

PARTICULAR PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT
	<p><u>PARTICULAR PRELIMINARIES</u></p> <p>The Contractor is advised to carefully read and understand all insertions to particular preliminaries</p> <p>A <u>DESCRIPTION OF THE WORKS AND SCOPE OF CONTRACT</u></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> <p>B <u>MEASUREMENTS</u></p> <p>In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 22 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 22 of the said Conditions.</p> <p>C <u>LOCATION OF SITE</u></p> <p>The site of the proposed works is in Kisumu. 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> <p>D <u>CLEARING AWAY</u></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> <p>E <u>OFFICE FOR THE ARCHITECT</u></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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p>CLAIMS</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>PAYMENTS</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>LABOUR CAMPS</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>FIRM PRICE CONTRACT</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>MATERIALS FROM DEMOLITIONS</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>PRICING RATES</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>	
CARRIED TO COLLECTION		

ITEM	DESCRIPTION	AMOUNT
A	<p>SECURITY</p> <p>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.</p>	
B	<p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor should allow for any costs he may incur by having to complete the works within the stipulated contract period.</p>	
C	<p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p>	
D	<p>SIGN BOARD</p> <p>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.</p>	
E	<p>PRICING OF PRELIMINARIES</p> <p>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.</p>	
F	<p>ADJOINING PROPERTY</p> <p>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.</p>	
G	<p>USE OF SITE</p> <p>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</p>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p>QUALITY OF THE WORKS</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>	
B	<p>BID SECURITY</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 (150) days from the date of Tender Opening.</p>	
C	<p>TRAINING LEVY</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>	
D	<p>WATER FOR THE WORKS</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>	
E	<p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>	
CARRIED TO COLLECTION		

ITEM	DESCRIPTION	AMOUNT
A	<p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS 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	<p>FORM OF CONTRACT The form of contract will be the Republic of Kenya Standard Tender Document for Procurement of Works (2000 Edition)</p>	
C	<p>PERFORMANCE BOND 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>	
D	<p>DELIVERY OF TENDER 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>	
E	<p>CORRECTION OF ERRORS IN TENDER 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>	
F	<p>TELEPHONE Allow for providing and maintaining a telephone upon the site during the contract period and for paying all the charges</p>	
CARRIED TO COLLECTION		

ITEM	DESCRIPTION	AMOUNT
A	<p>VIEWING OF DRAWINGS 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</p>	
B	<p>STANDARD FORMS Any tender with standard forms not filled as appropriate will be treated as non-responsive.</p>	
C	<p>INTERRUPTION OF WORK 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.</p>	
D	<p>VALUE ADDED TAX The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for VAT and any other Government taxes currently in force.</p>	
E	<p>The tenderer is advised that in accordance with Government public notice No. 35 &36 Dated 11th September 2003 operational from 1st 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.</p>	
F	<p>TENDER VALIDITY "Clause 3.6 if the Instructions to Tenderers has been amended to read: "Tenders shall remain valid for a period of One Hundred and Twenty (120) days from the date of Tender Opening, and not Ninety (60) days. All Tenderers are advised to note this amendment when filling the Form of Tender".</p>	
CARRIED TO COLLECTION		

ITEM	DESCRIPTION	AMOUNT
	<p>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</p> <p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p>Period of Final Measurement 3 Months From Practical completion</p> <p>Defects Liability Period 6 Months from practical completion</p> <p>Date for Possession To be agreed with the Project Manager</p> <p>Date for Completion 32 Weeks from date of Possession</p> <p>Liquidated and Ascertained At the rate of Kshs.100, 000.00 per week or part thereof</p> <p>Prime Cost Sums for which the Contractor desires to tender</p> <p>Period of Interim Certificates Monthly</p> <p>Period of Honouring Certificates 30 days</p> <p>Percentage of Certified Value Retained 10%</p> <p>Limit of Retention Fund 10%</p>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
	<p><u>COLLECTION</u></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

ITEM	DESCRIPTION	AMOUNT
A	<u>GENERAL PRELIMINARIES</u>	
	<p><u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u></p> <p>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.</p>	
B	<p><u>B. ABBREVIATIONS AND DEFINITIONS</u></p>	
	<p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows;</p>	
	<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>m². 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>		
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>ABBREVIATIONS AND DEFINITIONS (CONTD.)</u></p> <p>lf Shall mean linear foot</p> <p>sf Shall mean square foot</p> <p>cf Shall mean cubic foot</p> <p>lb Shall mean pound avoirdupois</p> <p>K.S. Shall mean the current Kenya Standard Specification published by the Kenya Bureau of Standards, P.O. Box 54974, Nairobi, Kenya.</p> <p>'As described' Shall mean as described in these Bills of Quantities.</p> <p>'As before described' Shall mean in all respects as described in a previous item.</p> <p>"Approved" Shall mean approved by the Project Manager</p> <p>"As directed" Shall mean as directed by the Project Manager</p> <p><u>B CONTRACT BILLS OF QUANTITIES</u></p> <p>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</p>	
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ITEM	DESCRIPTION	AMOUNT
A	<p><u>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</u> <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 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: “ 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><u>Fix Only:-</u> "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><u>EMPLOYER</u> The Employer is the Kenya Medical Supplies Authority. . The terms "Employer", "Government" and "Kemsa" whenever used in any contract document shall be synonymous.</p>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>PROJECT MANAGER</u> 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	<p><u>ARCHITECT</u> The term "Architect" shall be deemed to mean APT DESIGN SOLUTIONS whose address unless otherwise notified is P.O BOX 321900,00200 NAIROBI</p>	
C	<p><u>QUANTITY SURVEYOR</u> The term "Quantity Surveyor" shall be deemed to meanwhose address unless otherwise notified is</p>	
D	<p><u>MECHANICAL/ELECTRICAL ENGINEER</u> The term "Mechanical/Electrical Engineer" shall be deemed to mean whose address unless otherwise notified is</p>	
E	<p><u>CIVIL/STRUCTURAL ENGINEER</u> The term "Civil/Structural Engineer" shall be deemed to meanwhose address unless otherwise notified is</p>	
F	<p><u>SURVEYOR</u> The term "Surveyor" shall be deemed to meanwhose address unless otherwise notified is</p>	
G	<p><u>ENVIRONMENTAL CONSULTANT</u> The term "Enviromental consultant" shall be deemed to meanwhose address unless otherwise notified is ...</p>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>FORM OF CONTRACT</u> 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 <u>any of the Conditions of Contract</u>. 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> <p><u>BOND.</u> The Contractor shall find and submit on the Form of Tender the name of one surety who shall be an approved bank 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> <p><u>PLANT, TOOLS AND VEHICLES</u> 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> <p><u>TRANSPORT.</u> 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>MATERIALS AND WORKMANSHIP.</u> 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><u>SIGN FOR MATERIALS SUPPLIED.</u> 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><u>STORAGE OF MATERIALS</u> 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>SAMPLES</u></p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be 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 & 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>	
B	<p><u>GOVERNMENT ACTS REGARDING WORKPEOPLE ETC.</u></p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>SECURITY OF WORKS ETC.</u> The Contractor shall be entirely responsible for the security of all the works, stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p>	
B	<p><u>PUBLIC AND PRIVATE ROADS.</u> 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>	
C	<p><u>EXISTING PROPERTY.</u> 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>	
D	<p><u>VISIT SITE AND EXAMINE DRAWINGS.</u> 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>	
E	<p><u>ACCESS TO SITE AND TEMPORARY ROADS.</u> 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u></p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the "PROJECT MANAGER"</p>	
B	<p><u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u></p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters 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><u>OFFICE FOR THE PROJECT MANAGER</u></p> <p>The contractor shall provide, erect and maintain where directed on site and afterwards dismantle the Site Office of the type noted in the particular preliminaries, complete with furniture. He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys. He shall provide, erect 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>	
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ITEM	DESCRIPTION	AMOUNT
A	<p><u>SANITATION OF THE WORKS</u> 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	<p><u>SUPERVISION AND WORKING HOURS</u> 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>	
C	<p><u>PROVISIONAL SUMS.</u> 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>	
D	<p><u>PRIME COST (OR P.C.) SUMS.</u> 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>PROGRESS CHART.</u></p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the "PROJECT MANAGER" a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the "PROJECT MANAGER" and a further copy to be retained site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p>	
B	<p><u>ADJUSTMENT OF P.C. SUMS.</u></p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the 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><u>ADJUSTMENT OF PROVISIONAL SUMS.</u></p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the "PROJECT 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>When any work is ordered by the "PROJECT MANAGER" to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts 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>	
B	<p><u>DIRECT CONTRACTS</u></p> <p>Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In 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>	
C	<p><u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u></p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the "PROJECT MANAGER" and the work will be and measured and paid for to the extent executed at rates provided in these bills.</p>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>INSURANCE</u></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><u>PROVISIONAL WORK</u></p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this contract shall 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><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the 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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>BLASTING OPERATIONS</u> 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> <p><u>MATERIALS ARISING FROM EXCAVATIONS</u> Materials of any kind obtained from the excavations shall be the property of the Government Unless the "PROJECT MANAGER" directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the "PROJECT MANAGER". Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p> <p><u>PROTECTION OF THE WORKS.</u> 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> <p><u>REMOVAL OF RUBBISH ETC.</u> 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><u>TOPOGRAPHICAL SURVEY</u></p> <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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>WORKS TO BE DELIVERED UP CLEAN</u></p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the "PROJECT MANAGER."</p>	
B	<p><u>GENERAL SPECIFICATION.</u></p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works 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><u>TRAINING LEVY</u></p> <p>The Contractor's attention is drawn to legal notice No. 237 of October, 1971, which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than Kshs 50,000.00 in value.</p>	
D	<p><u>MATERIALS ON SITE</u></p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the "PROJECT MANAGER". This is to include the materials of Main Contractor, and Nominated Sub-Contractors Suppliers.</p>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
A	<p><u>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</u></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><u>FIRM PRICE CONTRACT</u></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><u>HOARDING</u></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>	
	CARRIED TO COLLECTION	

ITEM	DESCRIPTION	AMOUNT
<p>A</p>	<p>SETTING OUT</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</p>	<p>NOMINATED SUPPLIERS</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>	
	<p>CARRIED TO COLLECTION</p>	

ITEM	DESCRIPTION	AMOUNT
	<u>COLLECTION</u>	
	Brought forward from page GP/1	
	Brought forward from page GP/2	
	Brought forward from page GP/3	
	Brought forward from page GP/4	
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	Brought forward from page GP/17	
GENERAL PRELIMINARIES TOTAL CARRIED TO GRAND SUMMARY		

B I L L N O . 1

G A T E H O U S E

PROPOSED KEMSA WAREHOUSE IN KISUMU

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

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	DEMOLITIONS AND ALTERATIONS Page No. 1	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>SUBSTRUCTURES</u>				
	<u>EXCAVATION AND EARTHWORK</u>				
	<i><u>EXCAVATION</u></i>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	31	cm		
	Trenches; to receive foundations; starting from reduced level				
B	Not exceeding 1.50 m deep	19	cm		
	Pits; to receive column bases or the like; starting from reduced level				
C	Not exceeding 1.50 m deep	28	cm		
	Extra over all kinds of excavations irrespective of depth for				
D	Excavating in hard rock irrespective of depth	12	cm		
	<u>Disposal</u>				
	Surplus excavated material				
E	Removing from site	48	cm		
	<i><u>DISPOSAL OF WATER</u></i>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
F	All water including spring or running water		Item		
	<i><u>PLANKING AND STRUTTING</u></i>				
	<u>Labour and materials</u>				
	To uphold the sides of excavation				
G	Generally		Item		
	<i><u>FILLING</u></i>				
	<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	26	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	30	cm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>Approved imported fill material</u>				
A	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	22	cm		
	<u>Stone or quarry dust</u>				
B	Blinding surfaces of fill 50 mm thick	26	sm		
	<u>DAMP PROOFING MEMBRANES</u>				
	<u>500 Gauge 'diothene' or other equal and approved polythene sheeting damp proofing membrane; with welted laps (measured separately - no allowance made for laps)</u>				
C	Horizontal; in 1 No. layer(s) Over 300mm wide; laid on compacted murrum or quarry dust blinding (measured separately)	26	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. To surfaces of fill and tops of foundation walls	26	sm		
	<u>CONCRETE WORK</u>				
	<u>INSITU CONCRETE: PLAIN</u>				
	<u>Normal: mass concrete class `P'</u>				
E	Foundations 50 mm thick	16	sm		
	Bases				
F	50 mm thick	23	sm		
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 20/(20mm); vibrated</u>				
G	Foundations in trenches Irrespective of thickness	3	cm		
	Column bases				
H	Generally Columns: vertical or sloping not exceeding 15 degrees from horizontal	7	cm		
J	Generally	3	cm		
	Beds				
K	150 mm thick	26	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<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				
A	16 mm Diameter	202	kg		
B	12 mm Diameter	304	kg		
C	10 mm Diameter	195	kg		
D	8 mm Diameter	87	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	26	sm		
	<u>FORMWORK TO INSITU CONCRETE</u>				
	<u>Formwork generally</u>				
	Edges of beds, roads, footpaths, pavings and the like				
F	75 to 150 mm wide	22	lm		
	Sides; vertical or battering				
G	Columns or the like	32	sm		
	<u>WALLING</u>				
	<u>NATURAL STONEMWORK</u>				
	<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	55	sm		
	<u>DAMP PROOF COURSES</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)				
J	150mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	6	lm		
K	200mm wide (measured overall - no allowance made for laps); laid and bedded on levelled cement mortar (1:3)	18	lm		
	<u>PLINTHS</u>				
	<u>Cement/sand(1:4) render</u>				
	Walls				
L	20mm thick cement/sand(1:4) render to plinth	7	sm		
To GATE HOUSE					

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p>Prepare and apply three coats of black bituminous paint on rendered plinth</p> <p><u>ROADWORKS</u></p> <p><i><u>PRECAST CONCRETE</u></i></p> <p><u>Normal: class 20/(20mm): vibrated</u></p> <p>Paving slab</p>	7	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>	80	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	SUBSTRUCTURES	
	Page No. 3	
	Page No. 4	
	Page No. 5	
	Page No. 6	
KK	To GATE HOUSE	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>SUPERSTRUCTURE CONCRETE WORK</u>				
	<u>CONCRETE WORK</u>				
	<u>INSITU CONCRETE: REINFORCED</u>				
	<u>Normal: class 20/(20mm): vibrated</u>				
	Beams; horizontal or sloping not exceeding 15 degrees from horizontal				
A	Generally	12	cm		
	Columns: vertical or sloping not exceeding 15 degrees from horizontal				
B	Generally	10	cm		
	Suspended floors, roofs or the like; horizontal				
C	150 mm thick	118	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	569	kg		
F	12 mm Diameter	767	kg		
G	10 mm Diameter	1768	kg		
H	8 mm Diameter	812	kg		
	<u>FORMWORK TO INSITU CONCRETE</u>				
	<u>Formwork generally</u>				
	Soffits; horizontal				
J	Suspended floor slabs	118	sm		
	Edges of suspended slab				
K	75 to 150 mm wide	163	lm		
	Sides; vertical or battering				
L	Columns or the like	96	sm		
	Sides; vertical or battering; curved various radii				
M	Columns or the like	38	sm		
	Sides and soffites				
N	Beams or the like; horizontal	152	sm		
P	Gutters or the like;horizontal	120	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

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

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
Page No. 8 Page No. 9	SUPERSTRUCTURE CONCRETE WORK	
KK	To GATE HOUSE	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>SUPERSTRUCTURE WALLING</u>				
	<u>CONCRETE WORK</u>				
	<i><u>PRECAST CONCRETE</u></i>				
	Normal: class 20/(20mm): vibrated				
	Copings				
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)	21	lm		
	<u>WALLING</u>				
	<i><u>NATURAL STONEMWORK</u></i>				
	<u>Approved local stone; squared; machine dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u>				
	Walls				
B	150 mm thick; reinforced with hoop iron gauge 500 in every alternative course	20	sm		
C	200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	77	sm		
D	Extra over labour and material for forming horizontal raked and flush vertical joints	77	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	SUPERSTRUCTURE WALLING Page No. 11	
KK	To GATE HOUSE	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><u>ROOFING</u></p> <p><u>ASPHALT WORK</u></p> <p><i><u>TILE ROOFING</u></i></p> <p><u>Imper-italia APP membrane rubber gutter water proofing finish or other equal and approved as supplied by Engineering supplies 2001 Limited</u></p> <p>Apply as per manufacturer's instructions</p>				
A	Over 300 mm wide to roof; laid to falls and cross-falls	167	sm		
	<p><u>ROOF COVERING</u></p> <p><i><u>SHEET METAL FLASHING, GUTTER LININGS AND METAL TRIMS</u></i></p> <p><u>uPVC in</u></p> <p>Gutter coverings; fixing with galvanised screws</p>				
B	Extra over gutter for 200 x 150mm down pipe outlet	12	no		
C	100mm diameter down pipe fixed to wall with and including approved holder bats	72	lm		
	<p><u>FLOOR, WALL AND CEILING FINISHES</u></p> <p><i><u>BEDS OR BACKINGS</u></i></p> <p><u>Screed: cement and sand (1:3)</u></p> <p>50 mm thick one coat beds; wood floated; to receive APP waterproofing (m/s); to concrete or blockwork base; generally to</p>				
D	Roofs; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; external	167	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
ROOFING Page No. 13		
KK	To GATE HOUSE	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>DOORS</u>				
	<u>JOINERY</u>				
	<i><u>DOORS</u></i>				
	<u>Wrot Mahogany: prime grade: selected</u>				
	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				
A	Single door; 45 mm thick ; 830 x 2065 mm high	2	No		
	Frames				
B	150 x 50 mm moulded transomes; plugged	2	lm		
C	150 x 50 mm frame; with six labours; plugging	11	lm		
D	50 x 25 mm moulded architrave	11	lm		
E	25 x 25 mm moulded beading	11	lm		
F	20 x 15 mm moulded glazing beading	3	lm		
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following as per Union Catalogue or other equal and approved</u>				
	To softwood, hardwood or the like fixing with screws				
G	100mm pressed brass butt hinges	8	No		
H	Kicking plates; 1.6 mmm thick; size 900 x 150 mm; catalogue No. 5000	4	No		
J	Door stops No. 8400	2	No		
K	Delayed action non-reversible overhead door closer as "BRITON" cat. No. 1005	2	No		
L	Aluminium coat and hat hook with rubber buffers catalogue No 8710	2	No		
M	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	2	No		
N	Indicator bolt No. 8094	1	No		
P	150mm long brass flush bolt	2	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	12	No		
R	150 x 100mm "male" or "female" symbol plate	2	No		
	<u>GLAZING</u>				
	<i><u>GLASS IN OPENINGS</u></i>				
	<u>Sheet: clear</u>				
	6 mm thick to wood with wooden beads (m/s)				
S	0.1 to 0.5 square metres	1	sm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>PAINING AND DECORATING</u>				
	<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				
A	100 to 200 mm girth; internal	11	lm		
	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u>				
	<u>Metal surfaces</u>				
	General metal surfaces				
B	Over 300 mm girth; external	96	sm		
C	200 to 300 mm girth; external	24	lm		
	<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				
D	200 to 300 mm girth; internal	11	lm		
	Doors				
E	Over 300 mm girth; internal	8	sm		
	<u>FENCING</u>				
	<u>GATES</u>				
	<u>Mild steel gates</u>				
	Special made gate comprising all details as shown in the architectural details				
F	Overall size 1200 x 2400 mm in one leaf	2	No		
G	Sliding gate overall size 6000 x 3500 mm complete with and including all necessary sliding gear	2	No		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	DOORS Page No. 15 Page No. 16	
KK	To GATE HOUSE	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>WINDOWS</u>				
	<u>CONCRETE WORK</u>				
	<i><u>PRECAST CONCRETE</u></i>				
	Normal; class 20/(20 mm); vibrated; part surface fair finish				
	Sills				
A	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)	10	lm		
	<u>JOINERY</u>				
	<i><u>WINDOWS</u></i>				
	Wrot Mahogany; prime grade				
	Window-boards; rounded edges				
B	200 x 25 mm; with bullnosed edge; plugging	10	lm		
	Beads				
C	30 x 30 mm; moulded; plugging	10	lm		
	<u>METAL WORK</u>				
	<i><u>STANDARD UNITS</u></i>				
	<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)</u>				
	Steel; lugs to two jambs, cutting and pinning to concrete or blockwork				
D	Overall size 800 x 900 mm high	1	No		
E	Overall size 1100 x 1500 mm high	1	No		
F	Overall size 1200 x 1500 mm high	2	No		
G	Overall size 2000 x 1500 mm high	2	No		
	<u>GLAZING</u>				
	<i><u>GLASS IN OPENINGS</u></i>				
	Sheet: clear				
	6 mm thick to metal with snap on rubber glazing beads				
H	0.5 to 1.0 square metres	10	sm		
	Sheet: obscured				
	6 mm thick to metal with snap on rubber glazing beads				
J	0.5 to 1.0 square metres	2	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>PAINING AND DECORATING</u></p> <p><u>THREE COATS TWO-PACK POLYURETHANE VARNISH; TO CROWN PAINTS OR EQUAL AND APPROVED</u></p> <p><u>Timber surfaces</u></p> <p>Frames or the like</p> <p>100 to 200 mm girth; internal</p>	10	lm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
WINDOWS Page No. 18 Page No. 19		
KK	To GATE HOUSE	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>JOINERY FITTINGS</u>				
	<u>JOINERY FITTINGS</u>				
	<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		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>General joinery</u>				
	Wrot cypress; prime grade; pressure impregnated				
A	50 x 25 mm bearers	13	lm		
	Medium density fibre (MDF) boarding; timber look-like laminated both sides; with and including plastic lipping all round				
B	20 mm thick; top; over 300 mm wide	1	sm		
C	20 mm thick; bottom; over 300 mm wide	1	sm		
D	20 mm thick; shelves; over 300 mm wide	5	sm		
E	20 mm thick; divisions; over 300 mm wide	5	sm		
F	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>				
	Supply and fix 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				
G	Brass Malpa hinges	10	pr		
H	Aluminium D pull handles	10	no		
J	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				
K	General surfaces; not exceeding 100 mm girth; internally	13	lm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	JOINERY FITTINGS Page No. 21 Page No. 22	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>FINISHES</u>				
	<u>FLOOR, WALL AND CEILING FINISHES</u>				
	<i><u>TILE, SLAB OR BLOCK FINISHINGS</u></i>				
	<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	26	sm		
B	100 mm high Polished ceramic tiles skirting to match; internal	25	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	22	sm		
D	Extra over tile for rounded edges	9	lm		
	<i><u>BEDS OR BACKINGS</u></i>				
	<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	118	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	22	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	70	sm		
H	Walls; external	102	sm		
J	Columns; external	96	sm		
K	Sides of beams; internal	152	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	26	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>PAINTING AND DECORATING</u>				
	<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				
A	Over 300 mm girth; internal	70	sm		
	<u>APPLY UNDERCOAT, SKIM GENERAL SURFACE, PREPARE AND APPLY TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Rendered surfaces</u>				
	Ceilings				
B	Over 300 mm girth; internal	118	sm		
	Beams				
C	Over 300 mm girth; internal	152	sm		
	<u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
D	Over 300 mm girth; external	102	sm		
	Columns				
E	Over 300 mm girth; external	96	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	<p>FINISHES</p> <p>Page No. 24</p> <p>Page No. 25</p>	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u>				
	<u>MECHANICAL INSTALLATIONS</u>				
	<i><u>BUILDER'S WORK IN CONNECTION</u></i>				
	<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		
	<u>ELECTRICAL INSTALLATIONS</u>				
	<i><u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u></i>				
	<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		
KK					

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK Page No. 27 Page No. 28	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	GATE HOUSE	
	DEMOLITIONS AND ALTERATIONS	
	SUBSTRUCTURES	
	SUPERSTRUCTURE CONCRETE WORK	
	SUPERSTRUCTURE WALLING	
	ROOFING	
	DOORS	
	WINDOWS	
	JOINERY FITTINGS	
	FINISHES	
	BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	Summary GATE HOUSE	
KK	To GATE HOUSE	

B I L L N O . 2
W A S H R O O M S

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>WASHROOMS</u>				
	<u>DEMOLITIONS AND ALTERATIONS</u>				
	<u>DEMOLITIONS AND ALTERATIONS(ALL PROVISIONAL)</u>				
	<i><u>DEMOLITIONS(ALL PROVISIONAL)</u></i>				
	<u>Various locations</u>				
	Demolish parts of structures and cart away debris				
	Demolish existing ceiling finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
A	13 mm thick gypsum board or softboard ceiling; including bandering, cornices and the like	21	sm		
B	Allow for all other 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	17	sm		
	Doors				
	Removing existing flush doors complete with frames and ironmongery; making good all disturbed surfaces to match existing; carting away unused materials from site				
D	Door size 900 x 2100 mm high	6	No		
	Finishes				
	Demolish existing internal wall finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
E	Ceramic wall tiles on and including cement and sand render	88	sm		
	Demolish existing floor finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
F	Ceramic floor tiles including skirtings, cement and sand screed	21	sm		
	Electrical installations				
G	Allow for all other necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		
	Mechanical installations				
H	Allow for all other necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	DEMOLITIONS AND ALTERATIONS Page No. 1	
KK	To WASHROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>SUPERSTRUCTURE CONCRETE WORK</u>				
	<u>CONCRETE WORK</u>				
	<i><u>INSITU CONCRETE: REINFORCED</u></i>				
	Normal: class 20/(20mm); vibrated				
	Lintels				
A	Generally	1	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				
B	12 mm Diameter	85	kg		
C	8 mm Diameter	39	kg		
	<u>FORMWORK TO INSITU CONCRETE</u>				
	<u>Formwork generally</u>				
	Sides and soffites				
D	Beams or the like; horizontal	12	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>SUPERSTRUCTURE WALLING</u></p> <p><u>CONCRETE WORK</u></p> <p><i><u>PRECAST CONCRETE</u></i></p> <p><u>Normal: class 20/(20mm): vibrated</u></p> <p>Copings</p> <p>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)</p>	4	lm		
B	<p><u>WALLING</u></p> <p><i><u>NATURAL STONEMWORK</u></i></p> <p><u>Approved local stone; squared; machine dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u></p> <p>Walls</p> <p>200 mm thick; reinforced with hoop iron gauge 500 in every alternative course</p>	41	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	SUPERSTRUCTURE WALLING Page No. 5	
	To WASHROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>DOORS</u>				
	<u>JOINERY</u>				
	<u>DOORS</u>				
	<u>Wrot Mahogany: prime grade: selected</u>				
	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				
A	Single door; 45 mm thick ; 830 x 2065 mm high	6	No		
	Frames				
B	150 x 50 mm moulded transomes; plugged	5	lm		
C	150 x 50 mm frame; with six labours; plugging	34	lm		
D	50 x 25 mm moulded architrave	34	lm		
E	25 x 25 mm moulded beading	34	lm		
F	20 x 15 mm moulded glazing beading	8	lm		
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following as per Union Catalogue or other equal and approved</u>				
	To softwood, hardwood or the like fixing with screws				
G	100mm pressed brass butt hinges	24	No		
H	Kicking plates; 1.6 mmm thick; size 900 x 150 mm; catalogue No. 5000	6	No		
J	Door stops No. 8400	6	No		
K	Delayed action non-reversible overhead door closer as "BRITON" cat. No. 1005	2	No		
L	Aluminium coat and hat hook with rubber buffers catalogue No 8710	4	No		
M	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	2	No		
N	Indicator bolt No. 8094	4	No		
P	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	36	No		
Q	150 x 100mm "male" or "female" symbol plate	2	No		
	<u>GLAZING</u>				
	<u>GLASS IN OPENINGS</u>				
	<u>Sheet: clear</u>				
	6 mm thick to wood with wooden beads (m/s)				
R	0.1 to 0.5 square metres	1	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>PAINTING AND DECORATING</u>				
	<i><u>PREPARE AND APPLY ONE COAT PINK OR WHITE HARDWOOD PRIMER; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></i>				
	<u>Timber surfaces</u>				
	Frames or the like				
A	100 to 200 mm girth; internal	34	lm		
	<i><u>PREPARE AND APPLY ONE COAT APPROVED STAIN; THREE COATS 2-PACK MATT POLYURETHANE VARNISH; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></i>				
	<u>Timber surfaces</u>				
	Frames or the like				
B	200 to 300 mm girth; internal	34	lm		
	Doors				
C	Over 300 mm girth; internal	25	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	DOORS Page No. 7 Page No. 8	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><u>WINDOWS</u></p> <p><u>PAINTING AND DECORATING</u></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>Glazed metal windows</p>				
A	Over 300 mm girth; internal	7	sm		
B	Over 300 mm girth; external	7	sm		
To WASHROOMS					

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	WINDOWS	
	Page No. 10	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>JOINERY FITTINGS</u>				
	<u>JOINERY FITTINGS</u>				
	<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	2	sm		
	Sawn formwork				
B	Edges of suspended worktop; 75 to 150 mm high	6	lm		
C	Soffites of suspended worktop	2	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	3	sm		
	<u>Tiled or block finishes</u>				
	Approved polished green granite slab				
E	20 mm thick; to vanity top	2	sm		
F	100 x 20 mm thick; fascia	6	lm		
	<u>Sundry</u>				
	To Architect approval				
G	Extra over labour for forming bull nosed edges to 20mm thick granite	6	lm		
H	Form or leave 500 x 500mm hole in 100mm thick concrete slab	6	no		
J	Build 20mm thick granite slab around wash hand basin	6	no		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>FINISHES</u>				
	<u>JOINERY</u>				
	<u>GENERAL JOINERY</u>				
	<u>Gypsum plasterboard</u>				
	Cornices				
A	150 x 32 mm; moulded; plugging	46	lm		
	<u>FLOOR, WALL AND CEILING FINISHES</u>				
	<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				
B	Floors; level; internal	21	sm		
	<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	88	sm		
D	Extra over tile for rounded edges	54	lm		
	<u>PLAIN SHEET FINISHINGS</u>				
	<u>Gypsum board: fixing with nails: nail heads punched and puttied:allowing for skimming all joints with "Altech" or other equal and approved jointing compound</u>				
	12.5 mm thick;including raking cutting;generally to				
E	Ceilings; internal	21	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				
F	Walls; internal	88	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	60	sm		
H	Walls; external	21	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				
J	Floors; level; internal	21	sm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>PAINTING AND DECORATING</u>				
	<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				
A	Over 300 mm girth; internal	88	sm		
	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Gypsum plasterboard surfaces</u>				
	Ceilings				
B	Over 300 mm girth; internal	21	sm		
C	100 to 200 mm girth; internal	46	lm		
	<u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
D	Over 300 mm girth; external	76	sm		
To WASHROOMS					

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	FINISHES	
	Page No. 14	
	Page No. 15	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u>				
	<u>MECHANICAL INSTALLATIONS</u>				
	<i><u>BUILDER'S WORK IN CONNECTION</u></i>				
	<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		
	<u>ELECTRICAL INSTALLATIONS</u>				
	<i><u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u></i>				
	<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	30	lm		
L	50 x 50mm deep chase in solid concrete block or stone walling for conduits	50	lm		
M	75 x75 x 50mm deep recess in solid concrete block or stone walling for switches,sockets and the like	15	No		
N	150 x 150 x 100mm deep recess in solid concrete block or stone walling for telephone cables	1	No		
KK					

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	Summary WASHROOMS	
KK	WASH ROOM	

BILL NO. 3
CHANGING ROOMS

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>CHANGING ROOMS</u>				
	<u>DEMOLITIONS AND ALTERATIONS</u>				
	<u>DEMOLITIONS AND ALTERATIONS(ALL PROVISIONAL)</u>				
	<i><u>DEMOLITIONS(ALL PROVISIONAL)</u></i>				
	<u>Various locations</u>				
	Demolish parts of structures and cart away debris				
	Demolish existing ceiling finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
A	13 mm thick gypsum board or softboard ceiling; including bandering, cornices and the like	24	sm		
B	Allow for all other 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	4	sm		
	Finishes				
	Demolish existing internal wall finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
D	Hack existing 20mm thick cement and sand plaster to walls	51	sm		
	Demolish existing floor finishes; preparing exposed surfaces to receive new finishes; extending and making good disturbed surfaces to match existing				
E	Ceramic floor tiles including skirtings, cement and sand screed	24	sm		
	Electrical installations				
F	Allow for all other necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		
	Mechanical installations				
G	Allow for all other necessary demolitions to the approval of the Architect and make good disturbed surfaces to receive new installations		Item		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	<p>DEMOLITIONS AND ALTERATIONS</p> <p>Page No. 1</p>	
KK	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>SUPERSTRUCTURE CONCRETE WORK</u>				
	<u>CONCRETE WORK</u>				
	<i><u>INSITU CONCRETE: REINFORCED</u></i>				
	Normal: class 20/(20mm); vibrated				
	Lintels				
A	Generally	1	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				
B	12 mm Diameter	85	kg		
C	8 mm Diameter	56	kg		
	<u>FORMWORK TO INSITU CONCRETE</u>				
	<u>Formwork generally</u>				
	Sides and soffites				
D	Beams or the like; horizontal	17	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	SUPERSTRUCTURE CONCRETE WORK Page No. 3	
KK	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>SUPERSTRUCTURE WALLING</u></p> <p><u>WALLING</u></p> <p><i><u>NATURAL STONEMWORK</u></i></p> <p><u>Approved local stone: squared; machine dressed bedding, jointing and pointing in cement mortar (1:4) as work proceeds</u></p> <p>Walls</p> <p>200 mm thick; reinforced with hoop iron gauge 500 in every alternative course</p>	33	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	SUPERSTRUCTURE WALLING Page No. 5	

To CHANGING ROOMS

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>DOORS</u>				
	<u>JOINERY</u>				
	<i><u>DOORS</u></i>				
	<u>Wrot Mahogany: prime grade: selected</u>				
	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				
A	Single door; 45 mm thick ; 830 x 2065 mm high	8	No		
	Frames				
B	150 x 50 mm moulded transomes; plugged	6	lm		
C	150 x 50 mm frame; with six labours; plugging	45	lm		
D	50 x 25 mm moulded architrave	45	lm		
E	25 x 25 mm moulded beading	45	lm		
F	20 x 15 mm moulded glazing beading	11	lm		
	<u>IRONMONGERY</u>				
	<u>Supply and fix the following as per Union Catalogue or other equal and approved</u>				
	To softwood, hardwood or the like fixing with screws				
G	100mm pressed brass butt hinges	32	No		
H	Kicking plates; 1.6 mmm thick; size 900 x 150 mm; catalogue No. 5000	8	No		
J	Door stops No. 8400	8	No		
K	Delayed action non-reversible overhead door closer as "BRITON" cat. No. 1005	2	No		
L	Aluminium coat and hat hook with rubber buffers catalogue No 8710	6	No		
M	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	2	No		
N	Indicator bolt No. 8094	6	No		
P	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	48	No		
Q	150 x 100mm "male" or "female" symbol plate	2	No		
	<u>GLAZING</u>				
	<i><u>GLASS IN OPENINGS</u></i>				
	<u>Sheet: clear</u>				
	6 mm thick to wood with wooden beads (m/s)				
R	0.1 to 0.5 square metres	2	sm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>PAINTING AND DECORATING</u>				
	<i><u>PREPARE AND APPLY ONE COAT PINK OR WHITE HARDWOOD PRIMER; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></i>				
	<u>Timber surfaces</u>				
	Frames or the like				
A	100 to 200 mm girth; internal	45	lm		
	<i><u>PREPARE AND APPLY ONE COAT APPROVED STAIN; THREE COATS 2-PACK MATT POLYURETHANE VARNISH; TO CROWN 'SOLO' PAINTS OR EQUAL AND APPROVED</u></i>				
	<u>Timber surfaces</u>				
	Frames or the like				
B	200 to 300 mm girth; internal	45	lm		
	Doors				
C	Over 300 mm girth; internal	33	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
DOORS Page No. 7 Page No. 8		
KK	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>WINDOWS</u>				
	<u>PAINTING AND DECORATING</u>				
	<i><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF GLOSS OIL PAINT ON</u></i>				
	<u>Metal surfaces</u>				
	Glazed metal windows				
A	Over 300 mm girth; internal	5	sm		
B	Over 300 mm girth; external	5	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	WINDOWS Page No. 10	
	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>JOINERY FITTINGS</u>				
	<u>JOINERY FITTINGS</u>				
	<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	4	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	2	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	4	lm		
	<u>Sundry</u>				
	To Architect approval				
G	Extra over labour for forming bull nosed edges to 20mm thick granite	4	lm		
H	Form or leave 500 x 500mm hole in 100mm thick concrete slab	2	no		
J	Build 20mm thick granite slab around wash hand basin	2	no		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	JOINERY FITTINGS Page No. 12	
KK	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>FINISHES</u>				
	<u>JOINERY</u>				
	<u>GENERAL JOINERY</u>				
	Gypsum plasterboard				
	Cornices				
A	150 x 32 mm; moulded; plugging	61	lm		
	<u>FLOOR, WALL AND CEILING FINISHES</u>				
	<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				
B	Floors; level; internal	24	sm		
	<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	118	sm		
D	Extra over tile for rounded edges	52	lm		
	<u>PLAIN SHEET FINISHINGS</u>				
	<u>Gypsum board: fixing with nails; nail heads punched and puttied:allowing for skimming all joints with "Altech" or other equal and approved jointing compound</u>				
	12.5 mm thick;including raking cutting;generally to				
E	Ceilings; internal	24	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				
F	Walls; internal	118	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	66	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				
H	Floors; level; internal	24	sm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>PAINTING AND DECORATING</u>				
	<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				
A	Over 300 mm girth; internal	35	sm		
	<u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF PLASTIC EMULSION PAINT ON</u>				
	<u>Gypsum plasterboard surfaces</u>				
	Ceilings				
B	Over 300 mm girth; internal	24	sm		
C	100 to 200 mm girth; internal	61	lm		
	<u>PREPARE AND APPLY RUFF N TUFF PAINT TO MANUFACTURER'S SPECIFICATIONS ON</u>				
	<u>Steel trowelled plastered surfaces</u>				
	Walls				
D	Over 300 mm girth; external	60	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	FINISHES Page No. 14 Page No. 15	
KK	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK</u>				
	<u>MECHANICAL INSTALLATIONS</u>				
	<i><u>BUILDER'S WORK IN CONNECTION</u></i>				
	<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		
	<u>ELECTRICAL INSTALLATIONS</u>				
	<i><u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS</u></i>				
	<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	30	lm		
L	50 x 50mm deep chase in solid concrete block or stone walling for conduits	50	lm		
M	75 x75 x 50mm deep recess in solid concrete block or stone walling for switches,sockets and the like	15	No		
N	150 x 150 x 100mm deep recess in solid concrete block or stone walling for telephone cables	1	No		
KK					

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	300 x 200 x 100mm deep recess in solid concrete block or stone walling for submains cable	1	No		
B	450 x 300 x 100mm deep recess in solid concrete block or stone walling for distribution boards	1	No		
C	600 x 600 x 100mm deep recess in solid concrete block or stone walling for mitre boards	1	No		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
Page No. 17 Page No. 18	BUILDERS WORK IN CONNECTION TO SUB-CONTRACT WORK	
KK	To CHANGING ROOMS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
Summary	CHANGING ROOMS	
KK	CHANGING ROOMS	

B I L L N O . 4

C A N O P Y

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>CANOPY</u>				
	<u>SUBSTRUCTURES</u>				
	<u>EXCAVATION AND EARTHWORK</u>				
	<i><u>EXCAVATION</u></i>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	69	cm		
	Trenches; to receive foundations; starting from reduced level				
B	Not exceeding 1.50 m deep	14	cm		
	Pits; to receive column bases or the like; starting from reduced level				
C	Not exceeding 1.50 m deep	11	cm		
	Extra over all kinds of excavations irrespective of depth for				
D	Excavating in hard rock irrespective of depth	6	cm		
	<u>Disposal</u>				
	Surplus excavated material				
E	Removing from site	79	cm		
	<i><u>DISPOSAL OF WATER</u></i>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
F	All water including spring or running water		Item		
	<i><u>PLANKING AND STRUTTING</u></i>				
	<u>Labour and materials</u>				
	To uphold the sides of excavation				
G	Generally		Item		
	<i><u>FILLING</u></i>				
	<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	58	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	16	cm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>Approved imported fill material</u></p> <p>Filling in making up levels well rolled and compacted to 95% maximum dry density</p> <p>Over 300 mm thick; depositing and compacting in layers maximum 200 mm thick</p>	101	cm		
B	<p><u>Stone or quarry dust</u></p> <p>Blinding surfaces of fill</p> <p>50 mm thick</p>	58	sm		
C	<p><u>DAMP PROOFING MEMBRANES</u></p> <p><u>500 Gauge 'diothene' or other equal and approved polythene sheeting damp proofing membrane; with welted laps (measured separately - no allowance made for laps)</u></p> <p>Horizontal; in 1 No. layer(s)</p> <p>Over 300mm wide; laid on compacted murrum or quarry dust blinding (measured separately)</p>	58	sm		
D	<p><u>ANTI-TERMITE AND HERBICIDE TREATMENT</u></p> <p><u>Termidor, or other equal and approved insecticide applied strictly in accordance with the Manufacturer's printed instructions</u></p> <p>With a Ten years guarantee as described all to the Architect's approval.</p> <p>To surfaces of fill and tops of foundation walls</p>	58	sm		
E	<p><u>CONCRETE WORK</u></p> <p><u>INSITU CONCRETE: PLAIN</u></p> <p>Normal: mass concrete class `P'</p> <p>Foundations</p> <p>50 mm thick</p> <p>Bases</p>	13	sm		
F	<p>50 mm thick</p> <p><u>INSITU CONCRETE: REINFORCED</u></p> <p>Normal: class 20/(20mm); vibrated</p> <p>Foundations in trenches</p>	9	sm		
G	<p>Irrespective of thickness</p> <p>Column bases</p>	3	cm		
H	<p>Generally</p> <p>Columns: vertical or sloping not exceeding 15 degrees from horizontal</p>	3	cm		
J	<p>Generally</p> <p>Steps</p>	2	cm		
K	<p>Generally</p>	2	cm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	Beds 150 mm thick	58	sm		
	<u>REINFORCEMENT</u> Bars: mild steel: hot rolled: B.S. 4449 including bends, hooks, tying wire, distance blocks, and spacers				
B	Ribbed high tensile steel bars 16 mm Diameter	101	kg		
C	12 mm Diameter	121	kg		
D	10 mm Diameter	137	kg		
E	8 mm Diameter	54	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				
F	In any location	58	sm		
	<u>FORMWORK TO INSITU CONCRETE</u> <u>Formwork generally</u> Risers of steps and staircase				
G	75 to 150 mm wide	16	lm		
	Edges of beds, roads, footpaths, pavings and the like				
H	75 to 150 mm wide	21	lm		
	Sides; vertical or battering				
J	Columns or the like	19	sm		
	<u>WALLING</u> <u>NATURAL STONEWORK</u> <u>Approved local stone; roughly squared; bedding and jointing in cement mortar (1:4)</u>				
K	Walls 200 mm thick; reinforced with hoop iron gauge 500 in every alternative course	60	sm		
	<u>PLINTHS</u> <u>Cement/sand(1:4) render</u> Walls				
L	20mm thick cement/sand(1:4) render to plinth	22	sm		
M	Prepare and apply three coats of black bituminous paint on rendered plinth	22	sm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
SUBSTRUCTURES		
Page No. 1		
Page No. 2		
Page No. 3		
To CANOPY		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>ROOFING</u>				
	<u>ROOF COVERING</u>				
	<i><u>CORRUGATED OR TROUGHED SHEET ROOFING</u></i>				
	<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				
A	Not exceeding 45 degrees from horizontal	80	sm		
B	Raking cutting	20	lm		
	Accessories; fixing with galvanised steel bolts, nuts neoprene washers and caps				
C	Cappings to ridges	4	lm		
	<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				
D	Not exceeding 45 degrees from horizontal	80	sm		
	<i><u>SHEET METAL FLASHING, GUTTER LININGS AND METAL TRIMS</u></i>				
	<u>Mild steel sheet; galvanised; 22 gauge</u>				
	Gutter coverings; fixing with galvanised screws				
E	150 x 150mm U-shaped gutter fixed to fascia board with and including approved brackets	8	lm		
F	Extra over gutter for 200 x 150mm down pipe outlet	2	no		
G	200 x 150mm down pipe fixed to wall with and including approved holder bats	8	lm		
H	Extra over down pipe for swan neck	2	no		
J	Extra over down pipe for horse shoe	2	no		
	Flashings; 300 mm laps; fixing with galvanised screws				
K	600 mm girth; including welted edges and the like shaped edges, wedging into groove; and dressing over tilting fillets and the like	20	lm		
	<u>STRUCTURAL STEELWORK</u>				
	<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 trusses				
L	75 x 75 x 5mm thick x 75mm long connection cleat times diameter holed	88	no		
M	75 x 50x 3mm thick struts & ties cut and welded together as directed	104	lm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	100 x 50x 2mm thick Z-purlins cut and welded together as directed	88	lm		
B	100 x 50x 3mm thick rafters cut and welded together as directed	80	lm		
C	100 x 50x 3mm thick ceiling joist cut and welded together as directed	60	lm		
<u>METAL WORK</u>					
<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>					
Frames					
D	200 x 200 x 4 mm hollow section	37	lm		
E	300 x 300 x 6 mm thick plates four times 16mm diameter holed and fixing to concrete column with rawl bolts(m/)	10	no		
F	16 mm diameter x 250 mm long rawl bolts with one end threaded and bolted to concrete column with and including approved washers	40	no		
<u>PAINTING AND DECORATING</u>					
<i><u>PREPARE AND APPLY ONE UNDERCOAT AND TWO FINISHING COATS OF APPROVED HALF HOUR FIRE RETARDANT PAINT ON</u></i>					
<u>Metal surfaces</u>					
General surfaces					
G	100 to 200 mm girth; external	104	lm		
H	200 to 300 mm girth; external	140	lm		
J	Over 300 mm girth; measured flat overall; external	53	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
ROOFING		
Page No. 5		
Page No. 6		
To CANOPY		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>JOINERY FITTINGS</u></p> <p><u>METAL WORK</u></p> <p><i><u>STANDARD UNITS</u></i></p> <p><u>Balustrades</u></p> <p>Mild steel balustrading</p> <p>1000 mm high horizontal or raking balustrading; comprising 40 mm diameter x 3 mm thick circular hollow section handrail welded to and including 1000mm long 30mm diameter x 3 mm circular hollow section balusters at 450mm centres, one end fish-tailed and grouted in concrete including necessary paintwork</p>	23	lm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>FINISHES</u>				
	<u>FLOOR, WALL AND CEILING FINISHES</u>				
	<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	58	sm		
B	Extra; Non-slip inserts; carborundum; 50 x 20 mm	16	lm		
C	Extra; Plastic dividing strips; 40 x 3 mm; including setting to approved patterns in wet cement and sand mortar (m/s)	115	lm		
D	Open strings; 300 mm extreme wide; internal	23	lm		
E	Skirting; 150 mm wide; rounded junction with wall finish and coved junction with floor; internal	20	lm		
	<i><u>BEDS OR BACKINGS</u></i>				
	<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				
F	Floors; level; internal	58	sm		
G	Open strings; 300 mm extreme wide; internal	23	lm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	FINISHES Page No. 10	
KK	To CANOPY	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	CANOPY SUBSTRUCTURES ROOFING JOINERY FITTINGS FINISHES	
	CANOPY	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	Summary CANOPY	

B I L L N O . 5
E X T E R N A L W O R K S

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>EXTERNAL WORKS</u>				
	<u>ROADS AND CARPARKS</u>				
	<u>EXCAVATION AND EARTHWORK</u>				
	<i><u>EXCAVATION</u></i>				
	<u>Excavating</u>				
	Bulk or the like; starting from ground level				
A	Not exceeding 1.50 m deep	1581	cm		
	<u>Disposal</u>				
	Surplus excavated material				
B	Removing from site	1581	cm		
	<i><u>DISPOSAL OF WATER</u></i>				
	<u>Labour and materials</u>				
	Keeping excavation free from				
C	All water including spring or running water		Item		
	<i><u>FILLING</u></i>				
	<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	1581	sm		
E	Over 300 mm thick; processed and compacted sub-grade	1028	cm		
	<u>Stone or quarry dust</u>				
	Blinding surfaces of fill				
F	50 mm thick	1581	sm		
	<u>ROADWORKS</u>				
	<i><u>ROAD FINISHINGS</u></i>				
	<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	1581	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	196	lm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

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		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	ROADS AND CARPARKS Page No. 1 Page No. 2	
KK	To EXTERNAL WORKS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><u>STORM WATER DRAINAGE</u></p> <p><u>DRAINAGE</u></p> <p><i><u>INSITU CONCRETE; REINFORCED</u></i></p> <p><u>Normal: class 25/(20 mm); vibrated</u></p> <p>Coverings</p>				
A	<p>800mm wide x 600mm long x 75mm thick precast concrete slotted channel drain cover</p>	23	Im		
	<p>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 100 x 75 mm wide rebate at top</p>				
B	<p>Overall size 600 mm wide x 600 mm deep (internal dimensions)</p>	23	Im		
	<p><i><u>PIPEWORK</u></i></p> <p><u>Precast concrete pipes: B.S. 556; (1:2:4) spun ogee, spigot and socket joints</u></p> <p>Pipes jointed and bedded in cement:sand (1:3) mortar laid in concrete bed and surround (m/s)</p>				
C	<p>300 mm diameter</p>	45	Im		
	<p><u>Unplasticised P.V.C. drain pipes to B.S. 5481; Class 'C'</u></p> <p>Pipes; cement joints in the running length</p>				
D	<p>200 mm diameter</p>	30	Im		
	<p><i><u>PRECAST CONCRETE WATER CHANNELS AND DRAINS</u></i></p> <p><u>Normal; class 20/(20 mm); vibrated</u></p> <p>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 murrum base and sides including all excavations</p>				
E	<p>300 mm internal diameter</p>	57	Im		
	<p>Precast concrete side slabs; jointed and bedded in cement/sand (1:3) mortar and laid on and including 100 mm thick murrum base including all necessary excavations, formwork and disposal</p>				
F	<p>600 x 225 x 75 mm thick side slabs</p>	103	sm		
	<p><i><u>THE FOLLOWING IN MANHOLES</u></i></p> <p><u>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</u></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>				
G	<p>600 x 600 mm internal dimensions; 1000 mm average depth to invert</p>	9	No		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>THE FOLLOWING IN HEADWALLS AND CULVERTS</u>				
	<u>Excavating</u>				
	Foundation trench ; starting from ground level				
A	Not exceeding 1.50 m deep	35	cm		
	<u>Disposal</u>				
	Surplus excavated material				
B	Removing from site	16	cm		
	<u>Filling</u>				
	Approved excavated material				
C	Filling depositing and compacting in layers maximum 150 mm thick; over 300 mm thick	18	cm		
	<u>Disposal of water</u>				
	Keeping excavations free from				
D	General water		Item		
	<u>In situ concrete plain: normal: class 20/(20 mm)</u>				
	Beds and surrounds				
E	Generally	20	cm		
	<u>In situ concrete plain: normal: class 15</u>				
	Blinding				
F	50 mm thick	10	sm		
	<u>In situ concrete reinforced; normal; class 20/(20 mm) ; vibrated</u>				
	Beds				
G	150 mm thick	10	sm		
	Walls				
H	150 mm thick	17	sm		
	<u>Formwork to insitu concrete: formwork generally</u>				
	Sides of sorround				
J	Walls or the like	40	sm		
	<u>Reinforcement: bars; high yield steel; hot rolled; B.S. 4449</u>				
	In any location				
K	10 mm diameter	411	kg		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	<p><u>Pipe: precast concrete (1:2:4): B.S. 556: spun ogee, spigot and socket joints; surface fair finish</u></p> <p>Pipes; bedded and jointed in cement and sand (1:3) mortar; laid in concrete bed and surround (m/s)</p> <p>600 mm diameter</p>	20	lm		
B	<p><u>Labour and material</u></p> <p>Building in ends of drains</p> <p>600 mm internal diameter in 150 mm thick reinforced concrete walling</p>	2	No		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><u>FOUL WATER DRAINAGE</u></p> <p><u>DRAINAGE</u></p> <p><i><u>EXCAVATING TRENCHES TO RECEIVE PIPES</u></i></p> <p><u>Not exceeding 150 mm internal diameter</u></p> <p>Starting from ground level; not exceeding 1.50 m depth</p>				
A	600 mm average depth part return fill and ram and cart away surplus excavated material	52	lm		
B	1000 mm average depth part return fill and ram and cart away surplus excavated material	100	lm		
	<p><i><u>INSITU CONCRETE: PLAIN</u></i></p> <p><u>Normal; class 20/(20 mm); vibrated</u></p>				
C	Beds and surround to pipe	34	cm		
	<p><i><u>PIPEWORK</u></i></p> <p><u>"1800 Series" Key Terrain uPVC pipes and fittings</u></p> <p>Pipes; solvent weld straight couplings ref. 1810 in the running length</p>				
D	150 mm diameter	152	lm		
	<p><i><u>THE FOLLOWING IN MANHOLES</u></i></p> <p><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 'O' 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></p> <p>Complete with 600 x 400 mm medium duty cast iron cover and frame to B.S. 497</p>				
E	650 x 450 mm internal dimensions; 600 mm average depth to invert	4	No		
F	650 x 450 mm internal dimensions; 1000 mm average depth to invert	9	No		
	<p><i><u>GULLEY POT</u></i></p> <p><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></p> <p>Complete with cover slab; reinforced with 8 mm diameter mild steel bars at 80 mm centres both ways</p>				
G	300 x 300 x 450 mm deep (internal dimensions)	6	No		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>THE FOLLOWING IN SEPTIC TANKS</u>				
	<u>Excavating</u>				
	Septic pit ; starting from ground level				
A	Not exceeding 1.50 m deep	46	cm		
B	1.5 to 3.0 m deep	43	cm		
	Extra over all kinds of excavations irrespective of depth for				
C	Excavating in hard rock	89	cm		
	<u>Disposal</u>				
	Surplus excavated material				
D	Removing from site	31	cm		
	<u>Filling</u>				
	Approved excavated material				
E	Return, fill and ram approved excavated materials around foundations	57	cm		
	<u>Disposal of water</u>				
	Keeping excavations free from				
F	General water		Item		
	<u>Planking and strutting</u>				
	To uphold the sides of excavations				
G	Generally		Item		
	<u>In situ concrete reinforced; normal; class 20/(20 mm) ; vibrated</u>				
	Beds				
H	150 mm thick; floor bed reinforced with BRC reference A142 slope not exceeding 15° from horizontal	13	sm		
	Walls				
J	200 mm thick	3	sm		
	Suspended cover slabs				
K	150 mm thick	12	sm		
	<u>Formwork to insitu concrete; formwork generally</u>				
	Soffites; horizontal				
L	Cover slabs	7	sm		
	Sides; vertical				
M	Walls or the like	9	sm		
	Edges of beds or the like				
N	150 to 225 mm wide	18	lm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
A	Edges of suspended floors or the like 150 to 225 mm wide Labours	18	lm		
B	Form sinking in bed between 225 – 300 mm wide <u>Reinforcement: bars: high yield steel: hot rolled: B.S. 4449</u> In any location	18	lm		
C	16 mm diameter	83	kg		
D	10 mm diameter	250	kg		
E	8 mm diameter <u>Precast concrete: normal: class 20/(20 mm): vibrated: surface fair finish</u>	530	kg		
F	150 x 1800 x 1000mm high scum baffle <u>Approved coral stone: squared: bedding, jointing and pointing in cement and sand (1:3) mortar</u> Walls	1	no		
G	200 mm thick; reinforced with hoop iron gauge 500 at every alternate course <u>Coated cast iron double seal access covers and frames: B.S. 497</u> Bedding frames in cement mortar (1:4); bedding covers in grease and sand	36	sm		
H	600 x 450 mm; heavy duty <u>Step irons: B.S. 1247: galvanised</u>	4	No		
J	20mm diameter galvanised mild steel step iron 450mm long twice bent and with both ends built 75mm deep into concrete wall <u>Render: cement and sand (1:1); steel trowelled: waterproof</u> 25 mm thick 3 No. coat work; to concrete or blockwork base; generally to	15	no		
K	Floors; level	10	sm		
L	Walls	47	sm		
M	Soffites; horizontal 30 mm thick 3 No. coat work; to concrete or blockwork base; generally to	7	sm		
N	Floors; level <u>Sundries</u> Labour and materials	12	sm		
P	Building in end of 200 mm diameter pipe in 200 mm thick masonry wall	4	No		
Q	Form or leave 600 x 450mm hole in 150mm thick reinforced concrete suspended slab	4	No		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>THE FOLLOWING IN SOAK PITS</u>				
	<u>THE FOLLOWING IN SOAK PITS</u>				
	<u>Excavating</u>				
	Extra over all kinds of excavations irrespective of depth for				
A	Excavating in rock	2	cm		
	<u>Filling</u>				
	Approved excavated material				
B	Filling depositing and compacting in layers maximum 150 mm thick; over 300 mm thick	1	cm		
	<u>Planking and strutting</u>				
	To uphold the sides of excavations				
C	Generally		Item		
	<u>In situ concrete reinforced; normal; class 20/(20 mm) ; vibrated</u>				
	Foundations				
D	Generally	1	cm		
	<u>In situ concrete plain; normal; (1:4:8 - 20 mm aggregate)</u>				
	Blinding				
E	50 mm thick	4	sm		
	<u>In situ concrete reinforced; normal; class 20/(20 mm) ; vibrated</u>				
	Cover slabs				
F	150 mm thick; insitu concrete class 20/(20 aggregate) suspended slab reinforced with 12mm diameter mild steel bars 150mm centres both ways	2	sm		
	<u>Formwork to insitu concrete: formwork generally</u>				
	Soffites; horizontal				
G	Cover slabs	1	sm		
	Edges of suspended floors or the like				
H	225 to 300 mm wide	5	lm		
	<u>Coated cast iron double seal access covers and frames; B.S. 497</u>				
	Bedding frames in cement mortar (1:4); bedding covers in grease and sand				
J	800 x 600 mm; medium duty	1	No		
	<u>Render; cement and sand (1:1); steel trowelled; waterproof</u>				
	30 mm thick 3 No. coat work; to concrete or blockwork base; generally to				
K	Floors; level	2	sm		

KK

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>Sundries</u>				
	Labour and materials				
A	Building in end of 200 mm diameter pipe in 200 mm thick masonry wall	1	No		
B	Form or leave 800 x 600mm hole in 200mm thick reinforced concrete suspended slab	1	No		
	<u>Excavating</u>				
	Soak pit ; starting from ground level				
C	Not exceeding 1.50 m deep	42	cm		
D	1.5 to 3.0 m deep	42	cm		
E	3.0 to 4.5 m deep	42	cm		
F	4.5 to 6.0 m deep	14	cm		
	<u>Disposal</u>				
	Surplus excavated material				
G	Removing from site	140	cm		
	<u>Filling</u>				
	Approved hardcore filling				
H	Filling depositing in soak pit in layers to approval; over 300 mm thick	140	cm		
	<u>Disposal of water</u>				
	Keeping excavations free from				
J	General water		Item		
	<u>Approved coral stone: squared; bedding, jointing and pointing in cement and sand (1:3) mortar</u>				
	Walls				
K	200 mm thick; curved on plan to 600 mm radius	3	sm		
	<u>THE FOLLOWING IN FRENCH DRAIN</u>				
	<u>THE FOLLOWING IN FRENCH DRAIN</u>				
	<u>Excavating</u>				
	French drain pit ; sides of trench cut back at 45o starting from ground level				
L	Not exceeding 1.50 m deep	108	cm		
	<u>Pipe: Unplasticised P.V.C. drain pipes to B.S. 5481: Class 'C'</u>				
	Pipes; bedded and jointed in cement and sand (1:3) mortar; laid in concrete bed and surround (m/s)				
M	110 mm diameter	30	lm		
N	110mm diameter pitch fibre tee outlet inlet cut to suit	20	No		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<u>Filling</u>				
	Murram				
A	Filling depositing in soak pit in layers to approval; over 300 mm thick	14	cm		
	Approved hardcore filling				
B	Filling depositing in soak pit in layers to approval; over 300 mm thick	94	cm		
	1000 Gauge polythene sheeting membrane; laid on top of gravel filling (m/s)				
C	Over 1200 mm wide; laid on compacted murram or quarry dust blinding (measured separately)	72	sm		
	<u>Agricultural pipe: Unplasticised P.V.C. drain pipes to B.S. 5481; Class 'C'</u>				
	Pipes; perforated to the Engineer's approval; laid in 450 mm lengths in trench including leaving 10 mm open joint between ends of pipe and covering top half of the open joint with approved tar paper				
D	110 mm diameter	60	lm		
	<u>Sundries</u>				
	Labour and materials				
E	Building in end of 200 mm diameter pipe in 200 mm thick masonry wall	2	No		
	<u>SUNDRIES</u>				
	<u>Labour and material</u>				
	Build in ends of pipes to manholes				
F	Build 150mm diameter pipe through 200mm thick masonrywall	26	No		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	FOUL WATER DRAINAGE	
	Page No. 8	
	Page No. 9	
	Page No. 10	
	Page No. 11	
	Page No. 12	
	Page No. 13	
To EXTERNAL WORKS		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Quantity	Unit	Rate	Kshs
	<p><u>LANDSCAPING</u></p> <p><u>LANDSCAPING</u></p> <p><i><u>GRASS</u></i></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	72	sm		
	<p><i><u>TOP SOIL</u></i></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>				
B	Red soil	72	sm		

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	<p>LANDSCAPING</p> <p>Page No. 15</p>	
		To EXTERNAL WORKS

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
	<p>EXTERNAL WORKS</p> <p>ROADS AND CARPARKS</p> <p>STORM WATER DRAINAGE</p> <p>FOUL WATER DRAINAGE</p> <p>LANDSCAPING</p>	
KK	EXTERNAL WORKS	

PROPOSED KEMSA WAREHOUSE IN KISUMU

Ref.	Description	Kshs
Summary	EXTERNAL WORKS	
KK	EXTERNAL WORKS	

BILL NO. 6

PRIME COST AND PROVISIONAL SUMS

		Shs	Cts
<u>BILL NO. 6</u>			
<u>PRIME COST AND PROVISIONAL SUMS</u>			
A.	Provide the prime cost sum of six hundred thousand shillings for Electrical works installation	600,000.00	
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 provisional sum of two million shillings for contingencies	2,000,000.00	
<u>BILL NO. 6</u>			
<u>PRIME COST AND</u>			
<u>PROVISIONAL SUMS</u>			
<u>TOTAL CARRIED TO</u>			
<u>TO GRAND SUMMARY</u>			

GRAND SUMMARY

<u>PROPOSED KEMSA WARE HOUSE IN KISUMU COUNTY(PHASE 1)</u>			Shs
<u>GRAND SUMMARY</u>			
<u>NO.</u>	<u>ITEM</u>	<u>PAGE NO.</u>	
1	- PARTICULAR PRELIMINARIES	PP/8	
2	- GENERAL PRELIMINARIES	GP/18	
3	BILL NO.1 - GATE HOUSE	GH/31	
4	BILL NO.2 - WASH ROOMS	WR/21	
5	BILL NO.3 - CHANGING ROOMS	CR/21	
6	BILL NO.4 - CANOPY	CP/13	
7	BILL NO.5 - EXTERNAL WORKS	EW/18	
8	BILL NO.6 - PRIME COST AND PROVISIONAL SUMS	PC/1	
NET GRAND TOTAL CARRIED TO FORM OF TENDER			
CONTRACTOR			
Address			
Date			
WITNESS-Name			
(Signature)			
Address			
Date			