

		BQ AMOUNT
<u>PRELIMINARIES</u>		
<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"	
	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>	
	The site is located at the Kenya Power 132 Kv Sub station in Nyeri County in Mount Kenya region. The substation lies along the Nyeri - Nanyuki highway, about 18 Kilometres from Nyeri town.	
	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.	
	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.	
	The Contractor must obtain the Project Manager's approval and directions regarding the use of any materials found on the site.	
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.	

		KShs.
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;</p> <ul style="list-style-type: none"> a) Construction of office block b) Construction of workshop shed c) Paving works d) Construction of a bio-digester e) Construction of washrooms <p><u>Services</u></p> <ul style="list-style-type: none"> a) The services include installation/suuply/connection of electricity and water. 	
Preliminaries	Carried to collection	KShs.

		KShs.
<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.	
B	<u>STAMP CHARGES</u> The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety and Contract Agreement.	
C	<u>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.

		KShs.
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>	
	Preliminaries	Carried to collection KShs.

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>	KShs.
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 KShs.</p>

	<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> <p>A <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> <p>B <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> <p>C <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>	<p>KShs.</p>
Preliminaries	Carried to collection	KShs.

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. 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> <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> <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> <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> <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>	KShs.
Preliminaries	Carried to collection.	KShs.

	<p><u>MATERIALS AND WORKMANSHIP</u></p> <p>A <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> <p>B <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> <p>C <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> <p>D <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>	<p>KShs.</p>
Preliminaries	Carried to collection	KShs.

	<p>A <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> <p>B <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>	<p>KShs.</p>
Preliminaries	Carried to collection	KShs.

	<p><u>TEMPORARY WORKS</u></p> <p>A <u>OFFICE AND SHEDS</u> 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> 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>KShs.</p>
	<p>Preliminaries</p>	<p>Carried to collection</p>
	<p>KShs.</p>	

		KShs.
A	<p><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>	
B	<p><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>	
C	<p><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>Preliminaries</p> <p style="text-align: right;">Carried to collection</p>	KShs.

		KShs.
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>	
	<p>Preliminaries</p>	<p>Carried to collection</p>
		KShs.

	<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> <p>A <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> <p>B <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>	<p>KShs.</p>
	<p>Preliminaries</p> <p>Carried to collection</p>	<p>KShs.</p>

		KShs.
A	<p><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>	
B	<p><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>	
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 Training Levy on all Contracts of more that 50,000/- in value and his Tender must include for all costs arising therefrom.</p>	
D	<p><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>	
E	<p><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>	
E	<p><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 Allow for all necessary permits/approvals by National construction Authority (NCA</p>	
F	<p><u>VALUE ADDED TAX</u></p> <p>The Contractor's attention is drawn to the Finance Act 1993 and subsequent ammendments thereof which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered. Whether VAT is added at the grand</p>	
	<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>	

COLLECTION

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PRELIMINARIES

**TO GRAND SUMMARY
AT END OF BILLS**

KSHS.

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
A	Excavation for strip footing trenches commencing stripped level n.e. 1.5 m deep	46	CM		
B	Load cart away surplus excavated material away from site and dispose to areas designated by county council.	29	CM		
C	Return, fill and ram selected materials around foundations.	17	CM		
	<u>Diposal of water</u>				
D	Keeping all excavations free from all water including spring or running water	1	Item		
	<u>Planking and strutting</u>				
E	Uphold the sides of all excavations	1	Item		
F	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness	114	SM		
G	50mm (average) thick quarry dust blinding to surfaces of hardcore	114	SM		
	<u>Antitermite treatment</u>				
H	Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	114	SM		
	<u>Concrete</u>				
	<u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u>				
J	Strip footing	12	CM		
K	150mm thick bed	114	SM		
	<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>				
L	In assorted reinforcement of various sizes	1200	KG		
	<u>Fabric; B.S. 4483</u>				
M	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter measured net - (including bends,laps, tying wire and distance blocks)	114	SM		
Total Carried to Collection					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Walling</u>				
A	200 mm thick natural stone foundation walling bedded in c/s mortar including hoop iron in alternate courses	86	SM		
	<u>Sawn formwork to insitu concrete as described:-</u>				
B	To sides; vertical or battering of foundations	38	SM		
C	Edges of ground floor slab; 75 to 150mm wide	60	LM		
	<u>Damp proofing</u>				
D	Polythene sheet; 1000 gauge, 200mm welted laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding	114	SM		
E	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	96	LM		
F	Ditto but 100mm	10	LM		
	<u>Insitu Finishings</u>				
G	15mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	43	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
H	Wood floated rendered plinths over 450mm girth	43	SM		
	<u>RC SUPERSTRUCTURE</u>				
	<u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u>				
J	Beams	6	CM		
	<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>				
K	In assorted reinforcement of various sizes	600	KG		
	<u>Sawn formwork to insitu concrete as described:-</u>				
L	To sides and soffits of beams	77	SM		
<i>Total Carried to Collection</i>					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	WALLING <u>Precast concrete grade 20(12mm aggregate) including formwork, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in cement and sand (1:3) mortar</u>				
A	WINDOW CHILL: 250 x 50 mm extreme height; once weathered; once throated; reinforced as necessary for handling; surface fair finish 275 mm girth; bedding, jointing and pointing in cement sand (1:3) mortar	33	LM		
	MACHINE CUT STONE WALLING				
B	200 mm thick approved local; machine cut stone walling; bedding, jointing and pointing in cement sand (1:3) mortar	220	SM		
C	100mm thick ditto	20	SM		
D	Extra over horizontal pointing in av. 18mm thick square tube in cement and sand (1:3) mortar; one coat of bituminous paint.	220	SM		
	ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL				
	<u>Roof covering.</u>				
	<u>Pre Painted BP IT5 iron sheets; 28 gauge</u>				
E	Roof covering; 150mm laps both sides; and fixing to cypress timber purlins (ms) on cypress timber trusses (m/s) at 1200mm c/c all laid to fall at 22.5°	221	SM		
	<u>Accessories, fixing as necessary to roof sheets</u>				
F	Av. 5000 mm wide ridge cap	26	LM		
	Supply & fix the following in wrot cypress				
G	100x75mm sawn treated celcured cypress rafters	136	LM		
H	Ditto struts and ties	160	LM		
J	Ditto tie beam	96	LM		
K	Ditto wall plate including fixing bolts to ring beam	50	LM		
L	100x50mm purlins	250	LM		
M	50x50mm in brandering	600	LM		
N	200 x 25mm thick fascia	70	LM		
P	Approved eaves timber boarding or any other equal and approved ceiling board secret fixed to and including 50 x 50mm celcured wrot cypress bearers or brandering at 600mm centres	60	SM		
Total Carried to Collection					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>RAINWATER DISPOSAL</u> The following in heavy duty uPVC, corrosion and heat resistance				
A	200mm diameter uPVC gutter including gutter joint bracket, bracket, twin recessed thermo rubber seals, clip lock, joints in the running length fixed to fascia board with and including gutter support brackets at approved centers	51	LM		
B	Extra; for 100mm diameter outlet; 100mm long	4	NO		
C	100mm diameter rainwater downpipe fixed with and including downpipe clip and connectors at 900mm centres, plugged and screwed to wall	18	LM		
D	Extra; swan neck bend with 1135mm projection	4	No		
E	Extra; horse shoe bend encased in concrete surround	4	No		
	<u>Painting and Decorations</u> <u>On Woodwork</u>				
	<u>Prepare and apply one zinc plumbate primer and three coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-</u>				
F	Fascias and barge boards; 200 to 300mm girth; external	70	LM		
	<u>DOORS</u> <u>METAL WORK - PURPOSE - MADE UNITS</u> <u>Mild steel casement doors; 100 x 50 x 3mm thick frame plugged to concrete or blockwork with 100mm long fishtailed 25 x 25 x 2mm thick angle section, 50 x 50 x 3mm thick angle section frames at 300mm centres both sides, angles cut, mitred and welded; panels infilled with glazing (m/s), one coat manufacturer's primer, complete with all necessary ironmongery; all welding ground to smooth finish</u>				
G	Single door; 1000 x 2400mm high, complete; including purpose made hinges	2	No.		
	<u>Prepare and apply three coats of gloss paint to:-</u>				
H	Metal surfaces girth exceeding 300mm	20	SM		
	<u>TIMBER DOORS</u> <u>Wrot mahogany framings</u>				
J	200 x 38 mm; 4 No. labours; plugged door frame	57	LM		
K	100 x 38mm architraves with 4 No. labours	104	LM		
L	38 x 38mm quadrants with 3 No. labours	104	LM		
	<u>50mm Thick solid core flush doors to B.S 459: part 2 with quality mahogany facing and lipped on all edges in mahogany</u>				
M	Door; overall size 900 x 2100 mm high	10	NO		
N	6mm thick clear sheet glazing fixed light including timber biddings as necessary	1	SM		
	<u>Iron mongery</u> <u>Supply and fix the following to 'UNION' catalogue or other equal and approved</u>				
P	Three lever mortice lock complete with set lever brass handle furniture	3	NO		
Q	100mm brass butt hinges	12	PRS		
R	Rubber door stop complete with 38 mm rawl bolt	10	NO		
S	Indicator bolt	10	NO		
	Total Carried to Collection				

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and Decorations</u> <u>On wood</u> <u>Aluminium primer or other equal and approved wood primer before fixing:-</u>				
A	Backs of frame, board, etc over 100mm but not exceeding 200mm girth <u>Knot, prime and stop; prepare and apply polyurethane clear varnish</u>	161	LM		
B	General surfaces of timber doors over 300mm girth; external	40	SM		
C	Frames; over 100mm but not exceeding 200mm girth; internal	210	LM		
	<u>WINDOWS</u> <u>Vertical blinds</u>				
D	Supply and fix high quality fabric "Vanetian" window curtain blinds or equal and approved 1700mm high including 25 x 25mm pvc tracks secured to 50x25mm timber fixed to concrete and/or masonry all complete with necessary accessories	20	LM		
	<u>MILD STEEL WINDOW CASEMENT</u> <u>Mild steel casement windows; to details as directed in</u>				
E	Size 4000 x 1500 mm high	3	NO		
F	Ditto size 3000 x 1500 mm high ditto	2	NO		
G	Ditto size 2100 x 1500 mm high	3	NO		
H	Ditto size 1500 x 1500 mm high	1	NO		
J	Ditto size 1200 x 900 mm high	3	NO		
K	Ditto size 600 x 900 mm high	6	NO		
	<u>Glazing</u> <u>Sheet glass panes over 0.5 but not exceeding 0.5 square meters; fixing rubber</u> <u>lining</u>				
L	5mm thick clear glass sheet	41	SM		
M	Ditto but obscure	4	SM		
	<u>Grills</u> <u>High tensile steel burglar proof bars at 150mm cross centres horizontal and</u> <u>vertical; ends lugged in masonry; Approved KPLC grill corporate design.</u>				
N	25x25mm SHS welded and ground smooth to approval.	45	SM		
P	Supply & fix approved brass window stay	26	NO		
Q	Ditto window fastener	20	NO		
Total Carried to Collection					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>Insitu finishes</u>				
	<u>Render; 15mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
A	<u>Beds and backings</u> Beams ; external	25	SM		
B	15mm thick walls internal to receive wall tiles (ms)	100	SM		
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base generally to: -</u>				
C	Walls, beams; internal	240	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and three coats of first quality silk vinyl paint to: -</u>				
D	Plastered surfaces	240	SM		
E	300x200x6mm thick ceramic matt finish wall tiling as "SAJ CERAMICS" or equal and approved including approved border tile and grouting in matching colours	100	SM		
	<u>Floor finishes</u>				
	<u>Cement sand screed with approved colour.</u>				
F	32mm thick cement sand backing to receive tiles	114	SM		
G	400x400x8mm thick ceramic non-slip floor tiling as "SAJ CERAMICS" or equal and approved including grouting	114	SM		
H	Ditto in 100mm wide skirting; rounded junction with wall finish, coved junction with floor finish	80	LM		
J	Aluminium corner strip	80	LM		
	<u>Ceiling finishes</u>				
	<u>Wrot cypress</u>				
K	150 x 25mm moulded cornice	60	LM		
	<u>PLAIN SHEET FINISHINGS</u>				
	<u>Chip board</u>				
L	12mm thick chip board fixed to brandering including 3 no inspection doors as necessary	114	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply one undercoat and three coats of first quality emulsion paint to the following surfaces</u>				
M	To wood surfaces not exceeding 100mm girth	60	LM		
N	Chip board surfaces	114	SM		
Total Carried to Collection					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
PLUMBING AND DRAINAGE					
Supply and fix					
A	20mm diameter PPR pipe including all necessary excavation, disposal and refiling, chasing in wall and making good and all associated pipe jointing fittings both in rising main, supply and overflow	100	LM		
B	Ceramic wash-hand basin as twyfords or equal and approved complete with mixer tap, waste out plug&chain and pedestal	4	NO		
C	Ditto water closet ditto suite comprising pan,heavy duty plastic seat & cover, ceramic cistern, flush pipe,	4	NO		
D	1450x520mm SB DD stainless steel sink complete with kitchen mixer tap, waste out plug & chain	1	NO		
Urinal					
E	Twyfords elifton or equal and approved range of 3 (three) consisting of cistern, pipework for range of 3 urinal bowls, twyford dome shape waste, twyford urinal divider	1	NO		
F	Wall mounted clear jumbo tissue holder	4	NO		
G	Ditto 1 (one) litre clear and single chamber soap dispenser	4	NO		
H	Stainless steel standard grab bars	6	NO.		
Drainage					
J	Manhole overall size 600x600x 1000mm deep average including all necessary excavation, disposal and backfilling; 150mm thick block walling,plaster, heavy duty CI cover, concrete base and haunching as necessary	5	NO		
K	110mm diameter uPVC golden brown drain pipe ditto, and mass concrete surround	60	LM		
L	Allow for testing and connection to the existing sewer system		ITEM		
Lofty Tank					
M	Supply and install 920 litres cold water plastic rectangular size 1270x1270x520mm high including approved float switch hoisting into position and all necessary decking in the ceiling space.	3	NO		
N	Ditto 10,000 Litres ditto cylindrical ground mounted including concrete base as directed	1	NO		
The following in High Level Timber Kitchen Cabinet Overall size 4000x300x800mm (LxDxH) supplied and fixed :-					
P	50x25mm thick Plugged mahogany support	4	LM		
Q	20mm thick "PG Bison" boards or equal and approved in sides and partions including cutting and joinery	10	SM		
R	25mm thick solid single panel mahogany cabinet door size 415x800	13	NO		
S	Ditto size 500x500	1	NO		
T	Ditto size 500x750	1	NO		
U	Ditto size 500x650	1	NO		
Iron Mongery					
Supply & fix:-					
V	Approved chrome cabinet door pull handles	24	NO		
W	Approved self-close cabinet hinges	24	PAIR		
<i>Carried to Collection</i>					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>The following for Low level Cabinets; Aver.2400L x 600W x 800 mm high</u>				
	<u>Concrete</u>				
A	Plinth construction; 1:3:6 mass concrete as described in 100mm thick high plinth	2	SM		
B	100mm thick Vibrated Reinforced concrete 1:2:4(Class 20/20) in kitchen Worktop	2	SM		
	<u>Dump proofing</u>				
C	150mm wide bituminous felt DPC bedded in cement sand mortar (1:4)under t	2	LM		
	<u>Walling</u>				
D	100mm thick natural stone walling,dressed,bedded and jointed in cement sand (1:3) mortar; reinforced with hoop iron at alternate courses	2	SM		
	<u>Sawn timber form work to :</u>				
E	Soffit of suspended slab.	2	SM		
F	Edges of worktop 75-150mm girth	3	LM		
	<u>High tensile ribbed bars BS 4461 as described in :</u>				
G	D8	10	KG		
H	20mm thick polished granite slab ground smooth fixed to Kitchen worktop	2	SM		
	<u>External Works</u>				
	<u>Gate:-</u>				
J	Fabricate and fix double-leaf gate overall size 6000x2400mm high in mild steel SHS framing size 40x40x3mm thick and G12 M.S. plate raised panel infills; hung at three points both sides in metal lugs built into concrete columns including padbolts, towerbolts and means of securing as necessary and apply 2 coats red-lead oxide primer before fixing and 3 coats of gloss oil paint first quality to the client's approval including demolition of existing wall and 2 newncolumns for the gate as directed	1	NO		
	<u>Landscaping as Directed on site:-</u>				
K	Excavate oversite not exceeding 200mm deep to remove vegetation, turf and debris, loosen top soil	40	SM		
L	Supply and lay 150mm thick red (top) soil mixed with approved manure in the ratio of 3:1, well water and prepare ground for planting (ms)	50	SM		
M	Supply and plant "Kikuyu" grass seedlings at 100mmcentres both ways, well water and maintain until established	20	SM		
N	Ditto approved " Ground cover" and/or "Creeper" plants at positions and spacings to be directed, ditto	30	NO		
P	Prepare hole, supply and fill with soil:manure 3:1, provide and plant approved shrubs as and where directed, provide shade and cover, well water and maintain until established	20	NO		
Q	Ditto and plant approved tree ditto	6	NO		
<i>Carried to Collection</i>					

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COLLECTION				
A	Collection from Page 1				
B	Collection from Page 2				
C	Collection from Page 3				
D	Collection from Page 4				
E	Collection from Page 5				
F	Collection from Page 6				
G	Collection from Page 7				
H	Collection from Page 8				
Total for office block carried to Grand summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
<u>TRANSPORT SHED</u>					
<u>Excavations and Substructures (All Provisional)</u>					
A	Mechanically excavate to reduce levels commencing from natural ground level to level the surfaces in hard rock irrespective of class and cart away to an approved dumpsite by County Government.				
		CM	520		
B	Excavate pit to receive stanchion bases and strip foundation commencing from reduced ground level but not exceeding 1.50M deep				
		CM	45		
C	Load cart away surplus excavated material away from site and dispose to areas designated by county council.				
		CM	36		
D	Return, fill and ram selected materials around foundations.				
		CM	9		
<u>Concrete.</u>					
<u>Mass Concrete Class X as described</u>					
E	Plain concrete (1:4:8-20mm aggregates) in 50mm thick blinding to stanchion bases and strip foundation				
		SM	40		
<u>Vibrated reinforced concrete class 20/25 1:2:4/25 as described in;</u>					
F	Stanchion bases, stub columns and strip foundation				
		CM	14		
G	200mm thick natural stone walling in c/s (1:3) mortar and hoop iron in ever alternate course				
		SM	98		
H	Assorted reinforcement in Stanchion bases, stub columns and strip foundation				
		KG	1400		
<u>Sawn soft wood formwork to;</u>					
J	Edges of concrete 225-375mm high and sides of stub columns				
		SM	62		
K	200mm thick compacted hardcore filling				
		SM	160		
L	50mm thick murrum blinding				
		SM	160		
M	Approved anti-termite treatment				
		SM	160		
Total carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	BRC mesh fabric reinforcement Ref No. A142	SM	160		
B	Vibrated reinforced concrete class 20/25 (1:2:4/25) in 150mm thick bed slab	SM	160		
C	200mm wide DPC	LM	40		
D	200mm thick dressed natural stone walling in c/s (1:3) mortar and hoop iron in ever alternate course	SM	72		
E	Extra over ditto for sraight key pointing and perpends flush with the wall	SM	72		
F	12mm thick c/s (1:3) plaster	SM	48		
G	12mm thick terrazzo finish including 32mm thick C/S (1:3) backing including diving plastic strips as directed	SM	160		
H	Ditto in 20x100mm high skirting	LM	40		
	<u>All material and workmanship shall conform with the requirement of BS 499 and shall include all necessary cutting, welding, bolting, pinning, lugging and fixing all to clients approval</u>				
J	Supply and fix I beam BS size 303mmx127mmx42kg/M including the base plate as necessary	KG	2500		
K	Ditto 19mm diameter bolt with a flat washer nut diameter 3000mm long including anchor plates as necessary	NO	60		
L	Ditto MS 100x100x5mm x9.2Kg/M thick angle section including the base plate as necessary	KG	230		
	<u>Roofing.</u> <u>The following in 5 No. portal trusses spanning 10.00M and hoisted 6.00M overall high from floor level.</u>				
M	Supply and fix MS 100x50mm x6.71Kg/M rafters	KG	403		
N	Ditto Tie beam	KG	336		
P	Ditto struts and ties	KG	168		
Q	100x50x2mm Z purlins at 1500mm centrs bolted to steel portal frames	LM	136		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	70×70×6mm angle bracings.	KG	750		
B	200 × 6 ×200mm gusset plates	NO	15		
C	Diameter 12×1,500mm long sag rods with 75mm alternation complete with nuts and washers.	NO	18		
D	200 × 2mm thick M.S plate Fascia including welding in postion as directed	LM	60		
E	Prepare and apply 2 coats of red oxide primer and 2 coats of gloss oil paint to all steel work.	SM	200		
F	Supply and fix gauge 28 pre-painted IT5 profile sheets to an approved standard colour laid with 94mm side laps and 150mm minimum end lap fixed to Z purlins including J bolts, washers, nuts and rubber caps at 600mm centers.	SM	212		
	<u>Rain water goods</u>				
G	Supply and fix 180mm half round uPVC gutter including PVC gutter brackets @600mm centres	LM	17		
H	E. O. ditto for joint union	NO	2		
J	E. O. ditto for stopped end	NO	2		
K	E. O. ditto for running outlet	NO	3		
	<u>Down pipes</u>				
L	110mm uPVC pipe including brackets @600mm centres	LM	20		
M	Extra over ditto downpipe for swan neck.	NO	3		
N	Ditto for shoe.	NO	3		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>CABRO PAVING</u>				
A	200mm thick approved hardcore filling to make up levels & compacted mechanically	SM	300		
B	Supply and spread to level 50mm thick quarry dust as blinding to hardcore surfaces.Rate to include surface treatment for vegetation	SM	300		
	<u>Precast Concrete Works</u>				
C	Supply, lay and fix 80mm thick precast concrete paving blocks with a 49 N/mm ² cube crushing strength conforming to BS 6717 part 1 of 1986 or Kebs equivalent including mechanical surface vibration.	SM	300		
D	250x125mm Precast concrete (class 20) kerb with once chamfered edge laid on and including 450 x 100mm plain concrete (1:3:6) foundation haunched up on one side including all necessary excavations formwork etc.	LM	100		
E	Ditto but curved to radii	LM	20		
F	125x100mm precast concrete(Class 20) channels	LM	30		
G	Ditto but curved to radii	LM	20		
	<u>Pre-Cast Concrete Invert Block Drains :-</u>				
H	175 X 800mm shallow invert block drain (600mm overall) (class 20) laid on and including plain concrete (1:3:6) foundation; haunching up; including all necessary excavations formwork and disposal of excess material	LM	30		
	Total carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
WASHROOMS					
Substructures					
A	Excavate for strip foundation commencing from reduced ground level but not exceeding 1.50M deep	CM	24		
B	Load cart away surplus excavated material away from site and dispose to areas designated by city council.	CM	24		
C	Return, fill and ram selected materials around foundations.	CM	9		
Concrete.					
Mass Concrete Class X as described					
D	Plain concrete (1:4:8-20mm aggregates) in 50mm thick blinding to strip foudation	SM	32		
Vibrated reinforced concrete class 20/25 1:2:4/25 as described in;					
E	Strip foundation	CM	4		
F	200mm thick natural stone walling in c/s (1:3) mortar and hoop iron in ever alternate course	SM	68		
G	Assorted reinforcement in Stanchion bases, stub columns and strip foundation	KG	520		
Sawn soft wood formwork to;					
H	Edges of concrete 225-375mm high	SM	12		
J	200mm thick compacted hardcore filling	SM	40		
K	50mm thick murrum blinding	SM	40		
L	Approved anti-termite treatmnet	SM	40		
M	BRC mesh fabric reinforcement Ref No. A142	SM	40		
N	Vibrated reinforced concrete class 20/25 (1:2:4/25) in 150mm thick bed slab	SM	40		
P	150mm wide DPC	LM	42		
Q	200mm thick dressed natural stone walling in c/s (1:3) mortar and hoop iron in ever alternate course	SM	64		
R	150mm thick; ditto	SM	20		
S	12mm thick c/s (1:3) plaster	SM	98		
Total carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	12mm thick terrazzo finish including 32mm thick C/S (1:3) backing including diving plastic strips as directed	SM	56		
B	Ditto in 20x100mm high skirting	LM	42		
C	150X200mm high precast concrete (1:2:4) ring beam including 4NO. Y10 main bars and Y8 rings@ 200mm centres including hoisting and fixing on masonry walling	LM	16		
<u>Doors & windows</u>					
D	Fabricate and fix door overall size 800x2100mm high in mild steel SHS framing size 25x25x3mm thick and G16 M.S. plate raised panels including the door frame, padlocks tower bolts and apply 2 coats red -lead oxide primer before and 3 coats of gloss oil paints first quality and done to the clients approval and satisfaction	NO	1		
<u>Mild steel window casement including approved window grilling, fixing metals lugs into masonry walling two coats red oxide primer;</u>					
E	Size 450x900mm high	NO	4		
F	Ditto size 450x1250mm	NO	1		
G	Ditto but size 450x1200mm	NO	2		
H	Ditto but 900x1450mm	NO	1		
J	Supply & fix approved brass window stay	NO	9		
K	Ditto window fastener	NO	9		
L	Ditto 5mm thick clear sheet glazing including fixing putty	SM	3		
<u>TIMBER DOORS</u>					
<u>framed frames and framings ; hardwood</u>					
M	150 x 50 mm; 4 No. labours; plugged door frame	LM	31		
N	100 x 25mm architraves with 4 No. labours	LM	31		
P	38 x 38mm quadrants with 3 No. labours	LM	31		
Total carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	<p><u>45mm Thick semi-solid core flush pannel doors to B.S 459: part 2 mahogany veneered both sides with internal quality plywood and lipped on all edges in approved hardwood</u></p> <p>Door; overall size 900 x2100 mm high Iron mongery</p> <p><u>Supply and fix the following to UNION catalogue or other equal and approved</u></p> <p><i>To softwood, hardwood or the like fixing with screws</i></p>	NO	8		
B	Two lever ditto	NO	8		
C	<p>100mm steel butt hinges</p> <p><i>To concrete or blockwork; fixing with bolts; plugging</i></p>	PRS	11		
D	<p>Rubber door stop complete with 38 mm rawl bolt</p> <p><u>Painting and Decorations</u></p> <p><u>On wood</u></p> <p><u>Aluminium primer or other equal and approved wood primer before fixing: -</u></p>	NO	7		
E	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	LM	31		
F	<p><u>Ditto n.e 100mm girth</u></p> <p><u>Knot, prime and stop; prepare and apply one undercoat and two coats of mahogany stain varnish</u></p>	LM	62		
G	General surfaces of timber doors over 300mm girth; external	SM	31		
H	Frames; over 100mm but not exceeding 200mm girth; internal	LM	31		
J	Frames not exceeding 100mm girth; internal	LM	62		
K	Prepare and apply one undercoat and two final coats of gloss oil paint to;	SM	87		
L	25mm thick blockboard in bench and worktop surfaces including drilling and fixing to brackets (m/s) and 3 coats gloss oil paint	SM	4		
Total carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	25x25x1.5mm thick mild steel brackets including cutting, welding, drilling holes building into the wall and floor as necessary and three coats gloss oil plant	LM	6		
B	38 x 38mm quadrants with 3 No. labours	LM	31		
Electrical Works					
<u>The following to be supplied & fixed including all necessary wiring (1.5mm in lighting & 2.5mm in power sockets)and conduits;</u>					
<u>WASHROOMS</u>					
C	Two gang One way switch	NO	2		
D	4 way consumer unit complete	NO	1		
E	Meter box	NO	1		
F	Bulk head fitting complete with energy saver lamp	NO	4		
G	1200mm long single LED batten complete with lamp	NO	1		
<u>WORKSHOP</u>					
H	High Power 30W outdoor LED flood light	NO	10		
<u>PLUMBING AND DRAINAGE INSTALLATIONS</u>					
<u>SANITARY FITTINGS</u>					
Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.					
Note:					
(i) All sanitary fittings shall be in approved colour.					
(ii) The Model and Ref No. indicated is only a guide to the type and quality of fittings.					
(iii) Equivalent and Approved models may be acceptable.					
J	S- Trap type ceramic water closet suite complete with high level cistern, flush pipe comprising ceramic cistern, with valve fittings including siphon, side overflow inlet connection, ball valve and reversible chrome plated flushing lever.	NO	2		
Total carried to collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	PWD WC Suit complete with and including grab bars, Arabic shower, WHB, all to approval	NO	1		
	Urinal - Bowl				
B	Twyford clifon urinal range of 2 consisting of, pipework for range of 2, urinal bowl, Twyford dome shape waste, twyford urinal dividers.	NO	2		
C	Asian type ceramic water closet suite complete with ceramic high level cistern, flush pipe comprising squatting pan, ceramic cistern, with valve fittings including siphon, side overflow, inlet connection, ball valve and reversible chrome plated flushing lever.	NO	2		
	Wash hand basin				
D	Wash hand basin as Twyford "Advent 565 Countertop" size 565 x 425mm with one central tap hole Cat. No. AD4531 WH complete with 32mm diameter lift-up waste (No. WF9365CP) and 32mm plastic bottle trap (No. WF8482XX)	NO	4		
E	Self-closing pillar tap , 15mm C.P., non concussive type pegler-Prestex Cat. No.877	NO	4		
F	Toilet bip tap as Cobra No. 206-CP, heavy duty with star handle.	NO	3		
	Toilet Roll Holder				
G	Supply and fix jumbo toilet paper dispensers to hold jumbo toilet rolls, radius approx. 1 ft, in a heavy gauge transparent plastic casement. As per shown	NO	5		
	Hand drier				
H	compatible with 240V/1 phase/50 Hz power supply. To be complete with mounting plate, centrifugal fan, thermal overload 2400watts by spirally wound element, automatic resetting and thermal cutout. As Heatrae sadia or equal and approved.	NO	3		
	Mirrors				
J	5mm thick polished plate glass silver backed mirror with bevelled edges, size 610 x 610mm, plugged and screwed to wall with 4No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam.	NO	3		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	Flexible Tubing 15mm diameter x 300mm long flexible connectors complete with integral chrome plated angle valve for connecting the sanitary fitting to water supply. To be as Cobra or equal and approved.	NO	11		
B	Soap Dispenser Soap Dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete with initial fill of soap gel. The soap dispenser to be as ZALPON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent	NO	3		
KITCHEN					
C	Plinth 1:3:6 mass concrete concrete as described in 100mm thick high plinth in kitchen	SM	4		
D	VRC class(20/20)mix 1:2:4 as described in 100mm thick kitchen worktops	SM	4		
E	32mm cement sand (1:4) screed trowelled hard and smooth and finished with cement grout as described in Surface finish to surface of plinth	SM	4		
F	30mm thick c/s backing to receive granitto tiles (m/s)	SM	6		
<u>work tops</u>					
<u>Approved granito floor tiles to regular or other approved pattern; bedding and jointing in cement sand (1:4) mortar; grouting with matching cement</u>					
G	10mm thick; butt joints both ways; to cement sand base (m/s); to floors level; internal	SM	6		
H	Extra over for forming sinks / basin hole	NO	1		
J	2.5mm thick block board to cabinet 2.4 m long by 400mm wide fixed appropriately to wall for both High level and Low level	LM	6		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	Kitchen top size 3,400 x 600 x 900mm high, with acrylic top including 120mm high back splash and fascia on 25mm thick blockboard including 100mm high fascia; cupboards below and upper in 25mm thick hardwood lipped(painted blockboard; cupboards doors in 20mm malpha hinges (m/s)and 150mm brass handles.(m/s)	NO	1		
	Kitchen sink				
B	Supply and fix Heavy gauge single drain stainless steel kitchen sink including all necessary accessories.	NO	1		
	High Level Cabinets				
	The following in 25mm thick MDF boards, veneered on one side with Mahogany veneer and hardwood lipped on all edges as described.				
C	25mm Thick top, bottom and shelves.	SM	12		
D	25mm Thick sides and divisions.	SM	6		
E	Door size 550 x 600mm high.	NO	8		
F	50 x 25mm Frame/bearers.	LM	28		
	Ironmongery				
	The following in "Union" or other equal and approved ironmongery,				
G	Approved malper hinges.	NO	8		
H	Approved magnetic ball catch.	NO	16		
J	25mm Diameter x 100mm long chrome plated D pull handles.	NO	8		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>INTERNAL PLUMBING.</u>				
	PPR Pipes				
	Supply, deliver and install Polypropylene Random (PP-R) 20 pipework to DIN 8077 with joints, couplings, reducers, tees, adaptors, pipe fixing clips etc all to DIN 16962 and DIN 16928 .Pipe jointing shall be by polyfusion or use of electric coupling. Where pipework is not chased proper anchoring using approved fixtures shall be done. No pipework shall be left exposed to the sun. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers, couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.				
	PPR PIPEWORK				
A	12mm dia pipe	LM	20		
B	25mm -ditto-	LM	60		
	<u>Extra-over PPR pipework for the following:-</u>				
	Bends				
C	12mm -ditto-	NO	25		
D	25mm -ditto-	NO	12		
	Threaded bend				
E	25mmx1/2' threaded bend	NO	10		
	Equal Tees				
F	25mm dia tee	NO	8		
G	12mm dia tee	NO	12		
H	25mmx1/2' threaded tee	NO	26		
J	12mmx1/2' threaded tee	NO	26		
	Unions				
K	25mm	NO	5		
L	12mm	NO	5		
	Reducers				
M	25x12mm reducer	NO	5		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Gate valves				
	25mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 PN 20 for series B rating, with wheel and head joints to steel tubing and complete with round male threaded transition fittings. The gate valve to be as PEGLER or approved equivalent.				
A	32mm -ditto-	NO	3		
B	12mm -ditto-	NO	6		
	Roof Water Storage Tank				
	Supply, deliver and install vertical close end plastic moulded tank of capacity 1000 litres (293gallons) and diameter 1210x 1380mm high. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 50mm medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a platform at the ceiling. or equal & approved				
C		NO	2		
	<u>INTERNAL DRAINAGE</u>				
	Supply, deliver and install the following uPVC and muPVC soil and waste pipework. Bidders must allow in their prices for all the various sizes of connectors, adaptors etc required for the satisfactory functioning of the drainage system				
	<u>uPVC and muPVC pipes</u>				
D	100mm diameter heavy gauge golden brown mUPVC pipe	LM	70		
E	32mm -ditto-	LM	8		
	<u>Extra-over uPVC and muPVC pipework for the following:-</u>				
	Traps				
F	100x50mm dia floor trap	NO	4		
G	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm thick reinforced concrete cover.	NO	6		
	Bends				
H	100mm bend	NO	4		
J	32mm bend	NO	4		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	Sweep tees				
A	100mm dia sweep tee	NO	1		
	Boss connectors				
B	32x12mm boss connector	NO	6		
C	100x50mm bosss connector	NO	2		
	Wc connectors				
D	100mm WC connector	NO	4		
E	Allow for excavation and backfilling of 60m trench	ITEM	1		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	COLLECTION				
	Collection from Page 1				
	Collection from Page 2				
	Collection from Page 3				
	Collection from Page 4				
	Collection from Page 5				
	Collection from Page 6				
	Collection from Page 7				
	Collection from Page 8				
	Collection from Page 9				
	Collection from Page 10				
	Collection from Page 11				
	Collection from Page 12				
	Collection from Page 13				
	Collection from Page 14				
	Total for ground levels, washroom, & w/shop carried to Grand summary				-

ELECTRICAL SUPPLY AND INSTALLATIONS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT Kshs.
A	Supply and install 125A,8- way SPConsumer unit complete with all accessories for flush mounting except the outgoing MCBs.	No.	1		
B	Supply and install sub-mains to the above consumer unit in 10mm ² ,s-core PVC/SWA/PVC copper cable + 6mm ² earth.	Lm.	50		
	<u>Supply and install MCBs to the above distribution board as;</u>				
C	32A SP	No.	1		
D	20A SP	No.	2		
E	10A SP	No.	2		
F	Supply and install 125A,4- way SPConsumer unit complete with all accessories for flush mounting except the outgoing MCBs.	No.	1		
G	<u>Supply and install MCBs to the above distribution board as;</u>				
	20A SP	No.	1		
	10A SP	No.	1		
H	Supply and install radial power point in 3 x2.5mm ² stranded PVC insulated copper conductors drawn in concealed 20mm diameter HG PVC conduits.	Lm.	90		
	<u>Supply and install accessories for the above power point in;</u>				
J	13A twin socket outlet..	No.	10		
K	Supply and install radial power point in 3 x 2.5mm ² single core PVC insulated copper conductors drawn in concealed 20mm diameter HG PVC conduits.	Lm.	40		
	<u>Supply and install accessories for the above power point in;</u>				
L	45A DP switch.	No.	3		
	<i>Carried to Collection</i>				



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	Automatic Hand driers 290 x163 x216mm (mediclinics)	No.	3		
B	Supply and install lighting point in 3 x 1.5mm ² single core PVC insulated copper conductors drawn in concealed 20mm diameter HG PVC conduits. <u>Supply and install 10A switches for the above lighting points in;</u>	Lm.	350		
C	2 gang 2 way	No.	2		
D	3 - gang, 2 - way	No.	3		
E	4 gang 2 way	No.	1		
F	Time switch/ 20 amps photo cell for flood lights	No.	1		
	<u>Supply and install lighting fixtures in;</u>				
G	Lighting fittings-600mm x 600mm LED Panel light fitting(recesed) daylight	No.	6		
H	Lighting fittings-6wts x 11mm dia LED Panel light fitting(recesed) daylight	No.	11		
J	Lighting fittings-1200mm 28W HPF single batten fluorescent luminaire complete with 28 watt LED tubes (frosted) as phillips or equivalent	No.	1		
K	Lighting fittings-1200mm T8 LED water proof fitting IP65 with polycarbonate casing complete with 28 watt LED tubes (frosted) as phillips or equivalent	No.	4		
L	Lighting fittings-100 watts floodlight fitting with the following parameters. Power(w)-60-100frequency 50 HZ-60 HZoperating voltage: AC 85- 265 DC 12/24v LED efficiency(lm/w:80, power supply efficiency>90%,power factor >0.9 coloreding index of :>70, color temperature (k)2700-6500,ambient temperature(;c) 40-50, life span 50000 hrs, IP rating : IP65,weight -12kg and should bemade of high purity alluminium reflector and heat sink ,high intencity tempered glasscover,single powerful LED light source and a high efficiency LED driver.	No.	4		
	<i>Carried to Collection</i>				

Q40

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and install radial power point in 3 x 6.0mm ² single core PVC insulated copper conductors drawn in concealed 20mm diameter HG PVC conduits. <u>Supply and install accessories for the above power point in;</u>	Lm.	8		
B	45A cooker control unit.	No.	1		
C	Cooker connection unit.	No.	1		
<i>Carried to Collection</i>					
ITEM	DESCRIPTION				AMOUNT
A	<u>Collection page</u> Collection from Page 1				
B	Collection from Page 2				
C	Collection from Page above				
TOTAL CARRIED TO GRAND SUMMARY PAGE					



**PROPOSED CONSTRUCTION OF A TRANSPORT WORKSHOP AT KIGANJO - MT. KENYA
REGION**

GRAND SUMMARY PAGE

BILL NO.	DESCRIPTION	Page No.	CONTRACTOR'S USE		OFFICIAL USE	
			K.SHS	CTS	K.SHS	CTS
1	Preliminaries					
2	BUILDER'S WORKS - office block	Page 9				
3	BUILDER'S WORKS - Workshop/Sentry/Ground leveling	Page 15				
	BIO DIGESTER					
	Sub Total					
	Add 16% VAT					
GRAND TOTAL (Vat Incl.) K.SHS						

Amount in words:

Kenya Shillings

.....

Address.....

Date.....

Tenderer's signature and stamp.....

Deyc

PROPOSED KIGANJO TRANSPORT WORKSHOP & OFFICE BLOCK

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>100PAX CAPACITY BIO DIGESTER</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Supply and install biodigester waste treatment system complete with the following items to the satisfaction of the Engineer. The system is expected to treat approximately 13,300 gallons per day(50 cubic metres per day) or 200 persons whichever is higher. The tenderer to submit the technical brochures and working calculations together with the tender for evaluation. Alternative and approved systems utilising packaged systems may be provided</u>				
	<u>Excavation</u>				
A	Excavate pit exceeding 1.50m deep starting from ground level	CM	14		
B	Excavate pit exceeding 1.50m deep but not exceeding 3.0m deep starting from reduced level	CM	14		
C	Ditto 3.0 to 4.5 m deep	CM	9		
D	Extra over excavations for excavating in hardrock	CM	10		
E	Return fill and ram approved excavated material around foundations	CM	10		
F	Load and cart away surplus excavated material	CM	36		
G	Allow for keeping the whole excavation free from all water including spring and running water		ITEM		
H	Allow for plunking and strutting the whole excavation		ITEM		
	<u>Mass concrete class 'P' in:</u>				
J	50mm thick blinding under foundations	SM	15		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Reinforced insitu concrete class 25/(20mm aggregates)</u>				
A	200mm thick floor bed	SM	15		
B	200mm thick wall	SM	65		
C	200mm thick suspended slab	SM	11		
D	Strip foundation	CM	1		
	<u>Reinforcement</u>				
	<u>Supply and fix bars reinforcement including bending, hooks, tying wire, cutting, spacers and supporting all in position as described</u>				
E	In assorted reinforcement of various sizes	KG	500		
F	A142 weighing 2.22kg/metre sq.(measured net no allowance made for laps)	SM	88		
	<u>Sawn formwork to:</u>				
G	Soffites of suspended slab and Side walls	SM	145		
H	Edge of bed between 150 - 225mm wide	LM	32		
	<u>Water proof cement/sand (1:3) in:</u>				
J	20mm thick screed to sloping floor bed cross falls	SM	6		
K	20mm thick screed trowelled hard and smooth	SM	40		
L	20mm thick render to walls	SM	62		
M	20mm thick render to soffites	SM	11		
	<u>Sundries</u>				
N	Form or leave 100mm diameter hole in 200mm thick reinforced concrete wall and slab	NO	10		
P	Form or leave 600 x 600mm hole in 200mm thick reinforced concrete suspended slab	NO	2		
Q	600 x 600mm heavy duty double manhole cover and frame including setting cover in concrete opening and forming rebate	NO	2		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	<u>Approved filling</u> Rock and gravel backfill	Cm	10		
B	Insecticide treatment on blinded surfaces with "Termidor" termicide or other equal and approved at the rate of fipromil (250gm/ litre) after dilution with water (1:100) at the rate of 5litres per square metre all in accordance with Manufacturer's Specifications	Sm	25		
C	Single layer 1000 gauge polythene sheeting with minimum 300mm side and end laps	Sm	4		
D	<u>Natural natural stone block walling jointed in cement/sand (1:3) mortar in</u> 200mm thick wall	Sm	14		
	Carried to Collection				
	COLLECTION				
	From page 1				
	From page 2				
	From above				
	TOTAL FOR BIO DIGESTER CARRIED TO SUMMARY				