

		Shs.
<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" 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>	
	Our Ruiru office is in a company owned land at Ruiru town approx 25km from Nairobi CBD, Nairobi county. The site is accessible via Thika Superhighway through Ruiru Town from Nairobi . All access roads are tarmacked	
	The Contractor shall visit the Site to acquaint himself with its nature 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.

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 office</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 of Construction of <i>Proposed new Roysambu commercial Office</i> .</p> <p>Works shall generally consist of :-</p> <ul style="list-style-type: none"> a) Excavations b) Cocrete works c) Masonry works d) Steel roof structure and roof works e) Metal Windows and doors f) Plumbing, Drainage and Electrical installations g) Finishes - Plaster, Key pointing , floor and wall tiling and ceiling finish. h) Joinery fittings j) Septic tank and associated works <p><u>APPROVAL OF THE DRAWINGS</u></p> <p>The contract will provide and facilitate approval of the drawings both Architectural and structural by registered Architects and engineers including all necessary county government approvals and other legal Authorities .</p> <p>The Contractor shall furnish 3 sets of dully approved drawing within the first two weeks of site take over and before work commences to the Project Manager. A copy of such approved set of drawing shall be kept on site at all times during the contract period.</p>
	<p>Preliminaries Carried to collection KShs.</p>

		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.	
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.

	Shs.
<p>A <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>	
<p>B <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>	
<p>C <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>	
<p>D <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>	
<p>E <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 KShs.</p>

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>	Shs.
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 mgr 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, NCA accredited 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>Such site superrintendent shall have a National Construction Authority's accreditation</p>	
	<p>Preliminaries</p>	
	<p>Carried to collection</p>	
		KShs.

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

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

<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 within the first one week of site take over and 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>Preliminaries Carried to collection KShs.</p>	<p>Shs.</p>
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<p>SAMPLES (Continued)</p>	<p>Shs.</p>
<p>The sample of natural stones shall be of approved crushing strength. G. 26 IT5 profile roofing sheet, 8mm thick Granitto floor tiles size 600x600mm and specified steel section roofing members shall be required and available for quick reference during the entire period of the contract. The approved samples shall be mounted / applied using the correct methodology, edging and finish as per the bill of quantities; all to reflect the high quality workmanship that will be replicated on the permanent works.</p>	
<p>Preliminaries</p>	<p>Carried to collection KShs.</p>

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

		Shs.
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 camps, 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.</p> <p>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: center;">Carried to collection</p> <p style="text-align: right;">KShs.</p>	

A	<u>HOARDING</u>	<p>The Contractor shall enclose the Site either wholly or in parts 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	<u>TEMPORARY ROADS</u>	<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	<u>SIGNBOARD</u>	<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>	
	<u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS</u>		
D	<u>NOMINATED SUB-CONTRACTORS</u>	<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.

<u>NOMINATED SUB-CONTRACTORS - CONTINUED</u>	Shs.

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.

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.

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:

Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.

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.

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.

A NOMINATED SUPPLIERS

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.

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.

B PRIME COST RATES

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.

The actual nett cost per unit will be adjusted within the Final Account

Preliminaries

Carried to collection

KShs.

		Shs.
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>NATIONAL CONSTRUCTION AUTHORITY LEVY (NCA)</u></p> <p>The contractor shall comply with all necessary National Construction Authority Act requirements including NCA levy. No claims for failure to comply with the NCA act will be entertained.</p>	
E	<p><u>DEVELOPMENT APPROVALS</u></p> <p>The contractor shall allow for all necessary county government permits & approvals with regard to these works. No claim for failure to comply with county governments Allow for all necessary permits/approvals by the County Government of Mandera</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 summary</p>	
G	<p><u>BILL OF QUANTITIES SITE COPY</u></p> <p>It shall be a requirement under this contract for the contractor to keep a true and complete copy of the unpriced tender document on site at all times. The contractor shall also be expected to keep in his possession a true and complete copy of the priced tender document.</p>	
	<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>	

<u>COLLECTION</u>			Kshs
From page No.		P/1	
"	"	"	P/2
"	"	"	P/3
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"	"	"	P/5
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"	"	"	P/11
"	"	"	P/12
"	"	"	P/13
"	"	"	P/14
<u>TO GRAND SUMMARY</u>			
<u>AT END OF BILLS</u>			
<u>PRELIMINARIES</u>			<u>KSHS.</u>

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ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	BILL NO. II - BUILDING WORKS				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	600	SM		
	<u>Excavation</u>				
B	Over-site excavations: 100-200mm Depth, load and deposit as instructed by the project manager	600	SM		
C	Excavation for strip footing trenches n.e. 1.5 m deep	175	CM		
D	Ditto for column footing ditto	69	CM		
E	Extra-over all excavation for excavating rock irrespective of class.	120	CM		
F	Return, fill and ram selected excavated material compacted in layers not exceeding 200mm thick	180	CM		
G	Remove and cart away surplus excavated materials.	184	CM		
	<u>Diposal 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 all excavations		ITEM		
	<u>Filling</u>				
K	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness	180	CM		
L	50mm (average) thick quarry dust blinding to surfaces of hardcore	580	SM		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Antitermite treatment</u>				
A	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	580	SM		
	<u>Concrete</u>				
	<u>In situ vibrated reinforced concrete class 20 / (20mm agg) in:</u>				
B	Strip footing	29	CM		
C	Column bases	14	CM		
D	Columns	2	CM		
E	150mm thick bed	580	SM		
	<u>Reinforcement</u>				
	<u>Bars: Ribbed; high yield steel; including bends, hooks, tying wire and distance blocks</u>				
F	In assorted reinforcement of various sizes	4498	KG		
	<u>Fabric: B.S. 4483</u>				
G	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps(including bends, tying wire and distance blocks	580	SM		
	<u>Walling</u>				
H	200 mm thick natural stone foundation walling bedded in c/s mortar	292	SM		
	<u>Formwork</u>				
	<u>Sawn formwork to the sides of:-</u>				
J	Column bases	46	SM		
K	Columns	38	SM		
L	Edges of ground floor slab; 75 to 150mm wide	115	LM		
M	Strip footing	485	LM		
	<u>Damp proofing</u>				
N	Polythene sheet; 1000 gauge, 200mm welted laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding	580	SM		
P	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	150	LM		
Q	Ditto but 100mm	10	LM		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>In situ Finishings</u>				
A	15mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	35	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
B	Wood floated rendered plinths over 300mm girth	35	SM		
	<u>Paving Slabs.</u>				
C	600 x 600 x 50 mm Precast concrete class 20/20 paving slabs, laid to falls on 50mm quarry dust blinding on 125mm hardcore bed surface and jointed in cement and sand (1:3) mortar including all necessary excavations (average 200mm deep), disposal and 100thick mass concrete protective edge	138	SM		
<i>Carried to Collection</i>					
	<u>COLLECTION</u>				
	From page 1				
	From page 2				
	From above				
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	ELEMENT NO. 2				
	RC SUPERSTRUCTURE				
	<u>In situ concrete:vibrated reinforced; class 20 / (20mm agg):</u>				
A	Columns	7	CM		
B	Beams	22	CM		
	Reinforcement				
	<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>				
C	In assorted reinforcement of various sizes	2800	KG		
	<u>Sawn formwork to insitu concrete as described to:-</u>				
D	Sides of columns	85	SM		
E	Sides and soffits of beams	250	SM		
TOTAL FOR RC SUPERSTRUCTURES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<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	200x150mm lintel reinforced with and including two 12mm diameter mild steel rods hooked at ends (in 2 No.)	9	LM		
B	WINDOW CILL; 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	69	LM		
	<u>MACHINE CUT STONE WALLING</u>				
C	200 mm thick approved local; machine cut stone walling; bedding, jointing and pointing in cement sand (1:3) mortar	220	SM		
D	150mm thick ditto	60	SM		
E	Extra over horizontal pointing in av. 16mm thick square tube in cement and sand (1:3) mortar; one coat of bituminous paint.	172	SM		
	<u>Alumium works partitions</u>				
F	76x44x1.2mm powder coated aluminium frame (Rails, stiles and mullions) including matching beadings as necessary in partitions.	102	LM		
G	8mm thick clear laminated glass including antivibration rubber gaskets, beadings and all necessary accessories	23	SM		
H	averaging 18mm thick mdf board faced with scratch proof KPLC blue both sides as infill ditto.	15	SM		
TOTAL FOR WALLING CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 4</u>				
	<u>ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSAL (PROVISIONAL)</u>				
	<u>Roof covering.</u>				
	<u>Galvanized iron box profile IT5 sheets: 28 gauge; pre-painted</u>				
A	Roof covering; 150mm laps both sides; and fixing to Z purlins (ms) on steel trusses (m/s) at 1200mm c/c all laid to fall at 22.5°	800	SM		
B	Ditto but fibre glass to fall at 5 degrees	0	SM		
	<u>Accessories, fixing as necessary to roof sheets</u>				
C	Overall 400 mm wide ridge cap	40	LM		
D	Ditto; hips ditto	30	LM		
	<u>Steel Sections</u>				
	<u>The following in steel trusses spanning averagely 21m at appropriate centres and hoisted average 4m from ground level including, cutting, assembling, bolts, cleats, nuts, washers, fish plates, bracings, anchor plates and gusset plates all as necessary:-</u>				
E	90x75x8mm thick steel angle rafters	96	LM		
F	Ditto but jack rafters	368	LM		
G	65x50x6mm thick steel angle tie beam	360	LM		
H	50x50x6mm thick mild steel angle struts & ties	92	LM		
	<u>The following in Mild Steel plates</u>				
J	1000 mm high fascia weld on 20x20x2mm SHS frame work m/s.	120	SM		
	<u>Square Hollow Sections</u>				
K	20x20x2mm thick (1.13kg/m) frame to hold the metallic fascia including all necessary welding, grinding smooth and priming as necessary.	600	LM		
L	75x50 x4mm thick RHS bearers at 600mm c/c anchored to concrete or block work; ditto	171	LM		
M	Approved eaves timber boarding or any other equal and approved ceiling board secret fixed to and including 50 x 50mm celcured wrot cypress bearers fixed to metal or masonry surfaces and brandering at 600mm centres.	104	SM		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>RAINWATER DISPOSAL</u>				
	<u>The following in heavy duty uPVC, corrosion and heat resistance</u>				
A	250mm dia. half round uPVC gutter including gutter joint bracket, bracket, twin recessed thermo rubber seals, clip lock, joints in the running length fixed to fascia framework with and including gutter support brackets at approved centers	115	LM		
B	Extra; for 100mm diameter outlet; 100mm long	8	NO		
C	100mm uPVC diameter rainwater downpipe fixed with and including downpipe clip and connectors at 900mm centres, plugged and screwed to wall	40	LM		
D	Extra over for swan neck bend with 1135mm projection	8	NO		
E	Extra over for shoe bend encased in concrete surround	8	NO		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply one coat primer to general metal surfaces:</u>				
F	Red oxide metal primer - gloss 200-300mm girth external	3673	LM		
G	Ditto to mettalic fascia board	120	SM		
	<u>Prepare and apply 2 coats First grade oil paint to general metal surfaces:</u>				
H	Super gloss to 200-300mm girth	3673	LM		
J	Ditto to mettalic fascia board	120	LM		
	<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>				
K	Eaves surface	104	SM		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From page 6				
	From above				
	TOTAL FOR ROOFING CONSTRUCTION, COVERING AND RAIN WATER DISPOSALCARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>ALUMINIUM WORK PURPOSE - MADE UNITS</u>				
	<u>Heavy duty Powder coated Aluminium doors complete with 75x40x2.1mm frames, 8mm thick clear glass sheet, locks, handles, plugged and screwed to walls and all necessary anti-vibration rubber gaskets and any other necessary ironmongery all as per the door schedules provided to approval:</u>				
A	Double door size; 1800 x 2400mm high,	1	NO		
B	Ditto 1200x2100ditto	2	NO		
C	Ditto 900x2100ditto	2	NO		
	<u>TIMBER DOORS</u>				
	<u>Wrot hardwood timber framings</u>				
D	150 x 50 mm; 4 No. labours; plugged door frame	55	LM		
E	100 x 38mm architraves with 4 No. labours	55	LM		
F	38 x 38mm quadrants with 3 No. labours	55	LM		
	<u>45mm Thick semi-solid core flush doors to B.S 459: part 2 with internal quality plywood and lipped on all edges in approved hardwood</u>				
G	Door; overall size 800 x2000 mm high	8	NO		
H	Ditto but double leaf overall size 1120x2060mm high	1	NO		
	<u>Painting and Decoration</u>				
	<u>On Woodwork</u>				
	<u>Knot prime & stop, prepare and apply one zinc plumbate primer and three coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to:-</u>				
J	Door frames 225 to 300mm girth	55	LM		
K	Ditto 75-150 ditto	55	LM		
L	Ditto 0-75 ditto	55	LM		
M	Timber door surfaces	25	SM		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Iron mongery</u>				
	<u>Supply and fix the following to 'UNION' catalogue or other equal and approved</u>				
	<i>To softwood, hardwood or the like fixing with screws</i>				
A	Indicator bolt	6	NO		
B	100mm brass butt hinges	6	PRS		
	<i>To concrete or blockwork; fixing with bolts; plugging</i>				
C	Rubber door stop complete with 38 mm rawl bolt	20	NO		
<i>Carried to Collection</i>					
<u>COLLECTION</u>					
From page 8					
From page above					
TOTAL FOR DOORS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>Wrot Cypress</u>				
A	150 x 25 mm thick window boards including bull-nosed edges and 25 x 25 mm bearer; plugged, counter sinking and flush pelleting.	69	LM		
	<u>Vertical blinds</u>				
B	Supply and fix high quality fabric "Vanetian" window curtain blinds or equal and approved 2000mm high including 25 x 25mm pvc tracks secured to 50x25mm timber fixed to concrete and/or masonry all complete with necessary	110	SM		
	<u>ALUMINIUM WORK PURPOSE - MADE UNITS</u>				
	<u>Aluminium sliding windows including 60x40x2.1mm frames, iron mongery plugged and screwed to walls and all necessary antivibration rubber gaskets and the like: all to approval as per schedule attached</u>				
C	Size 4000 x 1500 mm high	15	NO		
D	Ditto 900 x 1500 ditto	2	NO		
E	Ditto 900 x 600 ditto	6	NO		
	<u>Glazing</u>				
	<u>Sheet glass panes over 0.5 but not exceeding 1.0 square meters: fixing rubber and lining</u>				
H	8mm thick laminated clear glass sheet	110	SM		
J	Ditto but obscure	2	SM		
	<u>Grills</u>				
	<u>Fabricate and fix corporate grilling as described below:</u>				
K	20x20x3mm thick SHS in 100mm maximum spacing welded and ground smooth to approval including two coats of first quality red oxide primer	112	SM		
L	Prepare and apply three coats of 'CROWN SOLO' or other equal and approved super gloss oil paint to metallic surfaces	223	SM		
TOTAL FOR WINDOWS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 07</u> <u>ENTRY FOYER</u>				
	<u>Covered pergolla</u>				
	<u>Supply, fabricate, assemble the following in roof decking in planed timber sections</u>				
A	200x100mm planed hardwood timber joists at approx 1500mm centres with 4 labours	30	LM		
B	100x50mm sawn cel-cured cypress wall plate	13	LM		
	<u>Knot, prime, stop, prepare and apply three coats of matt varnish to:-</u>				
C	Wooden surfaces	18	SM		
D	Supply and fix 10mm thick perspex roofing glass to approval	30	SM		
E	Supply and fix 900mm high stainless steel railings in one no. 75mm dia hand rail; av. 32mm dia balustrades at 400mm centres; 12mm dia solid bars as intermediete rails at 300mm centres; including encasing in masonry or concrete; all complete with necessary welds, grinding smooth and polishing	10	LM		
TOTAL FOR ENTRY FOYER CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 8</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>In situ 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>				
	<u>Beds and backings</u>				
A	Beams and columns externally	47	SM		
B	15mm thick walls internal to receive wall tiles (ms)	79	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	400	SM		
D	Ditto Columns	20	SM		
	<u>Painting and decorations</u>				
	<u>Prepare and apply one undercoat and three coats of Crown Solo or equal and approved quality paint : -</u>				
E	Silk vinyl to plastered surfaces internally	400	SM		
F	Vinyl matt emulsion ditto externally	47	SM		
G	250x400x6mm thick coloured ceramic matt finish wall tiling as "SAJ CERAMICS" or equal and approved including grouting	79	SM		
	<u>Floor finishes</u>				
	<u>C/s backings</u>				
H	32mm thick cement sand backing to receive tiles	576	SM		
J	600x600x8mm thick granito non-slip floor tiling or equal and approved including grouting	482	SM		
K	300x200x8mm thick granito non-slip floor tiling or equal and approved including grouting	94	SM		
L	300x300x8mm thick granito non-slip floor tiling or equal and approved including grouting	25	SM		
M	100mm wide skirting; rounded junction with wall finish, coved junction with floor finish.	210	LM		
	<u>Suspended Accoustic ceiling comprising V-carriers, panels suspension hangers, flush jointing and trap doors.</u>				
N	Accoustic ceiling	576	SM		
TOTAL FOR FINISHINGS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 9</u> <u>BUILDER'S WORK IN CONNECTION TO SPECIALISED</u> <u>INSTALLATIONS (ALL PROVISIONAL)</u>				
	<u>IN CONNECTION TO PLUMBING AND DRAINAGE INSTALLATIONS</u>				
	<u>Chase in masonry or concrete surfaces for:-</u>				
A	20mm diameter PPR pipe	30	LM		
B	25mm ditto	54	LM		
	<u>Cut through 200mm thick wall for:-</u>				
C	20mm diameter PPR pipe	1	NO		
D	25mm ditto	1	NO		
E	50mm diameter uPVC pipes	1	NO		
F	40mm ditto	1	NO		
G	32mm ditto	2	NO		
	<u>IN CONNECTION TO ELECTRICAL INSTALLATIONS</u>				
	<u>Chase in masonry or concrete surfaces for:-</u>				
H	20mm diameter heavy gauge conduits	120	LM		
J	25mm ditto	80	LM		
	<u>Cut in masonry and concrete for :-</u>				
K	600x600x100mm deep for 3 phase TPN 125A distribution board	1	NO		
L	24 x 24 Duel tariff meter board	1	NO		
M	Switches	17	NO		
N	13A SP twin switched socket outlets	50	NO		
P	45A DP Cooker control unit	1	NO		
Q	Excavate trench for ducts n.e 700 mm depth	5	LM		
R	Backfill ditto	5	LM		
S	Lay hatari tiles; standard	5	LM		
T	50mm diameter HG PVC ducts with 100 mm thick concrete sorround	5	LM		
	TOTAL FOR BUILDER'S WORKS IN CONNECTION TO SPECIALISED INSTALLATIONS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>BILL NO. II SUMMARY</u>				
				PAGE NO.	K.SHS.
ELEMENT NO.	TITLE				
1	SUBSTRUCTURES (ALL PROVISIONAL)			3	
2	RC SUPERSTRUCTURES			4	
3	WALLING			5	
4	ROOF CONSTRUCTION			7	
5	DOORS			9	
6	WINDOWS			10	
7	ENTRY FOYER			11	
8	FINISHES			12	
9	BUILDER'S WORK IN RELATION TO SPECIALISED INSTALLATIONS			13	
	TOTAL FOR BUILDING WORKS CARRIED TO GRAND SUMMARY				

BILL NO. III-SANITARY FITTINGS, PLUMBING & DRAINAGE WORKS

(ALL PROVISIONAL)

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<p><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.</p>				
A	<p>Water closet (wc) suite Close coupled wash down water closet in approved colour complete with horizontal outlet to BS 3402 with valveless cistern fittings including syphon, 15mm bottom inlet valve, 20mm bottom overflow, bolts and connecting fitments from cistern bowl, chrome-plated lever, heavy duty seat and cover and p-trap outlet connector all as Twyford's Galerie ref. No.GR1148 CH or approved equivalent.</p>	6	No		
B	<p>Urinal 3 range Urinal bowl in white vitreous china complete with 14 litres automatic ceramic cistern ref CX 8611 WH, and fittings including siphon ball valve, cistern supports and drip tap in brass, chrome plated bottle trap, chrome plated flushpipe and spreader ref SS 6071SS with all connections, wall hangers/supports and divisions. To be as Twyford's 'Camden' or approved equivalent.</p>	1	No.		
C	<p>Wash hand basin 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)</p>	5	No		
D	<p>Self-closing pillar tap, 15mm C.P., non concussive type pegler-Prestex Cat. No.877</p>	5	No		
E	<p>Toilet bip tap as Cobra No. 206-CP, heavy duty with star handle.</p>	2	No		
Total carried forward to next page					

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total brought down from previous page					
A	Toilet Roll Holder Wall mounted clear jumbo tissue holder	3	No		
B	Hand drier compatibe 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.	3	No		
C	Mirrors 6mm 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.	5	No		
D	Robe Hook Robe hook in Satin Aluminium to be mounted by concealed screws to wall wedges. To be as Twyford's Spectrum 2000 accessories or equal and approved.	5	No		
E	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.	12	No		
F	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	3	No.		
G	CLEANERS SINK Cleaner's sink made out of 18/8 stainless steel as manufactured by ASL and of size 580 x 400 x 200 mm with bucket grating and bright machine polish finish as Ref No. 133 complete with Cobra Watertech 1/2" diameter wall type chrome plated heavy duty bib tap with star handles Ref 206	1	No		
Total carried forward to next page					

BILL NO. III-SANITARY FITTINGS, PLUMBING & DRAINAGE WORKS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total brought down from previous page					
A	KITCHEN SINK Double Bowl Double Drainer, (DBDD) stainless steelsink, size averaging 1800x600 mm, bowl size 430x420 complete with overflow, waste fittings, plugs, chain stays and 40mm diameter plastic P trap with 75mm deep seal. The sink to be as ASL or approved equivalent.	1	No		
B	Sink pillar tap as Cobra No. 115/041 chrome plated with over arm swivel outlet, carina head complete with mixer (Hot & Cold) tap or equal and approved	1	No		
C	Wheel chair accessible W.C facility Comprising of the following:- i) Close coupled W.C with 7.5 litre cistern with bottom inlet and overflow. The bowl shall be of size 375x560x420mm high. The bowl and cistern shall be manufactured from vitreous china complying with B.S 3402. The unit shall be complete with valveless cistern fittings including syphon, 15mm side inlet ball valve, 3/4" side overflow, plastics flush bend, inlet connector and reversible metallic chrome plated cistern lever. There shall also be a heavy duty seat (25mm high) and cover with chrome plated metal hinges, toilet roll holder, 610 x 610 x 6mm thick mirror and robe hook. ii) Semi pedestal wall mounted W.H.B of size 600x500x545mm high with flexible connectors to waste and taps. The basin shall be manufactured from vitreous china complying with B.S 3402. It shall have one L/H tap hole with 15mm chrome plated lever action pillar tap, chrome plated waste with height adjustable trap, pedestal and wall fixing bolts. iii) Hinged support rail with 770mm long manufactured in nylon coated aluminium and mounted on a wall fixing plate plate size 230x100 mm, 4No. 600mm grab rails with covered wall plates. The set shall be as Twyford's DOC.M wheelchair accessible W.C. facility or approved equivalent.	1	Set		
Total for sanitary fittings carried forward to collection page					

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	<u>INTERNAL PLUMBING.</u>				
	<u>ALL PROVISIONAL</u>				
	PPR Pipes				
A	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				
B	20mm dia pipe	30	Lm		
C	25mm -ditto-	54	Lm		
D	32mm -ditto	140	Lm		
	<u>Extra-over PPR pipework for the following:-</u>				
	Sockets				
E	20mm dia. PPR sockets	10	No		
F	25mm -ditto-	20	No		
G	32mm -ditto-	10	No		
	Bends				
H	20mm -ditto-	20	No		
J	25mm -ditto-	10	No		
K	32mm -ditto-	10	No		
	Threaded bend				
L	20mmx1/2' threaded bend	5	No		
M	25mm x3/4" Ditto	5	No		
N	32mm x1" ditto	5	No		
	Equal Tees				
P	20mm dia. Tee	10	No		
Q	25mm dia tee	10	No		
R	32mm dia tee	5	No		
	Total carried forward to next page				

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total brought down from previous page					
	Threaded tee				
A	20mm x1/2' threaded tee	10	No		
B	25mmx1/2' threaded tee	5	No		
C	32mmx1/2' threaded tee	5	No		
	Unions				
D	25mm	4	No		
E	32mm	4	No		
F	20mm	4	No		
	Reducers				
G	32x25mm reducer	9	No		
H	32x20mm reducer	5	No		
J	25x20mm reducer	9	No		
	Gate valves				
K	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.	4	No.		
L	32mm -ditto-	4	No		
M	20mm -ditto-	6	No		
	Roof Water Storage Tank				
N	Supply, deliver and install vertical close end plastic rectangular moulded tank of capacity 920 litres . The tank to be assembled complete with cover and having screwed connections for 25mm dia.inlet, 20mm dia.outlet, 25mm dia.overflow, 25mm dia ball valve, 25mm dia.drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on the slab in the ceiling space.	2	No.		
Q	Allow for excavation and backfilling avarage depth 600mm trench to receive 32mm dia. PPR pipe .	80	LM		
Total for internal plumbing carried forward to collection page					

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	INTERNAL DRAINAGE				
	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>				
A	110mm diameter heavy gauge golden brown mUPVC pipe in trenches	100	Lm		
B	110mm diameter heavy gauge light grey UPVC pipe as vent pipe on clipped on wall as nec.	20	Lm		
C	50mm dia. H.gauge light grey UPVC waste pipe in floor and wall chases	25	Lm		
D	40mm-ditto-	25	Lm		
E	32mm -ditto-	25	Lm		
	<u>Extra-over uPVC and muPVC pipework for the following:-</u>				
	Traps				
F	100x50mm dia floor trap	3	No		
G	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm thick reinforced concrete cover.	1	No.		
	Weathering Slates and Vent Cows				
H	100mm dia vent cowl and weathering slate.	3	No		
	Bends				
J	110mm bend	10	No		
K	50mm bend	20	No		
L	40mm ditto	20	No		
M	20mm ditto	20	No		
	Sweep tees				
N	110mm dia sweep tee	6	No		
P	50mm ditto	2	No		
Q	40mm ditto	2	No		
R	32mm -ditto-	2	No		
	Boss connectors				
S	110x50mm boss connector	6	No		
	Wc connectors				
T	110mm WC connector	6	No		
U	Manhole overall size 900x900xx1000mm deep average including all necessary excavation, disposal and backfilling; 150mm thick block walling, plaster, Concrete cover greased as necessary, concrete base and haunching as necessary	7	No		
	Total carried forward to next page				

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Total brought down from previous page					
A	Allow for a provision for the connection of drains to public sewer to be under taken by RUJWASCO (Ruiru Juja Water & Sewerage Company).	ITEM			
<u>Fire Fighting Equipment</u>					
B	9 litres water extinguisher with CO2 propellant for class A fires	2	No		
C	5 Kg gas CO2 gas extinguisher for class B,C,E fires	2	No		
D	Swinging type hose reel complete with 30M x 19M hose, tubing, spray nozzle and valve	2	No		
Total for internal drainage carried forward to collection page					

PROPOSED RUIRU COMMERCIAL OFFICE

ITEM	DESCRIPTION	AMOUNT (Kshs)
<u>COLLECTION PAGE</u>		
A	Total for sanitary fittings brought down from page PD / 3	
B	Total for internal plumbing brought down from page PD / 5	
C	Total drainage brought down from page PD / 7	
D	Allow for production of 3 copies of as installed drawings	
TOTAL C/F TO GRAND SUMMARY		

Amount in words

.....

Tenderer's (Sub contractor's) Name and Stamp.....

PIN NO.....

VAT CERTIFICATE NO.....

Witness.....

Address.....

Signature.....

Date.....

BILL NO. IV- ELECTRICAL INSTALLATIONS

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
	Supply, install, test and commission the following ;-				
	<u>LIGHTING POINTS</u>				
A	Lighting points wired in 3x 1.5 mm ² SC CU cables drawn in 20mm diameter concealed HG P.V.C conduits for one way switching couplers , sandles clips junction boxes but excluding the fittings .	200	LM		
B	Lighting points wired in 3x 1.5 mm ² SC CU cables drawn in 20mm diameter concealed HG P.V.C conduits for two way switching couplers , sandles clips junction boxes but excluding the fittings .	400	LM		
	Piloted Flush mounted 10Amps wide rocker , switch plate as MK or approved equivalent as for				
C	One gang one way	9	No.		
D	Two gang two way	4	No.		
E	Two gang one way	2	No.		
F	Three gang One way	2	No.		
	<u>LIGHTING FITTINGS</u>				
	<u>Lighting fittings complete with electronic ballasts and tubes/lamps as follows:-</u>				
G	Type A- 1200x36W high frequency surface mounted slim section fluorescent light fitting with 28w LED tubes (frostred) , white finished steel body and ABS plastic end caps as Thorn Modulight or approved equivalent	9	No.		
H	Type B- 600x600mm 36W slim LED panels frosted. high frequency ceiling luminaire with polycarbonate body and trim in white polycarbonate diffuser .	72	No.		
I	Type D) - Self contained single sided exit sign with 8W fluorescent lamp for maintained emergency lighting for 3 hour duration as Thorn EFX3 c/w CAT EFXF 7 Euro Legends or approved equivalent	2	No.		
SUB TOTAL C/F TO PRICE SUMMARY PAGE					

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
POWER POINTS					
A	3x4 mm ² SC CU cables for twin flush wall mounted socket outlets drawn in 25mm Ø HG PVC conduit from distribution board concealed in walls.	600	LM		
B	13A flush mounted twin piloted white enamel moulded type socket outlet faceplate as MK cat2647 WHI or approved equivalent mounted flush on the wall .	50	No.		
C	45A DP cooker unit + 15A SP switched socket outlet neon indicators and marked cooker.	1	No.		
D	Cooker Connector unit as MK or equivalent	1	No.		
E	3x6.0 mm ² SC CU cables drawn in 25mmØ HG PVC conduit from distribution board for cooker point above	60	LM		
F	Piloted 20A DP isolator unit as MK cat 2202CH for undersink instantaneous water heaters	1	No		
G	Power points wired in 3x4 mm ² SC CU cables in concealed 20mm dia HG PVC conduit from distribution board to DP points for items above	1	No.		
<u>AREA/PARKING LIGHTING.</u>					
H	50W LED flood light lamp overall size 206x145.5mm with powder coated steel plate casement with holder complete with integral control gear, wiring in 1.5mm ² twin with earth sheathed cable from the distribution board for a height of upto 3metres on the wall.	8	No.		
I	60A/30mA ELCB as MEM or approved equivalent	1	No.		
J	Photo electric cell (Timer) as THORN cat No. QPK or approved equivalent	1	No.		
K	30 Amps. Triple pole contactor as TELEMECANIQUE or approved equivalent.	1	No.		
SUB TOTAL C/F TO PRICE SUMMARY PAGE					

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
A	5 Metres, top entry, Galvanised steel post for mounting the photocell above.	1	No.		
B	1.5mm ² twin with earth sheathed copper cable drawn in 20 mm dia.PVC conduit from the distribution boardPVC/SWA/PVC copper cables complete with appropriate cable glands and lugs concealed in walls for security lights.	220	LM		
POWER DISTRIBUTIONS					
E	12way TPN, flush mounted distribution board complete with 125A integral isolator as MEM or approved equivalent complete with all accessories but excluding MCBs.	1	No.		
Miniature Circuit Breakers (MCB's/RCBOS) for item					
F	10A SP MCB	4	No.		
G	20A SP MCB	3	No.		
H	30A SP MCB	2	No.		
J	45A SP MCB	1	No.		
K	60A TPN MCB	1	No.		
L	TP blanking plate	9	No.		
SUB TOTAL C/F TO PRICE SUMMARY PAGE					

PROPOSED RUIRU COMMERCIAL OFFICE

Item	Description	Qty	Unit	Rate (Kshs)	Amount (Kshs)
Earthing, for all electrical installation above of the following and any other necessary accessories to KEBS and KPLC approved standards.:-					
A	12.5 mm x 1200 mm earth rod as FURSE cat. No. RB 105.	1	No.		
B	12.5 mm dia. Driving stud as FURSE cat.No. ST100.	1	No.		
C	Rod to cable clamp as FURSE cat. No. CR510.	1	No.		
D	Concrete inspection pit as FURSE cat. No.PT005. (or a well made 320mm x 320mmx 210 mm depth pit.)	1	No.		
E	6mm sq. SC PVC CU cables drawn in 20 mm dia.PVC conduit concealed in walls.	20	LM		
SUB TOTAL C/F TO PRICE SUMMARY PAGE					

SUMMARY					
ITEM	DESCRIPTION			AMOUNT	
				KSHS	CTS
1	Total from page E / 1				
2	Total from page E / 2				
3	Total from page E / 3				
4	Total from page E / 4				
5	Allow for production of 3 copies of as installed drawings				
	TOTAL C/F TO GRAND SUMMARY				

Total amount in words :, Kenya

Shillings.....

Tenderer's (Sub- contractor's) Name and Stamp.....

PinNo.....VAT Certificate

Witness.....Address.....

Signature of

Witness.....Date.....

BILL PART NO. V PRIME COST SUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p style="text-align: center;">PRIME COST SUMS</p> <p>Allow for profits, overheads and attendance on the following PRIME COST SUMS for works to be executed by a domestic sub-contractor</p> <p>The tenderer should only carry to the Grand summary the total of profits & overheads and attendance.</p> <p style="text-align: center;">Electrical Installations</p> <p>A Kenya Shillings ONE MILLION (KShs. 1,000,000.00) only for electrical installation works</p> <p>Allow for profits & Overheads</p> <p>Allow for Attendance</p> <p style="text-align: center;">Plumbing and internal drainage installations</p> <p>B Kenya Shillings ONE MILLION (KShs. 1,000,000.00) only for plumbing and internal drainage installation works</p> <p>Allow for profits & Overheads</p> <p>Allow for Attendance</p>		<p>ITEM</p> <p>%</p> <p>ITEM</p> <p>ITEM</p> <p>%</p> <p>ITEM</p>		
	<p>Total of Profits, overheads and attendance Carried to Grand Summary</p>				

PROPOSED CONSTRUCTION OF RUIRU COMMERCIAL OFFICE

GRAND SUMMARY

BILL NO.	DESCRIPTION	PAGE NO.	OFFICIAL USE	CONTRACTOR'S USE
			K.SHS.	K.SHS.
1	Preliminaries	P / 15		
2	Builder's works	Page 14		
3	Plumbing, Drainage & Fire fighting Installations	PD / 8		
4	Electrical Works	E / 5		
5	PC Sums (Profits, overheads & Attendance)	PC / 1		
	SUB-TOTAL 1			
	Add: VAT 16%			
	GRAND TOTAL CARRIED TO FORM OF TENDER (KSHS.)			

Tendrer's Name:

Sign. & Stamp:.....

Date:.....

Witness Name:

Sign.:

Date:.....

