

PARTICULAR PRELIMINARIES  
(PHASE 1)

ITEM	DESCRIPTION	AMOUNT
	<p><b><u>PARTICULAR PRELIMINARIES</u></b></p> <p>The Contractor is advised to carefully read and understand all insertions to particular preliminaries</p>	
A	<p><b><u>DESCRIPTION OF THE WORKS AND SCOPE OF CONTRACT</u></b></p> <p>These are new works generally consisting of excavations, concretework, walling, roofing doors, mild steel casement windows, finishes fittings, civil works and associated mechanical and electrical installation works</p>	
B	<p><b><u>MEASUREMENTS</u></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 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p>	
C	<p><b><u>LOCATION OF SITE</u></b></p> <p>The site of the proposed works is in Mombasa. The Contractor is advised to visit the site to familiarize himself with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained.</p>	
D	<p><b><u>CLEARING AWAY</u></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 works 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>	
E	<p><b><u>OFFICE FOR THE ARCHITECT</u></b></p> <p>The site office mentioned hereafter shall be 5 x 3 metres on plan and constructed on 100mm concrete slab with weatherboarding wall and GCI roofing, with softboard ceiling and finishes to wall and cement screed floor. Copies of drawings and Bills of Quantities shall be kept in this office at all times.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</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 claim or intent to claim notice to the PROJECT MANAGER in accordance with Clause 19 and 24 of the conditions of contract. No claims shall be entertained if the contractor has not complied with the said conditions.</p>	
<b>B</b>	<p><b>PAYMENTS</b></p> <p>The tenderer's attention is drawn to the fact that the COUNTY GOVERNMENT pays for work done and materials delivered to site: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.</p>	
<b>C</b>	<p><b>LABOUR CAMPS</b></p> <p>The Contractor will not be allowed to house labour on site and shall take full responsibility for transporting labour daily to and from the site as required and the cost of this shall be included in his tender.</p>	
<b>D</b>	<p><b>FIRM PRICE CONTRACT</b></p> <p>This is a firm price contract and, therefore the tenderer shall not be reimbursed for any increases in the costs of materials and/or labour in the execution of the works except as provided under the fluctuations clause.</p>	
<b>E</b>	<p><b>MATERIALS FROM DEMOLITIONS</b></p> <p>Any materials from demolitions and not re-used shall become the property of the Client/User. The Contractor shall allow in his rates for the cost of transporting, storing and securing the materials on site as directed by the PROJECT MANAGER.</p>	
<b>F</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, , taxes, all to comply with the said Conditions of Contract.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<b>SECURITY</b> The Contractor shall provide 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.	
<b>B</b>	<b>URGENCY OF THE WORKS</b> The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.  The Contractor should allow for any costs he may incur by having to complete the works within the stipulated contract period.	
<b>C</b>	<b>PAYMENT FOR MATERIALS ON SITE</b> 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.	
<b>D</b>	<b>SIGN BOARD</b> Allow for providing, erecting and maintaining through out the course of the contract and afterwards clearing away a sign board in accordance with the Ministry of Roads and Public Works standard detail to be obtained from the PM.	
<b>E</b>	<b>PRICING OF PRELIMINARIES</b> The tenderer is required to price items covered in these preliminaries as items for which no price is entered will not be paid for but shall be deemed covered by other rates and prices in these Bills of Quantities.	
<b>F</b>	<b>ADJOINING PROPERTY</b> Take all necessary precautions to prevent damage to adjoining property. Any damage occurring must be made good to the satisfaction of the PM and/or owner(s) of the adjoining property at the contractor’s expense.	
<b>G</b>	<b>USE OF SITE</b>  Do not use the site for any other purpose other than carrying out the works. Do not permit or display any advertisement without the consent of the PM	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<p><b>A</b></p> <p><b>QUALITY OF THE WORKS</b></p> <p>The works should be of high quality and the contractor will be required to make samples of the work to be executed for approval by the PM before he commences the carrying out of the works. The contractor should allow for sample works in his rates accordingly. Incase a sample does not meet the standards set by the PM, the contractor shall be expected to make another sample at his cost until it is approved by the PM.</p> <p><b>B</b></p> <p><b>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 foreign bank which has been determined by the bidder to be acceptable to the County 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 County Government. Letters of credit, bank Guarantees issued as surety for the bid shall be valid for a period of One Hundred and Fifty <b>(150)</b> days from the date of Tender Opening.</p> <p><b>C</b></p> <p><b>TRAINING LEVY</b></p> <p>Legal notice No. 237 of October, 1971 requires payment by the contractor of a training levy of a quarter percent of the value of the contract where the contract value exceeds KShs. 50,000/=. The contractor will be required to furnish the Project Manager with a receipt showing that he has paid the required Training Levy to the Director of Industrial Training. In case the contractor fails to furnish the said receipt</p> <p><b>D</b></p> <p><b>WATER FOR THE WORKS</b></p> <p>The contractor is to make his arrangements for the provision of water for the works in the course of execution of this contract.</p> <p><b>E</b></p> <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 shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>		
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<p><b>A</b></p> <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 site where the Client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p> <p><b>B</b></p> <p><b>FORM OF CONTRACT</b></p> <p>The form of contract will be the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition)</p> <p><b>C</b></p> <p><b>PERFORMANCE BOND</b></p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.5, award of contract of the Conditions of Contract. No payment will be made without the required performance security.</p> <p><b>D</b></p> <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 in the tender box as specified in the advertisement and or letter of invitation to tender.</p> <p>Tenders will be opened at the time specified in the advertisement and/or letter of invitation to tender. Tenders arriving later than the specified time will not be considered.</p> <p><b>E</b></p> <p><b>CORRECTION OF ERRORS IN TENDER</b></p> <p>Arithmetical errors will be rectified on the following basis.</p> <p>If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and the quantity, the unit price shall prevail and the total price shall be corrected.</p> <p>If there is a discrepancy between words and figures, the amount in words will prevail.</p> <p><b>F</b></p> <p><b>TELEPHONE</b></p> <p>Allow for providing and maintaining a telephone upon the site during the contract period and for paying all the charges</p>		
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<b>VIEWING OF DRAWINGS</b> Any tenderer interested in viewing the drawings related to this project before submission of the tenders may do so by contacting the KEMSA PROCUREMENT DEPARTMENT	
<b>B</b>	<b>STANDARD FORMS</b> Any tender with standard forms not filled as appropriate will be treated as non-responsive.	
<b>C</b>	<b>INTERRUPTION OF WORK</b> The Contractor is to carry out the works on site where the user is carrying on with his normal activities. Periodic stoppages of work will be experienced and therefore the Contractor should assess the delays and losses likely to be incurred and price accordingly. No claim in respect of extension of time and losses will be entertained due to any failure by the Contractor.	
<b>D</b>	<b>VALUE ADDED TAX</b> 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 VAT and any other Government taxes currently in force.	
<b>E</b>	The tenderer is advised that in accordance with Government public notice No. 35 &36 Dated 11 <sup>th</sup> September 2003 operational from 1 <sup>st</sup> October 2003, withholding VAT will be levied against the contract sum by the Employer and remitted 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 of 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.	
<b>F</b>	<b>TENDER VALIDITY</b> "Clause 3.6 if the Instructions to Tenderers has been amended to read: <b>"Tenders shall remain valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening, and not Ninety (60) days. All Tenderers are advised to note this amendment when filling the Form of Tender".</b>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
	<p><b>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</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> 3 Months From Practical completion</p> <p><b>Defects Liability Period</b> 6 Months from practical completion</p> <p><b>Date for Possession</b> To be agreed with the Project Manager</p> <p><b>Date for Completion</b> ..... 32 Weeks from date of Possession</p> <p><b>Liquidated and Ascertained</b> At the rate of <b>Kshs.100, 000.00</b> per week or part thereof</p> <p><b>Prime Cost Sums for which the Contractor desires to tender</b> .....</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> 10%</p>	
	<b>CARRIED TO COLLECTION</b>	



ITEM	DESCRIPTION	AMOUNT
	<p style="text-align: center;"><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>	
	<p>PARTICULAR PRELIMINARIES</p> <p>TOTAL CARRIED TO GRAND SUMMARY</p>	

**GENERAL PRELIMINARIES  
(PHASE 1)**

ITEM	DESCRIPTION	AMOUNT
	<b><u>GENERAL PRELIMINARIES</u></b>	
<b>A</b>	<b><u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u></b>  Wherever in the Contractor's priced Bills of Quantities no price appears against an item of Preliminaries or Preambles, the value of such item shall be deemed to be included in his prices for other items in the schedule and summary of works.	
<b>B</b>	<b><u>B. ABBREVIATIONS AND DEFINITIONS</u></b>  Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows; <p>cm.                      Shall mean cubic metre</p> <p>sm.                      Shall mean square metre</p> <p>lm.                      Shall mean linear metre</p> <p>mm                      Shall mean Millimetre</p> <p>m<sup>2</sup>.                      Shall mean square metre</p> <p>kg                        Shall mean Kilogramme</p> <p>no.                       Shall mean Number</p> <p>prs.                      Shall mean Pairs</p> <p>in or "                   Shall mean inch</p> <p>B.S.                      Shall mean the British Standard Specification published by the British Standards Institution, 2 park Street, London W.I.</p> <p>Ditto                      Shall mean the whole of the preceding description except as qualified in</p> <p>m.s.                      Shall mean measured separately.</p> <p>a.b.d                      Shall mean as before described.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>ABBREVIATIONS AND DEFINITIONS (CONTD.)</u></b>	
	lf                                      Shall mean linear foot	
	sf                                      Shall mean square foot	
	cf                                      Shall mean cubic foot	
	lb                                      Shall mean pound avoirdupois	
	K.S.                                      Shall mean the current Kenya Standard Specification published by the Kenya Bureau of Standards, P.O. Box 54974, Nairobi, Kenya.	
	'As described'    Shall mean as described in these Bills of Quantities.	
	'As before described'    Shall mean in all respects as described in a previous item.	
	"Approved"                      Shall mean approved by the Project Manager	
	"As directed"                      Shall mean as directed by the Project Manager	
<b>B</b>	<b><u>CONTRACT BILLS OF QUANTITIES</u></b>	
	The Contract Bills have been prepared in accordance with the Standard method of measurement of Building works for Eastern Africa, Second Edition (metric) 2008, Published by the Architectural Association of Kenya, chapter of Quantities Surveyors, which is available for inspection at the offices of the Quantity Surveyors by appointment	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</u></b></p> <p><u>Attendance</u> Clause B19(b) of the Standard Method of Measurement is and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in and shall be deemed to include: allowing use of standing scaffolding, messrooms, sanitary conditions and welfare facilities; provision of special scaffolding where necessary, 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>Clause D 18 (a) and (b) of the Standard method of measurement are deleted and the following clause is substituted:keeping excavations free from all water including spring and running water shall be included as an item, or alternatively shall be given in the description of excavation.</p> <p>Clause D 19 of the Standard Method of measurement. The last sentence which reads:</p> <p>“ and shall be given as an item or shall be included in the description of excavation” shall be deleted and the following substituted: “and shall be deemed to be included in the description of all items of excavation.</p>	
B	<p><b><u>Fix Only:-</u></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>	
C	<p><b><u>EMPLOYER</u></b></p> <p>The Employer is the Kenya Medical Supplies Authority. . The terms "Employer", "Government" and "Kemsa" whenever used in any contract document shall be synonymous.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<p><b><u>PROJECT MANAGER</u></b></p> <p>The term "PROJECT MANAGER" wherever used in these Bills of Quantities shall be deemed to imply the person defined in Condition 1 of the Conditions of Contract hereby attached or such person or persons as may be duly authorised to represent him on behalf of the Government.</p>	
<b>B</b>	<p><b><u>ARCHITECT</u></b></p> <p>The term "Architect" shall be deemed to mean <b>APT DESIGN SOLUTIONS</b> whose address unless otherwise notified is <b>P.O BOX 321900,00200 NAIROBI</b></p>	
<b>C</b>	<p><b><u>QUANTITY SURVEYOR</u></b></p> <p>The term "Quantity Surveyor" shall be deemed to mean  .....whose address  unless otherwise notified is .....</p>	
<b>D</b>	<p><b><u>MECHANICAL/ELECTRICAL ENGINEER</u></b></p> <p>The term "Mechanical/Electrical Engineer" shall be deemed to mean  ..... whose address  unless otherwise notified is .....</p>	
<b>E</b>	<p><b><u>CIVIL/STRUCTURAL ENGINEER</u></b></p> <p>The term "Civil/Structural Engineer" shall be deemed to mean  .....whose address  unless otherwise notified is .....</p>	
<b>F</b>	<p><b><u>SURVEYOR</u></b></p> <p>The term "Surveyor" shall be deemed to mean  .....whose address  unless otherwise notified is .....</p>	
<b>G</b>	<p><b><u>ENVIRONMENTAL CONSULTANT</u></b></p> <p>The term "Enviromental consultant" shall be deemed to mean  .....whose address  unless otherwise notified is ...</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>FORM OF CONTRACT</u></b></p> <p>The form of contract will be the one included in the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition) hereby attached and Conditions of Contract are those attached thereto. If the Contractor considers that compliance with any of the Conditions of Contract involves any expenses distribute them among his rates for the various items in the Bills of Quantities. No claim shall be allowed arising from the Contractors compliance with <b><u>any of the Conditions of Contract</u></b>. These are numbered from 1 to 37 as set out on pages 18 to 38 of these tender documents. Particulars of the insertion to be made in the Appendix of the Appendix of the Contract Agreement will be found in the Particular Preliminaries of these Bills of Quantities.</p>	
B	<p><b><u>BOND.</u></b></p> <p>The Contractor shall find and submit on the Form of Tender the name of <b>one surety who shall be an approved bank</b> and who will be willing to be bound to the Government in an amount equal to seven and half per cent (5) of the Contract amount for the due performance of the contract up to the date of completion as certified by the "PROJECT MANAGER" and who will when and if called upon, sign a Bond to that effect on Ministry of Roads Public works and Housing Form No 118 (without the addition of any limitations) on the same day as the Contract Agreement is signed. In the event of the surety named in the form of tender not being approved by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
C	<p><b><u>PLANT, TOOLS AND VEHICLES</u></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 hereiin. No timber used for formwork, scaffolding or temporary works of any kind shall be used afterwards in the permanent work.</p>	
D	<p><b><u>TRANSPORT.</u></b></p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>MATERIALS AND WORKMANSHIP.</u></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 Contractor shall also order materials from local sources as early as necessary to ensure that they are on site when required for use in the the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p> <p><b><u>B      SIGN FOR MATERIALS SUPPLIED.</u></b></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the "PROJECT MANAGER" at the time of taking delivery thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and replacements of any such loss or damage with articles and/or materials which will be supplied by the "PROJECT MANAGER" at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the "PROJECT MANAGER"</p> <p><b><u>C      STORAGE OF MATERIALS</u></b></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weatherproof lockup sheds for the safe storage and custody of materials for the works and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the "PROJECT MANAGER". Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
	<b>CARRIED TO COLLECTION</b>	



ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>SAMPLES</u></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 required by the "PROJECT MANAGER" for his approval or rejection and any other samples in case of rejection until such samples are approved by the "PROJECT MANAGER" and he may reject any materials or workmanship not in his opinion to be up to the approved samples. The "PROJECT MANAGER" shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the "PROJECT MANAGER". The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Roads Public Works &amp; Housing. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the "PROJECT MANAGER". The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p><b><u>GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</u></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 to the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is important that the contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>SECURITY OF WORKS ETC.</u></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> <p><b><u>PUBLIC AND PRIVATE ROADS.</u></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> <p><b><u>EXISTING PROPERTY.</u></b></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the "PROJECT MANAGER"</p> <p><b><u>VISIT SITE AND EXAMINE DRAWINGS.</u></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 his tender. No claim arising from his failure to comply with this recommendation will be considered</p> <p><b><u>ACCESS TO SITE AND TEMPORARY ROADS.</u></b></p> <p>Means of access to the Site shall be agreed with the "PROJECT MANAGER" prior to commencement of the work and the 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>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u></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	<p><b><u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u></b></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters 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 from mains and the Contractor must make his own arrangements for augmenting this supply at his cost. Nominated sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
C	<p><b><u>OFFICE FOR THE PROJECT MANAGER</u></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 maintain a lock-up pedestral type water or bucket closet for the sole use of the "PM" including making temporary connections to the drain where applicable to the satisfaction Government and Medical Officer of Health and pay the services of a 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 complete before the contractor is permitted to commence the works. The Contractor shall make available on site as and when required by the "PM" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic linen tape.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<p><b><u>SANITATION OF THE WORKS</u></b></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the "PROJECT MANAGER"</p>	
<b>B</b>	<p><b><u>SUPERVISION AND WORKING HOURS</u></b></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the "PROJECT MANAGER" who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract. The working hours shall be those generally worked by good employers in the in the Building and Civil Engineering trades in Kenya. No work shall be carried out at night or on gazetted holidays unless the "PROJECT MANAGER" shall so direct. No work shall be covered up nor shall any concreting be carried out in the in the absence of the Clerk of Works without prior approval of the "PROJECT MANAGER" in writing.</p>	
<b>C</b>	<p><b><u>PROVISIONAL SUMS.</u></b></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurements. Such sums are net and no addition shall be made to them for profit.</p>	
<b>D</b>	<p><b><u>PRIME COST (OR P.C.) SUMS.</u></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 Measurements. Persons or firms nominated by the "PROJECT MANAGER" to execute work or to provide and fix materials or goods as stated in Condition No. 8 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<p><b>A</b></p> <p><b><u>PROGRESS CHART.</u></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 site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p> <p><b>B</b></p> <p><b><u>ADJUSTMENT OF P.C. SUMS.</u></b></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the P.M's order in respect of each of them added to the Contract sum. The Contractor shall provide 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.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p> <p><b>C</b></p> <p><b><u>ADJUSTMENT OF PROVISIONAL SUMS.</u></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 MANAGERS" order added to the contract Sum. Such work shall be valued as described for variations in condition No. 22 of the conditions of Contract, but should any part of the contract be executed by a nominated Sub-Contractor, or any articles for the Work be supplied by a Nominated Supplier, the value of such work or articles shall be treated as P.C. P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>		
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>NOMINATED SUB-CONTRACTORS</u></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 as described in Condition No 8 of the Conditions of Contract and shall thereafter be responsible for such sub contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract contractor's work concerned in the P.C. Sums under the description "Add for Attendance".</p> <p><b><u>DIRECT CONTRACTS</u></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 the instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p><b><u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u></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 and measured and paid for to the extent executed at rates provided in these bills.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>INSURANCE</u></b></p> <p>The Contractor shall insure as required in Condition No.30 of the Conditions of contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the "PROJECT MANAGER" either by production of an insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clause have been complied with in all respects. Thereafter the "PROJECT MANAGER" shall from time to time ascertain that the premiums are duly paid up by the Contractor, who, if called upon to do so, shall produce receipted premium renewals for the "PROJECT MANAGER"'s inspection.</p>	
B	<p><b><u>PROVISIONAL WORK</u></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 be left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the "PROJECT MANAGER" Immediately the work is ready for measuring, the Contractor shall give notice to the "PROJECT MANAGER" If the Contractor makes default in these respects he shall, if the "PROJECT MANAGER" so directs, uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
C	<p><b><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></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 Bills of Quantities. All items 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>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>BLASTING OPERATIONS</u></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 laid down by the "PROJECT MANAGER" governing the use and storage of explosives.</p>	
B	<p><b><u>MATERIALS ARISING FROM EXCAVATIONS</u></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>	
C	<p><b><u>PROTECTION OF THE WORKS.</u></b></p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including 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>	
D	<p><b><u>REMOVAL OF RUBBISH ETC.</u></b></p> <p>Remove all rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p> <p><b><u>TOPOGRAPHICAL SURVEY</u></b></p>	
E	<p>The contractor's to carry out a topo survey of the site before commencement of the works to the approval of the Engineer. His tender must include for all costs arising or resulting there from</p>	
	<b>CARRIED TO COLLECTION</b>	



ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<p><b><u>WORKS TO BE DELIVERED UP CLEAN</u></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>B</b>	<p><b><u>GENERAL SPECIFICATION.</u></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 General Specification dated 1976 or any subsequent revision thereof a copy of which is available at the Quantity surveyors offices , and which which shall be followed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
<b>C</b>	<p><b><u>TRAINING LEVY</u></b></p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs 50,000.00 in value.</p>	
<b>D</b>	<p><b><u>MATERIALS ON SITE</u></b></p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the "PROJECT MANAGER". This is to include the materials of Main Contractor, and Nominated Sub-Contractors Suppliers.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</u></b></p> <p>The Contractor shall constantly keep on the works literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
B	<p><b><u>FIRM PRICE CONTRACT</u></b></p> <p>Unless otherwise specifically stated in the Contract Data and/or Particular Preliminaries this is a firm price contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of the contract.</p>	
C	<p><b><u>HOARDING</u></b></p> <p>Provide, erect, maintain and remove on completion of the works an approved suitable and sufficient hoarding along perimeter of property or as directed.</p> <p>The hoarding shall be 3.00m high, above ground level, and constructed of 150mm diameter approved celcured hardwood posts, at 2.00m centres, 3.60m long and with one end set 600mm deep below ground level; 100 x 50mm sawn celcured cypress battens nailed to the posts at 1.00m centres; 30 gauge galvanised corrugated iron sheets 3.00m long fixed to the battens and painted and the whole fence kept clean and neat during the currency of the contract. A rehicular double gate size 3.50 x 3.00 mm high constructed of the same materials complete with a wicket door and necessary ironmongery shall be provided.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b>SETTING OUT</b></p> <p>The contractor shall set out the works in accordance with the dimensions and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels so set out by him and he shall be required to amend all errors arising from inaccurate setting out at his own cost and expense. In the event of any error or discrepancy in the dimensions or levels marked on the drawings being discovered, such errors or discrepancies must be reported by the contractor to the Architect for immediate attention. No work shall be commenced by the contractor until he has received written instructions from the Architect to adjust such discrepancies which may be proved. Upon receipt of such instructions the contractor shall thereupon be responsible for adjustments necessary to comply with such instructions and no claim for extra expense based on any discrepancy or error in the dimensions or levels shown on the drawings shall be made thereafter.</p> <p><b>NOMINATED SUPPLIERS</b></p> <p>The cost of "Fix only" materials to be obtained from nominated suppliers which are covered by Prime cost or Provisional Sums shall include for taking delivery where directed, in checking with invoices or indents, reporting and claiming damages for shortages and damaged goods, defraying demurrage, signing for as having been received in good order, transporting, unloading, storing, covering and protecting, until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
	<b><u>COLLECTION</u></b>	
	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	
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	Brought forward from page GP/16	
	Brought forward from page GP/17	
<b>GENERAL PRELIMINARIES TOTAL CARRIED TO GRAND SUMMARY</b>		

BILL NO. 1  
GATE HOUSES  
(PHASE 1)

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>GATE HOUSES</u></b></p> <p><b><u>DEMOLITIONS AND ALTERATIONS</u></b></p> <p><b><u>DEMOLITIONS AND ALTERATIONS(ALL PROVISIONAL)</u></b></p> <p><i><u>DEMOLITIONS(ALL PROVISIONAL)</u></i></p> <p><i><u>SITE PREPARATION</u></i></p> <p><u>Various locations</u></p> <p>Clearing the site of all structures; salvaged materials to remain the property of Employer and cart away debris</p>				
A	Single storey building; 3 x 3 x 3 m high to roof slab; comprising natural stone or block walling, concrete roof slab complete with doors and windows; demolition down to ground floor level including ground slab and foundations		Item		
B	Single storey building; 3.5 x 3.5 x 3 m high to roof slab; comprising natural stone or block walling, concrete roof slab complete with doors and windows; demolition down to ground floor level including ground slab and foundations		Item		
	Demolish parts of structures and cart away debris				
C	Allow for all necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	DEMOLITIONS AND ALTERATIONS Page No. 1	
	To GATE HOUSES	

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUBSTRUCTURES</u></b>				
	<b><u>EXCAVATION AND EARTHWORK</u></b>				
	<u>EXCAVATION</u>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	56	cm		
	Trenches; to receive foundations; starting from reduced level				
B	Not exceeding 1.50 m deep	38	cm		
	Pits; to receive column bases or the like; starting from reduced level				
C	Not exceeding 1.50 m deep	51	cm		
	Extra over all kinds of excavations irrespective of depth for				
D	Excavating in hard rock irrespective of depth	22	cm		
	<u>Disposal</u>				
	Surplus excavated material				
E	Removing from site	87	cm		
	<u>DISPOSAL OF WATER</u>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
F	All water including spring or running water		Item		
	<u>PLANKING AND STRUTTING</u>				
	<u>Labour and materials</u>				
	To uphold the sides of excavation				
G	Generally		Item		
	<u>FILLING</u>				
	<u>Hardcore</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
H	300 mm thick; handpacked in layers not exceeding 150mm thick	37	sm		
	<u>Approved excavated material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
J	Return fill and ram approved excavated material around foundations	58	cm		
	<u>Approved imported fill material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
K	Over 300 mm thick; depositing and compacting in layers maximum 200 mm thick	31	cm		
KM					



# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Stone or quarry dust</u>	37	sm		
	Blinding surfaces of fill				
	50 mm thick				
B	<u>DAMP PROOFING MEMBRANES</u>	47	sm		
	<u>500 Gauge 'diothene' or other equal and approved polythene sheeting damp proofing membrane; with weltd laps (measured separately - no allowance made for laps)</u>				
	Horizontal; in 1 No. layer(s)				
C	Over 300mm wide; laid on compacted murrum or quarry dust blinding (measured separately)	47	sm		
	<u>ANTI-TERMITE AND HERBICIDE TREATMENT</u>				
	<u>Termidor, or other equal and approved insecticide applied strictly in accordance with the Manufacturer's printed instructions</u>				
D	With a Ten years guarantee as described all to the Architect's approval.	47	sm		
	To surfaces of fill and tops of foundation walls				
	<b><u>CONCRETE WORK</u></b>				
E	<u>INSITU CONCRETE: PLAIN</u>	30	sm		
	<u>Normal: mass concrete class `P'</u>				
	Foundations				
F	50 mm thick	41	sm		
	Bases				
	50 mm thick				
G	<u>INSITU CONCRETE: REINFORCED</u>	6	cm		
	<u>Normal: class 20/(20mm); vibrated</u>				
	Foundations in trenches				
H	Irrespective of thickness	12	cm		
	Column bases				
	Generally				
I	Columns: vertical or sloping not exceeding 15 degrees from horizontal	6	cm		
	Generally				
	Beds				
J	150 mm thick	47	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>REINFORCEMENT</u></b>				
	<u>Bars: mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
A	16 mm Diameter	404	kg		
B	12 mm Diameter	607	kg		
C	10 mm Diameter	262	kg		
D	8 mm Diameter	174	kg		
	<u>Fabric; B.S. 4483</u>				
	Reference A142 ; mesh 200 x 200 mm weight 2.22 kgs per square metre (measured net - no allowance made for laps); including bends, tying wire and distance blocks				
E	In any location	47	sm		
	<b><u>FORMWORK TO INSITU CONCRETE</u></b>				
	<u>Formwork generally</u>				
	Edges of beds, roads, footpaths, pavings and the like				
F	75 to 150 mm wide	41	lm		
	Sides; vertical or battering				
G	Columns or the like	58	sm		
	<b><u>WALLING</u></b>				
	<b><u>NATURAL STONEWORK</u></b>				
	<u>Approved local stone; roughly squared; bedding and jointing in cement mortar (1:4)</u>				
	Walls				
H	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	100	sm		
	<b><u>DAMP PROOF COURSES</u></b>				
	<u>B.S. 743; type A; bitumen hessian base; 150 mm laps; No allowance made for laps</u>				
	Horizontal; 1 No of layer(s)				
J	150mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	8	lm		
K	200mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	36	lm		
	<b><u>PLINTHS</u></b>				
	<u>Cement/sand(1:4) render</u>				
	Walls				
L	20mm thick cement/sand(1:4) render to plinth	12	sm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p>Prepare and apply three coats of black bituminous paint on rendered plinth</p> <p><b><u>ROADWORKS</u></b></p> <p><i><u>PRECAST CONCRETE</u></i></p> <p><u>Normal; class 20/(20mm); vibrated</u></p> <p>Paving slab</p>	12	sm		
B	<p>600 x 600 x 50 mm thick on and including 50 mm sand bed including jointing and pointing in cement sand (1:3) mortar necessary excavations,levelling, compaction and disposal</p>	49	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUBSTRUCTURES</p> <p>Page No. 3</p> <p>Page No. 4</p> <p>Page No. 5</p> <p>Page No. 6</p>	
To GATE HOUSES		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUPERSTRUCTURE CONCRETE WORK</u></b>				
	<b><u>CONCRETE WORK</u></b>				
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 20/(20mm); vibrated</u>				
	Beams; horizontal or sloping not exceeding 15 degrees from horizontal				
A	Generally	18	cm		
	Columns: vertical or sloping not exceeding 15 degrees from horizontal				
B	Generally	13	cm		
	Suspended floors, roofs or the like; horizontal				
C	150 mm thick	160	sm		
	Gutters				
D	Generally	13	cm		
	<u>REINFORCEMENT</u>				
	<u>Bars; mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
E	16 mm Diameter	720	kg		
F	12 mm Diameter	1,151	kg		
G	10 mm Diameter	2,393	kg		
H	8 mm Diameter	1,139	kg		
	<u>FORMWORK TO INSITU CONCRETE</u>				
	<u>Formwork generally</u>				
	Soffits; horizontal				
J	Suspended floor slabs	160	sm		
	Edges of suspended slab				
K	75 to 150 mm wide	196	lm		
	Sides; vertical or battering				
L	Columns or the like	134	sm		
	Sides; vertical or battering; curved various radii				
M	Columns or the like	38	sm		
	Sides and soffits				
N	Beams or the like; horizontal	214	sm		
P	Gutters or the like;horizontal	120	sm		
KM					

PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Formwork and fair faced finish</u>	48	lm		
	Sides and soffites				
	Extra over formwork for forming 700mm girth decorative mouldings in beams				

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUPERSTRUCTURE CONCRETE WORK</p> <p>Page No. 8</p> <p>Page No. 9</p>	
<p>KM</p>		<p>To GATE HOUSES</p>

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>SUPERSTRUCTURE WALLING</u></b>  <b><u>CONCRETE WORK</u></b>  <u>PRECAST CONCRETE</u>  <u>Normal; class 20/(20mm); vibrated</u>  Coping  250 x 50 mm ; extreme thick; twice weathered; twice throated; reinforced as necessary for handling; surface finish 500 mm girth; bedding, jointing and pointing in cement mortar (1:4)	40	lm		
	<b><u>WALLING</u></b>  <u>NATURAL STONEMWORK</u>  <u>Approved coral stone; squared; chisel dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u>  Walls				
	150 mm thick; reinforced with hoop iron gauge 500 in every alternative course	27	sm		
C	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	150	sm		



PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<div>SUPERSTRUCTURE WALLING</div> <div>Page No. 11</div>	
To GATE HOUSES		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>ROOFING</u></b>				
	<b><u>ASPHALT WORK</u></b>				
	<u>TILE ROOFING</u>				
	<u>5mm thick Imper-italia APP membrane rubber gutter water proofing finish or other equal and approved as supplied by Engineering supplies 2001 Limited</u>				
	Apply as per manufacturer's instructions				
A	Over 300 mm wide to roof; laid to falls and cross-falls	218	sm		
	<b><u>CARPENTRY</u></b>				
	<u>STRUCTURAL TIMBERS-Timber shall be as supplied by "Timsales Limited" or other equal and approved</u>				
	<u>Sawn Cypress; second grade; pressure impregnated</u>				
	Wallplate bedded in cement:sand (1:3) mortar bolted to concrete with 12 diameter bolts at 600 mm centres				
B	150 x 50 mm	7	lm		
	Common rafters				
C	100 x 50 mm	17	lm		
	Ridge board; cutting and fitting to ends of rafters				
D	200 x 50 mm	11	lm		
	Bearers or the like				
E	50 x 50 mm	25	lm		
F	50 x 50 mm; plugging	15	lm		
	Purlins				
G	100 x 50 mm	50	lm		
	<u>The following in trusses; spanning 3000 mm clear span x 1200 mm high; with bolted connections including all bolts,nails connection plates and all necessary accessories; hoisting approximately 3 m above existing ground level</u>				
	Sawn cypress; second grade; pressure impregnated				
	Ceiling joists				
H	100 x 50 mm	12	lm		
	Rafters				
J	100 x 50 mm	20	lm		
	Struts and ties				
K	100 x 50 mm	26	lm		
	King post				
L	100 x 50 mm	5	lm		
	Collar piece				
M	100 x 50 mm	4	lm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>BOARDING</u></b>				
	<u>Wrot cypress; prime grade; pressure impregnated</u>				
	Fascia boards				
A	250 x 25 mm; with one labour	7	lm		
	Barge boards				
B	250 x 25 mm; with one labour	8	lm		
	<b><u>CARPENTRY SUNDRIES</u></b>				
	<u>Labour and material</u>				
	Vents				
C	Extra over t&g boarding for forming 300 x 300mm vents consisting of galvanised mosquito wire gauze fixed with and including 25 x 15mm cypress beading	4	No		
	<b><u>ROOF COVERING</u></b>				
	<b><u>TILE ROOFING</u></b>				
	<u>Decra interlocking galvanised steel SHINGLES tiles manufactured by Decra Roof Systems (U.K.) Ltd; Textured stone granite finish, approved colour, 1260 x 368 mm net coverage 50 x 50 mm pressure impregnated cypress second grade battens at 368 mm centres</u>				
	Coverings; laid and nailed in accordance with manufacturer's instructions				
D	Sloping exceeding 45 degrees from horizontal	15	sm		
	Hips				
E	Barge edge cover to match roofing tiles	8	lm		
	<b><u>SHEET METAL FLASHING, GUTTER LININGS AND METAL TRIMS</u></b>				
	<u>uPVC in</u>				
	Gutter coverings; fixing with galvanised screws				
F	Extra over gutter for 100 x 100 mm down pipe outlet	2	no		
G	100mm diameter down pipe fixed to wall with and including approved holder bats	48	lm		
	<b><u>PLASTIC GUTTERS AND DOWN PIPES</u></b>				
	<u>uPVC in</u>				
	Gutter coverings; fixing with galvanised screws				
H	150 x 150mm U-shaped gutter fixed to fascia board with and including approved brackets	4	lm		
J	Extra over gutter for 100 x 100 mm down pipe outlet	8	no		
K	Extra over gutter for stopped ends	2	no		
L	Extra over down pipe for swan neck	10	no		
M	Extra over down pipe for horse shoe	10	no		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	100mm diameter down pipe fixed to wall with and including approved holder bats	6	lm		
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<b><u>PLAIN SHEET FINISHINGS</u></b>				
	<u>Laminated plastic sheet; to B.S. 3794; fix in accordance with manufacturer's recommendations</u>				
	6 mm thick; butt vee joints; set to pattern; including raking cutting and making holes;to timber base (m/s); generally to				
B	Ceilings; external	8	sm		
C	100 x 6mm thick moulded plastic cornice plugged to wall	31	lm		
	<b><u>BEDS OR BACKINGS</u></b>				
	<u>Screed; cement and sand (1:3)</u>				
	50 mm thick one coat beds; wood floated; to receive APP waterproofing (m/s); to concrete or blockwork base; generally to				
D	Roofs; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; external	218	sm		
	<b><u>PAINTING AND DECORATING</u></b>				
	<b><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></b>				
	<u>Timber surfaces</u>				
	Fascia board				
E	250 mm high	15	lm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>ROOFING</p> <p>Page No. 13</p> <p>Page No. 14</p> <p>Page No. 15</p>	
<p>To GATE HOUSES</p>		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>DOORS</u></b></p> <p><b><u>JOINERY</u></b></p> <p><u>DOORS</u></p> <p><u>Wrot Mahogany; prime grade; selected</u></p> <p>Panelled doors; comprising 175 x 45 mm top rail, middle rail and stiles, 195 x 45 mm bottom rail; infilled with 45 mm thick solid panel edges bevelled and tongued and grooved into frame</p>				
A	Single door; 45 mm thick ; 830 x 2065 mm high	3	No		
	Frames				
B	150 x 50 mm moulded transomes; plugged	2	Im		
C	150 x 50 mm frame; with six labours; plugging	17	Im		
D	50 x 25 mm moulded architrave	17	Im		
E	25 x 25 mm moulded beading	17	Im		
F	20 x 15 mm moulded glazing beading	4	Im		
	<p><b><u>IRONMONGERY</u></b></p> <p><u>The following as per Union Catalogue or other equal and approved</u></p> <p>To softwood, hardwood or the like fixing with screws</p>				
G	100mm pressed brass butt hinges	12	No		
H	Kicking plates; 1.6 mmm thick; size 900 x 150 mm; catalogue No. 5000	6	No		
J	Door stops No. 8400	3	No		
K	Delayed action non-reversible overhead door closer as "BRITON" cat. No. 1005	3	No		
L	Aluminium coat and hat hook with rubber buffers catalogue No 8710	3	No		
M	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	3	No		
N	Indicator bolt No. 8094	1	No		
P	150mm long brass flush bolt	3	No		
Q	150 x 25 x 6mm thick mild steel door fixing cramp one end bent and twice screwed to frame and the other fanged and built into wall	18	No		
R	150 x 100mm "male" or "female" symbol plate	3	No		
	<p><b><u>GLAZING</u></b></p> <p><u>GLASS IN OPENINGS</u></p> <p><u>Sheet; clear</u></p> <p>6 mm thick to wood with wooden beads (m/s)</p>				
S	0.1 to 0.5 square metres	1	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>PAINTING AND DECORATING</u></b>				
	<u>PREPARE AND APPLY ONE COAT PINK OR WHITE HARDWOOD PRIMER; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u>				
	<u>Timber surfaces</u>				
	Frames or the like				
	100 to 200 mm girth; internal	17	lm		
B	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u>				
	<u>Metal surfaces</u>				
	General metal surfaces				
	Over 300 mm girth; external	180	sm		
C	200 to 300 mm girth; external	56	lm		
D	<u>PREPARE AND APPLY ONE COAT APPROVED STAIN; THREE COATS 2-PACK MATT POLYURETHANE VARNISH; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u>				
	<u>Timber surfaces</u>				
	Frames or the like				
	200 to 300 mm girth; internal	17	lm		
	Doors				
E	Over 300 mm girth; internal	13	sm		
F	<b><u>FENCING</u></b>				
	<u>GATES</u>				
	<u>Mild steel gates</u>				
	Sliding standard section purpose made mild steel panelled gate comprising 50 x 50 x 3mm thick RHS framework forming equal bevel raised panels infilled with 3 mm thick mild steel sheet both side all to approval;the door to include plugged frame all round.				
	Overall size 1200 x 2400 mm in one leaf	2	No		
G	Sliding gate overall size 5000 x 3500 mm complete with and including all necessary sliding gear	4	No		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

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# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>WINDOWS</u></b>				
	<b><u>CONCRETE WORK</u></b>				
	<u>PRECAST CONCRETE</u>				
	Normal; class 20/(20 mm); vibrated; part surface fair finish				
A	Sills				
	200 x 50 mm ; once sunk weathered; once throated; reinforced as necessary for handling; surface finish 300 mm girth; bedding, jointing and pointing in cement mortar (1:4)	14	lm		
	<b><u>JOINERY</u></b>				
	<u>WINDOWS</u>				
B	<u>Wrot Mahogany; prime grade</u>				
	Window-boards; rounded edges				
	200 x 25 mm; with bullnosed edge; plugging	14	lm		
	Beads				
C	30 x 30 mm; moulded; plugging	14	lm		
D	<b><u>METAL WORK</u></b>				
	<u>STANDARD UNITS</u>				
	Supply and fix the following approved heavy duty purpose made powder powder coated aluminium casement windows in standard cross sections complete with lugs, sliding gear or hinges, window stays, handles, 90mm wide galvanised vents at top and neoprene and other approved glazing compounds. Glazing ((M/S)				
	Steel; lugs to two jambs, cutting and pinning to concrete or blockwork				
D	Overall size 800 x 900 mm high	2	No		
E	Overall size 1100 x 1500 mm high	1	No		
F	Overall size 1200 x 1500 mm high	6	No		
G	Overall size 2000 x 1500 mm high	1	No		
H	<b><u>GLAZING</u></b>				
	<u>GLASS IN OPENINGS</u>				
	<u>Sheet; clear</u>				
	6 mm thick to aluminium frames with snap on rubber glazing beads				
H	0.5 to 1.0 square metres	15	sm		
J	<u>Sheet; obscured</u>				
	6 mm thick to aluminium frames with snap on rubber glazing beads				
	0.5 to 1.0 square metres	1	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>PAINTING AND DECORATING</u></b></p> <p><i><u>THREE COATS TWO-PACK POLYURETHANE VARNISH; TO CROWN PAINTS OR EQUAL AND APPROVED</u></i></p> <p><u>Timber surfaces</u></p> <p>Frames or the like</p>				
A	100 to 200 mm girth; internal	14	lm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	WINDOWS Page No. 20 Page No. 21	
To GATE HOUSES		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>JOINERY FITTINGS</u></b>				
	<b><u>JOINERY FITTINGS</u></b>				
	<i><u>THE FOLLOWING IN VANITY TOP</u></i>				
	<u>Concrete work</u>				
	Plain concrete; 1:3:6 - 20 mm aggregate				
A	100 mm thick; suspended worktop	1	sm		
	Sawn formwork				
B	Edges of suspended worktop; 75 to 150 mm high	2	lm		
C	Soffites of suspended worktop	1	sm		
	<u>In situ finishes</u>				
	Screed; cement and sand (1:4); in 2 No. coats; to existing concrete base; steel trowelled hard and smooth to finish				
D	20 mm thick; generally to soffites of worktop	1	sm		
	<u>Tiled or block finishes</u>				
	Approved polished green granite slab				
E	20 mm thick; to vanity top	1	sm		
F	100 x 20 mm thick; fascia	2	lm		
	<u>Sundry</u>				
	To Architect approval				
G	Extra over labour for forming bull nosed edges to 20mm thick granite	2	lm		
H	Form or leave 500 x 500mm hole in 100mm thick concrete slab	1	no		
J	Build 20mm thick granite slab around wash hand basin	1	no		
	<i><u>THE FOLLOWING IN LOCKERS</u></i>				
	<u>Concrete work</u>				
	Plain concrete; 1:3:6 - 20 mm aggregate				
K	100 mm thick; beds or plinths	1	sm		
	Sawn formwork				
L	Edges of plinths; 75 to 150 mm high	2	lm		
	<u>In situ finishes</u>				
	Screed; cement and sand (1:4); in 2 No. coats; to existing concrete base; steel trowelled hard and smooth to finish				
M	12 mm thick; generally to plinth	1	sm		
	<u>General joinery</u>				
	Wrot cypress; prime grade; pressure impregnated				
N	50 x 25 mm bearers	13	lm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	Medium density fibre (MDF) boarding;timber look-like laminated both sides; with and including plastic lipping all round				
A	20 mm thick; top; over 300 mm wide	1	sm		
B	20 mm thick; bottom; over 300 mm wide	1	sm		
C	20 mm thick; shelves; over 300 mm wide	5	sm		
D	20 mm thick; divisions; over 300 mm wide	5	sm		
E	20 mm thick; door size 400 x 1000 mm high hardwood lipped all round including grooves and beadings to approval	10	No		
	<u>Ironmongery</u>				
	The following ironmongery to timber; to Project Manager's approval; complete with matching screws and keys; as per 'UNION' manufacturers (reference to a particular catalogue are given only as a guide to type and quality, other equal and approved alternatives may be used); to softwoods, hardwoods or the like				
F	Brass Malpa hinges	10	pr		
G	Aluminium D pull handles	10	no		
H	Ball catches	10	no		
	<u>Painting and decoration</u>				
	Prepare and spray paint one undercoat; three coats full gloss oil paint; to Crown 'Solo' paints or other equal and approved; to general surfaces				
J	General surfaces; not exceeding 100 mm girth; internally	13	lm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>JOINERY FITTINGS</p> <p>Page No. 23</p> <p>Page No. 24</p>	
<p>To GATE HOUSES</p>		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>FINISHES</u></b>				
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<u>TILE, SLAB OR BLOCK FINISHINGS</u>				
	<u>Approved imported ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement ; grouting joints with matching cement</u>				
	330 x 330 x 10 mm; butt joints straight both ways; generally to				
A	Floors; level; internal	47	sm		
B	100 mm high Polished ceramic tiles skirting to match; internal	44	lm		
	<u>Ceramic tiles B.S. 1281; imported; approved colour; glazed; to regular pattern; bedding and jointing in cement grouting joints with matching coloured cement</u>				
	250 x 200 x 6 mm; butt joints straight both ways; to cement and sand base (m/s); generally to				
C	Walls; internal	35	sm		
D	Extra over tile for rounded edges	9	lm		
	<u>BEDS OR BACKINGS</u>				
	<u>Mortar; cement and sand (1:3)</u>				
	20mm thick one coat backings; steel trowelled to a smooth surface to receive paint (m/s); to concrete or blockwork base; generally to				
E	Ceilings; internal	160	sm		
	<u>Render; cement and sand (1:3)</u>				
	15mm thick one coat backings; wood floated; to receive tiles(m/s); to concrete or blockwork base; generally to				
F	Walls; internal	35	sm		
	20mm thick one coat backings; steel trowelled to a smooth surface to receive paint (m/s); to concrete or blockwork base; generally to				
G	Walls; internal	121	sm		
H	Walls; external	197	sm		
J	Columns; external	134	sm		
K	Sides of beams; internal	214	sm		
	<u>Screed; cement and sand (1:3)</u>				
	30 mm thick one coat beds; wood floated; to receive ceramic floor tiles (m/s); to concrete or blockwork base; generally to				
L	Floors; level; internal	47	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>PAINTING AND DECORATING</u></b>				
	<u>APPLY UNDER COAT,SKIM GENERAL SURFACES,PREPARE AND APPLY TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
	Over 300 mm girth; internal	121	sm		
B	<u>APPLY UNDERCOAT,SKIM GENERAL SURFACE,PREPARE AND APPLY TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Ceilings				
C	Over 300 mm girth; internal	160	sm		
	Beams				
	Over 300 mm girth; internal	214	sm		
D	<u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
	Over 300 mm girth; external	197	sm		
E	Columns				
	Over 300 mm girth; external	134	sm		
KM					



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	FINISHES Page No. 26 Page No. 27	
To GATE HOUSES		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u></b>				
	<b><u>MECHANICAL INSTALLATIONS</u></b>				
	<b><u>BUILDER'S WORK IN CONNECTION</u></b>				
	<u>Labour and material</u>				
	Excavate trenches to receive 100mm diameter pipes not exceeding 1.50 mm deep average depth				
A	600 mm deep; part return fill and ram and cart away surplus excavated material	20	lm		
	Plain concrete class 'Q' in 150mm thick bed and surround type C to large pipe				
B	Well compacted under and alongside the barrel of the pipe	3	cm		
	Cutting chases in blockwork; running with cement mortar (1:4)				
C	For small pipe	30	lm		
	Holes for pipes or the like in 100 mm thick blockwork or stonework				
D	For 50 pipes; including making good all works disturbed	2	No		
	Holes for pipes or the like in 200 mm thick blockwork or stonework				
E	For 50 pipes; including making good all works disturbed	2	No		
F	For 100 pipes; including making good all works disturbed	2	No		
G	For 150 pipes; including making good all works disturbed	2	No		
	Holes for pipes or the like in 150 mm thick reinforced concrete slab				
H	For 50 pipes; including making good all works disturbed	2	No		
J	For 100 pipes; including making good all works disturbed	2	No		
	<b><u>ELECTRICAL INSTALLATIONS</u></b>				
	<b><u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u></b>				
	<u>Cut away for and make good after electrician or any other specialist installing a concealed conduit system to the following points; including cutting or leaving all holes, notches, mortices, sinkings in both structure and its covering; making good all disturbed works</u>				
	Cutting away in new structures for concealed conduit and point and making good works after the electrician for				
K	25 x 25mm deep chase in solid concrete block or stone walling for conduits	20	lm		
L	50 x 50mm deep chase in solid concrete block or stone walling for conduits	40	lm		
M	75 x75 x 50mm deep recess in solid concrete block or stone walling for switches,sockets and the like	20	No		
N	150 x 150 x 100mm deep recess in solid concrete block or stone walling for telephone cables	1	No		
P	300 x 200 x 100mm deep recess in solid concrete block or stone walling for submains cable	1	No		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</p> <p>Page No. 29</p> <p>Page No. 30</p>	
<p>KM</p>		<p>To GATE HOUSES</p>

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

B I L L   N O .   2

E X I S T I N G   W A R E   H O U S E  
( P H A S E 1 )

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>EXISTING WAREHOUSE</u></b>				
	<b><u>DEMOLITIONS AND ALTERATIONS</u></b>				
	<b><u>DEMOLITIONS AND ALTERATIONS(ALL PROVISIONAL)</u></b>				
	<u>SITE PREPARATION</u>				
	<u>The items of demolitions shall include shoring,making good disturbed areas to match existing and loading and carting away debris unless otherwise specified</u>				
	<u>Various locations</u>				
	Clearing the site of all structures; salvaged materials to remain the property of Employer and cart away debris				
A	Single storey building; 3 x 3 x 3 m high to eaves; comprising natural stone or block walling, galvanised corrugated iron sheet roof on timber trusses complete with doors and windows; demolition down to ground floor level including ground slab and foundations		Item		
	Demolish parts of structures and cart away debris				
B	Allow for all necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		
	Walling				
C	Carefully demolish existing 200mm thick solid concrete block walling plastered and painted both sides or tiled,make good disturbed areas and cart away debris	61	sm		
	Partitions				
	Removing existing aluminium partitions complete with glazing; making good disturbed surfaces to match existing; carting away unused materials from site				
D	100 mm thick	38	sm		
	Doors				
	Removing existing metal doors complete with frames and ironmongery; making good all disturbed surfaces to match existing; carting away unused materials from site				
E	Door size 900 x 2500 mm high	3	No		
	Removing existing aluminium doors complete with frames and ironmongery; making good all disturbed surfaces to match existing; carting away unused materials from site				
F	Door size 900 x 2400 mm high	2	No		
	Finishes				
	Demolish existing internal wall finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
G	Hack existing 20mm thick cement and sand plaster to walls	21	sm		
	Demolish existing floor finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
H	Hack and clean existing 30mm thick screed and prepare for laying new screed	538	sm		
KM					



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p>External works</p> <p>Removing existing metal doors complete with ironmongery; making good all disturbed surfaces to match existing; take to store away from site</p> <p>Door size 4500 x 2100 mm high</p>	1	No		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>DEMOLITIONS AND ALTERATIONS</p> <p>Page No. 1</p> <p>Page No. 2</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUBSTRUCTURES</u></b>				
	<b><u>EXCAVATION AND EARTHWORK</u></b>				
	<u>EXCAVATION</u>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	108	cm		
	Trenches; to receive foundations; starting from reduced level				
B	Not exceeding 1.50 m deep	48	cm		
	Pits; to receive column bases or the like; starting from reduced level				
C	Not exceeding 1.50 m deep	7	cm		
	Extra over all kinds of excavations irrespective of depth for				
D	Excavating in hard rock irrespective of depth	11	cm		
	<u>Disposal</u>				
	Surplus excavated material				
E	Removing from site	131	cm		
	<u>DISPOSAL OF WATER</u>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
F	All water including spring or running water		Item		
	<u>PLANKING AND STRUTTING</u>				
	<u>Labour and materials</u>				
	To uphold the sides of excavation				
G	Generally		Item		
	<u>FILLING</u>				
	<u>Hardcore</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
H	300 mm thick; handpacked in layers not exceeding 150mm thick	81	sm		
	<u>Approved excavated material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
J	Return fill and ram approved excavated material around foundations	33	cm		
	<u>Approved imported fill material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
K	Over 300 mm thick; depositing and compacting in layers maximum 200 mm thick	69	cm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Stone or quarry dust</u>	81	sm		
	Blinding surfaces of fill				
	50 mm thick				
B	<u>DAMP PROOFING MEMBRANES</u>	90	sm		
	<u>500 Gauge 'diothene' or other equal and approved polythene sheeting damp proofing membrane; with weltd laps (measured separately - no allowance made for laps)</u>				
	Horizontal; in 1 No. layer(s)				
C	Over 300mm wide; laid on compacted murrum or quarry dust blinding (measured separately)	90	sm		
	<u>ANTI-TERMITE AND HERBICIDE TREATMENT</u>				
	<u>Termidor, or other equal and approved insecticide applied strictly in accordance with the Manufacturer's printed instructions</u>				
D	With a Ten years guarantee as described all to the Architect's approval.	90	sm		
	To surfaces of fill and tops of foundation walls				
	<b><u>CONCRETE WORK</u></b>				
E	<u>INSITU CONCRETE: PLAIN</u>	39	sm		
	<u>Normal: mass concrete class `P'</u>				
	Foundations				
F	50 mm thick	6	sm		
	Bases				
	50 mm thick				
G	<u>INSITU CONCRETE: REINFORCED</u>	8	cm		
	<u>Normal: class 20/(20mm); vibrated</u>				
	Foundations in trenches				
H	Irrespective of thickness	2	cm		
	Column bases				
	Generally				
I	Columns: vertical or sloping not exceeding 15 degrees from horizontal	1	cm		
	Generally				
	Beds				
J	150 mm thick	90	sm		

**PROPOSED KEMSA WAREHOUSE IN MOMBASA**

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>REINFORCEMENT</u></b>				
	<u>Bars: mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
A	12 mm Diameter	122	kg		
B	10 mm Diameter	417	kg		
C	8 mm Diameter	32	kg		
	<u>Fabric: B.S. 4483</u>				
	Reference A142 ; mesh 200 x 200 mm weight 2.22 kgs per square metre (measured net - no allowance made for laps); including bends, tying wire and distance blocks				
D	In any location	90	sm		
	<b><u>FORMWORK TO INSITU CONCRETE</u></b>				
	<u>Formwork generally</u>				
	Edges of beds, roads, footpaths, pavings and the like				
E	75 to 150 mm wide	41	lm		
	Sides; vertical or battering				
F	Columns or the like	11	sm		
	<b><u>WALLING</u></b>				
	<b><u>NATURAL STONEWORK</u></b>				
	<u>Approved local stone; roughly squared; bedding and jointing in cement mortar (1:4)</u>				
	Walls				
G	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	129	sm		
	<b><u>DAMP PROOF COURSES</u></b>				
	<u>B.S. 743; type A; bitumen hessian base; 150 mm laps; No allowance made for laps</u>				
	Horizontal; 1 No of layer(s)				
H	150mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	14	lm		
J	200mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	43	lm		
	<b><u>PLINTHS</u></b>				
	<u>Cement/sand(1:4) render</u>				
	Walls				
K	20mm thick cement/sand(1:4) render to plinth	12	sm		
L	Prepare and apply three coats of black bituminous paint on rendered plinth	12	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>ROADWORKS</u></b>  <u>PRECAST CONCRETE</u>  <u>Normal; class 20/(20mm); vibrated</u>  Paving slab  600 x 600 x 50 mm thick on and including 50 mm sand bed including jointing and pointing in cement sand (1:3) mortar necessary excavations,levelling, compaction and disposal	50	sm		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUBSTRUCTURES</p> <p>Page No. 4</p> <p>Page No. 5</p> <p>Page No. 6</p> <p>Page No. 7</p>	
To EXISTING WAREHOUSE		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUPERSTRUCTURE CONCRETE WORK</u></b>				
	<b><u>CONCRETE WORK</u></b>				
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 20/(20mm); vibrated</u>				
	Lintels				
A	Generally	6	cm		
	Columns: vertical or sloping not exceeding 15 degrees from horizontal				
B	Generally	3	cm		
	Suspended floors, roofs or the like; horizontal				
C	150 mm thick	9	sm		
	Topping to deck				
D	100 mm thick	33	sm		
	<u>REINFORCEMENT</u>				
	<u>Bars; mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
E	12 mm Diameter	313	kg		
F	10 mm Diameter	140	kg		
G	8 mm Diameter	253	kg		
	<u>Fabric; B.S. 4483</u>				
	<u>Reference A142 ; mesh 200 x 200 mm (measured net - no allowance made for laps); including bends, tying wire and distance blocks</u>				
H	In any location	33	sm		
	<u>FORMWORK TO INSITU CONCRETE</u>				
	<u>Formwork generally</u>				
	Soffits; horizontal				
J	Suspended floor slabs	9	sm		
	Edges of suspended slab				
K	75 to 150 mm wide	36	lm		
	Sides; vertical or battering				
L	Columns or the like	22	sm		
	Sides and soffits				
M	Beams or the like; horizontal	72	sm		



# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>ASPHALT WORK</u></b>  <b><u>TILE ROOFING</u></b>  <u>5mm thick Imper-italia APP membrane rubber gutter water proofing finish or other equal and approved as supplied by Engineering supplies 2001 Limited</u>  Apply as per manufacturer's instructions  Over 300 mm wide to roof; laid to falls and cross-falls	13	sm		
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>  <b><u>BEDS OR BACKINGS</u></b>  <u>Screed; cement and sand (1:3)</u>  50 mm thick one coat beds; wood floated; to receive APP waterproofing (m/s); to concrete or blockwork base; generally to  Roofs; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; external				
B		13	sm		

PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUPERSTRUCTURE CONCRETE WORK</p> <p>Page No. 9</p> <p>Page No. 10</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUPERSTRUCTURE WALLING</u></b>  <b><u>WALLING</u></b>  <u>NATURAL STONework</u>  <u>Approved coral stone; squared; chisel dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u>  Walls				
A	150 mm thick; reinforced with hoop iron gauge 500 in every alternative course	29	sm		
B	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	119	sm		
	Eaves filling				
C	200 x 450 mm ; horizontal	23	lm		

PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<div>SUPERSTRUCTURE WALLING</div> <div>Page No. 12</div>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>STRUCTURAL STEEL WORK</u></b>  <b><u>STRUCTURAL STEELWORK</u></b>  <u>ROLLED PLATES, BARS, SECTIONS AND TUBES</u>  <u>WELDABLE; B.S. 449 PART 2</u>  <u>Framed; bolted and welded site connections including hoisting and priming after fabrication;</u>  Various locations				
A	150 x 50x 4mm thick RHS cut and welded together as directed	40	lm		
B	150 x 100x 4mm thick RHS cut and welded together as directed	50	lm		
C	150 x 150x 4mm thick SHS cut and welded together as directed	27	lm		
D	300 x 300 x 10mm thick plate eight times 12 diameter holed and fixed to concrete column with rawl bolts (m/s)	9	no		
E	0.6mm thick Safdeck corrugated sheeting fixed to RHS(m/s) as directed	33	sm		
F	12mm diameter x 300mm long approved bolts with one end threaded and bolted to concrete column with and including approved washers	72	no		
	<b><u>JOINERY FITTINGS</u></b>  <u>PURPOSE-MADE STAIRCASE</u>  <u>Mild steel weldable;BS.449 Part2</u>  Framed;bolted and welded site connections				
G	25 x 25 x 3mm thick cut and welded together as directed	68	lm		
H	50 mm diameter x 3mm thick cut and welded together as directed	10	lm		
J	150 mm diameter x 4mm thick cut and welded together as directed	6	lm		
K	50 x 50 x 3mm thick angle section cut and welded together as directed	53	lm		
L	300 x 300 x 8mm thick mild steel plate with 4No.12mm diameter holes to receive rawl bolts(m/s)	1	no		
M	12mm diameter x 200 mm long rawl bolts including drilling into concrete surfaces	4	no		
N	5mm thick chequered plate fixed to RHS frames as directed	1	sm		
P	5mm thick x 300mm wide average x 850mm long chequered plate tapered tread fixed to RHS frames as directed	18	no		
	<u>Painting and decoration</u>  Prepare and spray paint one undercoat; three coats full gloss oil paint; to Crown 'Solo' paints or other equal and approved; to general surfaces				
Q	General surfaces; not exceeding 100 mm girth; internally	68	lm		
R	General surfaces; 100 to 200 mm girth; internally	10	lm		

KM

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	General surfaces; 200 to 300 mm girth; internally	10	lm		
B	General surfaces; over 300 mm girth; internally	8	sm		
	<b><u>PAINTING AND DECORATING</u></b>				
	<i><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></i>				
	<u>Metal surfaces</u>				
	General surfaces				
C	Over 300 mm girth; internal	58	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>STRUCTURAL STEEL WORK</p> <p>Page No. 14</p> <p>Page No. 15</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>ROOFING</u></b>				
	<b><u>CARPENTRY</u></b>				
	<u>STRUCTURAL TIMBERS-Timber shall be as supplied by "Timsales Limited" or other equal and approved</u>				
	<u>Sawn Cypress; second grade; pressure impregnated</u>				
	Bearers or the like				
A	50 x 50 mm	59	lm		
B	50 x 50 mm; plugging	33	lm		
	<b><u>BOARDING</u></b>				
	<u>Wrot cypress; prime grade; pressure impregnated</u>				
	Fascia boards				
C	250 x 25 mm; with one labour	23	lm		
	Barge boards				
D	250 x 25 mm; with one labour	11	lm		
	<b><u>CARPENTRY SUNDRIES</u></b>				
	<u>Labour and material</u>				
	Vents				
E	Extra over t&g boarding for forming 300 x 300mm vents consisting of galvanised mosquito wire gauze fixed with and including 25 x 15mm cypress beading	4	No		
	<b><u>ROOF COVERING</u></b>				
	<b><u>CORRUGATED OR TROUGHED SHEET ROOFING</u></b>				
	<u>Galvanised steel; type IT5; 26 gauge; pre-painted</u>				
	Coverings; fixing to purlins (m/s) at 1800 mm general spacing with galvanised steel nails; 150 mm end laps and one and a half corrugation side laps				
F	Not exceeding 45 degrees from horizontal	129	sm		
	<u>420;Heavy Industrial Grade;Reinforced Aluminium Foil SUPER SISALATION(Effective thermal insulation,water and dust proofing material).</u>				
	Coverings; fixing to purlins (m/s) at 1800 mm general spacing with and including all necessary fixing accessories				
G	Not exceeding 45 degrees from horizontal	1,094	sm		
	<b><u>SHEET METAL FLASHING, GUTTER LININGS AND METAL TRIMS</u></b>				
	<u>Mild steel sheet; galvanised; 22 gauge</u>				
	Gutter coverings; fixing with galvanised screws				
H	150 x 150mm U-shaped gutter fixed to fascia board with and including approved brackets	23	lm		
J	Extra over gutter for 200 x 150mm down pipe outlet	2	no		
K	Extra over gutter for stopped ends	2	no		



# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	200 x 150mm down pipe fixed to wall with and including approved holder bats	8	lm		
B	Extra over down pipe for swan neck	2	no		
C	Extra over down pipe for horse shoe	2	no		
	Flashings; 300 mm laps; fixing with galvanised screws				
D	600 mm girth; including weltd edges and the like shaped edges, wedging into groove; and dressing over tilting fillets and the like	23	lm		
	<b><u>STRUCTURAL STEELWORK</u></b>				
	<i><u>ROLLED PLATES, BARS, SECTIONS AND TUBES</u></i>				
	<i><u>WELDABLE: B.S. 449 PART 2</u></i>				
	<u>Framed; bolted and welded site connections including priming after fabrication</u>				
	The following in roof trusses including welding, bolting, riveting and hoisting to roof				
E	75 x 75 x 5mm thick x 75mm long angle connection cleat times diameter holed	140	no		
F	75 x 50x 3mm thick struts & ties cut and welded together as directed	156	lm		
G	100 x 50x 2mm thick Z-purlins cut and welded together as directed	166	lm		
H	100 x 50x 3mm thick rafters cut and welded together as directed	120	lm		
J	100 x 50x 3mm thick ceiling joist cut and welded together as directed	80	lm		
K	50 x 50x 6mm thick angle bracing cut and welded together as directed	68	lm		
L	12mm diameter x 1500mm long sag rods with both ends threaded and bolted to purlins with and including approved nuts complete with washers	54	no		
M	10 mm diameter x 100 mm long bolts complete with and including approved nuts and washers	280	no		
	<b><u>METAL WORK</u></b>				
	<i><u>ROLLED PLATES, BARS, SECTIONS AND TUBES</u></i>				
	<u>Mild steel; K.S. 02-18 all welded including grinding all welds, edges and the like and priming after prefabrication</u>				
	Bearers				
N	25 x 25 x 3 mm thick	333	lm		
	<i><u>WIRE MESH</u></i>				
	<u>Mild steel; galvanised to B.S. 443:1969</u>				
	Mosquito gauze wire;				
P	Over 300 mm wide; fixing in approved means	60	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>  <b><u>PLAIN SHEET FINISHINGS</u></b>  <u>Laminated plastic sheet; to B.S. 3794; fix in accordance with manufacturer's recommendations</u>  6 mm thick; butt vee joints; set to pattern; including raking cutting and making holes;to timber base (m/s); generally to				
A	Ceilings; external	18	sm		
B	100 x 6mm thick moulded plastic cornice plugged to wall	67	lm		
	<b><u>PAINTING AND DECORATING</u></b>  <b><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></b>  <u>Timber surfaces</u>  Fascia board  250 mm high	33	lm		
	<b><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF APPROVED HALF HOUR FIRE RETARDANT PAINT ON</u></b>  <u>Metal surfaces</u>  General surfaces				
D	Not exceeding 100 mm girth; external	333	lm		
E	100 to 200 mm girth; external	156	lm		
F	200 to 300 mm girth; external	200	lm		
G	Over 300 mm girth; measured flat overall; external	36	sm		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>ROOFING</p> <p>Page No. 17</p> <p>Page No. 18</p> <p>Page No. 19</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><b><u>PARTITIONS AND SCREENS</u></b></p> <p><b><u>METAL WORK</u></b></p> <p><i><u>STANDARD UNITS</u></i></p> <p><u>Approved coloured aluminium framework in</u></p> <p>Aluminium partitions complete with fastenings and lugs</p>	35	sm		
	<p>100mm thick x 2440mm high glazed aluminium partition comprising 100 x 45mm heavy duty powder coated aluminium framework and beadings to BS10 B15 spaced at approximately 500mm centres; vertically divided into three parts comprising 1050 mm high bottom panel,1050 mm high middle panel and 340 mm high top panel all glazed with and including 6mm thick laminated clear sheet glass</p>				

**PROPOSED KEMSA WAREHOUSE IN MOMBASA**

Ref.	Description	Kshs
	<p>PARTITIONS AND SCREENS</p> <p>Page No. 21</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>DOORS</u></b></p> <p><b><u>JOINERY</u></b></p> <p><u>DOORS</u></p> <p><u>Wrot Mahogany; prime grade; selected</u></p> <p>Panelled doors; comprising 175 x 45 mm top rail, middle rail and stiles, 195 x 45 mm bottom rail; infilled with 45 mm thick solid panel edges bevelled and tongued and grooved into frame</p>				
A	Single door; 45 mm thick ; 830 x 2065 mm high	5	No		
	Frames				
B	150 x 50 mm moulded transomes; plugged	4	Im		
C	150 x 50 mm frame; with six labours; plugging	58	Im		
D	50 x 25 mm moulded architrave	58	Im		
E	25 x 25 mm moulded beading	58	Im		
F	20 x 15 mm moulded glazing beading	7	Im		
	<p><u>Flush doors; B.S. 459 Part 2</u></p> <p>Solid core; 6 mm Mahogany veneered panel rotored plywood facing both sides; hardwood lipping all edges</p>				
G	Single door; 45 mm thick ; 830 x 2065 mm high	6	No		
	<p><u>IRONMONGERY</u></p> <p><u>The following as per Union Catalogue or other equal and approved</u></p> <p>To softwood, hardwood or the like fixing with screws</p>				
H	100mm pressed brass butt hinges	38	No		
J	100mm pressed aluminium butt hinges	6	No		
K	Kicking plates; 1.6 mmm thick; size 900 x 150 mm; catalogue No. 5000	22	No		
L	Door stops No. 8400	11	No		
M	Delayed action non-reversible overhead door closer as "BRITON" cat. No. 1005	7	No		
N	Aluminium coat and hat hook with rubber buffers catalogue No 8710	6	No		
P	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	11	No		
Q	"Tesa" narrow stile mortice aluminium door lock model 7661/1	2	No		
R	Indicator bolt No. 8094	6	No		
S	150mm long brass flush bolt	5	No		
T	150 x 25 x 6mm thick mild steel door fixing cramp one end bent and twice screwed to frame and the other fanged and built into wall	66	No		
U	150 x 100mm "male" or "female" symbol plate	2	No		
V	Approved 200mm long polished stainless steel "D" pull handle with push/pull plates	6	No		

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## KM

EWH/24

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>PAINTING AND DECORATING</u></b></p> <p><u>PREPARE AND APPLY ONE COAT PINK OR WHITE HARDWOOD PRIMER; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></p> <p><u>Timber surfaces</u></p> <p>Frames or the like</p> <p>A            100 to 200 mm girth; internal</p> <p>58            lm</p> <p><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></p> <p><u>Metal surfaces</u></p> <p>General metal surfaces</p> <p>B            Over 300 mm girth; external</p> <p>56            sm</p> <p>C            200 to 300 mm girth; external</p> <p>57            lm</p> <p><u>PREPARE AND APPLY ONE COAT APPROVED STAIN: THREE COATS 2-PACK MATT POLYURETHANE VARNISH; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></p> <p><u>Timber surfaces</u></p> <p>Frames or the like</p> <p>D            200 to 300 mm girth; internal</p> <p>58            lm</p> <p>Doors</p> <p>E            Over 300 mm girth; internal</p> <p>44            sm</p>				



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	DOORS Page No. 23 Page No. 24 Page No. 25	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>WINDOWS</u></b>				
	<b><u>CONCRETE WORK</u></b>				
	<b><u>PRECAST CONCRETE</u></b>				
	Normal; class 20/(20 mm); vibrated; part surface fair finish				
A	Sills				
	200 x 50 mm ; once sunk weathered; once throated; reinforced as necessary for handling; surface finish 300 mm girth; bedding, jointing and pointing in cement mortar (1:4)	16	lm		
	<b><u>JOINERY</u></b>				
	<b><u>WINDOWS</u></b>				
B	Wrot Mahogany; prime grade				
	Window-boards; rounded edges				
	200 x 25 mm; with bullnosed edge; plugging	16	lm		
	Beads				
C	30 x 30 mm; moulded; plugging	16	lm		
D	<b><u>METAL WORK</u></b>				
	<b><u>STANDARD UNITS</u></b>				
	Supply and fix the following approved heavy duty purpose made powder powder coated aluminium casement windows in standard cross sections complete with lugs, sliding gear or hinges, window stays, handles, 90mm wide galvanised vents at top and neoprene and other approved glazing compounds. Glazing ((M/S)				
	Steel; lugs to two jambs, cutting and pinning to concrete or blockwork				
D	Overall size 2000 x 1500 mm high	4	No		
E	Overall size 3500 x 900 mm high	2	No		
F	<b><u>GLAZING</u></b>				
	<b><u>GLASS IN OPENINGS</u></b>				
	Sheet; clear				
	6 mm thick to aluminium frames with snap on rubber glazing beads				
F	0.5 to 1.0 square metres	12	sm		
G	Sheet; obscured				
	6 mm thick to aluminium frames with snap on rubber glazing beads				
	0.5 to 1.0 square metres	6	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>PAINTING AND DECORATING</u></b>	16	lm		
	<u>THREE COATS TWO-PACK POLYURETHANE VARNISH; TO CROWN PAINTS OR EQUAL AND APPROVED</u>				
	Timber surfaces				
	Frames or the like				
	100 to 200 mm girth; internal				
</					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>WINDOWS</p> <p>Page No. 27</p> <p>Page No. 28</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>JOINERY FITTINGS</u></b>				
	<b><u>JOINERY FITTINGS</u></b>				
	<i><u>THE FOLLOWING IN KITCHEN WORKTOP COMPLETE WITH UNDERBENCH UNITS</u></i>				
	<u>Concrete work</u>				
	Plain concrete; 1:3:6 - 20 mm aggregate				
A	100 mm thick; beds or plinths	5	sm		
	Sawn formwork				
B	Edges of plinths; 75 to 150 mm high	15	lm		
C	Form rebate size 50x25mm to edge of plinth	15	lm		
	<u>In situ finishes</u>				
	Screed; cement and sand (1:4); in 2 No. coats; to existing concrete base; steel trowelled hard and smooth to finish				
D	12 mm thick; generally to plinth	6	sm		
	<u>Tiled or block finishes</u>				
	Approved polished granite slab:approved colour				
E	100 x 20 mm thick; fascia	15	lm		
F	100 x 20 mm thick; skirting	15	lm		
G	20mm thick fixed with approved adhesive on prepared screed (m/s)	4	sm		
	<u>General joinery</u>				
	High quality medium density fibre (MDF) boarding; As PG Bison or other equal and approved; laminated both sides; with and including plastic lipping all round				
H	20 mm thick; shelves and divisions; over 300 mm wide	27	sm		
J	20 mm thick; base; to receive granite (m/s); over 300 mm wide	4	sm		
K	50 x 25 mm thick; bearers to wall; plugged	24	lm		
L	100 x 25 mm thick; bearers to wall; plugged	15	lm		
M	20 mm thick; door size 400 x 800 mm high plastic lipped all round including grooves and beadings to approval	40	No		
N	400 x 600 x 150 mm deep drawer; 150 x 20 mm Laminated MDF front, birch x 20 mm blockboard sides and back; 6 mm plywood bottom; all cramped, housed and glued together; with and including pair of approved drawer runners	4	No		
	<u>Ironmongery</u>				
	The following ironmongery to timber; to Project Manager's approval; complete with matching screws and keys; as per 'UNION' manufacturers (reference to a particular catalogue are given only as a guide to type and quality, other equal and approved alternatives may be used); to softwoods, hardwoods or the like				
P	Brass Malpa hinges	40	pr		
Q	Aluminium D pull handles	44	no		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>Painting and decoration</u>				
	Prepare and spray paint one undercoat; three coats full gloss oil paint; to Crown 'Solo' paints or other equal and approved; to general surfaces				
A	General surfaces; not exceeding 100 mm girth; internally	24	lm		
	<u>THE FOLLOWING IN HIGH LEVEL KITCHEN CABINET</u>				
	<u>General joinery</u>				
	High quality medium density fibre (MDF) boarding; As PG Bison or other equal and approved; laminated both sides; with and including plastic lipping all round				
B	20 mm thick; shelves and divisions; over 300 mm wide	5	sm		
C	100 x 25 mm thick; bearers to wall; plugged	15	lm		
D	20 mm thick; door size 400 x 600 mm high plastic lipped all round including grooves and beadings to approval	10	No		
	<u>Ironmongery</u>				
	The following ironmongery to timber; to Project Manager's approval; complete with matching screws and keys; as per 'UNION' manufacturers (reference to a particular catalogue are given only as a guide to type and quality, other equal and approved alternatives may be used); to softwoods, hardwoods or the like				
E	Brass Malpa hinges	10	pr		
F	Aluminium D pull handles	10	no		
	<u>THE FOLLOWING IN VANITY TOP</u>				
	<u>Concrete work</u>				
	Plain concrete; 1:3:6 - 20 mm aggregate				
G	100 mm thick; suspended worktop	3	sm		
	Sawn formwork				
H	Edges of suspended worktop; 75 to 150 mm high	7	lm		
J	Soffites of suspended worktop	3	sm		
	<u>Insitu finishes</u>				
	Screed; cement and sand (1:4); in 2 No. coats; to existing concrete base; steel trowelled hard and smooth to finish				
K	20 mm thick; generally to soffites of worktop	4	sm		
	<u>Tiled or block finishes</u>				
	Approved polished green granite slab				
L	20 mm thick; to vanity top	3	sm		
M	100 x 20 mm thick; fascia	7	lm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>Sundry</u>				
	To Architect approval				
A	Extra over labour for forming bull nosed edges to 20mm thick granite	7	lm		
B	Form or leave 500 x 500mm hole in 100mm thick concrete slab	4	no		
C	Build 20mm thick granite slab around wash hand basin	4	no		
	<u>THE FOLLOWING IN LOCKERS</u>				
	<u>Concrete work</u>				
	Plain concrete; 1:3:6 - 20 mm aggregate				
D	100 mm thick; beds or plinths	2	sm		
	Sawn formwork				
E	Edges of plinths; 75 to 150 mm high	4	lm		
	<u>Insitu finishes</u>				
	Screed; cement and sand (1:4); in 2 No. coats; to existing concrete base; steel trowelled hard and smooth to finish				
F	12 mm thick; generally to plinth	3	sm		
	<u>General joinery</u>				
	Wrot cypress; prime grade; pressure impregnated				
G	50 x 25 mm bearers	35	lm		
	High quality medium density fibre (MDF) boarding; As PG Bison or other equal and approved; laminated both sides; with and including plastic lipping all round				
H	20 mm thick; top; over 300 mm wide	2	sm		
J	20 mm thick; bottom; over 300 mm wide	2	sm		
K	20 mm thick; shelves; over 300 mm wide	2	sm		
L	20 mm thick; divisions; over 300 mm wide	10	sm		
M	20 mm thick; door size 400 x 1000 mm high hardwood lipped all round including grooves and beadings to approval	20	No		
	<u>Ironmongery</u>				
	The following ironmongery to timber; to Project Manager's approval; complete with matching screws and keys; as per 'UNION' manufacturers (reference to a particular catalogue are given only as a guide to type and quality, other equal and approved alternatives may be used); to softwoods, hardwoods or the like				
N	Brass Malpa hinges	20	pr		
P	Aluminium D pull handles	20	no		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Painting and decoration</u> Prepare and spray paint one undercoat; three coats full gloss oil paint; to Crown 'Solo' paints or other equal and approved; to general surfaces  General surfaces; not exceeding 100 mm girth; internally	35	lm		



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>JOINERY FITTINGS</p> <p>Page No. 30</p> <p>Page No. 31</p> <p>Page No. 32</p> <p>Page No. 33</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>FINISHES</u></b>				
	<b><u>JOINERY</u></b>				
	<u>GENERAL JOINERY</u>				
	Gypsum plasterboard				
	Cornices				
A	150 x 25 mm; decorative feature moulded; plugging	140	lm		
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<u>TILE, SLAB OR BLOCK FINISHINGS</u>				
	<u>Approved imported ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement ; grouting joints with matching cement</u>				
	600 x 600 x 10 mm; butt joints straight both ways; generally to				
B	Floors; level; internal	80	sm		
C	100 mm high Polished ceramic tiles skirting to match; internal	42	lm		
	<u>Ceramic tiles B.S. 1281; imported; approved colour; glazed; to regular pattern; bedding and jointing in cement grouting joints with matching coloured cement</u>				
	600 x 300 x 6 mm; butt joints straight both ways; to cement and sand base (m/s); generally to				
D	Walls; internal	129	sm		
E	Extra over tile for rounded edges	34	lm		
	<u>Approved Epoxy finish applied to manufacturer's specification</u>				
	6 mm thick approved Epoxy Floor finish as supplied by Sika or other equal and approved applied by an approved specialist according to manufactuters printed instructions.				
F	Floors; level: internal	538	sm		
G	200 x 6 mm skirting; internal	96	lm		
	<u>PLAIN SHEET FINISHINGS</u>				
	<u>Gypsum board; fixing to and including aluminium zed sections suspension channels to architect details;allowing for skimming all joints with "Altech" or other equal and approved jointing compound</u>				
	12.5 mm thick;including raking cutting and making holes; generally to				
H	Ceilings; internal	111	sm		
	<u>BEDS OR BACKINGS</u>				
	<u>Render; cement and sand (1:3)</u>				
	15mm thick one coat backings; wood floated; to receive tiles(m/s); to concrete or blockwork base; generally to				
J	Walls; internal	129	sm		
	20mm thick one coat backings; steel trowelled to a smooth surface to receive paint (m/s); to concrete or blockwork base; generally to				
K	Walls; internal	110	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	Walls; external  <u>Screed; cement and sand (1:3)</u>  30 mm thick one coat beds; wood floated; to receive epoxy floor (m/s); to concrete or blockwork base; generally to	92	sm		
B	Floors; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; internal  30 mm thick one coat beds; wood floated; to receive ceramic floor tiles (m/s); to concrete or blockwork base; generally to	538	sm		
C	Floors; level; internal  <b><u>PAINTING AND DECORATING</u></b>  <i><u>APPLY UNDER COAT, SKIM GENERAL SURFACES, PREPARE AND APPLY TWO FINISHING COATS OF SILK VINYL PAINT ON</u></i>  <u>Steel trowelled plastered surfaces</u>  Walls	80	sm		
D	Over 300 mm girth; internal  <i><u>APPLY UNDERCOAT, SKIM GENERAL SURFACE, PREPARE AND APPLY TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u></i>  <u>Gypsum plasterboard surfaces</u>  Ceilings	110	sm		
E	Over 300 mm girth; internal	111	sm		
F	100 to 200 mm girth; internal  <i><u>PREPARE AND APPLY TWO FINISHING COATS OF SILK VINYL PAINT ON</u></i>  <u>Existing previously painted surfaces</u>  Walls	140	lm		
G	Over 300 mm girth; internal  <i><u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u></i>  <u>Steel trowelled plastered surfaces</u>  Walls	1,009	sm		
H	Over 300 mm girth; external	92	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>FINISHES</p> <p>Page No. 35</p> <p>Page No. 36</p>	
To EXISTING WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u></b> <b><u>MECHANICAL INSTALLATIONS</u></b> <u>BUILDER'S WORK IN CONNECTION</u> <u>Labour and material</u> Excavate trenches to receive 100mm diameter pipes not exceeding 1.50 mm deep average depth A      600 mm deep; part return fill and ram and cart away surplus excavated material Plain concrete class 'Q' in 150mm thick bed and surround type C to large pipe B      Well compacted under and alongside the barrel of the pipe Cutting chases in blockwork; running with cement mortar (1:4) C      For small pipe Holes for pipes or the like in 100 mm thick blockwork or stonework D      For 50 pipes; including making good all works disturbed Holes for pipes or the like in 200 mm thick blockwork or stonework E      For 50 pipes; including making good all works disturbed F      For 100 pipes; including making good all works disturbed G      For 150 pipes; including making good all works disturbed Holes for pipes or the like in 150 mm thick reinforced concrete slab H      For 50 pipes; including making good all works disturbed J      For 100 pipes; including making good all works disturbed <b><u>ELECTRICAL INSTALLATIONS</u></b> <u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u> <u>Cut away for and make good after electrician or any other specialist installing a concealed conduit system to the following points; including cutting or leaving all holes, notches, mortices, sinkings in both structure and its covering; making good all disturbed works</u> <u>Cutting away in new structures for concealed conduit and point and making good works after the electrician for</u> K      25 x 25mm deep chase in solid concrete block or stone walling for conduits L      50 x 50mm deep chase in solid concrete block or stone walling for conduits M      75 x75 x 50mm deep recess in solid concrete block or stone walling for switches,sockets and the like N      150 x 150 x 100mm deep recess in solid concrete block or stone walling for telephone cables P      300 x 200 x 100mm deep recess in solid concrete block or stone walling for submains cable				
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</p> <p>Page No. 38</p> <p>Page No. 39</p>	
To EXISTING WAREHOUSE		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	EXISTING WAREHOUSE DEMOLITIONS AND ALTERATIONS SUBSTRUCTURES SUPERSTRUCTURE CONCRETE WORK SUPERSTRUCTURE WALLING STRUCTURAL STEEL WORK ROOFING PARTITIONS AND SCREENS DOORS WINDOWS JOINERY FITTINGS FINISHES BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK	
	EXISTING WAREHOUSE	



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

**B I L L   N O .   3**  
**E X T E R N A L   W O R K S**  
**( P H A S E 1 )**

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>EXTERNAL WORKS</u></b>  <b><u>DEMOLITIONS AND ALTERATIONS</u></b>  <b><u>DEMOLITIONS AND ALTERATIONS(ALL PROVISIONAL)</u></b>  <u>DEMOLITIONS(ALL PROVISIONAL)</u>  <u>Various locations</u>  Demolish parts of structures and cart away debris  Allow for all necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	DEMOLITIONS AND ALTERATIONS Page No. 1	
	To EXTERNAL WORKS	

**PROPOSED KEMSA WAREHOUSE IN MOMBASA**

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>ROADS AND CARPARKS</u></b>				
	<b><u>EXCAVATION AND EARTHWORK</u></b>				
	<u>EXCAVATION</u>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	2,070	cm		
	<u>Disposal</u>				
	Surplus excavated material				
B	Removing from site	2,070	cm		
	<u>DISPOSAL OF WATER</u>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
C	All water including spring or running water		Item		
	<u>FILLING</u>				
	<u>Hardcore</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
D	300 mm thick; handpacked in layers not exceeding 150mm thick	1,725	sm		
E	Over 300 mm thick; processed and compacted sub-grade	1,661	cm		
	<u>Stone or quarry dust</u>				
	Blinding surfaces of fill				
F	50 mm thick	1,725	sm		
	<b><u>ROADWORKS</u></b>				
	<u>ROAD FINISHINGS</u>				
	<u>Precast concrete paving blocks; manufactured by Messrs Cabroworks Ltd. or other equal and approved; to herring bone pattern; laid to Manufacturer's printed specifications</u>				
	80 mm thick; heavy duty (45 N/square millimetre); to prepared subbase (m/s) on and including 50mm thick sand bed				
G	Roads; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal	1,560	sm		
	<u>Precast concrete; Normal; class 20/(20 mm); vibrated</u>				
	Kerbs; splayed; B.S. 340; bedding, jointing and pointing in cement:sand mortar (1:3); including all necessary excavation, disposal and formwork				
H	250 x 125 mm laid on and including 100 mm thick plain insitu concrete class 20 haunched base and back 830 mm wide	171	lm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	Channel; B.S. 340; bedding, jointing and pointing in cement:sand mortar (1:3); including all necessary excavation, disposal and formwork  125 x 100 mm laid on and including 100 mm thick plain insitu concrete class 20 haunched base and back 830 mm wide	20	lm		
B	Kerbs and channel; splayed; B.S. 340; bedding, jointing and pointing in cement:sand mortar (1:3); including all necessary excavation, disposal and formwork  250 x 125 mm with 125 x 100 mm channel including 20 mm thick plain insitu concrete class 830 haunching base and back mm wide  <u>Precast concrete paving slabs</u>  600 x 600 x 50mm precast concrete paving slabs jointed and pointed in cement/sand (1:3) mortar on and including 50mm thick sand bed	172	lm		
C	Pavements; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal	165	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	ROADS AND CARPARKS  Page No. 3  Page No. 4	
To EXTERNAL WORKS		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>STORM WATER DRAINAGE</u></b>  <b><u>DRAINAGE</u></b>  <u>INSITU CONCRETE; REINFORCED</u>  <u>Normal; class 25/(20 mm); vibrated</u>  Coverings  A      800mm wide x 600mm long x 75mm thick precast concrete slotted channel drain cover  Rectangular open channel drain comprising 50mm thick class 15 concrete blinding, 200mm thick class 25/20 bed and side walls including reinforcing with Y8 at 150 mm centres both ways on both internal and external face ; the bed finished with 12mm thick cement/sand (1:3) screed and the walls finished with 12mm thick cement/sand (1:3) render internally and including all necessary excavations, disposal , formwork and forming 50 x 50 mm wide rebate at top  B      Overall size 600 mm wide x 600 mm deep (internal dimensions)  <u>PIPEWORK</u>  <u>Precast concrete pipes; B.S. 556; (1:2:4) spun ogee, spigot and socket joints</u>  Pipes jointed and bedded in cement:sand (1:3) mortar laid in concrete bed and surround (m/s)  C      300 mm diameter  D      900 mm diameter  <u>Unplasticised P.V.C. drain pipes to B.S. 5481; Class 'C'</u>  Pipes; cement joints in the running length  E      200 mm diameter  <u>PRECAST CONCRETE WATER CHANNELS AND DRAINS</u>  <u>Normal; class 20/(20 mm); vibrated</u>  Half round invert block drain; size 450 x 250 mm high; jointed and bedded in cement/sand (1:3) mortar and laid on and including 75 mm thick compacted murram base and sides including all excavations  F      300 mm internal diameter  Precast concrete side slabs; jointed and bedded in cement/sand (1:3) mortar and laid on and including 100 mm thick murram base including all necessary excavations, formwork and disposal  G      600 x 225 x 75 mm thick side slabs	69	lm		
		69	lm		
		45	lm		
		79	lm		
		30	lm		
		128	lm		
		231	sm		



# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>THE FOLLOWING IN MANHOLES</u></p> <p>Consisting of 150 mm thick class 20/(20 mm) bed, 200 mm thick solid concrete block walling in cement/sand (1:3) mortar, 150 mm thick suspended cover slab reinforced with 10 mm diameter mild steel bars at 200 mm centres both ways, concrete class `Q' benching and channelling for 300 mm diameter pipe, 20 mm cement/sand (1:3) rendering to sides and bottom, including all necessary excavation, formwork, approved filling and cart away</p> <p>Complete with 650 x 650 mm mild steel cover comprising 50 x 50 x 4mm angle frame plugged to wall and cover consisting of 50 x 10mm mild steel flats at 50mm centres</p> <p>600 x 600 mm internal dimensions; 1000 mm average depth to invert</p>	9	No		
B	<p><u>THE FOLLOWING IN HEADWALLS AND CULVERTS</u></p> <p><u>Excavating</u></p> <p>Foundation trench ; starting from ground level</p> <p>Not exceeding 1.50 m deep</p>	201	cm		
C	<p><u>Disposal</u></p> <p>Surplus excavated material</p> <p>Removing from site</p>	184	cm		
D	<p><u>Filling</u></p> <p>Approved excavated material</p> <p>Filling depositing and compacting in layers maximum 150 mm thick; over 300 mm thick</p>	17	cm		
E	<p><u>Disposal of water</u></p> <p>Keeping excavations free from</p> <p>General water</p>		Item		
F	<p><u>Insitu concrete plain; normal; class 20/(20 mm)</u></p> <p>Beds and surrounds</p> <p>Generally</p>	96	cm		
G	<p><u>Insitu concrete plain; normal; class 15</u></p> <p>Blinding</p> <p>50 mm thick</p>	20	sm		
H	<p><u>Insitu concrete reinforced; normal; class 20/(20 mm) ; vibrated</u></p> <p>Beds</p> <p>150 mm thick</p>	20	sm		
J	<p>Walls</p> <p>150 mm thick</p>	25	sm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Formwork to insitu concrete; formwork generally</u>				
	Sides of sorround				
	Walls or the like	309	sm		
B	<u>Reinforcement; bars; high yield steel; hot rolled; B.S. 4449</u>				
	In any location				
	10 mm diameter	675	kg		
C	<u>Pipe; precast concrete (1:2:4); B.S. 556: spun ogee, spigot and socket joints; surface fair finish</u>				
	Pipes; bedded and jointed in cement and sand (1:3) mortar; laid in concrete bed and surround (m/s)				
	600 mm diameter	36	lm		
D	<u>Labour and material</u>				
	Building in ends of drains				
	600 mm internal diameter in 150 mm thick reinforced concrete walling	4	No		
E	<u>THE FOLLOWING IN EARTH OPEN DRAINS</u>				
	<u>Excavating</u>				
	To form drain; starting from ground level				
F	Not exceeding 1.50 m deep	197	cm		
	Bottoms of excavations				
	Level and compact bottom and sides of drain to 95% maximum dry density	329	sm		
G	Supply and plant 200mm long approved hydro grass in rows at 150mm centres both ways including watering and weeding until well established	329	sm		
	<u>Disposal</u>				
	Surplus excavated material				
H	Removing from site	197	cm		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>STORM WATER DRAINAGE</p> <p>Page No. 6</p> <p>Page No. 7</p> <p>Page No. 8</p>	
To EXTERNAL WORKS		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>FOUL WATER DRAINAGE</u></b>				
	<b><u>DRAINAGE</u></b>				
	<u>EXCAVATING TRENCHES TO RECEIVE PIPES</u>				
	<u>Not exceeding 150 mm internal diameter</u>				
	Starting from ground level; not exceeding 1.50 m depth				
A	600 mm average depth part return fill and ram and cart away surplus excavated material	25	Im		
B	1000 mm average depth part return fill and ram and cart away surplus excavated material	50	Im		
	<u>INSITU CONCRETE; PLAIN</u>				
	<u>Normal; class 20/(20 mm); vibrated</u>				
C	Beds and surround to pipe	17	cm		
	<u>PIPEWORK</u>				
	<u>"1800 Series" Key Terrain uPVC pipes and fittings</u>				
	Pipes; solvent weld straight couplings ref. 1810 in the running length				
D	150 mm diameter	75	Im		
	<u>THE FOLLOWING IN MANHOLES</u>				
	<u>Consisting of 150 mm thick class 20/(20 mm) bed, 150 mm thick solid concrete block walling in cement/sand (1:3) mortar, 150 mm thick suspended cover slab reinforced with 8 mm diameter mild steel bars at 80 mm centres both ways, concrete class 'Q' benching and channelling for 150 mm diameter pipe, 12 mm cement/sand (1:3) rendering to sides and bottom, including all necessary excavation, formwork, approved filling and cart away</u>				
	Complete with 600 x 400 mm medium duty cast iron cover and frame to B.S. 497				
E	650 x 450 mm internal dimensions; 600 mm average depth to invert	3	No		
F	650 x 450 mm internal dimensions; 1000 mm average depth to invert	3	No		
	<u>GULLEY POT</u>				
	<u>Precast concrete trapped gulley pot to B.S. 556 encased in and including 100 mm thick concrete (1:3:6) to both end and sides complete with 150 mm diameter outlet, standard 420 x 355 mm mild steel grating and frame filled with concrete class 20/(20 mm) removable close fitting stopper and chain; 150 mm thick concrete class 20/(20 mm) cover slab including all necessary formwork and excavations</u>				
	Complete with cover slab; reinforced with 8 mm diameter mild steel bars at 80 mm centres both ways				
G	300 x 300 x 450 mm deep (internal dimensions)	3	No		
	<u>SUNDRIES</u>				
	<u>Labour and material</u>				
	Build in ends of pipes to manholes				
H	Build 150mm diameter pipe through 200mm thick masonry wall	12	No		

PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p>Connecting the new works to existing foul drainage; altering and adapting existing manholes, pipework, etc. as necessary; making good all disturbed work to the satisfaction of the Engineer and Local Authorities; paying all necessary fees and charges</p> <p>For all necessary connections</p>		Item		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	FOUL WATER DRAINAGE  Page No. 10  Page No. 11	
To EXTERNAL WORKS		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>LANDSCAPING</u></b></p> <p><b><u>LANDSCAPING</u></b></p> <p><u>GRASS</u></p> <p><u>Supply, store in approved condition, plant at 100mm centers (both ways); maintain throughout the defects liability period</u></p> <p>Digging soil to a depth of 300mm; removing all roots and weeds; mixing cow manure with and including imported red soil 150mm thick layer at a ratio of 1:2; raking to a fine tilth; fertilising and all necessary preparation including rolling once established</p>				
A	Kikuyu grass	2,361	sm		
	<p><u>TREES</u></p> <p><u>Supply, store in approved condition, plant; maintain throughout the defects liability period</u></p> <p>Forming pit size 1200 X 1200 x 1500mm deep; removing all excavated material and backfilling with cow manure and selected soil at a ratio of 1:2; compacting soil in 300mm layers; providing 2 No. 50mm diameter supporting poles with 2 No. rubber tying bands</p>				
B	Nandi flame	30	no		
C	Italian cypress	30	no		
D	Palm tree	30	no		
	<p><u>TOP SOIL</u></p> <p><u>Place topsoil from stockpile</u></p> <p>Top soil to be spread average 300mm thick over areas specified by the Architect</p>				
E	Red soil	2,361	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>LANDSCAPING</p> <p>Page No. 13</p>	
To EXTERNAL WORKS		



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

B I L L   N O .   4

P R I M E   C O S T   A N D   P R O V I S I O N A L   S U M S  
( P H A S E 1 )

	Shs	Cts
<b><u>BILL NO. 4</u></b>		
<b><u>PRIME COST AND PROVISIONAL SUMS</u></b>		
A. Provide the prime cost sum of two million shillings for Electrical works installation	2,000,000.00	
B. Add for profit ..... %		
C. Add for attendance ..... (Sum)		
D. Provide the prime cost sum of one million shillings for plumbing and drainage installation	1,000,000.00	
E. Add for profit ..... %		
F. Add for attendance ..... (Sum)		
G. Provide the prime cost sum of ten million shillings for air conditioning installation	10,000,000.00	
H. Add for profit ..... %		
I. Add for attendance ..... (Sum)		
J. Provide the prime cost sum of three million shillings for shelving	3,000,000.00	
K. Add for profit ..... %		
L. Add for attendance ..... (Sum)		
M. Provide the provisional sum of three million shillings for contingencies	3,000,000.00	
<b><u>BILL NO. 4</u></b>		
<b><u>PRIME COST AND</u></b>		
<b><u>PROVISIONAL SUMS</u></b>		
<b><u>TOTAL CARRIED TO</u></b>		
<b><u>TO GRAND SUMMARY</u></b>		

**S U M M A R Y  
( P H A S E 1 )**

<b><u>PROPOSED KEMSA WARE HOUSE IN MOMBASA COUNTY</u></b>			Shs
<b><u>GRAND SUMMARY</u></b>			
<b><u>PHASE 1</u></b>			
<b><u>NO.</u></b>	<b><u>ITEM</u></b>	<b><u>PAGE NO.</u></b>	
1	- PARTICULAR PRELIMINARIES	PP/8	
2	- GENERAL PRELIMINARIES	GP/18	
3	BILL NO.1 - GATE HOUSES	GH/33	
4	BILL NO.2 - EXISTING WAREHOUSE	EW/42	
5	BILL NO.3 - EXTERNAL WORKS	EW/16	
6	BILL NO.4 - PRIME COST AND PROVISIONAL SUMS	PC/1	
<b>TOTAL PHASE 1 CARRIED TO GRAND SUMMARY</b>			

PARTICULAR PRELIMINARIES  
(PHASE 2)

ITEM	DESCRIPTION	AMOUNT
	<p><b><u>PARTICULAR PRELIMINARIES</u></b></p> <p>The Contractor is advised to carefully read and understand all insertions to particular preliminaries</p>	
A	<p><b><u>DESCRIPTION OF THE WORKS AND SCOPE OF CONTRACT</u></b></p> <p>These are new works generally consisting of excavations, concretework, walling, roofing doors, mild steel casement windows, finishes fittings, civil works and associated mechanical and electrical installation works</p>	
B	<p><b><u>MEASUREMENTS</u></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 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p>	
C	<p><b><u>LOCATION OF SITE</u></b></p> <p>The site of the proposed works is in Mombasa. The Contractor is advised to visit the site to familiarize himself with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained.</p>	
D	<p><b><u>CLEARING AWAY</u></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 works 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>	
E	<p><b><u>OFFICE FOR THE ARCHITECT</u></b></p> <p>The site office mentioned hereafter shall be 5 x 3 metres on plan and constructed on 100mm concrete slab with weatherboarding wall and GCI roofing, with softboard ceiling and finishes to wall and cement screed floor. Copies of drawings and Bills of Quantities shall be kept in this office at all times.</p>	
	<b>CARRIED TO COLLECTION</b>	



ITEM	DESCRIPTION	AMOUNT
A	<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 claim or intent to claim notice to the PROJECT MANAGER in accordance with Clause 19 and 24 of the conditions of contract. No claims shall be entertained if the contractor has not complied with the said conditions.</p>	
B	<p><b>PAYMENTS</b></p> <p>The tenderer's attention is drawn to the fact that the COUNTY GOVERNMENT pays for work done and materials delivered to site: all in accordance with Clause 23 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.</p>	
C	<p><b>LABOUR CAMPS</b></p> <p>The Contractor will not be allowed to house labour on site and shall take full responsibility for transporting labour daily to and from the site as required and the cost of this shall be included in his tender.</p>	
D	<p><b>FIRM PRICE CONTRACT</b></p> <p>This is a firm price contract and, therefore the tenderer shall not be reimbursed for any increases in the costs of materials and/or labour in the execution of the works except as provided under the fluctuations clause.</p>	
E	<p><b>MATERIALS FROM DEMOLITIONS</b></p> <p>Any materials from demolitions and not re-used shall become the property of the Client/User. The Contractor shall allow in his rates for the cost of transporting, storing and securing the materials on site as directed by the PROJECT MANAGER.</p>	
F	<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, , taxes, all to comply with the said Conditions of Contract.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<b>SECURITY</b> The Contractor shall provide 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.	
<b>B</b>	<b>URGENCY OF THE WORKS</b> The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.  The Contractor should allow for any costs he may incur by having to complete the works within the stipulated contract period.	
<b>C</b>	<b>PAYMENT FOR MATERIALS ON SITE</b> 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.	
<b>D</b>	<b>SIGN BOARD</b> Allow for providing, erecting and maintaining through out the course of the contract and afterwards clearing away a sign board in accordance with the Ministry of Roads and Public Works standard detail to be obtained from the PM.	
<b>E</b>	<b>PRICING OF PRELIMINARIES</b> The tenderer is required to price items covered in these preliminaries as items for which no price is entered will not be paid for but shall be deemed covered by other rates and prices in these Bills of Quantities.	
<b>F</b>	<b>ADJOINING PROPERTY</b> Take all necessary precautions to prevent damage to adjoining property. Any damage occurring must be made good to the satisfaction of the PM and/or owner(s) of the adjoining property at the contractor’s expense.	
<b>G</b>	<b>USE OF SITE</b>  Do not use the site for any other purpose other than carrying out the works. Do not permit or display any advertisement without the consent of the PM	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<p><b>A</b></p> <p><b>QUALITY OF THE WORKS</b></p> <p>The works should be of high quality and the contractor will be required to make samples of the work to be executed for approval by the PM before he commences the carrying out of the works. The contractor should allow for sample works in his rates accordingly. Incase a sample does not meet the standards set by the PM, the contractor shall be expected to make another sample at his cost until it is approved by the PM.</p> <p><b>B</b></p> <p><b>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 foreign bank which has been determined by the bidder to be acceptable to the County 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 County Government. Letters of credit, bank Guarantees issued as surety for the bid shall be valid for a period of One Hundred and Fifty <b>(150)</b> days from the date of Tender Opening.</p> <p><b>C</b></p> <p><b>TRAINING LEVY</b></p> <p>Legal notice No. 237 of October, 1971 requires payment by the contractor of a training levy of a quarter percent of the value of the contract where the contract value exceeds KShs. 50,000/=. The contractor will be required to furnish the Project Manager with a receipt showing that he has paid the required Training Levy to the Director of Industrial Training. In case the contractor fails to furnish the said receipt</p> <p><b>D</b></p> <p><b>WATER FOR THE WORKS</b></p> <p>The contractor is to make his arrangements for the provision of water for the works in the course of execution of this contract.</p> <p><b>E</b></p> <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 shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>		
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</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 site where the Client is going on with other normal activities. The Contractor is instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of normal activities being carried out by the Client. The Contractor shall allow in his rates any expense he deems necessary by taking such care within the site.</p>	
<b>B</b>	<p><b>FORM OF CONTRACT</b></p> <p>The form of contract will be the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition)</p>	
<b>C</b>	<p><b>PERFORMANCE BOND</b></p> <p>A bond of 5% of the contract sum will be required in accordance with clause 6.5, award of contract of the Conditions of Contract. No payment will be made without the required performance security.</p>	
<b>D</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 in the tender box as specified in the advertisement and or letter of invitation to tender.</p> <p>Tenders will be opened at the time specified in the advertisement and/or letter of invitation to tender. Tenders arriving later than the specified time will not be considered.</p>	
<b>E</b>	<p><b>CORRECTION OF ERRORS IN TENDER</b></p> <p>Arithmetical errors will be rectified on the following basis.</p> <p>If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and the quantity, the unit price shall prevail and the total price shall be corrected.</p> <p>If there is a discrepancy between words and figures, the amount in words will prevail.</p>	
<b>F</b>	<p><b>TELEPHONE</b></p> <p>Allow for providing and maintaining a telephone upon the site during the contract period and for paying all the charges</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<b>VIEWING OF DRAWINGS</b> Any tenderer interested in viewing the drawings related to this project before submission of the tenders may do so by contacting the KEMSA PROCUREMENT DEPARTMENT	
<b>B</b>	<b>STANDARD FORMS</b> Any tender with standard forms not filled as appropriate will be treated as non-responsive.	
<b>C</b>	<b>INTERRUPTION OF WORK</b> The Contractor is to carry out the works on site where the user is carrying on with his normal activities. Periodic stoppages of work will be experienced and therefore the Contractor should assess the delays and losses likely to be incurred and price accordingly. No claim in respect of extension of time and losses will be entertained due to any failure by the Contractor.	
<b>D</b>	<b>VALUE ADDED TAX</b> 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 VAT and any other Government taxes currently in force.	
<b>E</b>	The tenderer is advised that in accordance with Government public notice No. 35 &36 Dated 11 <sup>th</sup> September 2003 operational from 1 <sup>st</sup> October 2003, withholding VAT will be levied against the contract sum by the Employer and remitted 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 of 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.	
<b>F</b>	<b>TENDER VALIDITY</b> "Clause 3.6 if the Instructions to Tenderers has been amended to read: <b>"Tenders shall remain valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening, and not Ninety (60) days. All Tenderers are advised to note this amendment when filling the Form of Tender".</b>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
	<p><b>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</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> 3 Months From Practical completion</p> <p><b>Defects Liability Period</b> 6 Months from practical completion</p> <p><b>Date for Possession</b> To be agreed with the Project Manager</p> <p><b>Date for Completion</b> ..... 32 Weeks from date of Possession</p> <p><b>Liquidated and Ascertained</b> At the rate of <b>Kshs.100, 000.00</b> per week or part thereof</p> <p><b>Prime Cost Sums for which the Contractor desires to tender</b> .....</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> 10%</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
	<p style="text-align: center;"><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>	
	<p>PARTICULAR PRELIMINARIES</p> <p>TOTAL CARRIED TO GRAND SUMMARY</p>	

**GENERAL PRELIMINARIES  
(PHASE 2)**



ITEM	DESCRIPTION	AMOUNT
	<b><u>GENERAL PRELIMINARIES</u></b>	
<b>A</b>	<b><u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u></b>  Wherever in the Contractor's priced Bills of Quantities no price appears against an item of Preliminaries or Preambles, the value of such item shall be deemed to be included in his prices for other items in the schedule and summary of works.	
<b>B</b>	<b><u>B. ABBREVIATIONS AND DEFINITIONS</u></b>  Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows; <p>cm.                      Shall mean cubic metre</p> <p>sm.                      Shall mean square metre</p> <p>lm.                      Shall mean linear metre</p> <p>mm                      Shall mean Millimetre</p> <p>m<sup>2</sup>.                      Shall mean square metre</p> <p>kg                        Shall mean Kilogramme</p> <p>no.                       Shall mean Number</p> <p>prs.                      Shall mean Pairs</p> <p>in or "                   Shall mean inch</p> <p>B.S.                      Shall mean the British Standard Specification published by the British Standards Institution, 2 park Street, London W.I.</p> <p>Ditto                      Shall mean the whole of the preceding description except as qualified in</p> <p>m.s.                      Shall mean measured separately.</p> <p>a.b.d                      Shall mean as before described.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>ABBREVIATIONS AND DEFINITIONS (CONTD.)</u></b>	
	lf                                      Shall mean linear foot	
	sf                                      Shall mean square foot	
	cf                                      Shall mean cubic foot	
	lb                                      Shall mean pound avoirdupois	
	K.S.                                      Shall mean the current Kenya Standard Specification published by the Kenya Bureau of Standards, P.O. Box 54974, Nairobi, Kenya.	
	'As described'    Shall mean as described in these Bills of Quantities.	
	'As before described'    Shall mean in all respects as described in a previous item.	
	"Approved"                      Shall mean approved by the Project Manager	
	"As directed"                      Shall mean as directed by the Project Manager	
<b>B</b>	<b><u>CONTRACT BILLS OF QUANTITIES</u></b>	
	The Contract Bills have been prepared in accordance with the Standard method of measurement of Building works for Eastern Africa, Second Edition (metric) 2008, Published by the Architectural Association of Kenya, chapter of Quantities Surveyors, which is available for inspection at the offices of the Quantity Surveyors by appointment	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</u></b></p> <p><u>Attendance</u> Clause B19(b) of the Standard Method of Measurement is and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in and shall be deemed to include: allowing use of standing scaffolding, messrooms, sanitary conditions and welfare facilities; provision of special scaffolding where necessary, 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>Clause D 18 (a) and (b) of the Standard method of measurement are deleted and the following clause is substituted:keeping excavations free from all water including spring and running water shall be included as an item, or alternatively shall be given in the description of excavation.</p> <p>Clause D 19 of the Standard Method of measurement. The last sentence which reads:</p> <p>“ and shall be given as an item or shall be included in the description of excavation” shall be deleted and the following substituted: “and shall be deemed to be included in the description of all items of excavation.</p>	
B	<p><b><u>Fix Only:-</u></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>	
C	<p><b><u>EMPLOYER</u></b></p> <p>The Employer is the Kenya Medical Supplies Authority. . The terms "Employer", "Government" and "Kemsa" whenever used in any contract document shall be synonymous.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<p><b><u>PROJECT MANAGER</u></b></p> <p>The term "PROJECT MANAGER" wherever used in these Bills of Quantities shall be deemed to imply the person defined in Condition 1 of the Conditions of Contract hereby attached or such person or persons as may be duly authorised to represent him on behalf of the Government.</p>	
<b>B</b>	<p><b><u>ARCHITECT</u></b></p> <p>The term "Architect" shall be deemed to mean <b>APT DESIGN SOLUTIONS</b> whose address unless otherwise notified is <b>P.O BOX 321900,00200 NAIROBI</b></p>	
<b>C</b>	<p><b><u>QUANTITY SURVEYOR</u></b></p> <p>The term "Quantity Surveyor" shall be deemed to mean  .....whose address  unless otherwise notified is .....</p>	
<b>D</b>	<p><b><u>MECHANICAL/ELECTRICAL ENGINEER</u></b></p> <p>The term "Mechanical/Electrical Engineer" shall be deemed to mean  ..... whose address  unless otherwise notified is .....</p>	
<b>E</b>	<p><b><u>CIVIL/STRUCTURAL ENGINEER</u></b></p> <p>The term "Civil/Structural Engineer" shall be deemed to mean  .....whose address  unless otherwise notified is .....</p>	
<b>F</b>	<p><b><u>SURVEYOR</u></b></p> <p>The term "Surveyor" shall be deemed to mean  .....whose address  unless otherwise notified is .....</p>	
<b>G</b>	<p><b><u>ENVIRONMENTAL CONSULTANT</u></b></p> <p>The term "Enviromental consultant" shall be deemed to mean  .....whose address  unless otherwise notified is ...</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>FORM OF CONTRACT</u></b></p> <p>The form of contract will be the one included in the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition) hereby attached and Conditions of Contract are those attached thereto. If the Contractor considers that compliance with any of the Conditions of Contract involves any expenses distribute them among his rates for the various items in the Bills of Quantities. No claim shall be allowed arising from the Contractors compliance with <b><u>any of the Conditions of Contract</u></b>. These are numbered from 1 to 37 as set out on pages 18 to 38 of these tender documents. Particulars of the insertion to be made in the Appendix of the Appendix of the Contract Agreement will be found in the Particular Preliminaries of these Bills of Quantities.</p>	
B	<p><b><u>BOND.</u></b></p> <p>The Contractor shall find and submit on the Form of Tender the name of <b>one surety who shall be an approved bank</b> and who will be willing to be bound to the Government in an amount equal to seven and half per cent (5) of the Contract amount for the due performance of the contract up to the date of completion as certified by the "PROJECT MANAGER" and who will when and if called upon, sign a Bond to that effect on Ministry of Roads Public works and Housing Form No 118 (without the addition of any limitations) on the same day as the Contract Agreement is signed. In the event of the surety named in the form of tender not being approved by the Government, the Contractor shall furnish within seven days another Surety to the approval of the Government.</p>	
C	<p><b><u>PLANT, TOOLS AND VEHICLES</u></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 hereiin. No timber used for formwork, scaffolding or temporary works of any kind shall be used afterwards in the permanent work.</p>	
D	<p><b><u>TRANSPORT.</u></b></p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>MATERIALS AND WORKMANSHIP.</u></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 Contractor shall also order materials from local sources as early as necessary to ensure that they are on site when required for use in the the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p> <p><b><u>B</u></b></p> <p><b><u>SIGN FOR MATERIALS SUPPLIED.</u></b></p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the "PROJECT MANAGER" at the time of taking delivery thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and replacements of any such loss or damage with articles and/or materials which will be supplied by the "PROJECT MANAGER" at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the "PROJECT MANAGER"</p> <p><b><u>C</u></b></p> <p><b><u>STORAGE OF MATERIALS</u></b></p> <p>The Contractor shall provide at his own risk and cost where directed on the site weatherproof lockup sheds for the safe storage and custody of materials for the works and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the "PROJECT MANAGER". Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<p><b>A</b></p>	<p><b><u>SAMPLES</u></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 required by the "PROJECT MANAGER" for his approval or rejection and any other samples in case of rejection until such samples are approved by the "PROJECT MANAGER" and he may reject any materials or workmanship not in his opinion to be up to the approved samples. The "PROJECT MANAGER" shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the "PROJECT MANAGER". The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Roads Public Works &amp; Housing. The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the "PROJECT MANAGER". The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p> <p><b><u>B</u></b></p> <p><b><u>GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</u></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 to the safety, health and welfare of the workpeople. The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is important that the contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p>	
	<p><b>CARRIED TO COLLECTION</b></p>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>SECURITY OF WORKS ETC.</u></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> <p><b><u>PUBLIC AND PRIVATE ROADS.</u></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> <p><b><u>EXISTING PROPERTY.</u></b></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the "PROJECT MANAGER"</p> <p><b><u>VISIT SITE AND EXAMINE DRAWINGS.</u></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 his tender. No claim arising from his failure to comply with this recommendation will be considered</p> <p><b><u>ACCESS TO SITE AND TEMPORARY ROADS.</u></b></p> <p>Means of access to the Site shall be agreed with the "PROJECT MANAGER" prior to commencement of the work and the 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>CARRIED TO COLLECTION</b>	



ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u></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	<p><b><u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u></b></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters 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 from mains and the Contractor must make his own arrangements for augmenting this supply at his cost. Nominated sub-contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
C	<p><b><u>OFFICE FOR THE PROJECT MANAGER</u></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 maintain a lock-up pedestral type water or bucket closet for the sole use of the "PM" including making temporary connections to the drain where applicable to the satisfaction Government and Medical Officer of Health and pay the services of a 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 complete before the contractor is permitted to commence the works. The Contractor shall make available on site as and when required by the "PM" a modern and accurate level together with levelling staff, ranging rods and 50 metre metallic linen tape.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
<b>A</b>	<p><b><u>SANITATION OF THE WORKS</u></b></p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the "PROJECT MANAGER"</p>	
<b>B</b>	<p><b><u>SUPERVISION AND WORKING HOURS</u></b></p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the "PROJECT MANAGER" who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract. The working hours shall be those generally worked by good employers in the in the Building and Civil Engineering trades in Kenya. No work shall be carried out at night or on gazetted holidays unless the "PROJECT MANAGER" shall so direct. No work shall be covered up nor shall any concreting be carried out in the in the absence of the Clerk of Works without prior approval of the "PROJECT MANAGER" in writing.</p>	
<b>C</b>	<p><b><u>PROVISIONAL SUMS.</u></b></p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurements. Such sums are net and no addition shall be made to them for profit.</p>	
<b>D</b>	<p><b><u>PRIME COST (OR P.C.) SUMS.</u></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 Measurements. Persons or firms nominated by the "PROJECT MANAGER" to execute work or to provide and fix materials or goods as stated in Condition No. 8 of the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>PROGRESS CHART.</u></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 site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
B	<p><b><u>ADJUSTMENT OF P.C. SUMS.</u></b></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the P.M's order in respect of each of them added to the Contract sum. The Contractor shall provide 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.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
C	<p><b><u>ADJUSTMENT OF PROVISIONAL SUMS.</u></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 MANAGERS" order added to the contract Sum. Such work shall be valued as described for variations in condition No. 22 of the conditions of Contract, but should any part of the contract be executed by a nominated Sub-Contractor, or any articles for the Work be supplied by a Nominated Supplier, the value of such work or articles shall be treated as P.C. P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>NOMINATED SUB-CONTRACTORS</u></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 as described in Condition No 8 of the Conditions of Contract and shall thereafter be responsible for such sub contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract contractor's work concerned in the P.C. Sums under the description "Add for Attendance".</p> <p><b><u>DIRECT CONTRACTS</u></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 the instances, profit relative to the P.C. Sum the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p> <p><b><u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u></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 and measured and paid for to the extent executed at rates provided in these bills.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>INSURANCE</u></b></p> <p>The Contractor shall insure as required in Condition No.30 of the Conditions of contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the "PROJECT MANAGER" either by production of an insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clause have been complied with in all respects. Thereafter the "PROJECT MANAGER" shall from time to time ascertain that the premiums are duly paid up by the Contractor, who, if called upon to do so, shall produce receipted premium renewals for the "PROJECT MANAGER"'s inspection.</p>	
B	<p><b><u>PROVISIONAL WORK</u></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 be left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the "PROJECT MANAGER" Immediately the work is ready for measuring, the Contractor shall give notice to the "PROJECT MANAGER" If the Contractor makes default in these respects he shall, if the "PROJECT MANAGER" so directs, uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
C	<p><b><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></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 Bills of Quantities. All items 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>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>BLASTING OPERATIONS</u></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 laid down by the "PROJECT MANAGER" governing the use and storage of explosives.</p>	
B	<p><b><u>MATERIALS ARISING FROM EXCAVATIONS</u></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>	
C	<p><b><u>PROTECTION OF THE WORKS.</u></b></p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including 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>	
D	<p><b><u>REMOVAL OF RUBBISH ETC.</u></b></p> <p>Remove all rubbish and debris from the Buildings and site as it accumulates and at the completion of the works and remove all plant, scaffolding and unused materials at completion.</p> <p><b><u>TOPOGRAPHICAL SURVEY</u></b></p>	
E	<p>The contractor's to carry out a topo survey of the site before commencement of the works to the approval of the Engineer. His tender must include for all costs arising or resulting there from</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>WORKS TO BE DELIVERED UP CLEAN</u></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	<p><b><u>GENERAL SPECIFICATION.</u></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 General Specification dated 1976 or any subsequent revision thereof a copy of which is available at the Quantity surveyors offices , and which which shall be followed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
C	<p><b><u>TRAINING LEVY</u></b></p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs 50,000.00 in value.</p>	
D	<p><b><u>MATERIALS ON SITE</u></b></p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the "PROJECT MANAGER". This is to include the materials of Main Contractor, and Nominated Sub-Contractors Suppliers.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
A	<p><b><u>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</u></b></p> <p>The Contractor shall constantly keep on the works literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p>	
B	<p><b><u>FIRM PRICE CONTRACT</u></b></p> <p>Unless otherwise specifically stated in the Contract Data and/or Particular Preliminaries this is a firm price contract and the Contractor must allow in his tender rates for any increase in the cost of labour and/or materials during the currency of the contract.</p>	
C	<p><b><u>HOARDING</u></b></p> <p>Provide, erect, maintain and remove on completion of the works an approved suitable and sufficient hoarding along perimeter of property or as directed.</p> <p>The hoarding shall be 3.00m high, above ground level, and constructed of 150mm diameter approved celcured hardwood posts, at 2.00m centres, 3.60m long and with one end set 600mm deep below ground level; 100 x 50mm sawn celcured cypress battens nailed to the posts at 1.00m centres; 30 gauge galvanised corrugated iron sheets 3.00m long fixed to the battens and painted and the whole fence kept clean and neat during the currency of the contract. A rehicular double gate size 3.50 x 3.00 mm high constructed of the same materials complete with a wicket door and necessary ironmongery shall be provided.</p>	
	<b>CARRIED TO COLLECTION</b>	



ITEM	DESCRIPTION	AMOUNT
A	<p><b>SETTING OUT</b></p> <p>The contractor shall set out the works in accordance with the dimensions and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels so set out by him and he shall be required to amend all errors arising from inaccurate setting out at his own cost and expense. In the event of any error or discrepancy in the dimensions or levels marked on the drawings being discovered, such errors or discrepancies must be reported by the contractor to the Architect for immediate attention. No work shall be commenced by the contractor until he has received written instructions from the Architect to adjust such discrepancies which may be proved. Upon receipt of such instructions the contractor shall thereupon be responsible for adjustments necessary to comply with such instructions and no claim for extra expense based on any discrepancy or error in the dimensions or levels shown on the drawings shall be made thereafter.</p> <p><b>NOMINATED SUPPLIERS</b></p> <p>The cost of "Fix only" materials to be obtained from nominated suppliers which are covered by Prime cost or Provisional Sums shall include for taking delivery where directed, in checking with invoices or indents, reporting and claiming damages for shortages and damaged goods, defraying demurrage, signing for as having been received in good order, transporting, unloading, storing, covering and protecting, until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.</p>	
	<b>CARRIED TO COLLECTION</b>	

ITEM	DESCRIPTION	AMOUNT
	<b><u>COLLECTION</u></b>	
	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	
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	Brought forward from page GP/16	
	Brought forward from page GP/17	
<b>GENERAL PRELIMINARIES TOTAL CARRIED TO GRAND SUMMARY</b>		

B I L L   N O .   1  
F L A M M A B L E   S T O R E  
( P H A S E 2 )

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>FLAMMABLE STORE</u></b>				
	<b><u>SUBSTRUCTURES</u></b>				
	<b><u>EXCAVATION AND EARTHWORK</u></b>				
	<u>EXCAVATION</u>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	89	cm		
	Trenches; to receive foundations; starting from reduced level				
B	Not exceeding 1.50 m deep	24	cm		
	Pits; to receive column bases or the like; starting from reduced level				
C	Not exceeding 1.50 m deep	17	cm		
	Extra over all kinds of excavations irrespective of depth for				
D	Excavating in hard rock irrespective of depth	10	cm		
	<u>Disposal</u>				
	Surplus excavated material				
E	Removing from site	105	cm		
	<u>DISPOSAL OF WATER</u>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
F	All water including spring or running water		Item		
	<u>PLANKING AND STRUTTING</u>				
	<u>Labour and materials</u>				
	To uphold the sides of excavation				
G	Generally		Item		
	<u>FILLING</u>				
	<u>Hardcore</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
H	300 mm thick; handpacked in layers not exceeding 150mm thick	67	sm		
	<u>Approved excavated material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
J	Return fill and ram approved excavated material around foundations	25	cm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Approved imported fill material</u>  Filling in making up levels well rolled and compacted to 95% maximum dry density  Over 300 mm thick; depositing and compacting in layers maximum 200 mm thick	57	cm		
	<u>Stone or quarry dust</u>  Blinding surfaces of fill  50 mm thick				
B	<u>DAMP PROOFING MEMBRANES</u>  <u>500 Gauge 'diothene' or other equal and approved polythene sheeting damp proofing membrane; with weltd laps (measured separately - no allowance made for laps)</u>  Horizontal; in 1 No. layer(s)	74	sm		
C	Over 300mm wide; laid on compacted murrum or quarry dust blinding (measured separately)  <u>ANTI-TERMITE AND HERBICIDE TREATMENT</u>  <u>Termidor, or other equal and approved insecticide applied strictly in accordance with the Manufacturer's printed instructions</u>  With a Ten years guarantee as described all to the Architect's approval.				
D	To surfaces of fill and tops of foundation walls  <b>CONCRETE WORK</b>  <u>INSITU CONCRETE: PLAIN</u>  <u>Normal: mass concrete class `P'</u>  Foundations	21	sm		
E	50 mm thick  Bases				
F	50 mm thick  <u>INSITU CONCRETE: REINFORCED</u>  <u>Normal: class 20/(20mm); vibrated</u>  Foundations in trenches	4	cm		
G	Irrespective of thickness  Column bases				
H	Generally  Columns: vertical or sloping not exceeding 15 degrees from horizontal	2	cm		
J	Generally  Beds				
K	150 mm thick	74	sm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>REINFORCEMENT</u></b>				
	<u>Bars: mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
A	16 mm Diameter	121	kg		
B	12 mm Diameter	182	kg		
C	10 mm Diameter	252	kg		
D	8 mm Diameter	52	kg		
	<u>Fabric; B.S. 4483</u>				
	Reference A142 ; mesh 200 x 200 mm weight 2.22 kgs per square metre (measured net - no allowance made for laps); including bends, tying wire and distance blocks				
E	In any location	74	sm		
	<b><u>FORMWORK TO INSITU CONCRETE</u></b>				
	<u>Formwork generally</u>				
	Edges of beds, roads, footpaths, pavings and the like				
F	75 to 150 mm wide	35	lm		
	Sides; vertical or battering				
G	Columns or the like	19	sm		
	<b><u>WALLING</u></b>				
	<b><u>NATURAL STONEWORK</u></b>				
	<u>Approved local stone; roughly squared; bedding and jointing in cement mortar (1:4)</u>				
	Walls				
H	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	68	sm		
	<b><u>DAMP PROOF COURSES</u></b>				
	<u>B.S. 743; type A; bitumen hessian base; 150 mm laps; No allowance made for laps</u>				
	Horizontal; 1 No of layer(s)				
J	200mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	31	lm		
	<b><u>PLINTHS</u></b>				
	<u>Cement/sand(1:4) render</u>				
	Walls				
K	20mm thick cement/sand(1:4) render to plinth	11	sm		
L	Prepare and apply three coats of black bituminous paint on rendered plinth	11	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><b><u>ROADWORKS</u></b></p> <p><u>PRECAST CONCRETE</u></p> <p><u>Normal; class 20/(20mm); vibrated</u></p> <p>Paving slab</p> <p>600 x 600 x 50 mm thick on and including 50 mm sand bed including jointing and pointing in cement sand (1:3) mortar necessary excavations,levelling, compaction and disposal</p>	42	sm		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUBSTRUCTURES</p> <p>Page No. 1</p> <p>Page No. 2</p> <p>Page No. 3</p> <p>Page No. 4</p>	



# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUPERSTRUCTURE CONCRETE WORK</u></b>				
	<b><u>CONCRETE WORK</u></b>				
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 20/(20mm); vibrated</u>				
	Lintels				
A	Generally	3	cm		
	Columns: vertical or sloping not exceeding 15 degrees from horizontal				
B	Generally	4	cm		
	<b><u>REINFORCEMENT</u></b>				
	<u>Bars: mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
C	16 mm Diameter	455	kg		
D	12 mm Diameter	171	kg		
E	8 mm Diameter	217	kg		
	<b><u>FORMWORK TO INSITU CONCRETE</u></b>				
	<u>Formwork generally</u>				
	Sides; vertical or battering				
F	Columns or the like	43	sm		
	Sides and soffites				
G	Beams or the like; horizontal	38	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUPERSTRUCTURE CONCRETE WORK</p> <p>Page No. 6</p>	
<p>To FLAMMABLE STORE</p>		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUPERSTRUCTURE WALLING</u></b>  <b><u>CONCRETE WORK</u></b>  <u>PRECAST CONCRETE</u>  <u>Normal; class 20/(20mm); vibrated</u>  Coping  A      250 x 50 mm ; extreme thick; twice weathered; twice throated; reinforced as necessary for handling; surface finish 500 mm girth; bedding, jointing and pointing in cement mortar (1:4)  <b><u>WALLING</u></b>  <u>BLOCKWORK</u>  <u>Precast concrete vent blocks in cement: sand mortar (1:4)</u>  Walls  B      200 mm thick  <u>NATURAL STONework</u>  <u>Approved coral stone; squared; chisel dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u>  Walls  C      200 mm thick; reinforced with hoop iron gauge 500 in every alternative course  Eaves filling  D      200 x 300 mm ; horizontal	16	lm		
		12	sm		
		144	sm		
		20	lm		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUPERSTRUCTURE WALLING</p> <p>Page No. 8</p>	

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>ROOFING</u></b>				
	<b><u>CARPENTRY</u></b>				
	<u>STRUCTURAL TIMBERS-Timber shall be as supplied by "Timsales Limited" or other equal and approved</u>				
	<u>Sawn Cypress; second grade; pressure impregnated</u>				
	Bearers or the like				
A	50 x 50 mm	68	lm		
B	50 x 50 mm; plugging	42	lm		
	<b><u>BOARDING</u></b>				
	<u>Wrot cypress; prime grade; pressure impregnated</u>				
	Fascia boards				
C	250 x 25 mm; with one labour	22	lm		
	Barge boards				
D	250 x 25 mm; with one labour	20	lm		
	<b><u>CARPENTRY SUNDRIES</u></b>				
	<u>Labour and material</u>				
	Vents				
E	Extra over t&g boarding for forming 300 x 300mm vents consisting of galvanised mosquito wire gauze fixed with and including 25 x 15mm cypress beading	4	No		
	<b><u>ROOF COVERING</u></b>				
	<b><u>CORRUGATED OR TROUGHED SHEET ROOFING</u></b>				
	<u>Galvanised steel; type IT5; 26 gauge; pre-painted</u>				
	Coverings; fixing to purlins (m/s) at 1800 mm general spacing with galvanised steel nails; 150 mm end laps and one and a half corrugation side laps				
F	Not exceeding 45 degrees from horizontal	117	sm		
	<u>420;Heavy Industrial Grade;Reinforced Aluminium Foil SUPER SISALATION(Effective thermal insulation,water and dust proofing material).</u>				
	Coverings; fixing to purlins (m/s) at 1800 mm general spacing with and including all necessary fixing accessories				
G	Not exceeding 45 degrees from horizontal	117	sm		
	<b><u>SHEET METAL FLASHING, GUTTER LININGS AND METAL TRIMS</u></b>				
	<u>Mild steel sheet; galvanised; 22 gauge</u>				
	Gutter coverings; fixing with galvanised screws				
H	150 x 150mm U-shaped gutter fixed to fascia board with and including approved brackets	22	lm		
J	Extra over gutter for 200 x 150mm down pipe outlet	4	no		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	Extra over gutter for stopped ends	4	no		
B	200 x 150mm down pipe fixed to wall with and including approved holder bats	20	lm		
C	Extra over down pipe for swan neck	4	no		
D	Extra over down pipe for horse shoe	4	no		
<b><u>STRUCTURAL STEELWORK</u></b>					
<i><u>ROLLED PLATES, BARS, SECTIONS AND TUBES</u></i>					
<i><u>WELDABLE: B.S. 449 PART 2</u></i>					
<u>Framed; bolted and welded site connections including priming after fabrication</u>					
The following in roof trusses including welding, bolting, riveting and hoisting to roof					
E	75 x 75 x 5mm thick x 75mm long angle connection cleat two times 10 diameter holed	120	no		
F	75 x 50x 3mm thick struts & ties cut and welded together as directed	130	lm		
G	100 x 50x 2mm thick Z-purlins cut and welded together as directed	130	lm		
H	100 x 50x 3mm thick rafters cut and welded together as directed	100	lm		
J	100 x 50x 3mm thick ceiling joist cut and welded together as directed	70	lm		
K	50 x 50x 6mm thick angle bracing cut and welded together as directed	32	lm		
L	12mm diameter x 1500mm long sag rods with both ends threaded and bolted to purlins with and including approved nuts complete with washers	60	no		
M	10 mm diameter x 100 mm long bolts complete with and including approved nuts and washers	240	no		
<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>					
<i><u>PLAIN SHEET FINISHINGS</u></i>					
<u>Laminated plastic sheet; to B.S. 3794; fix in accordance with manufacturer's recommendations</u>					
6 mm thick; butt vee joints; set to pattern; including raking cutting and making holes;to timber base (m/s); generally to					
N	Ceilings; external	22	sm		
P	100 x 6mm thick moulded plastic cornice plugged to wall	83	lm		
<b><u>PAINTING AND DECORATING</u></b>					
<i><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></i>					
<u>Timber surfaces</u>					
Fascia board					
Q	250 mm high	42	lm		
To FLAMMABLE STORE					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	ROOFING Page No. 10 Page No. 11 Page No. 12	

KM

To FLAMMABLE STORE



# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>DOORS</u></b></p> <p><b><u>PAINTING AND DECORATING</u></b></p> <p><i><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></i></p> <p><u>Metal surfaces</u></p> <p>General metal surfaces</p>				
A	Over 300 mm girth; external	214	sm		
B	200 to 300 mm girth; external	11	lm		
	<p><b><u>FENCING</u></b></p> <p><i><u>GATES</u></i></p> <p><u>Mild steel gates</u></p> <p>Sliding standard section purpose made mild steel panelled gate comprising 50 x 50 x 3mm thick RHS framework forming equal bevel raised panels infilled with 3 mm thick mild steel sheet both side all to approval;the door to include plugged frame all round.</p>				
C	Sliding gate overall size 4500 x 2400 mm complete with and including all necessary sliding gear	1	No		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	DOORS Page No. 14	

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>FINISHES</u></b>				
	<b><u>JOINERY</u></b>				
	<u>GENERAL JOINERY</u>				
	Gypsum plasterboard				
A	Cornices				
	150 x 25 mm; decorative feature moulded; plugging	34	lm		
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<u>INSITU FINISHINGS</u>				
B	Terrazzo; approved colour; cement and local marble chippings (1:2); machine polished				
	20 mm thick, 3 No. coat work to concrete, blockwork or brickwork base (m/s); generally to				
	Floors; level; internal	67	sm		
	Floors; level; external				
C	Extra; Plastic dividing strips; 40 x 3 mm; including setting to approved patterns in wet cement and sand mortar (m/s)	201	lm		
D	Skirting; 150 mm wide; rounded junction with wall finish and coved junction with floor; internal	31	lm		
E	<u>PLAIN SHEET FINISHINGS</u>				
	Gypsum board; fixing to and including aluminium zed sections suspension channels to architect details; allowing for skimming all joints with "Altech" or other equal and approved jointing compound				
	12.5 mm thick; including raking cutting and making holes; generally to				
	Ceilings; internal	78	sm		
F	<u>BEDS OR BACKINGS</u>				
	Render; cement and sand (1:3)				
	20mm thick one coat backings; steel trowelled to a smooth surface to receive paint (m/s); to concrete or blockwork base; generally to				
	Walls; internal	159	sm		
G	Walls; external	159	sm		
H	<u>Screed; cement and sand (1:3)</u>				
	30 mm thick one coat beds; wood floated; to receive terrazzo paving (m/s); to concrete or blockwork base; generally to				
	Floors; level; internal	67	sm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>PAINTING AND DECORATING</u></b>				
	<u>APPLY UNDER COAT,SKIM GENERAL SURFACES,PREPARE AND APPLY TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
	Over 300 mm girth; internal	159	sm		
B	<u>APPLY UNDERCOAT,SKIM GENERAL SURFACE,PREPARE AND APPLY TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Gypsum plasterboard surfaces</u>				
	Ceilings				
	Over 300 mm girth; internal	78	sm		
C	100 to 200 mm girth; internal	34	lm		
D	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Louvered surfaces				
	Over 300 mm girth; internal	12	sm		
E	Over 300 mm girth; external	12	sm		
F	<u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
	Over 300 mm girth; external	159	sm		
KM					

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>FINISHES</p> <p>Page No. 16</p> <p>Page No. 17</p>	
<p>To FLAMMABLE STORE</p>		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u></b></p> <p><b><u>ELECTRICAL INSTALLATIONS</u></b></p> <p><i><u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u></i></p> <p><u>Cut away for and make good after electrician or any other specialist installing a concealed conduit system to the following points; including cutting or leaving all holes, notches, mortices, sinkings in both structure and its covering; making good all disturbed works</u></p> <p>Cutting away in new structures for concealed conduit and point and making good works after the electrician for</p>				
A	25 x 25mm deep chase in solid concrete block or stone walling for conduits	40	Im		
B	50 x 50mm deep chase in solid concrete block or stone walling for conduits	40	Im		
C	75 x75 x 50mm deep recess in solid concrete block or stone walling for switches,sockets and the like	10	No		
D	150 x 150 x 100mm deep recess in solid concrete block or stone walling for telephone cables	1	No		
E	300 x 200 x 100mm deep recess in solid concrete block or stone walling for submains cable	1	No		
F	450 x 300 x 100mm deep recess in solid concrete block or stone walling for distribution boards	1	No		
G	600 x 600 x 100mm deep recess in solid concrete block or stone walling for mitre boards	1	No		

**PROPOSED KEMSA WAREHOUSE IN MOMBASA**

Ref.	Description	Kshs
	<p>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</p> <p>Page No. 19</p>	
	To FLAMMABLE STORE	

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	FLAMMABLE STORE SUBSTRUCTURES SUPERSTRUCTURE CONCRETE WORK SUPERSTRUCTURE WALLING ROOFING DOORS FINISHES BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK	
	FLAMMABLE STORE	



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	Summary FLAMMABLE STORE	

B I L L   N O .   2

N E W   W A R E   H O U S E  
( P H A S E 2 )

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>NEW WAREHOUSE</u></b>  <b><u>DEMOLITIONS AND ALTERATIONS</u></b>  <b><u>DEMOLITIONS AND ALTERATIONS(ALL PROVISIONAL)</u></b>  <u>DEMOLITIONS(ALL PROVISIONAL)</u>  <u>SITE PREPARATION</u>  <u>Various locations</u>  Clearing the site of all structures; salvaged materials to remain the property of Employer and cart away debris				
A	Single storey building; 6 x 4 x 3 m high to eaves; comprising natural stone or block walling, galvanised corrugated iron sheet roof on timber trusses complete with doors and windows; demolition down to ground floor level including ground slab and foundations		Item		
B	Single storey building; 16 x 6 x 3 m high to eaves; comprising natural stone or block walling, galvanised corrugated iron sheet roof on timber trusses complete with doors and windows; demolition down to ground floor level including ground slab and foundations  Demolish parts of structures and cart away debris		Item		
C	Allow for all necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations  Roofing		Item		
D	Carefully demolish existing roofed walkway and cart away debris from site as directed		Item		
E	Carefully demolish existing tank tower and tanks and cart away debris from site as directed		Item		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	DEMOLITIONS AND ALTERATIONS Page No. 1	
To NEW WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUBSTRUCTURES</u></b>				
	<b><u>EXCAVATION AND EARTHWORK</u></b>				
	<u>EXCAVATION</u>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	1,446	cm		
	Trenches; to receive foundations; starting from reduced level				
B	Not exceeding 1.50 m deep	148	cm		
	Pits; to receive column bases or the like; starting from reduced level				
C	Not exceeding 1.50 m deep	198	cm		
	Extra over all kinds of excavations irrespective of depth for				
D	Excavating in hard rock irrespective of depth	96	cm		
	<u>Disposal</u>				
	Surplus excavated material				
E	Removing from site	1,597	cm		
	<u>DISPOSAL OF WATER</u>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
F	All water including spring or running water		Item		
	<u>PLANKING AND STRUTTING</u>				
	<u>Labour and materials</u>				
	To uphold the sides of excavation				
G	Generally		Item		
	<u>FILLING</u>				
	<u>Hardcore</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
H	300 mm thick; handpacked in layers not exceeding 150mm thick	1,151	sm		
	<u>Approved excavated material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
J	Return fill and ram approved excavated material around foundations	196	cm		
	<u>Approved imported fill material</u>				
	Filling in making up levels well rolled and compacted to 95% maximum dry density				
K	Over 300 mm thick; depositing and compacting in layers maximum 200 mm thick	978	cm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<u>Stone or quarry dust</u>	1,151	sm		
	Blinding surfaces of fill				
	50 mm thick				
	<u>DAMP PROOFING MEMBRANES</u>				
B	<u>500 Gauge 'diothene' or other equal and approved polythene sheeting damp proofing membrane; with weltd laps (measured separately - no allowance made for laps)</u>	1,205	sm		
	Horizontal; in 1 No. layer(s)				
	Over 300mm wide; laid on compacted murrum or quarry dust blinding (measured separately)				
	<u>ANTI-TERMITE AND HERBICIDE TREATMENT</u>				
C	<u>Termidor, or other equal and approved insecticide applied strictly in accordance with the Manufacturer's printed instructions</u>	1,205	sm		
	With a Ten years guarantee as described all to the Architect's approval.				
	To surfaces of fill and tops of foundation walls				
	<b><u>CONCRETE WORK</u></b>				
D	<u>INSITU CONCRETE: PLAIN</u>	119	sm		
	<u>Normal: mass concrete class `P'</u>				
	Foundations				
	50 mm thick				
E	Bases	147	sm		
	50 mm thick				
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 25/(20mm): vibrated</u>				
F	Foundations in trenches	24	cm		
	Irrespective of thickness				
	Column bases				
	Generally				
G	Columns: vertical or sloping not exceeding 15 degrees from horizontal	59	cm		
	Generally				
	Steps				
	Generally				
H	Bed	4	cm		
	Generally				
	Steps				
	Generally				
J	Bed	1,205	sm		
	150 mm thick hardened and power floated to the satisfaction of the Engineer				

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	Ramps 150 mm thick  <u>REINFORCEMENT</u>  Bars; mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers  Ribbed high tensile steel bars	30	sm		
B	16 mm Diameter	1,280	kg		
C	12 mm Diameter	2,110	kg		
D	10 mm Diameter	1,011	kg		
E	8 mm Diameter	611	kg		
	<u>Fabric; B.S. 4483</u>  Reference A193 ; mesh 200 x 200 mm weight 3.02 kgs per square metre (measured net - no allowance made for laps); including bends, tying wire and distance blocks				
F	In any location  <u>FORMWORK TO INSITU CONCRETE</u>  <u>Formwork generally</u>  Risers of steps and staircase	1,235	sm		
G	75 to 150 mm wide  Edges of beds, roads, footpaths, pavings and the like	41	lm		
H	75 to 150 mm wide  Sides; vertical or battering	151	lm		
J	Columns or the like  Sides; vertical or battering; curved radius 150 mm	83	sm		
K	Columns or the like  <u>WALLING</u>  <u>NATURAL STONEWORK</u>  <u>Approved local stone; roughly squared; bedding and jointing in cement mortar (1:4)</u>  Walls	36	sm		
L	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	546	sm		
KM					

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u><b>DAMP PROOF COURSES</b></u>				
	<u>B.S. 743; type A; bitumen hessian base; 150 mm laps; No allowance made for laps</u>				
	Horizontal; 1 No of layer(s)				
A	200mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	113	lm		
	<u><b>EXPANSION JOINTS</b></u>				
	<u>Expansion joint filler</u>				
	'Flexcell' or other equal and approved mastic filler to joints; applied in strict accordance with Manufacturer's printed instruction and to the Architect's approval				
B	Rake out expansion joint filler to form 25x25mm wide groove; fill groove with approved 25 x 25mm wide elastometric joint sealant	25	lm		
	25mm thick Styropor filler or other equal and approved expansion joint filler; applied in strict accordance with Manufacturer's printed instruction and to the Architect's approval				
C	Over 300mm to walls or concrete including any necessary formwork	42	sm		
	<u><b>PLINTHS</b></u>				
	<u>Cement/sand(1:4) render</u>				
	Walls				
D	20mm thick cement/sand(1:4) render to plinth	91	sm		
E	Prepare and apply three coats of black bituminous paint on rendered plinth	91	sm		
	<u><b>ROADWORKS</b></u>				
	<u><b>PRECAST CONCRETE</b></u>				
	<u>Normal; class 20/(20mm); vibrated</u>				
	Paving slab				
F	600 x 600 x 50 mm thick on and including 50 mm sand bed including jointing and pointing in cement sand (1:3) mortar necessary excavations,levelling, compaction and disposal	181	sm		



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUBSTRUCTURES</p> <p>Page No. 3</p> <p>Page No. 4</p> <p>Page No. 5</p> <p>Page No. 6</p>	
<p>To NEW WAREHOUSE</p>		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>SUPERSTRUCTURE CONCRETE WORK</u></b>				
	<b><u>CONCRETE WORK</u></b>				
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 25/(20mm): vibrated</u>				
	Lintels				
A	Generally	47	cm		
	Columns: vertical or sloping not exceeding 15 degrees from horizontal				
B	Generally	43	cm		
	<b><u>REINFORCEMENT</u></b>				
	<u>Bars: mild steel; hot rolled; B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers</u>				
	Ribbed high tensile steel bars				
C	16 mm Diameter	2,872	kg		
D	12 mm Diameter	1,151	kg		
E	8 mm Diameter	2,517	kg		
	<b><u>FORMWORK TO INSITU CONCRETE</u></b>				
	<u>Formwork generally</u>				
	Sides; vertical or battering				
F	Columns or the like	394	sm		
	Sides; vertical or battering; curved radius 150 mm				
G	Columns or the like	54	sm		
	Sides and soffites				
H	Beams or the like; horizontal	552	sm		
	<b><u>WALLING</u></b>				
	<b><u>EXPANSION JOINTS</u></b>				
	<b><u>EXPANSION JOINT FILLER</u></b>				
	'Flexcell' or other equal and approved mastic filler to joints; applied in strict accordance with Manufacturer's printed instruction and to the Architect's approval				
J	Rake out expansion joint filler to form 25x25mm wide groove; fill groove with approved 25 x 25mm wide elastometric joint sealant	36	lm		
	25mm thick Styropor filler or other equal and approved expansion joint filler; applied in strict accordance with Manufacturer's printed instruction and to the Architect's approval				
K	Over 300mm to walls or concrete including any necessary formwork	7	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUPERSTRUCTURE CONCRETE WORK</p> <p>Page No. 8</p>	
To NEW WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>SUPERSTRUCTURE WALLING</u></b>  <b><u>WALLING</u></b>  <u>BLOCKWORK</u>  <u>Precast concrete vent blocks in cement: sand mortar (1:4)</u>  Walls  200 mm thick	56	sm		
	<u>NATURAL STONEMWORK</u>  <u>Approved coral stone; squared; chisel dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u>  Walls  200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	679	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>SUPERSTRUCTURE WALLING</p> <p>Page No. 10</p>	
To NEW WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>STRUCTURAL STEEL WORK</u></b>				
	<b><u>ROOF COVERING</u></b>				
	<u>CORRUGATED OR TROUGHED SHEET ROOFING</u>				
	<u>Galvanised steel; type IT5; 26 gauge; pre-painted</u>				
	Coverings; fixing to purlins (m/s) at 1000 mm general spacing with galvanised steel nails; 150 mm end laps and one and a half corrugation side laps				
A	Not exceeding 45 degrees from horizontal	1,516	sm		
B	Vertical	511	sm		
	Accessories; fixing with galvanised steel bolts, nuts neoprene washers and caps				
C	Cappings to ridges	46	lm		
	<u>Fibreglass; translucent; B.S. 4154</u>				
	Coverings; fixing to purlins (m/s) at 600 mm general spacing with galvanised steel nails; 150 mm end laps and one and a half corrugation side laps				
D	Not exceeding 45 degrees from horizontal	144	sm		
	<u>420;Heavy Industrial Grade;Reinforced Aluminium Foil SUPER SISALATION(Effective thermal insulation,water and dust proofing material)</u>				
	Coverings; fixing to purlins (m/s) at 1800 mm general spacing with and including all necessary fixing accessories				
E	Not exceeding 45 degrees from horizontal	2,028	sm		
	<u>SHEET METAL FLASHING, GUTTER LININGS AND METAL TRIMS</u>				
	<u>Mild steel sheet; galvanised; 14 gauge</u>				
	Gutter coverings; fixing with galvanised screws				
F	1220 mm girth U-shaped gutter fixed to fascia board with and including approved brackets	214	lm		
	Flashings; horizontal; 200 mm laps; fixed to and including 50 x 50 mm deep mortice in existing walling or concrete; tucking one end in mortice and running in gauged mortar; the other end properly dressed on roofing tiles; making good disturbed surfaces and finishes to match existing				
G	400 mm girth; thrice bent to shape (measured overall - no allowance made for laps)	214	lm		
	<u>PLASTIC GUTTERS AND DOWN PIPES</u>				
	<u>uPVC in</u>				
	Gutter coverings; fixing with galvanised screws				
H	Extra over gutter for 150 mm down pipe outlet	12	no		
J	Extra over down pipe for swan neck	12	no		
K	Extra over down pipe for horse shoe	26	no		
L	150mm diameter down pipe fixed to wall with and including approved holder bats	108	lm		

KM

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>STRUCTURAL STEELWORK</u></b>				
	<i><u>ROLLED PLATES, BARS, SECTIONS AND TUBES</u></i>				
	<u>Framed; bolted and welded site connections including hoisting and priming after fabrication and applying three coats of paint</u>				
	The following in roof trusses 13000mm clear span and 1300mm high including welding, bolting, riveting and hoisting approximately 9000mm above ground				
A	12mm diameter x 1500mm long sag rods with both ends threaded and bolted to purlins with and including approved nuts complete with washers	102	no		
	The following in roof trusses 15000mm clear span and 1300mm high including welding, bolting, riveting and hoisting approximately 10000mm above ground				
B	300 x 150 x 4mm thick plate four times 16 diameter holed and fixed to concrete beam with rawl bolts (m/s)	72	no		
C	300 x 200 x 4mm thick plate four times 16 diameter holed and fixed to concrete beam with rawl bolts (m/s)	36	no		
D	600 x 150 x 4mm thick plate four times 16 diameter holed and fixed to concrete beam with rawl bolts (m/s)	36	no		
E	700 x 200 x 4mm thick plate four times 16 diameter holed and fixed to concrete beam with rawl bolts (m/s)	34	no		
F	75 x 50 x 8mm thick x 100mm long angle connection cleat 2 times 12 diameter holed	432	no		
G	50 x 50x 3mm thick struts & ties cut and welded together as directed	4,692	kg		
H	75 x 50x 3mm thick rafters cut and welded together as directed	3,280	kg		
J	75 x 50x 3mm thick ceiling joists cut and welded together as directed	3,280	kg		
K	140 x 50x 2mm thick Z-purlins cut and welded together as directed	7,393	kg		
L	12mm diameter x 100mm long approved bolts with one end threaded and bolted to steel beam with and including approved washers	864	no		
M	12mm diameter x 150mm long approved bolts with one end threaded and bolted to concrete beam with and including approved washers	712	no		
N	100 x 3mm thick mild steel cranked louveres cut and welded together as directed	644	lm		
P	Approved mosquito wire gauze fixed to steel frames(m/s) in approved means as directed	64	sm		
	Latticed girders; 3 m long x 0.7 m deep				
Q	700 x 200 x 6mm thick plate four times steel diameter holed and fixed to concrete beam with rawl bolts (m/s)	68	no		
R	25 x 25x 3mm thick struts & ties cut and welded together as directed	159	kg		
S	50 x 25x 2mm thick rafters cut and welded together as directed	421	kg		
T	12mm diameter x 150mm long approved bolts with one end threaded and bolted to concrete beam with and including approved washers	272	no		

KM

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>PAINTING AND DECORATING</u></b>	86	sm		
	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u>				
	<u>Metal surfaces</u>				
	General surfaces				
	Over 300 mm girth; measured flat overall; external				



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	<p>STRUCTURAL STEEL WORK</p> <p>Page No. 12</p> <p>Page No. 13</p> <p>Page No. 14</p>	
To NEW WAREHOUSE		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>DOORS</u></b></p> <p><b><u>METAL WORK</u></b></p> <p><i><u>PURPOSE MADE UNITS</u></i></p> <p><u>Doors and gates</u></p> <p>Standard section purpose made mild steel panelled door comprising 50 x 50 x 3mm thick RHS framework forming equal bevel raised panels infilled with 3 mm thick mild steel sheet both side all to approval;the door to include plugged frame all round,padlock hasps,approved lock,hinges and flush bolts.</p>				
A	<p>Overall size 4000 x 2400 mm high including 8 No. purpose made hinges welded to frame and post, 4 No. 300 mm drop bolts and 2 No. padlock hasp and staple all welded to frame as per Architectural details</p>	1	No		
	<p>Sliding standard section purpose made mild steel panelled door comprising 50 x 50 x 3mm thick RHS framework forming equal bevel raised panels infilled with 3 mm thick mild steel sheet both side all to approval;the door to include plugged frame all round.</p>				
B	<p>Sliding door overall size 6000 x 2400 mm complete with and including all necessary sliding gear</p>	1	No		
	<p><b><u>PAINTING AND DECORATING</u></b></p> <p><i><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></i></p> <p><u>Metal surfaces</u></p> <p>General metal surfaces</p>				
C	<p>Over 300 mm girth; external</p>	48	sm		
D	<p>200 to 300 mm girth; external</p>	20	lm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	DOORS Page No. 16	
To NEW WAREHOUSE		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<b><u>FINISHES</u></b>				
	<b><u>FLOOR, WALL AND CEILING FINISHES</u></b>				
	<i><u>INSITU FINISHINGS</u></i>				
	<u>Terrazzo; approved colour; cement and local marble chippings (1:2); machine polished</u>				
	20 mm thick, 3 No. coat work to concrete, blockwork or brickwork base (m/s); generally to				
A	Floors; level; internal	515	sm		
	Floors; level; external				
B	Extra; Plastic dividing strips; 40 x 3 mm; including setting to approved patterns in wet cement and sand mortar (m/s)	1,546	lm		
C	Skirting; 150 mm wide; rounded junction with wall finish and coved junction with floor; internal	107	lm		
	<i><u>TILE, SLAB OR BLOCK FINISHINGS</u></i>				
	<u>Approved Epoxy finish applied to manufacturer's specification</u>				
	6 mm thick approved Epoxy Floor finish as supplied by Sika or other equal and approved applied by an approved specialist according to manufacturers printed instructions.				
D	Floors; level: internal	690	sm		
E	200 x 6 mm skirting; internal	122	lm		
	<i><u>BEDS OR BACKINGS</u></i>				
	<u>Render; cement and sand (1:3)</u>				
	20mm thick one coat backings; steel trowelled to a smooth surface to receive paint (m/s); to concrete or blockwork base; generally to				
F	Walls; internal	679	sm		
G	Walls; external	679	sm		
H	Columns; external	447	sm		
J	Sides of beams; internal	552	sm		
	<u>Screed; cement and sand (1:3)</u>				
	30 mm thick one coat beds; wood floated; to receive epoxy floor (m/s); to concrete or blockwork base; generally to				
K	Floors; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; internal	690	sm		
	30 mm thick one coat beds; wood floated; to receive terrazzo paving (m/s); to concrete or blockwork base; generally to				
L	Floors; level; internal	515	sm		

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<b><u>PAINTING AND DECORATING</u></b>				
	<u>APPLY UNDER COAT,SKIM GENERAL SURFACES,PREPARE AND APPLY TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
	Over 300 mm girth; internal	679	sm		
B	<u>APPLY UNDERCOAT,SKIM GENERAL SURFACE,PREPARE AND APPLY TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Beams				
	Over 300 mm girth; internal	552	sm		
C	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF SILK VINYL PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Louvered surfaces				
	Over 300 mm girth; internal	56	sm		
D	Over 300 mm girth; external	56	sm		
E	<u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
	Over 300 mm girth; external	679	sm		
F	Columns				
	Over 300 mm girth; external	447	sm		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

[illegible]

# PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><b><u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u></b></p> <p><b><u>ELECTRICAL INSTALLATIONS</u></b></p> <p><i><u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u></i></p> <p><u>Cut away for and make good after electrician or any other specialist installing a concealed conduit system to the following points; including cutting or leaving all holes, notches, mortices, sinkings in both structure and its covering; making good all disturbed works</u></p> <p>Cutting away in new structures for concealed conduit and point and making good works after the electrician for</p>				
A	25 x 25mm deep chase in solid concrete block or stone walling for conduits	100	Im		
B	50 x 50mm deep chase in solid concrete block or stone walling for conduits	150	Im		
C	75 x75 x 50mm deep recess in solid concrete block or stone walling for switches,sockets and the like	50	No		
D	150 x 150 x 100mm deep recess in solid concrete block or stone walling for telephone cables	6	No		
E	300 x 200 x 100mm deep recess in solid concrete block or stone walling for submains cable	5	No		
F	450 x 300 x 100mm deep recess in solid concrete block or stone walling for distribution boards	5	No		
G	600 x 600 x 100mm deep recess in solid concrete block or stone walling for mitre boards	1	No		

## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK Page No. 21	
	To NEW WAREHOUSE	



## PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	NEW WAREHOUSE DEMOLITIONS AND ALTERATIONS SUBSTRUCTURES SUPERSTRUCTURE CONCRETE WORK SUPERSTRUCTURE WALLING STRUCTURAL STEEL WORK DOORS FINISHES BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK	
	NEW WAREHOUSE	

PROPOSED KEMSA WAREHOUSE IN MOMBASA

Ref.	Description	Kshs
	Summary NEW WAREHOUSE	
KM	NEW WAREHOUSE	

B I L L   N O .   3

P R I M E   C O S T   A N D   P R O V I S I O N A L   S U M S  
( P H A S E 2 )

	Shs	Cts
<b><u>BILL NO. 3</u></b>		
<b><u>PRIME COST AND PROVISIONAL SUMS</u></b>		
A. Provide the prime cost sum of three million shillings for Electrical works installation	3,000,000.00	
B. Add for profit ..... %		
C. Add for attendance ..... (Sum)		
D. Provide the prime cost sum of one million shillings for plumbing and drainage installation	1,000,000.00	
E. Add for profit ..... %		
F. Add for attendance ..... (Sum)		
G. Provide the prime cost sum of ten million shillings for air conditioning installation	10,000,000.00	
H. Add for profit ..... %		
I. Add for attendance ..... (Sum)		
J. Provide the prime cost sum of four million shillings for shelving	4,000,000.00	
K. Add for profit ..... %		
L. Add for attendance ..... (Sum)		
M. Provide the provisional sum of three million shillings for contingencies	3,000,000.00	
<b><u>BILL NO. 3</u></b>		
<b><u>PRIME COST AND</u></b>		
<b><u>PROVISIONAL SUMS</u></b>		
<b><u>TOTAL CARRIED TO</u></b>		
<b><u>TO GRAND SUMMARY</u></b>		

**S U M M A R Y  
( P H A S E 2 )**

<b><u>PROPOSED KEMSA WARE HOUSE IN MOMBASA COUNTY</u></b>			Shs
<b><u>GRAND SUMMARY</u></b>			
<b><u>PHASE 2</u></b>			
<b><u>NO.</u></b>	<b><u>ITEM</u></b>	<b><u>PAGE NO.</u></b>	
1	- PARTICULAR PRELIMINARIES	PP/8	
2	- GENERAL PRELIMINARIES	GP/18	
3	BILL NO.1 - FLAMMABLE STORE	FS/22	
4	BILL NO.2 - NEW WAREHOUSE	NWH/24	
5	BILL NO.3 - PRIME COST AND PROVISIONAL SUMS	PC/1	
<b>TOTAL PHASE 2 CARRIED TO GRAND SUMMARY</b>			

## **G R A N D   S U M M A R Y**

<b><u>PROPOSED KEMSA WARE HOUSE IN MOMBASA COUNTY</u></b>			Shs
<b><u>GRAND SUMMARY</u></b>			
<b><u>NO.</u></b>	<b><u>ITEM</u></b>	<b><u>PAGE NO.</u></b>	
1	- PHASE 1	GS1	
2	- PHASE 2	GS2	
<b>NET GRAND TOTAL CARRIED TO FORM OF TENDER</b>			
CONTRACTOR .....			
Address .....			
Date .....			
WITNESS-Name .....			
(Signature) .....			
Address .....			
Date .....			