

<u>PRELIMINARIES</u>		Shs.
<u>PRELIMINARY PARTICULARS</u>		
A <u>NAME OF PARTIES</u>		
The "Employer" is :	Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00100 <u>NAIROBI</u>	
The term "Employer" and "Kenya Power" and "Kenya Power & Lighting Co. Ltd" wherever		
The "Project Manager" is :	The Manager, Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
The "Project Officer " is :	The Kenya Power Projects Officer Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
The "Project Quantity Surveyor" is	The Kenya Power Quantity Surveyor, Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
B <u>DESCRIPTION OF SITE</u>		
	<p>The sites are located at various Kenya Power depots within the country namely; Muthatari poles yard off Embu - Kamburu Road 2. Lanet depot off Nairobi Nakuru , 3. The Contractor shall obtain the Project Manager's approval for the siting of all temporary buildings, spoil heaps, temporary paths and storage areas for materials.</p> <p>The Contractor shall visit the Sites to acquaint himself with their respective natures and position, the nature of the ground, substrata and other local conditions, position of power and water supplies, access roads or any other limitations, and no claims for extras will be considered on account of lack of knowledge in this respect.</p> <p>The Contractor must obtain the Project Manager's approval and directions regarding the use of any materials found on the site.</p>	1.
C <u>ACCESS TO SITE</u>		
Access to site shall be as directed by the Project Manager. The Contractor shall strictly observe police & NTSA regulations regarding traffic movement.		
Preliminaries	Carried to collection	KShs.

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		Shs.
A	<p><u>WORKING AND STORAGE SPACE</u></p> <p>Working and storage space will be confined to the area designated by the Project Manager within the plot boundary.</p>	
B	<p><u>WORKING HOURS</u></p> <p>The Work must be carried out to cause the minimum inconvenience to the occupants of the adjoining premises. In particular, no hammering, mechanical drilling or other unduly noisy work may be commenced before 8.00 a.m. or continued after 6.00 p.m. without prior approval of the Project Manager.</p>	
C	<p><u>DESCRIPTION OF THE WORKS</u></p> <p>The Works comprise (<i>Construction of cable rewinding machine sheds at various Kenya</i></p> <p>Construction shall generally consist of;-</p> <p>a) Construction of 4 No. cable rewinding machine sheds</p> <p><u>Services</u></p> <p>a) The services include repairs to installation of electrical works</p>	
	<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>	

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		Shs.
<u>GENERAL MATTERS</u>		
<u>SUFFICIENCY OF TENDER</u>		
A	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his Tender for the Works and of the rates and prices stated in the Priced Bills of Quantities, which rates and prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the Works.	
<u>B STAMP CHARGES</u>		
	The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety and Contract Agreement.	
<u>C DEFINITIONS AND ABBREVIATIONS</u>		
	Terms used in these Bills of Quantities shall be interpreted as follows:	
"Approved"	Shall mean approved by the Project Manager.	
"as directed"	Shall mean as directed by the Project Manager.	
"B.S."	Shall mean the current British Standard specifications published by the British Standards Institution, 2 Park Street, London W.1., England.	
"CM."	Shall mean Cubic Metres.	
"SM."	Shall mean Square Metres.	
"LM."	Shall mean Linear Metres.	
"MM"	Shall mean Millimetres.	
"KG."	Shall mean Kilogramme.	
"NO."	Shall mean Number.	
"M.S"	Shall mean Measured Separately	
PRS or Prs	Shall mean Pairs	
a.b.d	Shall mean as before described	
Ditto or Do	Shall mean the whole of the preceding description except as qualified in the description in which it occurs.	
NTSA	Shall mean National Transport & Safety Authority	
Preliminaries	Carried to collection	KShs.

Shamasa

		Shs.
A	<p><u>PROGRESS SCHEDULE</u></p> <p>The Contractor shall, upon receiving instructions to proceed with the Work, draw up a time and progress Schedule setting out the order in which the Works are to be carried out with the appropriate dates thereof. This Time and Progress schedule is to be agreed with the Project Manager and no deviation from the order set out in this Schedule will be permitted without the written consent of the Project Manager. The Main Contractor will be responsible for arranging the above programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Suppliers.</p>	
B	<p><u>FIGURED DIMENSIONS</u></p> <p>Figured dimensions are to be followed in preference to dimensions scaled from the Drawings; but wherever possible dimensions are to be taken on the Site or from the Buildings. Before any Work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the Site and/or buildings and agreed with the Contractor, irrespective of the comparable dimensions shown on the Drawings. The Contractor shall be responsible for the accuracy of such dimensions.</p>	
C	<p><u>PROVISIONAL WORK</u></p> <p>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 Quantity Surveyor. Immediately the work is ready for measurement, the Contractor shall give notice to the Quantity Surveyor.</p> <p>If the Contractor makes default in these respects he shall, if the Project Manager so directs, uncover the work at his own expense to enable the measurements to be taken.</p>	
D	<p><u>EXISTING SERVICES</u></p> <p>Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and he shall make whatever provisions may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any services shall be reported immediately to the Project Manager and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.</p>	
E	<p><u>TRANSPORT TO AND FROM THE SITE</u></p> <p>The Contractor shall include in his prices for the transport of materials workmen, etc., to and from the Site of the Proposed Works, at such hours and by such routes and vehicles as are permitted by the Authorities and in particular by the Transport Licensing Board and / or the National Transport & Safety Authority ,</p>	
	<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>	

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A	<p><u>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC</u></p> <p>The Contractor will be required to make good, at his own expense any damage he may cause to the present road surfaces and pavements within or beyond the boundary of the Site, during the period of the Works. In particular, all existing trees, shrubs, plants, etc., which may be destroyed or damaged during the progress of the Works are to be made good by the Contractor to the approval of the Project Manager.</p>	
B	<p><u>POLICE REGULATIONS</u></p> <p>The Contractor is to allow for complying with all instructions and regulations of the police Authorities.</p>	
C	<p><u>ENVIRONMENTAL REGULATIONS</u></p> <p>The Contractor shall observe all the requirements of the National Environment Management Authority (NEMA) and especially those conditions given in the Project's Environmental Impact Assessment Report Approved by NEMA. The Contractor shall collaborate with the Environmental Impact Assessment (EIA) expert to ensure that proposed mitigation measures are adhered to during construction phase and where necessary appropriate mending up activities undertaken and the same reported back to NEMA as required.</p> <p>In particular the Contractor shall give special emphasis to control dust. The Contractor shall provide all necessary dust screens to prevent dust from the construction works affecting neighbouring property. The dust screens shall be approved by the Project Manager and be acceptable to NEMA officials. The Contractor shall also control dust on site by appropriate watering of the sources of dust.</p> <p>The Contractor shall put emphasis on controlling noise, vibrations and occupational hazards. The provisions of the Occupational Safety and Health Act No. 15 of 2007 must be strictly observed.</p>	
D	<p><u>CONTRACTORS' SUPERINTENDENCE</u></p> <p>The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, competent and experienced in the kind of work involved, who shall give his whole time to the superintendence of the Works. Such Agent or Representative shall receive on behalf of the Contractor, directions and instructions from the Project Manager and such directions and instructions shall be deemed given to the Contractor in accordance with the conditions of the Contract. The Agent shall not be replaced without the specific approval of the Project Manager.</p> <p>It is to be a specific condition of this Contract that the successful Tenderer shall provide on Site throughout the period of construction until the Date for Practical completion a suitably qualified, experienced and competent person to ensure that the works are carried out to the standard required by the specification and detailed on the Drawings; and shall ensure that upon any termination of employment a suitable replacement is found.</p>	
	<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>	

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			Shs.
<p><u>CONTRACTORS' SUPERINTENDENCE -(CONTINUED)</u></p> <p>Before the Tenderer's offer is accepted the Project Manager may personally interview the Contractor's proposed Representative.</p> <p>A curriculum vitae of past experience and qualifications must be provided for the Project Manager's scrutiny.</p> <p>The Project Manager's decision will be final regarding the suitability of the proposed Representative.</p>			
A	<p><u>WATER</u></p> <p>All water shall be fresh, clean and pure, free from earthy, vegetable or organic mater, acid or alkaline substances in solution or suspension</p> <p>The Contractor shall provide at his own risk and cost all water for use in connection with the Works (including the work of Sub-Contractors). The Contractor shall provide at his own expense all temporary distribution pipes, storage tanks, metres, etc., and he shall clear away same upon completion of the Works.</p>		
B	<p><u>LIGHTING AND POWER</u></p> <p>The Contractor shall provide at his own risk and cost all artificial lighting and power for use on the Works, including all Sub-Contractors' and Specialists' requirements and including all temporary connections, wiring, fittings, etc., and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.</p>		
C	<p><u>SAFETY</u></p> <p>The Contractor shall comply at all times with the requirements of the Factory Act (Cap 514), Building Construction Rules, Supplement 18, Legal Notice No.40 dated April, 1984 and ensure that the safety of his workpeople and authorised visitors to the Site is protected at all times. In particular there shall be proper provision of planked footways and guard-rails to scaffolding, etc., protection against falling materials and tools and the Site shall be tidy and clear of dangerous rubbish.</p> <p>The Contractor shall appoint a safety officer as required by the Factory Act and notify the Factory Inspector of his name. the safety Officer shall be on Site at all times and all directions given by the Project Manager to the Safety Officer shall be deemed to be Project Manager's Instructions, and shall be complied with promptly without additional cost to the contract.</p> <p>Occupational Safety and Health Act no. 15 of 2007 must also be complied with</p> <p>The Project Manager shall be empowered to suspend work on the Site should he consider these conditions are not being observed, and no claim arising from such suspension will be allowed.</p>		
	Preliminaries	Carried to collection	KShs.

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		Shs.
A	<p><u>PROTECTIVE CLOTHING</u> The Contractor shall provide all protective or any other special clothing or equipment for his employees that may be necessary.</p> <p>This shall include, inter-alia, safety helmets, gloves, goggles, earmuffs, gumboots, overalls, etc., according to the type of work. The Contractor shall ensure that safety helmets are worn by all staff at all times.</p>	
B	<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>	
C	<p><u>ADJUSTMENT OF PROVISIONAL SUMS</u> In the final account all provisional sums shall be deducted and the value of the work properly executed in respect of them upon the Project Manager's order added to the contract sum. Such work shall be valued as described for variations in variation clause of the conditions of contract, but should any articles for the work 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 a P.C. sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</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 to execute the work or to provide and fix materials or goods as stated in the Conditions of Contract are described herein as Nominated Sub-Contractors. Persons or firms so nominated to supply goods or materials are described as Nominated suppliers.</p>	
E	<p><u>ADJUSTMENT OF P.C. SUMS</u> In the final account all P.C. sums shall be deducted and the amount properly expended upon the Project Manager's order in respect of each of them added to the contract sum. The Contractor shall produce to the Project Manager such quotation, 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 prorata to the amount paid. Items of Attendance following P.C. Sums shall be adjusted prorata to the physical extent of the work executed (not prorata to the amount paid) and this shall apply though the Contractor's Bills shows a percentage in the rate column in respect of them. Should the Contractor be permitted to tender and his tender be accepted for any work which a P.C. sum is included in these Bills of Quantities, profit and attendance will be allowed at the same rate as it would if the work were executed by a Nominated Sub-Contractor.</p>	
	Preliminaries	KShs.
	Carried to collection.	

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<u>MATERIALS AND WORKMANSHIP</u>		
A	<p><u>GENERALLY</u></p> <p>All materials shall be new unless otherwise directed or permitted by the Project Manager and in all cases where the quality of goods or materials is not described or otherwise specified, is to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word.</p> <p>All materials and workmanship shall, unless otherwise specified or described, conform to the appropriate British Standard Institution specification current at the date of tender.</p> <p>The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works.</p> <p>The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged.</p> <p>The Works throughout shall be executed by skilled workmen well versed in their respective trades.</p>	
B	<p><u>REJECTED WORKMANSHIP OR MATERIALS</u></p> <p>Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required.</p>	
C	<p><u>PROPRIETARY MATERIALS</u></p> <p>Where proprietary materials are specified herein-after the contractor may propose the use of materials of other manufacturer but equal quality for approval by the Project Manager.</p> <p>All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.</p>	
D	<p><u>SAMPLES</u></p> <p>The Contractor shall furnish at the earliest possible opportunity before work commences and at his own cost, any samples of materials or workmanship that may be called for by the Project Manager for his approval or rejection, and any further samples in case of rejection until such samples are approved by the Project Manager and such samples, when approved, shall be the minimum standard for the work to which they apply.</p>	
	Preliminaries	Carried to collection
		KShs.

Edna Mwangi

		Shs.
A	<p><u>CONCRETE TESTS</u></p>	
	<p>Concrete test cubes, will not be required under these works; any concrete works Must be done in the presence of the Project Manager or his/her representative</p>	
B	<p><u>OTHER MATERIAL TESTS</u></p>	
	<p>The Contractor shall allow for providing samples of all other materials such as reinforcement bars, building sand, cement, building stone, concrete blocks, hardcore, etc, that may be requested by the Project Manager or Engineer for testing. He shall allow for the delivery of the same to the testing Laboratory(ies)), pay the testing fees and any other costs that may be required and arrange for test certificates to be sent directly to the Project Manager or Engineer by the testing Laboratory. Under no circumstances will the Contractor be paid for such tests if he does not allow for that here</p>	
Preliminaries	Carried to collection	KShs.

B. Brumaone

	Shs.
<p><u>TEMPORARY WORKS</u></p>	
<p>A <u>OFFICE AND SHEDS</u></p>	
<p>The Contractor shall erect and maintain temporary office accommodation for his own use, and ample temporary watertight sheds for the proper storage and protection of materials and for the use of artisans and remove when ordered. Floors of sheds shall be at least 150mm above ground level.</p>	
<p>B <u>SANITATION</u></p>	
<p>The Contractor shall provide the necessary sanitation for his staff and workmen to the requirements and satisfaction of the Health Authorities and maintain the same in a thoroughly clean and sanitary condition and pay all conservancy fees during the period of the Works and remove when no longer required.</p>	
<p>Preliminaries</p>	
<p>Carried to collection</p>	<p>KShs.</p>

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	<p>A <u>PLANT, TOOLS AND SCAFFOLDING</u></p> <p>The Contractor shall provide all necessary hoists, tackle, plant, vehicles, tools and appliances of every description for the due and satisfactory completion of the Works and shall remove same on completion.</p> <p>The Contractor shall provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the Works, including Sub-Contract works, provide special scaffolding as and when required during the Works and remove on completion and make good.</p> <p>Such scaffolding shall be constructed of tubular steel or timber of sufficient scantlings and be provided with planked footways and guard-rails to approval.</p> <p>All such plant, tools and scaffolding shall comply with all regulations whether general or local, in force throughout the period of the contract and shall be altered or adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations.</p> <p>Scaffolding is not measured hereinafter, and the Contractor must allow here</p> <p>B <u>EXISTING AND ADJACENT PROPERTY</u></p> <p>The Contractor must take all steps necessary to safeguard existing and adjacent property, make good at his own expense any damage to persons or property caused thereon, and hold the Employer indemnified against any such claim arising.</p> <p>The Contractor will be held fully responsible for the safety of the existing and adjacent buildings and for any damage caused in consequence of these Works. He must reinstate all damage at his own expense and indemnify the Employer against any loss.</p> <p>The Contractor must take such steps and exercise such care and diligence as to minimise nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.</p> <p>C <u>LABOUR CAMPS</u></p> <p>No labour, with the exception of watchmen may be housed on the site and the Contractor shall allow for all transport and other charges in moving labour to and from site at such hours and by such routes as are permitted by the Authorities. The Contractor shall provide, erect and maintain satisfactory housing for the watchmen and shall remove same on completion of the works.</p>	<p>Shs.</p>
	<p>Preliminaries</p>	<p>Carried to collection</p>
		<p>KShs.</p>

Schumann

			Shs.
A	<p><u>HOARDING</u></p> <p>The Contractor shall enclose the Site with a hoarding 2.40 metres high, with openings and gates as required, constructed of substantial timbers to approval and covered with new Galvanised iron corrugated sheeting painted to approval.</p>		
B	<p><u>TEMPORARY ROADS</u></p> <p>The Contractor shall provide where directed all temporary access roads, tracks and paths necessary for the execution of the Works, including making good when no longer in use.</p>		
C	<p><u>SIGNBOARD</u></p> <p>The Signboard and lettering on same for the display of the General and Sub-Contractor's names shall be of an approved size with the Employer's name painted thereon. The Project Manager's name shall be printed in letters not exceeding 100mm in height all to the Project Manager's design. No other signboard or advertising will be permitted.</p> <p><u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS</u></p>		
D	<p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>The Contractor shall be responsible for Nominated Sub-Contractors in every respect and in particular it shall be the Contractor's responsibility to ensure that each Sub-Contractor commences and completes the work in such manner and is ready on the Site with his materials, labour and special plant at such times so as to conform with the progress Schedule, as specified previously, and so ensure satisfactory progress.</p> <p>The Contractor shall also accept liability for and bear the cost of General Attendance on Nominated Sub-Contractors which shall be deemed to include for:</p>		
	Preliminaries	Carried to collection	KShs.

IBramawa

		Shs.
	<p><u>NOMINATED SUB-CONTRACTORS - CONTINUED</u></p> <p>Allowing the use of standing scaffolding, maintenance and alteration of all scaffolding, retention of all scaffolding until such time as all relevant Sub-Contractors' works are complete and removal of all scaffolding on completion. Providing space for office accommodation, and for storage of plant and materials; allowing use of sanitary accommodation; the supply of all necessary water, and lighting; and clearing away all rubbish.</p> <p>The items for "General Attendance" given herein-after following P.C. Sums in respect of Sub-Contractors' work shall be deemed to include all the above.</p> <p>The Contractor shall also accept liability for and bear the cost of Special Attendance on Nominated Sub-Contractors which shall include for one or more of the following:</p> <p>Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.</p> <p>The items of "Special Attendance" given herein-after following P.C. Sums shall include any one or more of the above items as set out in the particular reference.</p> <p>Cutting away for and making good after the work of Sub-Contractors as may be required will be measured and valued separately by the Surveyor.</p>	
A	<p><u>NOMINATED SUPPLIERS</u></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, 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>Before placing any orders with Nominated Sub-Contractors or Nominated Suppliers the Contractors must ascertain that the terms and conditions of the quotations and the dates of delivery of materials or execution of works comply with the terms of Contract and the Progress Schedule.</p>	
B	<p><u>PRIME COST RATES</u></p> <p>Where description of items include a P.C. rate per unit this rate is to cover the nett supply of the unit only. The Contractor's price must include for the cost of the unit at the rate stated, plus waste, taking delivery, storage, fixing in position, profit and overheads.</p> <p>The actual nett cost per unit will be adjusted within the Final Account against the P.C. rate stated.</p>	
	Preliminaries	KShs.
	Carried to collection	

Signature

	Shs.			
<p>A <u>PROTECTION</u></p> <p>The Contractor shall cover up and protect from damage, including damage from inclement weather, all finished work and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Project Manager until the completion of the Contract, and carefully preserve all trees or bushes on or near the Site.</p>				
<p>B <u>CLEANING</u></p> <p>The Contractor shall, upon completing of the Works, at his own expense, remove and clear away all surplus excavated materials, plant, rubbish and unused materials and shall leave the whole of the Site and Works in a clean and tidy state to the satisfaction of the Project Manager, including clearing away and making good all traces of temporary access roads, offices, sheds camps, etc. Particular care shall be taken to leave clean all floors and windows and to remove all rubbish and dirt as it accumulates. The Contractor is to find his own dump and shall pay all charges in connection therewith.</p>				
<p>C <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 Training Levy on all Contracts of more than 50,000/- in value and his Tender must include for all costs arising therefrom.</p>				
<p>D <u>STANDARD LEVY (STANDARDS ACT- CAP 496)</u></p> <p>The Contractor's attention is drawn to legal Notice No. 267 of 2nd June, 1990 which requires payment by the Contractor of the Standards Levy at a rate of 0.2% of the contract sum less allocation for prime cost sums and provisional sums, subject to a ceiling of KShs. 400,000.00 per annum. The Contractor must therefore include for all costs (if any) arising or resulting therefrom.</p>				
<p>E <u>NATIONAL CONSTRUCTION AUTHORITY LEVY (NCA)</u></p> <p>NCA levy, where applicable shall be paid by Kenya Power directly to the Authority and contractors SHOULD NOT price for this.</p>				
<p>E <u>DEVELOPMENT APPROVALS</u></p> <p>The contractor shall allow for all necessary National construction Authority (NCA), county government permits & approvals with regard to these works. No claim for failure to comply with county governments requirements shall be entertained Allow for all necessary permits/approvals by National construction Authority (NCA the County Government of (Nyeri)</p>				
<p>F <u>VALUE ADDED TAX</u></p> <p>The Contractor's attention is drawn to the Finance Act 1993 and subsequent amendments thereof which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered. Whether VAT is added at the grand summary</p> <table border="0" data-bbox="236 1758 1276 1792"> <tr> <td>Preliminaries</td> <td>Carried to collection</td> <td>KShs.</td> </tr> </table>	Preliminaries	Carried to collection	KShs.	
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COLLECTION

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PRELIMINARIES

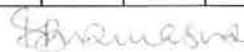
TO GRAND SUMMARY
AT END OF BILLS

KSHS.

Preliminaries

S. Branson

PROPOSED CABLE REWINDING MACHINE SHED AT LANET DEPOT - NAKURU						
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS	CTS
	ELEMENT NO. 1					
	<u>SUBSTRUCTURE (ALL PROVISIONAL)</u>					
	<u>Site clearance</u>					
A	Clear the site off grass, shrubs and all vegetation; and cart away.	103	SM			
	<u>Excavations</u>					
	<u>Over-site excavations: 100-200mm depth, load and deposit as instructed by the project manager.</u>					
B	Reducing levels; 200mm	16	SM			
C	Excavate for strip footing trenches n.e. 1.5m deep	24	CM			
D	Extra-over all excavation for excavating in rock irrespective of class.	5	CM			
E	Level bottom of foundations to receive blinding	18	SM			
F	Return, fill and ram selected imported materials around foundations.	16	CM			
G	Remove and cartaway surplus excavated materials.	8	CM			
	<u>Disposal of water</u>					
H	Keeping all excavations free from all water including spring or running water.		ITEM			
	<u>Planking and strutting</u>					
J	Uphold the sides of excavations as necessary		ITEM			
	<u>Filling</u>					
K	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness to PM's satisfaction approval.	27	CM			
L	25mm (Average) thick quarry dust blinding to surfaces of hardcore.	103	SM			
	<u>Anti-termite treatment</u>					
M	Premise 200 SC or other equal and approved anti-termite insecticide treatment with ten years warranty, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls.	103	SM			
	<u>Concrete</u>					
	<u>Insitu concrete; reinforced; class 20/(20mm); vibrated</u>					
N	Strip footing	5	CM			
	<i>Total arrived to collection</i>					



ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS	CTS
	<u>Reinforcement.</u> <u>Bars; high yield steel; cold worked to B.S. 4461 and hot rolled to B.S. 4449 including bends, hooks, tying wire and distance blocks</u>					
A	In assorted reinforcements of various sizes.	242	Kg			
	<u>Fabric; B.S. 4483</u>					
B	Reference A142 mesh 200x200mm, weight 2.22kgs pers square meter (Measured net - no allowance made for laps (Including bends, tying wire and distance blocks).	103	SM			
	<u>Walling</u>					
C	200mm thick natural stone foundation stone walling bedded in cement/sand (1:4) mortar.	58	SM			
	<u>Sawn forwork to insitu concrete as described:-</u>					
D	To sides; vertical or battering of foundations, ground beams or the like.	45	SM			
	<u>Edges of ground floor slab 75 -150mm wide</u>					
E	Edges of ground floor slab 75 -150mm wide	56	LM			
	<u>Damp proofing</u>					
F	Polythene sheet; 1000 gauge, 200mm welted laps (No allowance made to laps), horizontal; 1No layer laid on compacted quarry dust blinding (M.S).	103	SM			
	<u>200mm wide; B.S. 743 type A bitumen hessian base 150mm laps (no allowance made for laps); horizontal, 1no. Layer, bedded in cement sand (1:3) mortar.</u>					
G	200mm wide; B.S. 743 type A bitumen hessian base 150mm laps (no allowance made for laps); horizontal, 1no. Layer, bedded in cement sand (1:3) mortar.	30	LM			
	<u>Insitu finishing</u>					
H	14mm thick 2No. Coatwork cement sand (1:3) render; wood floated to concrete or block base to walls;	7	SM			
	<u>Painting and decorations</u>					
	<u>Prepare and apply three coats bituminous paint to:-</u>					
J	Wood floated rendered plinths over 300mm girth.	7	SM			
	<u>Total carried to collection</u>					

J. M. M. M. M. M.

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	ELEMENT NO. 2				
	<u>MILD STEEL SUPERSTRUCTURE</u>				
	<u>Unframed Steelwork</u>				
A	100x100x4mm RHS mainframe built concrete or masonry; all connections welded and ground smooth with and including one coat primer before fixing; all necessary plates; cleats and the like; as necessary	62	LM		
	<u>METAL WORK</u>				
	<u>Shs steel burglar proofing at 150mm centres; vertical ends welded and ground smooth.</u>				
B	25x25x3mm bars welded and ground smooth to approval	110	SM		
	<u>Painting and Decorations</u>				
	<u>Metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or equal and approved.</u>				
C	Surfaces of metal over 300mm girth (burglar proofing grills and framings)	110	SM		
D	150mm thick machine dressed natural stone walling in cement/sand (1:4) mortar	65	SM		
	<i>Total carried to collection</i>				

Signature

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>ELEMENT NO. 3</u>				
	<u>ROOFING CONSTRUCTION & COVERING</u>				
	<u>Roof covering.</u>				
	<u>Galvanised IT5 box profile iron sheets; gauge 28; pre-painted.</u>				
A	Supply and fix Gauge 28 gauge IT5 roofing sheet factory pre-painted fixed in 75x50mm cypress fascia purlins (M.S) to approved standards and color laid with 94mm side laps and 300mm end laps.	198	SM		
	<u>Accessories, Fixing as necessary to roof sheets.</u>				
B	150mm dia. Half round ridge sheet	38	LM		
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress timber trusses, bolted, bolted connections; to detail; hoisting approximately 3000mm above ground level.</u>				
C	100x50mm rafters	120	LM		
D	100x50mm ceiling joist	84	LM		
E	75x50mm struts and ties	75	LM		
F	100x50mm king post	16	LM		
G	100x50mm wall plate rag-bolted at 1200mm/c with 12mm dia	44	LM		
H	50x50mm purlins	128	LM		
	<u>The following in wrot cypress.</u>				
J	200x25mm thick fascia and barge boards	50	LM		
	<u>RAIN WATER GOODS</u>				
K	24Gx150x120mm box gutter GCI pre-painted	39	LM		
L	Extra over ditto for stopped ends	8	NO		
M	Ditto for nozzle outlets	2	NO		
N	140mm diameter gutter support brackets spaced at 200mm centres	20	NO		
P	24GX100X100 box GCI rain water down pipe with clips mounted on masonry wall 900mm centres.	27	LM		
Q	Extra over ditto for swan neck.	2	NO		
R	Ditto for shoe	2	NO		
	<i>Carried to Collection</i>				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
A	<p>ELEMENT NO. 4</p> <p><u>DOORS</u></p> <p>Fabricate and fix half panel half grill double-leaf door overall size 4500x2400mm high in RHS framing size 50x25x3mm thick and G16 M.S. plate panel infills; hung at three points both sides in metal lugs built in 100x100x10mm RHS (MS) columns and including padbolts, towerbolts and means of securing as necessary and apply two coats red-lead oxide primer before fixing and two coats of gloss oil paint as "Crown Berger" to PM's approval and satisfaction</p>	2	NO		
<i>Total carried to collection</i>					

Shamirwa

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>ELEMENT 7</u>				
	<u>FINISHES</u>				
	<u>Internal Floor.</u>				
A	25mm thick cement/sand (1:3) colored screed.	102	SM		
	<u>Ramp.</u>				
B	150mm thick ramp slab including forming groovelines 12x12mm at 200mm centres.	1	CM		
	<u>ELECTRICAL WORK.</u>				
C	Supply and fix 4200mm LED fitting complete with tube as Power point installation with 15mm ² diameter conduit and wiring	8	NO		
D	Supply and fix 3-phase four way distribution board complete with 40A, 32A, 20A and 10Amps breakers with earthing.	1	NO		
E	Supply and fix double industrial socket outlets	2	NO		
F	Supply and fix 12mm ² three phase cable fixed to the floor slab	21	LM		
<i>Total carried to collection</i>					

Signature

ELE NO	TITLE			PAGE NO.	KSHS.	
1	SUB-STRUCTURE (ALL PROVISIONAL)			1&2		
2	MILD STEEL SUPERSTRUCTURE			3		
3	ROOF CONSTRUCTION AND RAIN WATER GOODS			4		
4	DOORS			5		
6	FINISHES			6		
SUB-TOTAL						
16% VAT						
GRAND TOTAL						

J. B. Amis

PROPOSED CABLE REWINDING MACHINE SHED AT LANET DEPOT - NAKURU						
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS	CTS
	ELEMENT NO. 1					
	<u>SUBSTRUCTURE (ALL PROVISIONAL)</u>					
	<u>Site clearance</u>					
A	Clear the site off grass, shrubs and all vegetation; and cart away.	103	SM			
	<u>Excavations</u>					
	<u>Over-site excavations: 100-200mm depth, load and deposit as instructed by the project manager.</u>					
B	Reducing levels; 200mm	16	SM			
C	Excavate for strip footing trenches n.e. 1.5m deep	24	CM			
D	Extra-over all excavation for excavating in rock irrespective of class.	5	CM			
E	Level bottom of foundations to receive blinding	18	SM			
F	Return, fill and ram selected imported materials around foundations.	16	CM			
G	Remove and cartaway surplus excavated materials.	8	CM			
	<u>Disposal of water</u>					
H	Keeping all excavations free from all water including spring or running water.		ITEM			
	<u>Planking and strutting</u>					
J	Uphold the sides of excavations as necessary		ITEM			
	<u>Filling</u>					
K	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness to PM's satisfaction approval.	27	CM			
L	25mm (Average) thick quarry dust blinding to surfaces of hardcore.	103	SM			
	<u>Anti-termite treatment</u>					
M	Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years warranty, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls.	103	SM			
	<u>Concrete</u>					
	<u>In situ concrete; reinforced; class 20/(20mm); vibrated</u>					
N	Strip footing	5	CM			
	<i>Total arried to collection</i>					

B. M. M. M. M.

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS	CTS
	<u>Reinforcement.</u> <u>Bars; high yield steel; cold worked to B.S. 4461 and hot rolled to B.S. 4449 including bends, hooks, tying wire and distance blocks</u>					
A	In assorted reinforcements of various sizes.	242	Kg			
	<u>Fabric; B.S. 4483</u>					
B	Reference A142 mesh 200x200mm, weight 2.22kgs per square meter (Measured net - no allowance made for laps (Including bends, tying wire and distance blocks).	103	SM			
	<u>Walling</u>					
C	200mm thick natural stone foundation stone walling bedded in cement/sand (1:4) mortar.	58	SM			
	<u>Sawn forwork to insitu concrete as described:-</u>					
D	To sides; vertical or battering of foundations, ground beams or the like.	45	SM			
E	Edges of ground floor slab 75 -150mm wide	56	LM			
	<u>Damp proofing</u>					
F	Polythene sheet; 1000 gauge, 200mm welted laps (No allowance made to laps), horizontal; 1No layer laid on compacted quarry dust blinding (M.S).	103	SM			
G	200mm wide; B.S. 743 type A bitumen hessian base 150mm laps (no allowance made for laps); horizontal, 1no. Layer, bedded in cement sand (1:3) mortar.	30	LM			
	<u>Insitu finishing</u>					
H	14mm thick 2No. Coatwork cement sand (1:3) render; wood floated to concrete or block base to walls;	7	SM			
	<u>Painting and decorations</u>					
	<u>Prepare and apply three coats bituminous paint to:-</u>					
J	Wood floated rendered pinths over 300mm girth.	7	SM			
	<i>Total carried to collection</i>					

H. M. M. M. M. M.

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	ELEMENT NO. 2				
	<u>MILD STEEL SUPERSTRUCTURE</u>				
	<u>Unframed Steelwork</u>				
A	100x100x4mm RHS mainframe built concrete or masonry; all connections welded and ground smooth with and including one coat primer before fixing; all necessary plates; cleats and the like; as necessary	62	LM		
	<u>METAL WORK</u>				
	<u>ShS steel burglar proofing at 150mm centres; vertical ends welded and ground smooth.</u>				
B	25x25x3mm bars welded and ground smooth to approval	110	SM		
	<u>Painting and Decorations</u>				
	<u>Metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or equal and approved.</u>				
C	Surfaces of metal over 300mm girth (burglar proofing grills and framings)	110	SM		
D	150mm thick machine dressed natural stone walling in cement/sand (1:4) mortar	65	SM		
<i>Total carried to collection</i>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>ELEMENT NO. 3</u>				
	<u>ROOFING CONSTRUCTION & COVERING</u>				
	<u>Roof covering</u>				
	<u>Galvanised IT5 box profile iron sheets; gauge 28; pre-painted.</u>				
A	Supply and fix Gauge 28 gauge IT5 roofing sheet factory pre-painted fixed in 75x50mm cypress fascia purlins (M.S) to approved standards and color laid with 94mm side laps and 300mm end laps.	198	SM		
	<u>Accessories, Fixing as necessary to roof sheets</u>				
B	150mm dia. Half round ridge sheet	38	LM		
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress timber trusses, bolted, bolted connections; to detail; hoisting approximately 3000mm above ground level.</u>				
C	100x50mm rafters	120	LM		
D	100x50mm ceiling joist	84	LM		
E	75x50mm struts and ties	75	LM		
F	100x50mm king post	10	LM		
G	100x50mm wall plate rag-bolted at 1200mm/c with 12mm dia	44	LM		
H	50x50mm purlins	128	LM		
	<u>The following in wrot cypress</u>				
J	200x25mm thick fascia and barge boards	50	LM		
	<u>RAIN WATER GOODS</u>				
K	24GX150x120mm box gutter GCI pre-painted	39	LM		
L	Extra over ditto for stopped ends	8	NO		
M	Ditto for nozzle outlets	2	NO		
N	140mm diameter gutter support brackets spaced at 200mm centres	20	NO		
P	24GX100X100 box GCI rain water down pipe with clips mounted on masonry wall 900mm centres.	27	LM		
Q	Extra over ditto for swan neck.	2	NO		
R	Ditto for shoe	2	NO		
	<u>Carried to Collection</u>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<p>ELEMENT NO. 4</p> <p><u>DOORS</u></p> <p>A Fabricate and fix half panel half grill double-leaf door overall size 4500x2400mm high in RHS framing size 50x25x3mm thick and G 16 M.S. plate panel infills; hung at three points both sides in metal lugs built in 100x100x10mm RHS (MS) columns and including padbolts, towerbolts and means of securing as necessary and apply two coats red-lead oxide primer before fixing and two coats of gloss oil paint as "Crown Berger" to PM's approval and satisfaction</p>	2	NO		
	<i>Total carried to collection</i>				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	SIS
	<u>ELEMENT 7</u>				
	<u>FINISHES</u>				
	<u>Internal Floor.</u>				
A	25mm thick cement/sand (1:3) colored screed.	102	SM		
	<u>Ramp.</u>				
B	150mm thick ramp slab including forming groovelines 12x12mm at 200mm centres.	1	CM		
	<u>ELECTRICAL WORK.</u>				
C	Supply and fix 4200mm LED fitting complete with tube as Power point installation with 15mm ² diameter conduit and wiring	8	NO		
D	Supply and fix 3-phase four way distribution board complete with 40A, 32A, 20A and 10Amps breakers with cabling.	1	NO		
E	Supply and fix double industrial socket outlets	2	NO		
F	Supply and fix 12mm ² three phase cable fixed to the floor slab	21	LM		
	<i>Total carried to collection</i>				

BoQ/6

ELE NO	TITLE			PAGE NO.	KSHS.	
1	SUB-STRUCTURE (ALL PROVISIONAL)			1&2		
2	MILD STEEL SUPERSTRUCTURE			3		
3	ROOF CONSTRUCTION AND RAIN WATER GOODS			4		
4	DOORS			5		
6	FINISHES			6		
	SUB-TOTAL					
	16% VAT					
	GRAND TOTAL					

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PROPOSED CABLE REWINDING MACHINE SHED AT ELDORET DEPOT						
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS	CTS
	ELEMENT NO. 1					
	<u>SUBSTRUCTURE (ALL PROVISIONAL)</u>					
	<u>Site clearance</u>					
A	Clear the site off grass, shrubs and all vegetation; and cart away.	103	SM			
	<u>Excavations</u>					
	<u>Over-site excavations: 100-200mm depth, load and deposit as instructed by the project manager.</u>					
B	Reducing levels; 200mm	16	SM			
C	Excavate for strip footing trenches n.e. 1.5m deep	24	CM			
D	Extra-over all excavation for excavating in rock irrespective of class.	5	CM			
E	Level bottom of foundations to receive blinding	18	SM			
F	Return, fill and ram selected imported materials around foundations.	16	CM			
G	Remove and cartaway surplus excavated materials.	8	CM			
	<u>Disposal of water</u>					
H	Keeping all excavations free from all water including spring or running water.		ITEM			
	<u>Planking and strutting</u>					
J	Uphold the sides of excavations as necessary		ITEM			
	<u>Filling</u>					
K	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness to PM's satisfaction approval.	27	CM			
L	25mm (Average) thick quarry dust blinding to surfaces of hardcore .	103	SM			
	<u>Anti-termite treatment</u>					
M	Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years warranty, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls.	103	SM			
	<u>Concrete</u>					
	<u>Insitu concrete; reinforced; class 20/(20mm); vibrated</u>					
N	Strip footing	5	CM			
	<i>Total arrived to collection</i>					

J. M. M. M. M.

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS	CTS
	<u>Reinforcement.</u> <u>Bars: high yield steel; cold worked to B.S. 4461 and hot rolled to B.S. 4449 including bends, hooks, tying wire and distance blocks</u>					
A	In assorted reinforcements of various sizes.	242	Kg			
	<u>Fabric: B.S. 4483</u>					
B	Reference A142 mesh 200x200mm, weight 2.22kgs per square meter (Measured net - no allowance made for laps (including bends, tying wire and distance blocks).	103	SM			
	<u>Walling</u>					
C	200mm thick natural stone foundation stone walling bedded in cement/sand (1:4) mortar.	58	SM			
	<u>Sawn forwork to insitu concrete as described:-</u>					
D	To sides; vertical or battering of foundations, ground beams or the like.	45	SM			
E	Edges of ground floor slab 75 -150mm wide	56	LM			
	<u>Damp proofing</u>					
F	Polythene sheet; 1000 gauge, 200mm welted laps (No allowance made to laps), horizontal; 1No layer laid on compacted quarry dust blinding (M.S).	103	SM			
G	200mm wide; B.S. 743 type A bitumen hessian base 150mm laps (no allowance made for laps); horizontal, 1no. Layer, bedded in cement sand (1:3) mortar.	30	LM			
	<u>Insitu finishing</u>					
H	14mm thick 2No. Coatwork cement sand (1:3) render; wood floated to concrete or block base to walls;	7	SM			
	<u>Painting and decorations</u>					
	<u>Prepare and apply three coats bituminous paint to:-</u>					
J	Wood floated rendered plinths over 300mm girth.	7	SM			
	<i>Total carried to collection</i>					

Shamano

ITEM	DESCRIPTION	UNIT	QTY	RATE	SIS
	ELEMENT NO. 2				
	<u>MILD STEEL SUPERSTRUCTURE</u>				
	<u>Unframed Steelwork</u>				
A	100x100x4mm RHS mainframe built concrete or masonry; all connections welded and ground smooth with and including one coat primer before fixing; all necessary plates; cleats and tie like; as necessary	62	LM		
	<u>METAL WORK</u>				
	<u>ShS steel burglar proofing at 150mm centres; vertical ends welded and ground smooth.</u>				
B	25x25x3mm bars welded and ground smooth to approval	110	SM		
	<u>Painting and Decorations</u>				
	<u>Metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or equal and approved.</u>				
C	Surfaces of metal over 300mm girth (burglar proofing grills and framings)	110	SM		
D	150mm thick machine dressed natural stone walling in cement/sand (1:4) mortar	65	SM		
	<i>Total carried to collection</i>				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>ELEMENT NO. 3</u>				
	<u>ROOFING CONSTRUCTION & COVERING</u>				
	<u>Roof covering</u>				
	<u>Galvanised IT5 box profile iron sheets; gauge 28; pre-painted.</u>				
A	Supply and fix Gauge 28 gauge IT5 roofing sheet factory pre-painted fixed in 75x50mm cypress fascia purlins (M.S)to approved standards and color laid with 94mm side laps and 300mm end laps.	198	SM		
	<u>Accessories, Fixing as necessary to roof sheets</u>				
B	150mm dia. Half round ridge sheet	38	LM		
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress timber trusses, bolted, bolted connections; to detail; hoisting approximately 3000mm above ground level.</u>				
C	100x50mm rafters	120	LM		
D	100x50mm ceiling joist	84	LM		
E	75x50mm struts and ties	75	LM		
F	100x50mm king post	16	LM		
G	100x50mm wall plate rag-bolted at 1200mmc/c with 12mm dia	44	LM		
H	50x50mm purlins	128	LM		
	<u>The following in wrot cypress</u>				
J	200x25mm thick fascia and barge boards	50	LM		
	<u>RAIN WATER GOODS</u>				
K	24Gx150x120mm box gutter GCI pre-painted	39	LM		
L	Extra over ditto for stopped ends	8	NO		
M	Ditto for nozzle outlets	2	NO		
N	140mm diameter gutter support brackets spaced at 200mm centres	20	NO		
P	24GX100X100 box GCI rain water down pipe with clips mounted on masonry wall 900mm centres.	27	LM		
Q	Extra over ditto for swan neck.	2	NO		
R	Ditto for shoe	2	NO		
	<i>Carried to Collection</i>				

Handwritten signature

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
A	<p>ELEMENT NO. 4</p> <p><u>DOORS</u></p> <p>Fabricate and fix half panel half grill double-leaf door overall size 4500x2400mm high in RHS framing size 50x25x3mm thick and G16 M.S. plate panel infills; hung at three points both sides in metal lugs built in 100x100x10mm RHS (MS) columns and including padbolts,towerbolts and means of securing as necessary and apply two coats red-lead oxide primer before fixing and two coats of gloss oil paint as "Crown Berger" to PM's approval and satisfaction</p>	2	NO		
<i>Total carried to collection</i>					

S. M. M. M. M.

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	ELEMENT 7				
	FINISHES				
	Internal Floor.				
A	25mm thick cement/sand (1:3) colored screed.	102	SM		
	Ramp.				
B	150mm thick ramp slab including forming groovelines 12x12mm at 200mm centres.	1	CM		
	ELECTRICAL WORK.				
C	Supply and fix 4200mm LED fitting complete with tube as Power point installation with 15mm ² diameter conduit and wiring	8	NO		
D	Supply and fix 3-phase four way distribution board complete with 40A, 32A, 20A and 10Amps breakers with earthing.	1	NO		
E	Supply and fix double industrial socket outlets	2	NO		
F	Supply and fix 12mm ² three phase cable fixed to the floor slab	21	LM		
	<i>Total carried to collection</i>				

S. Ramana

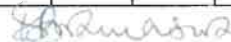
ELE NO	TITLE			PAGE NO.	KSHS.	
1	SUB-STRUCTURE (ALL PROVISIONAL)			1&2		
2	MILD STEEL SUPERSTRUCTURE			3		
3	ROOF CONSTRUCTION AND RAIN WATER GOODS			4		
4	DOORS			5		
6	FINISHES			6		
	SUB-TOTAL					
	16% VAT					
	GRAND TOTAL					

S. Mwangi

PROPOSED CABLE REWINDING MACHINE SHED AT LANET DEPOT - NAKURU						
ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS	CTS
	ELEMENT NO. 1					
	<u>SUBSTRUCTURE (ALL PROVISIONAL)</u>					
	<u>Site clearance</u>					
A	Clear the site off grass, shrubs and all vegetation; and cart away.	103	SM			
	<u>Excavations</u>					
	<u>Over-site excavations: 100-200mm depth, load and deposit as instructed by the project manager.</u>					
B	Reducing levels; 200mm	16	SM			
C	Excavate for strip footing trenches n.e. 1.5m deep	24	CM			
D	Extra-over all excavation for excavating in rock irrespective of class.	5	CM			
E	Level bottom of foundations to receive blinding	18	SM			
F	Return, fill and ram selected imported materials around foundations.	16	CM			
G	Remove and cartaway surplus excavated materials.	8	CM			
	<u>Disposal of water</u>					
H	Keeping all excavations free from all water including spring or running water.		ITEM			
	<u>Planking and strutting</u>					
J	Uphold the sides of excavations as necessary		ITEM			
	<u>Filling</u>					
K	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness to EM's satisfaction approval.	27	CM			
L	25mm (Average) thick quarry dust blinding to surfaces of hardcore.	103	SM			
	<u>Anti-termite treatment</u>					
M	Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years warranty, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls.	103	SM			
	<u>Concrete</u>					
	<u>In situ concrete; reinforced; class 20/(20mm); vibrated</u>					
N	Strip footing	5	CM			
	<i>Total arrived to collection</i>					



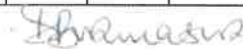
ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS	CTS
	<u>Reinforcement.</u> <u>Bars; high yield steel; cold worked to B.S. 4461 and hot rolled to B.S. 4449 including bends, hooks, tying wire and distance blocks</u>					
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	<u>Fabric; B.S. 4483</u>					
B	Reference A142 mesh 200x200mm, weight 2.22kgs per square meter (Measured net - no allowance made for laps (Including bends, tying wire and distance blocks).	103	SM			
	<u>Walling</u>					
C	200mm thick natural stone foundation stone walling bedded in cement/sand (1:4) mortar.	58	SM			
	<u>Sawn forwork to insitu concrete as described:-</u>					
D	To sides; vertical or battering of foundations, ground beams or the like.	45	SM			
E	Edges of ground floor slab 75 - 150mm wide	56	LM			
	<u>Damp proofing</u>					
F	Polythene sheet; 1000 gauge, 200mm weltd laps (No allowance made to laps), horizontal; 1No layer laid on compacted quarry dust blinding (M.S).	103	SM			
G	200mm wide; B.S. 743 type A bitumen hessian base 150mm laps (no allowance made for laps); horizontal, 1no. Layer, bedded in cement sand (1:3) mortar.	30	LM			
	<u>Insitu finishing</u>					
H	14mm thick 2No. Coatwork cement sand (1:3) render; wood floated to concrete or block base to walls;	7	SM			
	<u>Painting and decorations</u>					
	<u>Prepare and apply three coats bituminous paint to:-</u>					
J	Wood floated rendered plinths over 300mm girth.	7	SM			
	<i>Total carried to collection</i>					



ITEM	DESCRIPTION	UNIT	QTY	RATE	SIIS
	ELEMENT NO. 2				
	<u>MILD STEEL SUPERSTRUCTURE</u>				
	<u>Unframed Steelwork</u>				
A	100x100x4mm KHS mainframe built concrete or masonry; all connections welded and ground smooth with and including one coat primer before fixing; all necessary plates; cleats and the like; as necessary	62	LM		
	<u>METAL WORK</u>				
	<u>ShS steel burglar proofing at 150mm centres; vertical ends welded and ground smooth.</u>				
B	25x25x3mm bars welded and ground smooth to approval	110	SM		
	<u>Painting and Decorations</u>				
	<u>Metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or equal and approved.</u>				
C	Surfaces of metal over 300mm girth (burglar proofing grills and framings)	110	SM		
D	150mm thick machine dressed natural stone walling in cement/sand (1:4) mortar	65	SM		
	<i>Total carried to collection</i>				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>ELEMENT NO. 3</u>				
	<u>ROOFING CONSTRUCTION & COVERING</u>				
	<u>Roof covering.</u>				
	<u>Galvanised IT5 box profile iron sheets; gauge 28; pre-painted.</u>				
A	Supply and fix Gauge 28 gauge IT5 roofing sheet factory pre-painted fixed in 75x50mm cypress fascia purlins (M.S) to approved standards and color laid with 94mm side laps and 300mm end laps.	198	SM		
	<u>Accessories, Fixing as necessary to roof sheets</u>				
B	150mm dia. Half round ridge sheet	38	LM		
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress timber trusses, bolted, bolted connections; to detail; hoisting approximately 3000mm above ground level.</u>				
C	100x50mm rafters	120	LM		
D	100x50mm ceiling joist	84	LM		
E	75x50mm struts and ties	75	LM		
F	100x50mm king post	16	LM		
G	100x50mm wall plate rag-bolted at 1200mm/c with 12mm dia	44	LM		
H	50x50mm purlins	128	LM		
	<u>The following in wrot cypress</u>				
J	200x25mm thick fascia and barge boards	50	LM		
	<u>RAIN WATER GOODS</u>				
K	24Gx150x120mm box gutter GCI pre-painted	39	LM		
L	Extra over ditto for stopped ends	8	NO		
M	Ditto for nozzle outlets	2	NO		
N	140mm diameter gutter support brackets spaced at 200mm centres	20	NO		
P	24GX100X100 box GCI rain water down pipe with clips mounted on masonry wall 900mm centres.	27	LM		
Q	Extra over ditto for swan neck.	2	NO		
R	Ditto for shoe	2	NO		
	<u>Carried to Collection</u>				



ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	ELEMENT NO. 4				
	<u>DOORS</u>				
A	Fabricate and fix half panel half grill double-leaf door overall size 4500x2400mm high in RHS framing size 50x25x3mm thick and G16 M.S. plate panel infills; hung at three points both sides in metal lugs built in 100x100x10mm RHS (MS) columns and including padbolts, tower bolts and means of securing as necessary and apply two coats red-lead oxide primer before fixing and two coats of gloss oil paint as "Crown Berger" to PM's approval and satisfaction	2	NO		
	<i>Total carried to collection</i>				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>ELEMENT 7</u>				
	<u>FINISHES</u>				
	<u>Internal Floor.</u>				
A	25mm thick cement/sand (1:3) colored screed.	102	SM		
	<u>Ramp.</u>				
B	150mm thick ramp slab including forming groovelines 12x12mm at 200mm centres.	1	CM		
	<u>ELECTRICAL WORK.</u>				
C	Supply and fix 4200mm LED fitting complete with tube as Power point installation with 15mm ² diameter conduit and wiring	8	NO		
D	Supply and fix 3-phase four way distribution board complete with 40A, 32A, 20A and 10Amps breakers with earthing.	1	NO		
E	Supply and fix double industrial socket outlets	2	NO		
F	Supply and fix 12mm ² three phase cable fixed to the floor slab	21	LM		
<i>Total carried to collection</i>					

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ELE NO	TITLE			PAGE NO.	KSHS.	
1	SUB-STRUCTURE (ALL PROVISIONAL)			1&2		
2	MILD STEEL SUPERSTRUCTURE			3		
3	ROOF CONSTRUCTION AND RAIN WATER GOODS			4		
4	DOORS			5		
6	FINISHES			6		
	SUB-TOTAL					
	16% VAT					
	GRAND TOTAL					

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PROPOSED CONSTRUCTION OF CABLE REMINDING MACHINE SHEDS

AT EMBU, NAKURU, ELDORET AND KISUMU

GRAND SUMMARY

BILL NO.	DESCRIPTION	Page No.	CONTRACTOR'S USE		OFFICIAL USE	
			K.SHS.	CTS.	K.SHS.	CTS.
1	Preliminaries	P / 15				
2	Embu	BoQ /7				
3	Nakuru	BoQ /7				
4	Eldoret	BoQ /7				
5	Kisumu	BoQ /7				
	SUB-TOTAL					
	Add: VAT (16%)					
	GRAND TOTAL	K.SHS.				

Amount in words:

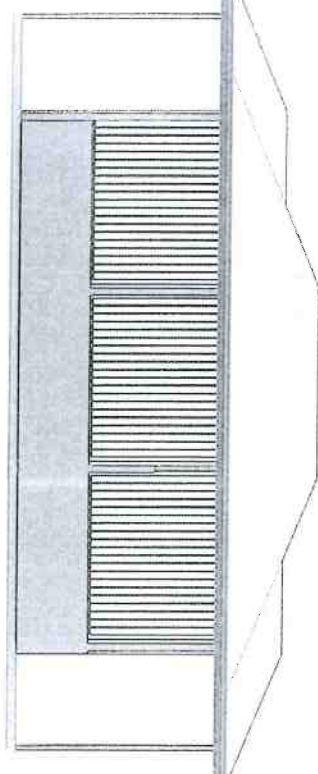
Kenya Shillings

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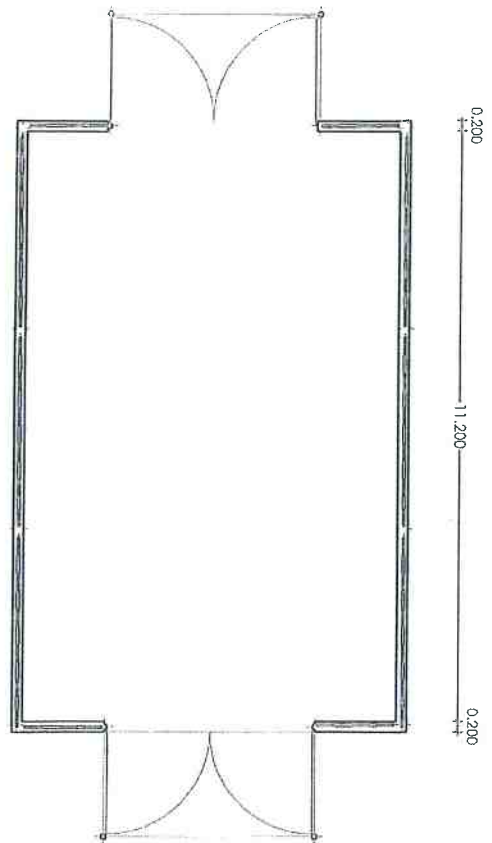
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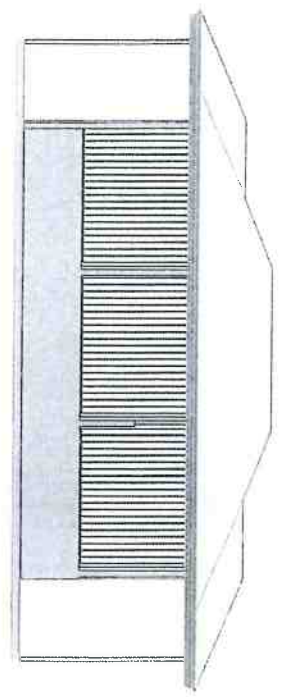
J. M. Mwangi



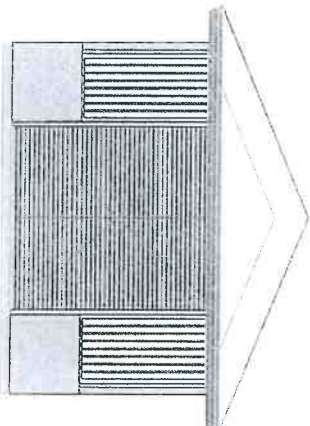
SOUTH ELEVATION



CABLE REWINDING MACHINE SHED



NORTH ELEVATION



EAST ELEVATION

H.A. Namakwa

Revision History	
Row#	Drawn / Checked Name

CABLE REWINDING MACHINE SHEDS	
Drawing Name	CABLE REWINDING MACHINE SHED
Drawing Status	DRAFTING
Modified by	Dunstan Namakwa
Checked by	Nicholas Kiegora
Date	06/02/2017
Drawing Scale	1:100
Layout ID	Lay 01
Revision	Rev 01

