 100- 200 mm girth	61	LM		
	<b>CARRIED TO COLLECTION</b>				
	<b><u>COLLECTION</u></b>				
	Brought forward from page LB/15				
	Brought forward from above				
	<b>TOTAL CARRIED TO SECTION SUMMARY</b>				

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>ELEMENT NO.7</u></p> <p><u>FINISHES:</u></p> <p><u>INTERNAL FINISHES:</u></p> <p><u>FLOOR FINISHES</u></p> <p><u>Cement and sand (1:3) as described in:</u></p> <p>32 mm Thickt to receive Grannito floor tiles (m.s)</p> <p><u>Granitto tiles</u></p> <p><u>Approved matt non-slip granitto tiles;"Saj Ceramics" or other equal and approved pattern; bedded on screed (m/s) with an approved adhesive, jointed and flush pointed with grouting to match tile to including all spacers and expansion joints</u></p>	282	SM		
B	600 x 600 x 12mm Thick tiles with continuous joints not exceeding 6mm wide both directions	282	SM		
C	100mm high skirting	52	LM		
	CARRIED TO COLLECTION				

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

**PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY**

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>EXTERNAL WALL FINISHES</u></b>				
	<i><u>Render: 18mm Thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or stone work base generally to: -</u></i>				
A	Extra over walling for key pointing externally; patterns to Architect's approval  <i><u>12mm(minimum) two coat plaster, 9 mm first coat of cement and sand (1:6),mmsecon coat of cement and lime putty (1:10); steel trowelled smooth to:</u></i>	405	SM		
B	Beams.	45	SM		
C	Columns.	18	SM		
	<b><u>Painting and Decorating</u></b>				
	<i><u>Prepare and apply exterior quality "marmoran" wall coating; "permacrete" with 2mm Thick marmoran top coat: colours and patterns as specified by the Architect : to manufacturers specifications and Architects approval : on rendering (m.s.); to</u></i>				
D	Rendered stone wall and concrete surfaces	36	SM		
	<b><u>CARRIED TO COLLECTION</u></b>				
	<b><u>COLLECTION</u></b>				
	Brought forward from page LB/17				
	Brought forward from page LB/18				
	Brought forward from page LB/19				
	Brought down from above				
	<b><u>TOTAL CARRIED TO SECTION SUMMARY</u></b>				



## PROPOSED RENOVATION WORKS FOR NKPCU SAGANA WAREHOUSE KIRINYAGA COUNTY

[illegible]

**BOUNDARY WALL**

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>BILL NO.4</u></b>  <b><u>BOUNDARY WALL</u></b>  <b><u>ELEMENT .01</u></b>  <b><u>SUBSTRUCTURE (All Provisional)</u></b>  <b><u>Site Preparation.</u></b>				
A	Carefully remove existing chainlink fencing with and including 150x150 mm cranked concrete post at 3000 mm c/c, 3no barbed wire strands, overall 2700mm high; cart away arisings as directed by the Project Manager (Approximately 990 M long)		ITEM		
B	Clear site of grass, bushes, shrubs and all vegetation and the like;cart away as directed; to approved site	709	SM		
C	Carry out oversite excavation of top soil average depth 150mm, load and cart away as directed.	709	SM		
	<b><u>Bulk Excavations &amp; Earthworks</u></b>				
D	Excavate trenches to receive foundation strip footing commencing from reduced level not exceeding 1.50 metres deep.	1,064	CM		
E	Ditto column bases not exceeding 1.50 metres deep.	853	CM		
F	Extra over all kinds of excavations for excavating in rock irrespective of class.	285	CM		
	<b><u>Disposal of Water.</u></b>				
H	Allow for keeping excavation free from water by any means		ITEM		
I	Allow for maintaining sides of excavation by plunking and strutting		ITEM		
<b>Total Carried to Collection</b>					

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Planking and Strutting.</u></b>				
	<u>Disposal of excavated material</u>				
A	Backfilling with selected excavated material filling including leveling and consolidating in 150 mm layers	1,266	CM		
B	Load ,wheel and cart away surplus excavated material and deposit in approved dumping area	995	CM		
	<b><u>Concrete Work.</u></b>				
	<u>Insitu concrete (mix 1:4:8) in:-</u>				
C	50mm Thick Concrete blinding to Column bases	569	SM		
D	Ditto; strip foundations	710	SM		
	<u>Vibrated reinforced concrete Class 20/20mm</u>				
E	Column bases	227	CM		
F	Foundation strip footing	142	CM		
G	Columns	107	CM		
H	Ground Beams	106	CM		
	<b><u>Reinforcement.</u></b>				
	<u>Reinforcement (all provisional)</u>				
	<u>High yield twisted steel bar reinforcement to BS4461</u>				
I	Assorted	46,530	KG		
<b>Total Carried to Collection</b>					

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Fair Face formwork as described to:</u>				
A	Sides of foundations strip	473	SM		
B	Sides of Column bases	759	SM		
C	Sides of columns	1,061	SM		
D	Sides of Tie Beams	1,422	SM		
	<u>Damp Proof Course</u> <u>Damp proof course : bituminous felt : bedded incement and sand</u> <u>mortar (1:3) : 300 mm laps (measured net-no allowance for laps)</u>				
E	200 mm wide	1,182	LM		
	<u>200mm thick approved natural stone: local;roughly squared to</u> <u>foundation walling: bedding and jointing in cement sand (1:3) mortar</u> <u>including reinforcing with hoop iron ties every alternate course.</u>				
F	Walling thickness 200mm	1,773	SM		
	<u>Expansion Joint</u>				
G	12mm thick flexel expansion	25	SM		
H	25X25mm mastic sealer at every 25 metres in 300mm wide columns	92	LM		
	<u>Plinth Treatment</u>				
I	12mm thick render (400mm girth) of cement to sand 1:4 to receive bituminous paint.	709	SM		
J	Prepare and apply one under coat and two finishing coats of black bituminous paint.	709	SM		
<b>Total Carried to Collection</b>					
	<u><b>COLLECTION.</b></u>				
	Brought from: Page 1/1				
	Brought from: Page 1/2				
	Brought from Above				
<b>TOTAL FOR SUBSTRUCTURE CARRIED TO SUMMARY</b>					

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 2</u></b> <b><u>SUPERSTRUCTURE</u></b>  <b><u>WALLING</u></b>  <u>Approved machine cut stone of the approved colour; squared ; hand dressed one side to architect approval ; bedding, jointing in cement and sand mortar (1:4);reinforeced with hoop iron in every alternate course</u>				
A	200mm thick Walling	3,546	SM		
B	Extra-over for pointing and keying in recessed horizontal and flush vertical points	7,092	SM		
	<u>Vibrated reinforced concrete: Class 20/20</u>				
C	Columns	107	CM		
D	Tie beam	106	CM		
	<u>Reinforcement (all provisional)</u> <u>High yield twisted steel bar reinforcement to BS4461</u>				
E	Assorted	35,500	KG		
	<u>Fair Face formwork as described to:</u>				
G	Sides of columns	1,422	SM		
H	Ditto to sides of beams	1,064	SM		
	<u>Expansion Joint</u>				
I	12mm thick flexel expansion	25	SM		
J	25X25mm mastic sealer at every 25 metres in 300mm wide columns	92	LM		
	<u>Render</u>  <u>15 mm thick (minimum) two coat of cement and sand ( 1:4) render;</u>				
K	To columns; vertical	711	SM		
L	Ditto sides of beams	1,064	SM		
<b>Carried to Collection</b>					

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Wall Master</u>				
A	Prepare and apply wall master as per manufacturers instructions to architects approval to concrete surfaces	1,773	SM		
	<u>Coping</u>				
B	300x75mm thick pre-cast concrete coping twice weathered and throated bedded on 200mm thick wallings in cement sand mortar	1,182	LM		
C	400x400x75mm pier caps , weathered and throated on all sides fixed to columns.	415	NO		
	<u>WEEP HOLES</u>				
D	Allow for and create 2NO 100mm diameterweep holes at ground levels every 3 metres centres on masonry/concrete walls and prevent ingress using wire mesh grouted in cement sand mortar	742	NO		
	<u>GATE</u>				
E	Supply and fix to position simple mild steel ready primed gate size 5500 x 3000mm high in two equal openable leafs to details complete with pedestrian gate size 1200 x 2100mm high, comprising mild rail, mullions, transoms and braces including fixing to concrete columns and paintings as necessary	1	NO		
	Supply and fix to position simple pedestrian mild steel gate size 1200 x 2100mm high, comprising mild rail, mullions, transoms and braces including fixing to concrete columns and paintings as necessary	1	NO		
	Prepare touch up primer and apply two <u>undercoats and one finishing coat gloss oil paint as "Basco Paints - Duracoat" or "Crown Paints" on metal:</u>				
F	To metal surfaces	33	SM		
<b>Carried to Collection</b>					
	<u>COLLECTION</u>				
	Brought forward from page W/1				
	Brought forward from Above				
<b>TOTAL FOR SUPERSTRUCTURE CARRIED TO SUMMARY</b>					

## PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
1	SUBSTRUCTURE				
2	SUPERSTRUCTURE				
TOTAL FOR BOUNDARY WALL CARRIED TO GRAND SUMMARY					



**GATE HOUSE**

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>BILL NO.5</u></b>				
	<b><u>GATE HOUSE</u></b>				
	<b><u>ELEMENT NO. 1</u></b>				
	<b><u>SUBSTRUCTURES (ALL PROVISIONAL)</u></b>				
	<u>Site Preparation</u>				
A	Clear site of all bushes, shrubs and grub up roots and remove from site	65	SM		
	<u>Excavations</u>				
B	Excavate trenches for strip foundations and column bases not exceeding 1.5m from reduced level.	68	CM		
C	Extra over excavations for excavating in hard rock at any depth	18	CM		
	<u>Disposal of excavated materials</u>				
D	Fill in and ram approved stabilised material	32	CM		
E	Load surplus excavated material and cart away	32	CM		
	<u>Planking and Strutting</u>				
F	Allow for Planking and strutting to sides of all excavations including keeping excavations free from fallen materials		Item		
	<u>Disposal of Water</u>				
G	Allow for keeping excavation free from all water by pumping, bailing or otherwise		Item		
	<u>Hardcore filling</u>				
H	300 mm thick fillings, rolled, levelled and compacted in 150mm layers to make up levels	13	CM		
J	50mm stone dust blinding to surfaces of hardcore	42	SM		
	<u>Damp Proof Membrane</u>				
K	Single layer of 1000 gauge polythene sheeting laid on blinded hardcore with 150 mm side laps to receive concrete	42	SM		
	<b>Carried to Collection</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Anti- termite treatment</u>				
A	Treat surface of hardcore with 'Dieldrin' or similar approved ant-termite solution applied strictly in accordance with the manufacturer's instructions	42	SM		
	<u>Concrete work</u>				
	<u>Plain concrete class 15(1:3:6) in :-</u>				
B	50mm Concrete blinding to strip foundations	58	SM		
	<u>Vibrated Reinforced concrete class 20 in :-</u>				
C	Strip foundations	10	CM		
D	150 mm thick ground floor slab	42	SM		
	<u>bending, hooking, tying wire, cutting spacers and supporting all</u>				
	<u>described</u>				
E	Assorted Sizes	1,657	KG		
	<u>Steel fabric mesh reinforcement to B.S. 4483</u>				
F	BRC mesh fabric reinforcement ref A142 (weighing 2.44kg/m <sup>2</sup> ) laid in ramp (measured net-no allowance made for laps)	42	SM		
	<u>Sawn formwork to: -</u>				
G	Vertical Sides of strip footing	48	SM		
H	Vertical edges of slab 75 -150 mm high	102	LM		
	<b>Carried to Collection</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Masonry</u>				
	<u>cement and sand mortar as before described</u>				
A	200 mm Thick walling	112	SM		
	<u>Cement/sand (1:3)</u>				
B	12mm Thick external rendering to plinth surfaces finished smooth with a wood float	12	SM		
C	Prepare and apply two coats of bituminous paint to rendered surfaces externally	12	SM		
	<b>Carried to collection</b>				
	<b><u>COLLECTION</u></b>				
	From page GH/ 1				
	From page GH/ 2				
	From above				
	<b>Total for Substructure to Summary</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO.2</u></b>				
	<b><u>R.C. SUPERSTRUCTURE AND WALLING</u></b>				
	<u>Vibrated Reinforced concrete class 20 in :-</u>				
A	Ring beam	10	CM		
	<u>Supply and fix steel bar reinforcement including bending, hooking, tying wire, cutting spacers and supporting all in position</u>				
B	Assorted sizes	1,238	KG		
	<u>Sawn formwork as described to:-</u>				
C	Sides and soffits of ring beams	115	SM		
	<b><u>EXTERNAL WALLING</u></b>				
	<u>Dressed natural stone walling bedded and jointed in cement</u>				
D	200mm thick walling	257	SM		
E	200mm thick parapet walling	68	SM		
	<u>Coping</u>				
F	290 x 100mm thick cut stone coping bedded and jointed in	90	LM		
	<u>Approved hessian based damp proof course</u>				
G	200mm Wide	106	LM		
	<b><u>INTERNAL WALLING</u></b>				
	<u>Selected machine dressed natural stone walling bedded and</u>				
H	200mm thick walling	35	SM		
	<u>Approved hessian based damp proof course</u>				
I	200mm Wide	42	LM		
	<b>Total for Superstructure and Walling to Summary</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><b><u>ELEMENT NO. 3</u></b></p> <p><b><u>ROOFING AND RAINWATER DISPOSAL</u></b> (All provisional)</p> <p>All timber to be in Sawn cypress grade II, pressure impregnated and well seasoned.The contractor to allow in his rates for proper joints and connections including scarfed joints and hoop iron as may deem necessary;</p> <p><b><u>Trusses</u></b></p> <p>The following in 2 No. Truss type T9, effective span 1300mm with a rise of 1200mm and raised to a height of 3000mm above ground level;</p>				
A	150 x 50mm Top Chord	58	LM		
B	150 x 50mm Bottom Chord	38	LM		
C	150 x 50mm Struts and Ties	16	LM		
	<b><u>Structural Timber</u></b>				
D	75 x 50mm Underpurlin	116	LM		
E	200 x 25mm Ridge Board	78	LM		
F	150 x 50mm Common rafters	264	LM		
G	150 x 50mm Hip rafters	605	LM		
	<b><u>In Wrot celcured cypress as described;</u></b>				
H	100 x 50mm Wall plates plugged/bolted [bolts and holes measured separately]	72	LM		
	<b><u>Roof coverings</u></b> <u>Supply and fix 0.50mm thick 28 Gauge "ZAS" IT5 box-profile and prepainted sheets laid with 94mm minimum side laps and 200mm minimum end laps to steel purlins with and including steel hook bolts with rubber capping, washers and nuts all as per Manufacturer's instructions</u>				
I	Roof covering at 80 from the horizontal including all necessary fixtures	86	SM		
	<b>Carried to Collection</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Eaves Finishes</u>				
	<u>Sawn Cypress as described:</u>				
A	100 x 25mm thick tongued and grooved boarding to eaves in appoved fixed to 75 x 75mm sawn cypress battens at 600mm centres	64	SM		
B	225 x 25mm fascia board	72	LM		
C	100 x 50mm bearer	64	LM		
D	100 x 25mm prime grade cypress plugged, screwed and pelleted to wall	71	LM		
	<u>Rainwater Disposal</u>				
E	24 gauge mild steel rainwater gutter fixed to timber fascia (m.s) with bracket supports at 600mm centres	72	LM		
F	24 gauge mild steel galvanized rainwater downpipes size 75 x 75mm fixet walls with and including holderbats at 1200mm centres	36	LM		
	<u>Extra - over for</u>				
G	Swan-neck, 600mm long	4	NO		
H	Bends	4	NO		
I	Rainwater anti-splash shoe	4	NO		
	<u>Painting</u>				
	<u>Prepare and apply one coat Aluminium primer to back of timber surfaces before fixing:</u>				
J	Surfaces not exceeding 100mm girth	140	LM		
K	Surfaces over 200mm but not exceeding 300mm girth	140	LM		
	<b>Carried to Collection</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>wood paint to:</u>				
A	General timber surfaces	45	LM		
B	Surfaces over 100mm but not exceeding 200mm girth	72	LM		
C	Ditto but 200-300mm girth	140	LM		
	<u>Prepare and apply one coat primer and two finishing coats of "egg shell" paint to:</u>				
D	Metal surfaces over 200mm but not exceeding 300mm girth	45	LM		
	<b>Carried to Collection</b>				
	<b><u>COLLECTION</u></b>				
	From page GH/5				
	From page GH/6				
	From above				
	<b>Total for Roof Construction and Coverings to Summary</b>				



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>ELEMENT NO. 4</u>  <u>WINDOWS</u>  <u>Clay Works:-</u>  Window cill size 225 x 25mm cill fixed to falls and ends built  <u>UPVC Casement Windows</u>  <u>Supply, assemble and fix the following UPVC framed</u>	15	LM		
B	Window Size 600 x 1050mm high	5	NO		
C	Window Size 1200 x 900mm high	5	NO		
	Total for Windows to Summary				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 5</u></b>				
	<b><u>DOORS</u></b>				
	<u>Timber Doors</u>				
	<u>45mm thick semi solid core flush doors with high quality wrot mahogany veneered doors with hardwood lipping to all edges.</u>				
A	Door overall size 900 x 2100mm high	2	NO		
	<u>Wrot mahogany door frames; selected and kept clean</u>				
B	150 x 50mm thick frames; with 2No.labours and countersunk	10	LM		
C	75 x 25mm architrave	10	LM		
D	25mm Dia quadrant beading	10	LM		
	<u>Prepare and apply one coat wood primer on back of wood before fixing</u>				
E	Surfaces not exceeding 100mm girth	10	LM		
F	Ditto but exceeding 100mm but not exceeding 200mm girth	10	LM		
	<u>Prepare, touch up primer and apply one undercoat and two coats clear varnish on wood surfaces</u>				
G	Door surfaces (measured flat both sides)	8	SM		
H	Surfaces not exceeding 100mm girth	20	LM		
I	Ditto but exceeding 200mm but not exceeding 300mm girth	10	LM		
	<u>Ironmongery</u>				
	<u>Supply and fix the following items of ironmongery as "Union" or other equal and approved manufacturer complete with matching screws as per union catalogue and all necessary furniture.</u>				
	100 mm Brass butt hinges.				
J	2 - Lever door mortise lock with lever furnisher ref: 680-06-32 mm Diameter rubber door stop ditto.				
	<b>Total for Doors to Summary</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>EXTERNAL FINISHES</u>				
	<u>20mm thick woodfloated Cement and sand (1:4) rendering</u>				
A	Sides of walls and concrete surfaces	358	SM		
B	Door and window reveals 100-200mm girth	52	LM		
	<u>20mm thick woodfloated waterproof Cement and sand (1:4)</u>				
C	Sides of walls and concrete surfaces	157	SM		
	<u>Prepare and apply one undercoat and three finishing coats of</u>				
D	Plastered walls	358	SM		
E	Door and window reveals not exceeding 100mm girth	52	LM		
	<u>Prepare and apply one flood coat and three finishing coats of</u>				
F	Plastered parapet walls	157	SM		
	Total for External Finishes to Summary				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 7</u></b>				
	<b><u>INTERNAL WALL FINISHES</u></b>				
	<u>12mm thick gauged lime plaster (1:2:9) as described to:-</u>				
A	Sides of walls and concrete surfaces	282	SM		
B	Door and window reveals 100-200mm girth	70	LM		
	<u>15mm thick cement sand (1:4) in:</u>				
C	Backing to receive ceramic wall tiles (m.s)	93	SM		
	<u>Approved coloured ceramic wall tiles as described</u>				
D	6 mm thick glazed tiles with straight, continuos joints fixed	93	SM		
	<b><u>PAINTING AND DECORATING</u></b>				
	<u>Prepare and apply one undercoat and three finishing coats of interior quality emulsion paint to:</u>				
E	Plastered walls	282	SM		
F	Door and window reveals 100-200mm girth	70	LM		
	<b>Total for Internal Wall Finishes to Summary</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>ELEMENT NO. 8 FLOOR FINISHES</p> <p>Cement and sand (1:4) woodfloated screed as described in:-  22mm thick to receive ceramic floor tiles(m.s)</p> <p>Ceramic Floor Tiles  300 x 300 x 8 mm thick approved non-slip ceramic tiles fixed with adhesive on prepared screed (m.s) with straight continuos joints in both directions jointed and flush pointed with tinted flexible epoxy grout.</p>	42	SM		
B	Tiling to floors	42	SM		
C	100mm high skirting	80	LM		
<b>Total   for Floor finishes to Summary</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	ELEMENT NO. 9  CEILING FINISHES  Gypsum Plasterboard Suspended Ceilings  15mm thick internal quality Gypsum plasterboard ceilings in 2400 x 1200mm panels fixed to 600 x 1200mm galvanized mild steel channels on timber roof structure (m.s), with taped and filled joints all to manufacturers instructions.	42	SM		
B	15mm thick x 75mm high plasterboard cornice fixed to wall	80	LM		
C	Painting and Decoration  Prepare and apply one undercoat and two finishing coats silk vinyl emulsion paint to:  Horizontal surface of plasterboard ceilings	42	SM		
D	Plasterboard cornice surface not exceeding 100mm girth	80	LM		
	Total for Ceiling Finishes to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>GUARD HOUSES</u>				
	<u>SUMMARY</u>				
1	SUBSTRUCTURES				
2	R.C. SUPERSTRUCTURE AND WALLING				
3	ROOF CONSTRUCTION AND COVERINGS				
4	WINDOWS				
5	DOORS				
6	EXTERNAL FINISHES				
7	INTERNAL WALL FINISHES				
8	FLOOR FINISHES				
9	CEILING FINISHES				
	TOTAL FOR GATE HOUSE TO GRAND SUMMARY				

**WAREHOUSE 5**



**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<p><b>BILL NO. 9</b></p> <p><b><u>WAREHOUSE 5</u></b></p> <p><b><u>BUILDERS WORKS</u></b></p> <p><b><u>ELEMENT NO. 1</u></b></p> <p><b><u>DEMOLITIONS AND DOWN TAKINGS</u></b></p> <p><b><u>ALL PROVISIONAL</u></b></p> <p>Tenderers to note the following :-</p> <p>The Tenderer is strongly recommended to visit the site to determine the scope and extent of demolition works to be carried out</p> <p>All salvageable items shall be carefully taken down and removed from site prior to demolition works</p> <p>All material arising out of the demolition and down taking shall become property of the contractor who should allow a credit for all such materials as shown at the end of this section. This should also cover the cost of removal and transportation of such material away from site. The Tenderers must allow a realistic credit value commensurate with the salvaged material. The Quantity Surveyor reserves the right to revalue the credit if in his opinion it is considered to be underpriced</p> <p>The cost of demolition shall include all necessary down taking, taking up all foundations, breaking up concrete floor slabs, ripping up foundations and carting away arising debris. (IMPORTANT NOTE)</p> <p>The cost of any material taken down and later re-used in the contract shall also be adjusted accordingly by the Quantity Surveyor.</p> <p>The Tenderer shall be required to have fully examined and acquainted himself to the present condition of the foregoing down takings and their possible future re-usability. No claims arising out of the Tenderer's lack of knowledge in this respect shall be entertained</p> <p>All debris and materials arising from demolition and down taking shall be removed immediately from site and Tenderer's price should include the cost thereof</p>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<b><u>DEMOLITIONS AND DOWNTAKING</u></b>				
	<b><u>STRIPPING FINISHES</u></b>				
	<b><u>FLOOR</u></b>				
A	Carefully hack existing cement sand screed on and prepare floor to receive another floor finish and cart away debris. (Approximately 2990 SM).		ITEM		
B	Ditto 10 mm Thick x 150 mm high skirting with rounded top (Approximately 275 M)		ITEM		
	<b><u>RAIN WATER GOODS &amp; FASCIA BOARD</u></b>				
C	Carefully remove all rain water goods,fascia boards and eaves roof overhangs (Approximately 206 M)		ITEM		
	<b><u>ASBESTOS REMOVAL</u></b>				
D	Carefully undertake removal of asbestos roofing sheets from buildings, transport and dispose to government approved site in strict adherence to NEMA removal, handling, disposal, and post disposal regulations (Approximately 3384 SM )		ITEM		
<b>TOTAL FOR DEMOLITION AND DOWNTAKING CARRIED TO SUMMARY</b>					

PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
A	<u>ELEMENT NO. 2</u>				
	<u>FLOOR FINISHES</u>				
	<u>POWER FLOATED CONCRETE FLOORS</u>				
	75mm thick class 20/20 polished power floated concrete floor finish to floors horizontal	2990	SM		
TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY					

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<b><u>ELEMENT NO. 3</u></b>				
	<b><u>ROOF CONSTRUCTION</u></b>				
	<u>ROOF COVER;IT5 profile box sheet; 28gauge; prepainted</u>				
A	Supply and fix sheets to an approved standard colour laid with 94mm side laps and 150mm minimum end laps fixed to Z-purlins including hook bolts , washers , nuts and rubber laps at 600mm centres and screwed to 177x50.8mm Z purlins on RHS trusses at 1200mm centres all laid to a fall of at 23 degrees	3384	SM		
	<u>Accessories ,fixing as necessary to roof sheets</u>				
B	300 mm Girth matching plain sheet ridge and hip capping thrice bent and dressed over covering	103	LM		
	<b><u>RAINWATER GOODS</u></b>				
	<u>PVC to B.S 4576 : rubber ring seal joints in: -</u>				
C	24G x 200 x 200 x 250mm Box gutter fixed with and including mild steel holderbats plugged and screwed to fascia	206	LM		
D	24G x 110 mm Diameter down pipes: cast into concrete column and fixed with steel holder bats at 600 mm centres	58	LM		
E	Ditto : extra over for Horse shoe bends	10	NO		
F	Ditto: extra over for swan necked projections	10	NO		
	<b><u>ROOF INSULATION AND VENTILATION</u></b>				
G	Supply and fix 10mm Double sided reflective foil insulation with a closed-cell polyethylene foam core; as Jumbolene super heavy duty roof insulation or approved equivalent; allow for laps and straining wires; fixed in accordance with manufacturers instructions	3384	SM		
	<b>TOTAL FOR ROOF CARRIED TO SUMMARY</b>				

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<b>ELEMENT NO. 4</b> <b><u>PAINING AND DECORATION</u></b>				
	<u>INTERNAL WALL FINISHES</u>				
	<u>Carefully allow for all necessary repairs including for thoroughly scrubbing down with wire brush; in filling cracks with approved filler material and preparing surfaces to receive new paint.</u>				
A	Walls vertical; internal	1472	SM		
B	Ditto: Window and Door reveals	25	SM		
	<u>Prepare and apply one undercoat and two coats premium grade silk vinyl emulsion paint with teflon surface protector as supplied by Crown paints: on plastered surfaces: to</u>				
C	Walls vertical; internal	1472	SM		
D	Ditto: Window and Door reveals	25	SM		
	<u>Carefully allow for all necessary repairs including for thoroughly scrubbing down with wire brush; in filling cracks with approved filler material and preparing surfaces to receive new paint.</u>				
E	Walls vertical; external	1512	SM		
	<u>Prepare and apply one undercoat and two coats premium grade weather guard paint with teflon surface protector as supplied by Crown paints: on plastered surfaces: to</u>				
F	Walls vertical; external	1512	SM		
	<b><u>DOORS AND WINDOWS</u></b>				
	<u>Carefully allow for all necessary repairs including for thoroughly scrubbing down with wire brush; in filling cracks with approved filler material and preparing surfaces to receive new paint.</u>				
G	To metal surfaces	40	SM		
	<u>Prepare and apply one coat of primer and two coats gloss enamel paint as supplied by Crown paints: on plastered surfaces: to</u>				
H	To metal surfaces	40	SM		
	<b>TOTAL FOR FINISHES CARRIED SUMMARY</b>				

## PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY

[illegible]

## ELECTRICAL WORKS



REPUBLIC OF KENYA



NEW KENYA PLANTERS CO-OPERATIVE UNION PLC

PROPOSED RENOVATIONS AT THE NEW KENYA PLANTERS COOPERATIVE  
UNION SAGANA, KIRINYAGA COUNTY

W.P. ITEM NO: D1173/CE/KYA/2501 JOB NO. 11593A

TENDER SPECIFICATIONS AND BILLS OF QUANTITIES FOR  
ELECTRICAL AND ICT INSTALLATION WORKS

VOLUME 2

**CLIENT**

THE MANAGING DIRECTOR  
NEW KENYA PLANTERS CO-OPERATIVE UNION,  
P.O. BOX 59638-00200  
NAIROBI

**PROJECT MANAGER**

**WORKS SECRETARY**  
STATE DEPARTMENT FOR PUBLIC WORKS  
P.O BOX 30743- 00100  
NAIROBI

**ARCHITECT**

**CHIEF ARCHITECT**  
STATE DEPARTMENT FOR PUBLIC WORKS  
P. O. BOX 30743 – 00100  
NAIROBI

**QUANTITY SURVEYOR**

**CHIEF QUANTITY SURVEYOR**  
STATE DEPARTMENT FOR PUBLIC WORKS  
P. O. BOX 30743 – 00100  
NAIROBI

**ELECTRICAL ENGINEER**

**CHIEF ENGINEER (ELECTRICAL)**  
STATE DEPARTMENT FOR PUBLIC WORKS  
P. O. BOX 41191 – 00100  
NAIROBI

**MECHANICAL ENGINEER**

**CHIEF ENGINEER (MECHANICAL (BS))**  
STATE DEPARTMENT FOR PUBLIC WORKS  
P. O. BOX 41191 – 00100  
NAIROBI

**STRUCTURAL ENGINEER**

**CHIEF ENGINEER (STRUCTURAL)**  
STATE DEPARTMENT FOR PUBLIC WORKS  
P. O. BOX 30743 – 00100  
NAIROBI

**NOVEMBER, 2025**



**ELECTRICAL INSTALLATION WORKS FOR THE PROPOSED RENOVATIONS AT NEW KENYA****WP ITEM NO. D1173/CE/KYA/2501****JOB NO.: 11593A****ELECTRICAL ENGINEERING SERVICES INSTALLATION WORKS****BILL NO.1: PRELIMINARIES**

<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1	Discrepancies clause 1.02				
2	Conditions of sub-contract Agreement clause 1.03				
3	Payments clause 1.04				
4	Site location clause 1.06				
5	Scope of contract works clause 1.08				
6	Extent of contractors duties clause 1.09				
7	Firm price contract clause 1.12				
8	Variation clause 1.13				
9	attendance which is a percentage of expended PC or provisional sum				
10	Bond clause 1.15				
11	Government legislation and regulations clause 1.16				
12	Import duty and VAT clause 1.17 (Note this clause applies for materials supplied only VAT will also be paid by the subcontractors as allowed in the summary page)				
13	Insurance company fees clause 1.18				
14	Provision of services by the Main contractor clause 1.19				
15	Samples and materials generally clause 1.21				
16	Supplies clause 1.20				
17	Bills of quantities clause 1.23				
18	Contractors office in Kenya clause 1.24				
19	Builders work clause 1.25				
20	Setting to work and regulating system clause 1.29				
21	Identification of plant components clause 1.30				
22	Working drawings clause 1.32				
23	Records Drawings (As Installed) and instructions clause 1.33				
24	Maintenance Manual clause 1.34				
	<b>Sub Total carried to Page F/4</b>				

Item	Description	Qty	Unit	Rate	Amount
25	Hand over clause 1.35				
26	Painting clause 1.36				
27	Testing and inspection - manufactured plant clause 1.38				
28	Testing and inspection - installation clause 1.39				
29	Storage of materials clause 1.41				
30	Initial Maintenance Clause 1.42				
31	Attendance Upon Tradesmen etc (Insert percentage only) clause 1.58				
32	Local and other authorities notice clause 1.60				
33	Temporary Works clause 1.63				
34	Patent Rights clause 1.64				
35	Mobilization and Demobilization clause 1.65				
36	Extended preliminaries clause 1.66 (see Appendix - clause 1.70)				
37	Supervision by Project Electrical Engineer and site meetings clause 1.67	1	item	250,000	250,000
38	Allow for taxes, profit and attendance for the above item	1	%		
39	Amendment to Scope of subcontract works clause 1.68				
40	Contract obligation and employers obligation clause 1.69				
41	Any other preliminaries				
	<b>Sub-total brought forward from Page F/4</b>				
	<b>Total for Preliminaries carried forward to price summary page</b>				

BILL No. 2: WAREHOUSE 5					
Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
<b>SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-</b>					
<b><u>LIGHTING POINTS AND SWITCHES</u></b>					
A.					
2.01	Lighting points wired in 3 x 1.5mm <sup>2</sup> PVC/SC CU cables drawn in 20mmØ surface mounted HG/PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switching	28	No.		
	ii) Two way switching	4	No.		
	iii) Intermediate switching	18	No.		
2.02	10A, moulded plastic ivory white switch plates as MK or approved equivalent as follows:-				
	i) One gang two way	10	No.		
	ii) Intermediate switch	4	No.		
2.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 40W, 3600lm 600x600 suspended LED fitting as Philips Smartbright LED panel or approved equivalent complete with accessories and suspension kit	12	No.		
	ii) 1200mm, IP65, 1x28W LED light with fittings as Philips LED Smartbright or approved equivalent for baement.	4	No.		
	iii) 1500mm, IP65, 2x35W LED light with fittings as Philips LED Smartbright or approved equivalent for baement.	18	No.		
	iv) 10W Self-contained two sided EXIT sign for maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	4	No.		
	v) 10W Self-contained two sided ENTRANCE sign for maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	4	No.		
	vi) 300W LED Security flood lights 6500k with an efficacy of greater than 110lm/W and IP 65 rating as Schneider or approved equivalent	8	No.		
<b>Total carried to Bill No 2 Collection Page</b>					

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
<b>B.</b>	<b>POWER POINTS</b>				
2.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm <sup>2</sup> PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	12	No.		
2.05	13A moulded switched socket outlet plates as MK or approved equivalent as follows: i) Single switched ii) Twin switched	2 8	No. No.		
2.06	Fire Alarm Panel power outlet comprising wiring in 3 x 2.5mm <sup>2</sup> PVC/SC CU cables drawn in 32mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	1	No.		
2.07	20A, unswitched fused DP control with neon light and cord outlet for item above as MK or approved equivalent	1	No.		
2.08	150 X 50mm - 2 compartment, gauge 16 sheet Deep Powder coated metal trunking complete with bends, outlet plates and other necessary accessories	20	LM		
<b>C.</b>	<b>FIRE ALARM</b>				
2.09	Fire alarm manual wiring points done using fire resistant 2x1.5mm <sup>2</sup> copper cables drawn in 20 mm dia PVC heavy gauge conduits but without the manual call point, sounder and detector.	41	No		
2.10	Supply and install a recessed addressable manual call point (Break Glass), as menvier or approved equivalent.	6	No		
2.11	Addressable fire alarm sounder beacon with flashing light for wall mounting and as Menvier or approved equivalent.	3	No		
2.12	Smoke detector- photoelectric addressable type complete with the commonbase and as Menvier or approved equivalent.	4	No		
2.13	Heat detector- addressable type complete with the commonbase and as Menvier or approved equivalent.	27	No		
2.14	Microprocessor based 1 loop Addressable Fire Alarm Control Panel as Menvier or Approved Equivalent	1	No		
<b>C.</b>	<b>RAW POWER DISTRIBUTION BOARDS</b>				
2.15	4-Way, 125A TPN <b>Raw Power DB</b> surface/flush mounted as SCHNEIDER or approved equivalent	1	No.		
2.16	SP Miniature circuit breakers for the distribution boards above i) 10A SP MCB ii) 20A SP MCB iii) 32A SP MCB	3 4 3	No. No. No.		
<b>E.</b>	<b>SUB-MAINS &amp; FEEDER CABLES</b>				
2.17	25 mm <sup>2</sup> 4-C armoured copper cable to DB above c/w lugs for raw power.	8	Lm		
2.18	Cable glands for 25 mm <sup>2</sup> 4-C PVC/SWA/PVC copper cable to DB above	2	No.		
<b>Total carried to Bill No 2 Collection Page</b>					

BILL No. 2 COLLECTION PAGE		
Item	Description	Cost Kshs
1	TOTAL B/F Page F/5.....	
2	TOTAL B/F Page F/6 .....	
Total for Bill No. 2: C/F to Bills Summary Page		-

BILL No. 3: GATEHOUSE LIGHTING AND POWER					
Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
A.	<b>SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-</b>				
	<b>LIGHTING POINTS AND SWITCHES</b>				
3.01	Lighting points wired in 3 x 1.5mm <sup>2</sup> PVC/SC CU cables drawn in 20mmØ surface mounted HG/PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switching	49	No.		
	ii) Two way switching	11	No.		
3.02	10A, moulded plastic ivory white switch plates as MK or approved equivalent as follows:-				
	i) One gang two way	12	No.		
	ii) Two gang two way	4	No.		
3.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 1200mm, IP65, 1x28W LED light with fittings as Philips LED Smartbright or approved equivalent.	18	No.		
	ii) 40W, 3600lm 600x600 recessed LED fitting as Philips Smartbright LED panel or approved equivalent complete with accessories	4	No.		
	iii) Shallow surface luminaire with circular opal diffuser and white stand off ring, with integral HPF control gear for 20W 2D compact LED lamp. As Philips Ceiling Light LED "Canopus" Round 20W 2000Lm White 4000K IP44 or Approved Equivalent	3	No.		
	iv) 12W, IP 65 rated Bulk head light fitting with glass cover	7	No.		
	(v) Pendant red UV Lighting complete with B22 Sockets and 10W Daylight LED Bulbs as Tronic or approved equivalent installed to engineers satisfaction	2	No.		
	vi) Suspended 1200mm, IP65, 1x28W LED light with fittings as Philips LED Smartbright or approved equivalent.	4	No.		
	iv) 12W 200mm Down Light 1100 Lm White 6500K as approved by engineer	4	No.		
	vi) 5W 87mm Down Light 1100 Lm White 6500K as approved by engineer	8	No.		
	vii) 8W Self-contained two sided EXIT sign for maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	2	No.		
<b>Total carried to Bill No 3 Collection Page</b>					

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
<b>B.</b>	<b>POWER POINTS</b>				
3.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm <sup>2</sup> PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	22	No.		
3.05	13A moulded switched socket outlet plates as MK or approved equivalent as follows: i) Twin switched	22	No.		
3.06	Fume extrator power outlet power points comprising wiring in 3 x 4.00mm <sup>2</sup> PVC/SC CU cables drawn in 32mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	1	No.		
3.07	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	1	No.		
3.08	Coffee roaster power outlet power points comprising wiring in 5 x 6.0 mm <sup>2</sup> PVC/SC CU cables drawn in 32mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	1	No.		
3.09	40A, TPN Isolator control switch for item above as Schneider or approved equivalent	2	No.		
3.10	5 Pin 32A wall mounted Industrial socket for item above as Schneider or approved equivalent	1	No.		
<b>C.</b>	<b>FIRE ALARM</b>				
3.11	Fire alarm manual call point wiring done using fire resistant 2x1.5mm <sup>2</sup> copper cables drawn in 20 mm dia PVC heavy gauge conduits but without the manual call point.	30	No		
3.12	Supply and install a recessed addressable manual call point (Break Glass), as menvier or approved equivalent.	2	No		
3.13	Fire detection call points wiring done using fire resistant 2x1.5mm <sup>2</sup> copper cables drawn in 20 mm dia PVC heavy gauge conduits but without the manual call point.	14	No		
3.14	Addressable fire alarm sounder beacon with flashing light for wall mounting and as Menvier or approved equivalent.	2	No		
3.15	Smoke detector- photoelectric addressable type complete with the commonbase and as Menvier or approved equivalent.	11	No		
3.16	Heat detector- addressable type complete with the commonbase and as Menvier or approved equivalent.	1	No		
3.17	Microprocessor based 1 loop Addressable Fire Alarm Control Panel as Menvier or Approved Equivalent	1	No		
<b>D.</b>	<b>RAW POWER DISTRIBUTION BOARDS</b>				
3.18	6 Way <b>DB</b> unit with 125A integral Isolator as Schneider or approved equivalent	1	No.		
3.19	Miniature circuit breakers for the distribution boards above i) 10A SP MCB ii) 20A SP MCB iii) 32A SP MCB iv) 32A TPN MCB	2 4 4 1	No. No. No. No.		
3.20	16 mm <sup>2</sup> 4-C armoured copper cable to DB above c/w lugs for raw power. Provisional quantities, actual quantities to be determined at site i) Cable glands for above cable	60 2	Lm No.		
3.21	Earthing for the above consumer Unit	1	No.		
<b>Total carried to Bill No 3 Collection Page</b>					

<b>BILL</b>				
<b>Item</b>	<b>Description</b>	<b>Cost Kshs</b>		
1	TOTAL B/F Page F/8.....			
2	TOTAL B/F Page F/9 .....			
<b>Total for Bill No. 3: C/F to Bills Summary Page</b>				-



BILL No. 4: GATEHOUSE LIGHTING AND POWER					
Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
<b>A.</b>	<b>SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-</b>				
<b>4.01</b>	<b><u>LIGHTING POINTS AND SWITCHES</u></b>				
	Lighting points wired in 3 x 1.5mm <sup>2</sup> PVC/SC CU cables drawn in 20mmØ surface mounted HG/PVC conduits complete with all necessary accessories but excluding switches				
	i) One way switching	14	No.		
<b>4.02</b>	10A, moulded plastic ivory white switch plates as MK or approved equivalent as follows:-				
	i) One gang two way	4	No.		
<b>4.03</b>	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 1200mm, IP65, 1x28W LED light with fittings as Philips LED Smartbright or approved equivalent.	4	No.		
	ii) 40W, 3600lm 600x600 recessed LED fitting as Philips Smartbright LED panel or approved equivalent complete with accessories	2	No.		
	iii) Shallow surface luminaire with circular opal diffuser and white stand-off ring, with integral HPF control gear for 20W 2D compact LED lamp. As Philips Ceiling Light LED "Canopus" Round 20W 2000Lm White 4000K IP44 or Approved Equivalent	3	No.		
	iv) 12W, IP 65 rated Bulk head light fitting with glass cover	5	No.		
	v) 300W LED Security flood lights 6500k with an efficacy of greater than 110lm/W and IP 65 rating as Schneider or approved equivalent	2	No.		
<b>Total carried to Bill No 4 Collection Page</b>					

Item	Description	Qty	Unit	Rate Kshs	Cost Kshs
<b>B.</b>	<b>Prime cost and provisional sum clause 3.14 (insert profit and attendance which is a percentage of expended PC or</b>				
4.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm <sup>2</sup> PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	2	No.		
4.05	13A moulded switched socket outlet plates as MK or approved equivalent as follows: i) Twin switched	2	No.		
4.05	Hand drier power outlet power points comprising wiring in 3 x 2.5mm <sup>2</sup> PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	1	No.		
4.06	20A, DP control switch with neon light and cord outlet for item above as MK or approved equivalent	1	No.		
<b>D.</b>	<b><u>RAW POWER DISTRIBUTION BOARDS</u></b>				
4.07	6 Way CU unit with 100A integral Isolator as Schneider or approved equivalent	1	No.		
4.08	Miniature circuit breakers for the distribution boards above i) 10A SP MCB ii) 20A SP MCB iii) 32A SP MCB	1 1 1	No. No. No.		
4.09	10 mm <sup>2</sup> 2-C armoured copper cable to DB above c/w lugs for raw power. i) Cable glands for above cable	80 2	Lm No.		
4.10	Earthing for the above consumer Unit	1	No.		
<b>Total carried to Bill No 4 Collection Page</b>					

BILL No. 4 COLLECTION PAGE		
Item	Description	Cost Kshs
1	TOTAL B/F Page F/11.....	
2	TOTAL B/F Page F/12 .....	
Total for Bill No. 4: C/F to Bills Summary Page		-

**BILL NO.5: ELECTRIC FENCE**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>Supply, install, test and Commission the following</b>				
5.01	<b>Power Energizer</b> The powered energizer shall be complete with the following components; i) 4-Zone Energizer ii) 12v 90Ah battery iii) Earth Stake iv) Earth Lead v) Fence Lead	No.	2		
5.02	<b>Fence Lines</b> The fence lines shall comprise of 2.5mm diameter, high tensile steel galvanized wire insulated from the metal/wooden rods by porcelain (To be Installed in 6	Lm.	9,000		
5.03	<b>Intermediate Fence Posts</b> The Fence posts shall be 1000mm high 25x25x3mm Square Steel poles spaced 3m apart complete with insulators	No.	500		
5.04	<b>Earthing</b> Earthing shall comprise 3No. earth rods of 1500 - 2000mm driven underground and joined by appropriate conductor.	Item	2		
5.05	Siren wired in 2x1.5sqmm. SC PVC cables drawn in 20mm dia. Conduit.	No.	2		
5.06	Flashing beacon wired in 2x1.5sqmm. SC PVC cables drawn in 20mm dia. Conduit.	No.	2		
5.07	<b>Accessories</b> a)Strainers b)Undergate cable 2.5mm c)Warning signs	No. Roll No.	120 2 20		
5.08	<b>Razor Wire</b> Concertina Double Galvanized 2.5mm diameter Stainless Steel razor wire with a coil diameter of 450mm, with a blade spacing of 14mm	Lm.	1,500		
5.09	Any other items necessary to complete the above installation as per the system you propose to install. a) b)				
<b>TOTAL FOR ELECTRIC FENCE C/F TO SUMMARY PAGE</b>					

**Provisional Sums**

<b>Item</b>	<b>Description</b>	<b>Cost Kshs</b>
<b>A</b>	Contingency Sum to be used at the Discretion of Project Electrical Engineer	<b>600,000.00</b>
<b>B</b>	Provisional sum for CPD training for SDPW Electrical Engineers	<b>100,000.00</b>
<b>C</b>	Provisional sum of Ksh 150,000 for the purchase of Stationery to be supplied	<b>150,000.00</b>
	<b>Total for Provisional Sums</b>	<b>850,000.00</b>

**ELECTRICAL ENGINEERING WORKS SUMMARY PAGE**

Item	Description	Cost Kshs
<b>A</b>	Preliminaries	<b>250,000.00</b>
<b>B</b>	Sub-total for Electrical Installation Works	
<b>C</b>	Sub-total for Electric Fence Installation	
<b>D</b>	Provisional Sums	<b>850,000.00</b>
<b>TOTAL FOR ELECTRICAL ENGINEERING SERVICES INSTALLATION WORKS C/F TO MAIN WORKS SUMMARY PAGE</b>		
<b>TOTAL AMOUNT IN</b> .....  ..... ..... <b>TENDERER'S NAME &amp;STAMP</b> ..... ..... ..... ..... .....  <b>SIGNATURE.....</b> <b>DATE.....</b>  <b>P.I.N No</b> <b>V.A.T CERTIFICATE</b> ..... <b>NO.....</b>		

## MECHANICAL WORKS



**NEW KENYA PLANTERS CO-OPERATIVE UNION  
PROPOSED RENOVATION OF WAREHOUSES FOR NKCPU IN SAGANA,  
KIRINYAGA COUNTY**

**W.P. ITEM D1173/CE/KYA /2501 JOB NO. 11592A**

**TENDER SPECIFICATIONS AND BILLS OF QUANTITIES FOR  
MECHANICAL WORKS**

**VOLUME 3**

<b><u>ARCHITECT</u></b> Chief Architect, Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>	<b><u>QUANTITY SURVEYOR</u></b> Chief Quantity Surveyor, Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>
<b><u>STRUCTURAL ENGINEER</u></b> Chief Engineer (Structural), Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>	<b><u>MECHANICAL ENGINEER</u></b> Chief Engineer Mechanical (BS), Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>
<b><u>ELECTRICAL ENGINEER</u></b> Chief Engineer Electrical), Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>	<b><u>DESIGNER</u></b> Chief Designer, Min. of Lands, Pub Works, Housing & Urban Devel. State Department for Public Works, P.O. Box 30743-00100, <b>NAIROBI, KENYA.</b>

**NOVEMBER, 2025**



**BILL NO. 1 - PRELIMINARY ITEMS**

<b>ITEM No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.	<p>The Contractor shall provide or erect and maintain an approved lock-up office for the sole use of the Architect and his own site staff. The office, which will have a total floor area of not less than.....square metres, will be divided into two separate interconnected offices. Services to be provided shall include a telephone, water sanitary and electrical supply and drainage. The offices shall be supplied with furniture and equipment that shall include:</p> <p>4 No. desks with chairs; 1 No. large table with sufficient number of chairs; drawing table along the full length of one side with plan drawers and drawing stools; 4 No. waste paper baskets; sufficient number of pin boards; and any additional furniture and fittings as may reasonably be required during the Contract period. The Contractor shall provide the Architect and site staff with computer sets or laptops, printers, and telephones all that are necessary for project use.</p> <p>The office furniture and equipment shall all be to the approval of the Engineer. The Contractor shall also provide all labor, equipment, and consumable stores equipment throughout the currency of the contract.</p>	N/A
2	[OPTIONAL] Contractor shall provide a house for Engineers site agent, which shall be one bedroomed temporary house with a sitting room, toilet, bathroom and a kitchen complete with electrical and sanitary installations and provide maintenance and paying of bills of water and electricity up to and including end of the contract period.	N/A
3	Provide a signboard not less than_____square meters in size of a design type, and with lettering and coloring and in a position approved by the Engineer. The signboard shall be for the display of the Main Contractor's name and the names of all his Sub-Contractors, with the Procuring Entity's name painted thereon. All Consultants names be printed in letters not exceeding 50 mm high. No other signboard or advertising shall be allowed. The signboard shall be fully maintained during the Contract Period and shall be pulled down and removed at the end of the contract.	N/A
	<b>TOTAL CARRIED TO PAGE</b>	

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
1	Allow for preparation of working drawings before commencement of works, shop Drawing & as-built drawings (2No. A3 Format & 1No. Soft Copy in CD) for each works and maintenance manuals. All these will be handed to project Engineer in three hard copies and soft copy in 8Gb flash disk and compact disk.	1	Item		
2	Hand over				
3	Variation				
4	Testing and Inspection – manufactured plant				
5	Mobilization and Demobilization.				
6	Allow for provisional sum for project supervision.	N/A	Item		
7	Allow for 10% profit and Attendance for the above	N/A	Item		
8	Supervision by Engineer and Site Meetings.	N/A	Item		
9	Allow for 10% profit and Attendance for the above	N/A	Item		
10	Any other preliminaries. 1. All Project stationery to be delivered before commencement of works as instructed by the Chief Engineer [Mechanical-(BS)] once the contract has been signed.				
	Subtotal				
	Sub-total brought forward from page..... D-6				
TOTAL FOR BILL NO. 1- PRELIMINARIES CARRIED FORWARD TO PRICE MAIN SUMMARY PAGE					

**PROPOSED LABORATORY BLOCK BUILDING AT NKPCU SAGANA PHASE 1**

Item	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
A	<b><u>SANITARY FITTINGS</u></b> Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.  (i) All sanitary fittings shall be in approved colour. (ii) The Model and Ref No. indicated is only a guide to the type and quality of fittings. (iii) Equivalent and Approved models may be acceptable.  <b>Water Closet (WC) Suite</b>  Water closet suite pan Low level Water closet suite pan, in white colour, comprising of W.C. bowl, 'P' or 'S' trap connector, heavy duty matching plastic seat and cover with metal top fixed (chrome plated) hinges.As Ideal Standard or approved equivalent.	No.	2		
	<b>Toilet Flush Valve</b> A polished chrome finish,flush valve (flushometer) for the asian squat toilet. The flush valve to be low consumption, high efficiency capable of discharging a small quantity of water per single flush. The flush valve to be Regal® Exposed Manual Water Closet Flushometer capable of discharging 1.28-1.6 gpf. The fitting to be Sloan model Regal III-1.28 or approved equivalent.				
	<b>Semi Pedestal Wash Hand Basin (WHB)</b>  Classic wash hand basin,semi Pedestal with single taphole made of lustrous vitreous china and white in colour.Complete with 32mm diameter chrome plated chain waste, chain stay hole,chrome plated lever operated basin mixer as Hansgrohe and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. Preferred basin dimension is 560x450mm. Basin to be as " <b>Ideal Standard</b> " or approved equivalent.				
	<b>Sub-Totals for Sanitary fittings Carried forward to next page</b>				

Item	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
	<b>Sub-Totals for Sanitary fittings brought forward from previous page</b>				
	<b>Wash hand basin (WHB)</b>				
E	Countertop wash hand basin size 560 x 440mm with one tap hole, 32mm diameter chrome plated chain waste, chain stay hole, chrome plated non-conculsive time delay press action pillar tap as Cobra model and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be of IDEAL STANDARD Model-Plan Above Counter 109.003.38 countertops washhand basin or equal and approved.	No	4		
A	<b>Urinal Bowl</b> Ceramic urinal bowl measuring 305x445x330mm with back inlet for concealed flush valve, all round flush spread and complete with fixing brackets, PVC doom waste, heavy duty bottle trap.	No	2		
B	<b>Urinal Bowl Flush Valves</b> 25mm urinal bowl press type flush valve for the above urinal bowls complete with, back entry with integral vacuum breaker, self closing mechanism, non-hold-open features and non-return valve, inlet control stop and wall plate. The fittings shall be as Jaguar or equal and approved.	No	2		
C	<b>Urinal divisions</b> Ceramic urinal bowl divisions separating the above described urinal bowls fixed firmly on the wall. The fittings shall be as ideal standard or equal and approved.	No	1		
F	<b>Mirror</b> 6mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 450mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	No	4		
G	<b>Changing room Mirrors</b> 6mm thick polished plate glass silver backed FULL LENGTH mirror with bevelled edges, size 1600 x 500mm, Plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam. This will come complete with wooden side frame.	No	2		
H	<b>Robe Hook</b> Chrome plated double robe hook mounted with concealed screws. To be as Ideal Vado life and approved.	No	4		
	<b>Sub-Totals for Sanitary fittings Carried forward to next page</b>				

	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
	<b>Sub-Totals for Sanitary fittings brought forward from previous page</b>				
	<b>Toilet Roll Holder</b>				
I	Wall mounted, chrome plated toilet roll holder with protector plate as Vado life or equal and approved.	No	4		
	<b>Toilet Brush and Holder</b>				
J	Toilet brush and holder as Vado life or equal and approved.	No	4		
	<b>Paper Towel Dispenser</b>				
K	Wall-mounted manual paper towel dispenser, made of steel, white Epoxy finish as Mediclinic #DT2106	No	5		
	<b>Soap dispenser</b>				
A	Wall mounted soap dispenser with capacity of about one litre having a press action release mechanism complete with fixing screws. Allow for initial soap supply. To be as mediclinic or approved equivalent	No	5		
	<b>Sanitary bin</b>				
B	Floor standing 17.5litre Capacity Pedal sanitary bin, Dimensions: H 499mm x W 394mm x D 165mm and with Integral anti-bacterial technology built into the unit prevents the spread of bacteria. All to be as Initial or equal and approved.	No	4		
	<b>Bathroom signs</b>				
C	Womens Washroom Sign	No	2		
D	Men Washroom Sign	No	2		
	<b>Hand Driers</b>				
E	Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safety cut-out complete with a 30 seconds safety timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m <sup>3</sup> /min) and to be of size 270x264x143mm deep. It shall have a noise level below 72.5 dBA at 1.5m. It shall be as Medclinic or approved equivalent.	No	2		
	<b>Shower Fitting</b>				
F	Concealed shower fitting consisting of 15mm chrome plated riser pipe to connect the concealed three way diverter single lever shower mixer as of Cobra Model "Trini TR 856" or approved equivalent and 100mm diameter swivel/ adjustable shower rose as Cobra model P-0681 CAT No. 101.001.78 or approved equivalent, shower arm and other necessary fittings and accessories. All to be as Cobra or equal and approved	No	3		
	<b>Towel Rail</b>				
G	Chrome plated towel rail 600mm long with the rail and brackets as one piece. To be as GROHE "Atrio Accessories Tier:G5 Prestige" model 40 309" or equal and approved.	No	3		
	<b>Sub-Totals for Sanitary fittings Carried forward to next page</b>				

Item	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
<b>Sub-Totals for Sanitary fittings brought forward from previous page</b>					
H	<b>Soap Dish</b> Chrome plated single soap dish as DALI MT51 or approved equivalent.	No	3		
I	<b>Bathroom Tap</b> 15mm diameter chrome plated back inlet bib tap <b>COBRA</b>	No	3		
A	<b>Accessible Water Closet and Wash Hand Basin</b> Wheel chair accessible facility Comprising of the following:- <b>i)</b> Close coupled W.C with 7.5 litre cistern with bottom inlet and overflow. The bowl shall be of size 375x560x420mm high. The bowl and cistern shall be manufactured from vitreous china complying with B.S 3402. The unit shall be complete with valveless cistern fittings including syphon, 1 /2" side inlet ballvalve, 3 /4" side overflow, plastics flushbend, inlet connector and reversible metallic chrome plated cistern lever. There shall also be a heavy duty seat(25mmhigh) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x 6mm thick mirror and robe hook.  <b>ii)</b> Semi pedestal wall mounted W.H.B of size 600x500x545mm high with flexible connectors to waste and taps. The basin shall be manufactured from vitreous china complying with B.S 3402. It shall have one L/H tap hole with 1/2" chrome plated lever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts.  <b>iii)</b> Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as Mediclinic soap dispenser or approved equivalent.  <b>iv)</b> Hinged support rail with toilet roll holder 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate size 230x100 mm, 4No 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility.	Set	2		
B	<b>Kitchen Sink</b> Single bowl, double drainer stainless steel kitchen sink of size 1500 x 600mm as manufactured by <b>ASL</b> . The bowl size to be 430 x 420 x 200mm deep complete with chrome plated 40mm waste fittings, plugs, chain stays, overflow, 1No. 15mm diameter wall mounted chrome plated sink mixer with over-arm swivel spout as ' <i>Ideal Standard</i> ' Ref.B2218/AA with carina handles, heavy duty plastic bottle trap with 75mm deep seal and chain waste fitting.	No.	1		
<b>Total for sanitary fittings carried forward to the collection page</b>					

Item	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
	<b><u>INTERNAL PLUMBING</u></b> Supply, deliver and install PPR PN 20 pipes, tubing and fittings as described and shown on the drawings. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
A	25mm dia	LM	30		
B	32mm dia ditto	LM	30		
C	40mm dia ditto	LM	36		
	<b><u>Extra over tubing for:-</u></b>				
D	25 mm dia bend with male/female threads	No.	5		
E	32 mm dia ditte	No.	5		
	<b><u>Tee</u></b>				
F	25mm equal tee	No.	10		
G	32mm equal tee	No.	8		
H	40mm equal tee	No.	6		
	<b><u>Reducer</u></b>				
I	32 x 25mm reducer	No.	6		
J	40 x 32mm reducer	No.	6		
	<b><u>Gate Valves</u></b>				
K	25 mm dia non-rising stem solid wedge gate valve as Docol or equal and approved with connections to CPVC and PVC tubing.	No	4		
L	32mm ditto	No.	3		
	<b><u>Unions</u></b>				
M	25 mm dia	No	8		
N	32 mm dia ditto	No	8		
	<b><u>Adaptor / Brass Threaded</u></b>				
O	25mm brass threaded male adapter	No	6		
P	32mm brass threaded male adapter	No	6		
	<b><u>Adaptor / Brass Female Threaded</u></b>				
Q	25mm brass threaded adapter	No	6		
R	32mm brass threaded adapter	No	6		
	<b><u>FlexibleTubing</u></b>				
S	20 mm dia heavy duty flexible S.S steel protected tubing 300 mm long including unions and bent to connect the sanitary fittings to water supply tubing to approval.	No.	12		
T	20 mm diameter cobra angle valve with wall flange	No.	12		
U	Allow for connection to existing water supply connection	Item	1		
<b>Subtotal Total for Plumbing works carried forward to next page</b>					

Item	Description	Unit	Qty	Rate (Kshs.)	Amount (Kshs.)
<b>Subtotal for plumbing works brought forward from previous page</b>					
A	<b>Water Storage Tank (10,000L)</b> Supply, deliver and install vertical close end plastic moulded tank of capacity 10,000 litres and diameter 216cm and of height 198cm. The tank to be assembled complete with 25mm medium pressure ball valve, cover and having screwed connections for inlet, outlet, overflow, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat ground slab and shall be as KENTANK Model or approved equivalent.	No	1		
B	Supply, deliver and install a Plastic Rectangular loft roof water tank, capacity of tank to be 1000 litres and of preferred Dimensions 1860mm x 940mm x 650mm high. The tank to come complete with tank cover, mosquito proof inspection vent and to rest on wooden platform.	No	2		
C	Install 0.75kW booster pump with a flowrate of 50l/min and a head of over 10 meters. The pump to be as Pedrollo Model CPM 158 or approved equivalent	No	1		
D	Allow a sum of Kenya Shillings One Hundred Thousand for professional training.	Item	1		
E	<b><u>Testing and commissioning</u></b> Allow for testing and commissioning of both drainage and plumbing systems.	No.	1		
<b>Total internal plumbing carried forward to Collection Page</b>					



Item	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
	<b><u>INTERNAL DRAINAGE</u></b> <u>Supply and install the following drainage upvc and pvc pipe system as described and shown on the drawings.</u> <u>All pipes and fittings in this installation shall be upvc and pvc to BS 5572: 1978 and BS 5750 as manufactured by Key Terrain' or equal and approved. All jointings and fixing shall be in accordance with the manufacturers instructions and as described.</u>  <u>Tenderers must allow for jointings, clippings, couplings holder bats, pluggings, reducers, spacers etc. necessary for the proper functioning of the installation when pricing.</u>				
	<b>MuPVC and uPVC Waste and Soil pipework</b>				
A	100mm diameter heavy gauge golden brown UPVC	Lm	36		
B	100mm diameter heavy gauge grey mUPVC pipe	Lm	42		
C	50mm diameter waste pipe	Lm	24		
D	40mm diameter waste pipe	Lm	24		
E	32mm diameter waste pipe	Lm	24		
	<b>Bends</b>				
F	100mm diameter short radius bend	No.	10		
G	100mm diameter long radius bend	No.	10		
H	50mm diameter short/long radius bend	No.	10		
I	40mm dia ditto.	No.	12		
J	32mm diameter sweep bend	No.	8		
K	50mm diameter 45° bend	No.	3		
L	40mm diameter 45° bend	No.	2		
M	32mm diameter 45° bend	No.	2		
	<b>Tees</b>				
N	50mm diameter sweep tee	No.	2		
O	40mm diameter sweep tee	No.	2		
P	32mm diameter sweep tee	No.	2		
	<b>Access Caps</b>				
Q	100mm diameter access cap	No.	7		
R	50mm diameter access cap	No.	4		
S	40mm diameter access cap	No.	4		
T	32mm diameter access cap	No.	9		
U	100mm diameter single branch/sweep tee	No.	6		
	<b>WC Connectors</b>				
V	100mm diameter WC connector	No	8		
	<b>Reducers</b>				
W	50 x 40mm reducer	No.	2		
	<b>Boss Connectors</b>				
X	100 x 50mm boss connector	No.	2		
Y	100 x 40mm boss connector	No.	2		
	<b>Traps</b>				
Z	100 x 50mm diameter floor trap and with 150 x 150mm stainless steel grating cover	No.	6		
AA	300 x 300mm diameter gulley trap	No	3		
AB	Allow for a standard 600 x 450mm manhole complete with hardened plastic grey cover.	No	4		
<b>Total for internal drainage carried forward to collection page</b>					

Item	Description	Unit	Qty	Rate (KShs.)	Amount (KShs.)
	<b>LABORATORY WORKS</b>				
A	<b>Kitchen Sink</b> Double bowl, double drainer stainless steel kitchen sink of size 1800 x 600mm as manufactured by <b>ASL</b> . The bowl size to be 430 x 420 x 200mm deep complete with chrome plated 40mm waste fittings, plugs, chain stays, overflow, 1No. 15mm diameter chrome plated sink mixer with over-arm swivel spout as <b>Cobra model 166/04</b> with carina handles, chrome plated bottle trap with 75mm deep seal and chain waste fitting.	No	3		
B	<b>Undersink heater</b> 10 litres capacity undersink instantaneous water heater complete with 3.0kw electric heating element, externally adjustable capillary type thermostat, polyurethane form thermal insulation, corrosion-proof moulding outer casing, mountings, water and electrical connections. The heater shall be as Ariston with power supply 3.0kw, 240/50Hz or equal and approved.	No.	1		
C	<b>Water storage tank</b> Supply, deliver and install vertical close end plastic moulded tank of capacity 1,000 litres and diameter 1120mm x 1280mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 25mm medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat roof slab and shall be as ROTO Model or approved equivalent.	No.	1		
D	<b>Kitchen hood for Coffee Roasters</b> Provide for proper anchorage and connection of the kitchen hood to the mechanical duct. <i>The extract hood size shall be 3000mm wide by 4500mm long by 600mm deep and shall be constructed out of 16 S.W.G. anodized aluminium sheets and stiffened by a frame of 38 x 38mm galvanized mild steel R.H.S. The hood shall have a 75mm wide by 25mm deep grease drainage channel all round. The hood shall measure 3000mm wide x 4500mm long and taper to approximately 700mm wide and 4500mm long at the top.</i>	No.	1		
<b>Subtotal Total for Laboratory works carried forward to next page</b>					

Item	Description	Unit	Qty	Rate (Kshs.)	Amount (Kshs.)
<b>Subtotal for Laboratory works brought forward from previous page</b>					
A	<b>Grease filter</b> Supply and install the filter to be composed of folded woven metal material interspersed with layers of expanded metal mesh of stainless steel and shall be capable of filtering a total of 11088m <sup>3</sup> /hr. The filter panels shall be easily removable for washing as and when necessary.	No.	6		
B	<b>Kitchen Extract fan</b> Extract fans each capable of volume flow rate 0.4m <sup>3</sup> /sec against a pressure drop of 250Pa at near maximum efficiency. Fan to be as Aerofoil axial flow fan, complete with supports, flexible connections and anti-vibration mountings. Maximum sound level of 50dB, with motor rating approximately 0.4kW.	No.	1		
C	<b>Fan Control Panel</b> A splash proof fan control panel complete with operational switches shall be installed in a room remote from the fan. It shall incorporate isolator, contactors, phase failure relay, overheat safety controls and fuses and pilot lamps to enable operating conditions to be checked. The panel shall be cut of mild steel and anodized after manufacture. It shall include volt free contacts for on-off and audible signal connection to a central indicator panel and to BMS.	No.	1		
D	<b>Ductwork</b> Galvanized mild steel ductwork 1.2mm thick complete with bends, hangers, supports, sleeves, flexible connectors, branch duct take-offs, flanges, access doors, test reducers, splitters, turning vanes and accessories. All painted both externally and internally with suitable walt black paint.	SM	30		
E	<b>Transformation Pieces</b> Allow for various sizes of transformation pieces in Galvanised mild steel thickness 1.0mm as indicated on the contract drawings and necessary for complete ductwork installation.	Item	1		
F	<b>Water Fire Extinguisher</b> 9 litres water portable fire extinguisher completes with pressure gauge, initial charge and mounting brackets.	No.	6		
G	<b>Clean Agent Fire Extinguisher</b> 12kg clean agent portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	8		
H	<b>Carbon Dioxide Gas Fire Extinguisher</b> 9 litres carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	No.	6		
<b>Totals for Laboratory works carried forward to Collection page</b>					

COLLECTION PAGE		
	Description	Amount (Sh.)
A	Total for sanitary fittings brought forward from Page-4	
B	Total for internal plumbing brought forward from Page-6	
C	Total for internal drainage brought forward from Page-7	
D	Total for Laboratory works brought forward from Page-9	
E	Allow for a contingency to be used at the discretion of a Mechanical Engineer	400,000
<b>Total for New Laboratory block carried forward to the Main Summary Page</b>		

## PROVISIONAL SUMS

**PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSE KIRINYAGA COUNTY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (KSHS)
	<b><u>PRIME COST AND PROVISIONAL SUMS</u></b>  <u>The following provisional items are to be measured on completion of the works and priced in accordance with rates contained in these Bills of Quantities or pro-rata thereto or deducted in whole if not required.</u>  <b><u>PROVISIONAL SUMS</u></b>  A Allow a provisional sum of Kshs Seven Million Five Hundred Thousand ( <b>KShs. 7,500,000.00</b> ) only for Contingencies.		ITEM		7,500,000.00
	<b>Total for Provisional Sums carried to Grand Summary</b>			<b>KSHS</b>	

## GRAND SUMMARY

<p align="center"><b>PROPOSED RENOVATION WORKS FOR NKCPU SAGANA WAREHOUSES KIRINYAGA COUNTY</b></p> <p align="center"><b><u>GRAND SUMMARY</u></b></p>			
ITEM	DESCRIPTION	PAGE	AMOUNT (KSH)
1	PARTICULAR PRELIMINARIES	PP/8	
2	GENERAL PRELIMINARIES	GP/16	
3	BUILDER'S WORK		
3.1	Lab Block	LAB/28	
3.2	Boundary wall	BW/6	
3.3	Gate House	G/14	
3.4	Warehouse 5	W/6	
4	ELECTRICAL WORKS	F/16	
5	MECHANICAL WORKS	D/17	
6	PROVISIONAL SUMS	P/1	
	GRAND TOTAL CARRIED TO FORM OF TENDER (V.A.T. inclusive)	KSH	

Amount of tender in words:

Tenderer's signature and stamp.....

Address.....

Date.....

Witness: Name and signature.....

Address.....

Date.....