



Kenya Power

**PROPOSED CONSTRUCTION OF ELDORET OFFICE  
BLOCK-BUILDER'S WORKS PHASE I.**

**UASIN-GISHU COUNTY.**

***TENDER NO. KP8/9A/NR/OT/03/24-25***

**BILL OF QUANTITIES**

**B.PRELIMINARIES & MEASURED WORKS.**

## **PRELIMINARIES.**

<u>PRELIMINARIES</u>			Shs.
<b>PART NO. 1</b>			
<b><u>PRELIMINARY PARTICULARS</u></b>			
<b>A</b>	<b><u>NAME OF PARTIES</u></b>		
	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 used in the contract document shall be synonymous		
	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 Principal Projects Officer Administration & Property, HR& Administration Kenya Power & Lighting Co. Ltd P.O. Box 30099 - 00101 <u>NAIROBI</u>	
<b>B</b>	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></b>		
	The site is located in Uasin Gishu county at KPLC Muyodi Staff Quarters, approximately 1km from Eldoret CBD.		
	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 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.		
<b>C</b>	The Contractor must obtain the Project Manager's approval and directions regarding the use of any materials found on the site.		
	<b><u>ACCESS TO SITE</u></b>		
	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.





			Shs.
<b><u>GENERAL MATTERS</u></b>			
<b><u>SUFFICIENCY OF TENDER</u></b>			
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	<b><u>STAMP CHARGES</u></b>		
	The Contractor shall allow for the payment of all Stamp Charges in connection with the Surety and Contract Agreement.		
C	<b><u>DEFINITIONS AND ABBREVIATIONS</u></b>		
	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.I., 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 of Kenya	
	E.o	Shall mean Extra Over	
	bsm	Shall mean both sides measured	
Preliminaries			
Carried to collection			
KShs.			

			Shs.
A	<b><u>PROGRESS SCHEDULE</u></b>		
	<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	<b><u>FIGURED DIMENSIONS</u></b>		
	<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	<b><u>PROVISIONAL WORK</u></b>		
	<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	<b><u>EXISTING SERVICES</u></b>		
	<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	<b><u>TRANSPORT TO AND FROM THE SITE</u></b>		
	<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 &amp; Safety Authority ,</p>		
Preliminaries			
Carried to collection			KShs.

ND

			Shs.
A	<b><u>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC</u></b>		
	<p>The Contractor will be required to make good, at his own expense any damage he may cause to the present road surfaces and pavements within or beyond the boundary of the Site, during the period of the Works. In particular, all existing trees, shrubs, plants. etc., which may be destroyed or damaged during the progress of the Works are to be made good by the Contractor to the approval of the Project Manager.</p>		
B	<b><u>POLICE REGULATIONS</u></b>		
	<p>The Contractor is to allow for complying with all instructions and regulations of the police Authorities.</p>		
C	<b><u>ENVIRONMENTAL REGULATIONS</u></b>		
	<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	<b><u>CONTRACTORS' SUPERINTENDENCE</u></b>		
	<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>		
Preliminaries			
Carried to collection			KShs.

Shs.

**CONTRACTORS' SUPERINTENDENCE -(CONTINUED)**

Before the Tenderer's offer is accepted the Project Manager may personally interview the Contractor's proposed Representative.

A curriculum vitae of past experience and qualifications must be provided for the Project Manager's scrutiny.

The Project Manager's decision will be final regarding the suitability of the proposed Representative.

**A WATER**

All water shall be fresh, clean and pure, free from earthy, vegetable or organic mater, acid or alkaline substances in solution or suspension

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.

**B LIGHTING AND POWER**

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.

**C SAFETY**

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.

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.

Occupational Safety and Health Act no. 15 of 2007 must also be complied with

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.

Preliminaries

Carried to collection

KShs.

A	<b><u>PROTECTIVE CLOTHING</u></b>	Shs.
	<p>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	<b><u>PROVISIONAL SUMS</u></b>	
	<p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A Item A7(i) of the Standard Method of measurements</p> <p>Such sums are net and no addition shall be made to them for profit.</p>	
C	<b><u>ADJUSTMENT OF PROVISIONAL SUMS</u></b>	
	<p>In the final account all provisional sums shall be deducted and the value of the work properly executed in respect of them upon the Project 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	<b><u>PRIME COST (OR P.C.) SUMS</u></b>	
	<p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(ii) of the Standard Method of Measurements</p> <p>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	<b><u>ADJUSTMENT OF P.C. SUMS</u></b>	
	<p>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.</p> <p>Items of profit upon P.C. sums shall be adjusted in the final account prorata to the amount paid.</p> <p>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.</p> <p>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>	



			Shs.
A	<b><u>MATERIALS AND WORKMANSHIP</u></b>		
	<b><u>GENERALLY</u></b>		
	<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 and/or Kenya Standards current at the date of tender.</p> <p>The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on Site when required for use in the Works.</p> <p>The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged.</p> <p>The Works throughout shall be executed by skilled workmen well versed in their respective trades.</p>		
B	<b><u>REJECTED WORKMANSHIP OR MATERIALS</u></b>		
	<p>Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor's expense, as required.</p>		
C	<b><u>PROPRIETARY MATERIALS</u></b>		
	<p>Where proprietary materials are specified herein-after the contractor may propose the use of materials of other manufacturer but equal quality for approval by the Project Manager.</p> <p>All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.</p>		
D	<b><u>SAMPLES</u></b>		
	<p>The Contractor shall furnish within the first two weeks 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. Such approved samples shall be mounted on a sample board erected on site. The sample board shall be of minimum size 2400x1200mm high fabricated in RHS supports &amp; framings minimum size 75x50x3mm secure from tampering with and including all necessary sample mounting bases &amp; roof cover where 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>		
Preliminaries			
Carried to collection			
KShs.			

ND

			Shs.
A	<b><u>CONCRETE TESTS</u></b>		
	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		
B	<b><u>OTHER MATERIAL TESTS</u></b>		
	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		
C	<b><u>PROGRAM OF WORKS</u></b>		
	The Contractor shall allow in his programme for the following 11 public holidays per calendar year in Kenya.  <div><div>1. New Year's Day (1st January)</div><div>2. Good Friday</div><div>3. Easter Monday</div><div>4. Labour Day (1st May)</div><div>5. Madaraka Day (1st June)</div><div>6. Idd Ul Fitr</div><div>7. "Utamaduni" Day (10th October)</div><div>8. Mashujaa Day (20th October)</div><div>9. Jamhuri day (12th December)</div><div>10. Christmas Day (25th December)</div><div>11. Boxing Day (26th December)</div></div> The Contractor should also allow per calendar year for a further 2 unspecified public holidays which may be announced by the Government of Kenya with no prior notification.		
D	<b><u>MINISTRY OF HEALTH REGULATIONS</u></b>		
	The Contractor shall adhere to the interim guidelines and protocols for SARS-CoV 2 and COVID 19 which were developed in response to the new Coronavirus Disease 2019. The adherence to these guidelines shall include any periodical updated guidelines by the said MoH - Kenya		
Preliminaries			
Carried to collection			
KShs.			

			Shs.
<b><u>TEMPORARY WORKS</u></b>			
<b>A</b>	<b><u>OFFICE AND SHEDS</u></b> 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.		
<b>B</b>	<b><u>SANITATION</u></b> 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.		
<b>C</b>	<b><u>SECURITY</u></b> The Contractor shall be responsible for the security of the works in every respect and in particular it shall be the Contractor's responsibility to ensure that each of his workers security is guaranteed while working on the site and in such manner as is acceptable by KPLC The Contractor shall also accept liability for and bear the cost of failure to provide security for the works and workers as per the conditions of this contract once entered into		
<b>D</b>	<b><u>WORKING DRAWINGS</u></b> Provide for preparation and approval of final set of working drawings in A1 size; using the attached drawings; all by a licenced Architect & licenced Structural Engineer including all necessary county government's approvals within the first two (2No.) weeks after contract signing		
<b>E</b>	<b><u>ALTERATIONS TO BILLS, PRICING, ETC.</u></b> Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.		
Preliminaries			
Carried to collection			
KShs.			

N2



A	<b><u>PLANT, TOOLS AND SCAFFOLDING</u></b>	Shs.
	<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	<b><u>EXISTING AND ADJACENT PROPERTY</u></b>	
	<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	<b><u>INSURANCE</u></b>	
	<p>The Contractor shall insure as required in the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.</p>	
D	<b><u>LABOUR CAMPS</u></b>	
	<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>Carried to collection</p> <p>KShs.</p>	

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			Shs.
A	<b><u>HOARDING</u></b>		
	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.		
B	<b><u>TEMPORARY ROADS</u></b>		
	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.		
C	<b><u>SIGNBOARD</u></b>		
	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.		
<b><u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS</u></b>			
D	<b><u>NOMINATED SUB-CONTRACTORS</u></b>		
	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.		
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:			

**NOMINATED SUB-CONTRACTORS - CONTINUED**

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 against the P.C. rate stated.

Preliminaries

Carried to collection

KShs.

			Shs.
A	<p><b><u>PROTECTION</u></b></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><b><u>CLEANING</u></b></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><b><u>TRAINING LEVY</u></b></p> <p>The Contractor's attention is drawn to legal Notice No. 237 of October, 1971, which requires payment by the Contractor of Training Levy on all Contracts of more than 50,000/- in value and his Tender must include for all costs arising therefrom.</p>		
D	<p><b><u>STANDARD LEVY (STANDARDS ACT- CAP 496)</u></b></p> <p>The Contractor's attention is drawn to legal Notice No. 267 of 2<sup>nd</sup> 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><b><u>NATIONAL CONSTRUCTION AUTHORITY LEVY (NCA)</u></b></p> <p>The contractor shall comply with any required NCA approvals including any costs associated with execution of the works</p>		
E	<p><b><u>DEVELOPMENT APPROVALS</u></b></p> <p>The contractor shall allow for all necessary county government permits &amp; approvals with regard to these works. No claim for failure to comply with county governments requirements shall be entertained</p> <p>Allow for all necessary permits/approvals by the County Government of Kisumu</p>		
F	<p><b><u>VALUE ADDED TAX</u></b></p> <p>The Contractor's attention is drawn to the Finance Act 1993 and subsequent amendments thereof which requires payment by the Contractor of Value Added Tax (VAT) on construction services rendered. Whether VAT is added at the grand summary page or inclusive in the rates, The tender sum as stated in the form of tender shall be deemed to be inclusive of VAT unless otherwise stated in the tender document.</p>		
<p>Preliminaries</p> <p>Carried to collection</p> <p>KShs.</p>			

N2

**COLLECTION**

From page No.	P/1
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**PRELIMINARIES**

Preliminaries

**TO GRAND SUMMARY**  
**AT END OF BILLS**

**KSHS.**

N2

**MEASURED WORKS.**



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>OFFICE BLOCK</u></b>				
	<b><u>BILL NO.2 BUILDERS WORKS</u></b>				
	<b><u>ELEMENT NO.1 SUBSTRUCTURE WORKS</u></b> <b><u>(ALL PROVISIONAL)</u></b>				
	<b><u>Site clearance.</u></b>				
A	Clear site of medium size aggregates, small bushes and grub roots of small trees and cart away.	726	sm		
	<b><u>Excavations</u></b>				
	<b><u>Over-site excavations: 100-200mm</u></b> <b><u>Depth, load and deposit as instructed by</u></b> <b><u>the project manager.</u></b>				
B	Remove top soil average 200 mm; load and cart away .	726	sm		
C	Excavate for strip foundation not exceeding 1.5 meters deep.	218	cm		
D	Ditto over 1.5meters deep but not exceeding 3.0meters deep.	218	cm		
E	Excavate for column bases not exceeding 1.5meters deep.	157	cm		
F	Ditt over 1.5meters deep but not exceeding 3.0meters deep.	157	cm		
G	Ditt over 3.0meters deep but not exceeding 4.5meters deep.	157	cm		
H	Excavate for lift pit commencing from stripped level not exceeding 1.5 meters deep.	22	cm		
I	Ditt over 1.5meters deep but not exceeding 3.0meters deep.	22	cm		
J	Extra-over all excavation for excavating rock irrespective of class.	90	cm		
K	Level bottom of foundations to receive blinding.	168	sm		
<b>Carried to collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Return, fill-in and rum selected excavated materials around foundations.	487	cm		
B	Remove and cart away surplus excavated materials.	389	cm		
	<b><u>Diposal of water</u></b>				
C	Keeping all excavations free from all water including spring or running water.	1	Item		
	<b><u>Planking and strutting</u></b>				
D	Uphold the sides of all excavations.	1	Item		
	<b><u>Filling</u></b>				
E	Hardcore filling in making up levels, hand packed, 300mm thick in layers of 150mm maximum thickness.	615	cm		
F	50mm (average) thick quarry dust blinding to surfaces of hardcore.	615	sm		
	<b><u>Anti-termite treatment.</u></b>				
G	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.	615	sm		
	<b><u>Plain concrete (1:3:6) in : -</u></b>				
H	50mm thick blinding under foundations and bases.	168	sm		
	<b><u>Insitu vibrated reinforced concrete class 25(20mm agregate) 1:1.5:3 to;</u></b>				
J	Strip foundation.	40	cm		
K	Column bases.	53	cm		
L	Vertical columns.	18	cm		
M	150mm thick bed.	615	sm		
N	200mm thick walls.	7	cm		
<b>Carried to collection.</b>					



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Reinforcement</u></b>				
	<b><u>High yield mild steel ribbed bars including cutting, bending, spacers, tying wire and fixing; to KS 573:2014 in:-</u></b>				
A	8mm diameter.	985	kg		
B	10mm diameter.	1969	kg		
C	12mm diameter.	2461	kg		
D	16mm diameter.	5907	kg		
E	20mm diameter.	6399	kg		
	<b><u>Fabric; B.S. 4483</u></b>				
F	Reference A142 mesh weight 2.22 kgs per square meter ( measured net - no allowance made for laps( including bends, tying wire and distance blocks.	615	sm		
	<b><u>Expansion joints.</u></b>				
G	10mm thick approved filler between concrete/masonry surfaces.	16	sm		
	<b><u>Sawn formwork to insitu concrete as described to:-</u></b>				
H	Sides of strip foundation.	109	sm		
	<b><u>Sawn formwork to insitu concrete as described to:-</u></b>				
J	Column bases.	119	sm		
K	Vertical columns.	185	sm		
L	Sides of lift shaft.	80	sm		
M	Edges of ground floor slab; 75 to 150mm wide.	182	lm		
N	Ditto curved on plan.	6	lm		
<b>Carried to collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Foundation Walling.</u></b>				
	<b><u>Rough dressed squared natural stone walling in cement sand(1:3) mortar;</u></b>				
A	200 mm thick.	780	sm		
	<b><u>Damp proofing</u></b>				
B	Polythene sheet; 1000 gauge, 200mm weltd laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding.	615	sm		
C	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.	181	lm		
	<b><u>Plinths</u></b>				
D	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external.	58	sm		
E	Prepare and apply three coats black bituminous paint to rendered plinths externally.	58	sm		
	<b><u>Precast concrete</u></b>				
F	500x500x50mm thick precast concrete paving slabs laid on compacted murram bed; to fall with and including restraint mass concrete along both lengths.	279	sm		
<b>Carried to collection.</b>					
	<b><u>Collection.</u></b>				
	Brought forward from page 1.				
	Brought forward from page 2.				
	Brought forward from page 3.				
	Brought forward from page 4 above.				
<b>TOTAL FOR ELEMENT NO.1 SUBSTRUCTURE WORKS CARRIED TO SUMMARY.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b><u>ELEMENT NO.2 RC SUPERSTRUCTURE</u></b>					
<b><u>Insitu vibrated reinforced concrete class 25(20mm aggregate) 1:1.5:3 to;</u></b>					
A	Beams.	136	cm		
B	Vertical columns.	40	cm		
C	200mm thick walls.	29	cm		
D	150mm thick slabs.	1224	sm		
E	Staircases.	14	cm		
F	100mm thick for kitchen sink.	5	sm		
G	175mm thick landings.	26	sm		
H	RC gutters.	10	cm		
<b><u>Reinforcement</u></b>					
<b><u>High yield mild steel ribbed bars including cutting, bending, spacers, tying wire and fixing; to KS 573:2014 in:-</u></b>					
J	8mm diameter.	2108	kg		
K	10mm diameter.	14759	kg		
L	12mm diameter.	6325	kg		
M	16mm diameter.	18976	kg		
M	20mm diameter.	18976	kg		
<b><u>Sawn formwork to insitu concrete as described to:-</u></b>					
N	Soffits of landings.	26	sm		
O	Ditto of slab.	1224	sm		
P	Ditto staircase waist	40	sm		
Q	Sides and soffits of gutters	195	sm		
R	Sides of walls.	288	sm		
S	Edges of slabs 150-225mm high.	350	lm		
T	sides and soffits of beams	960	sm		
<b>Carried to collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Sawn formwork to insitu concrete as described to:-</u></b>				
A	Sides of columns.	359	sm		
B	Edges of risers over 75mm but not exceeding 150mm high.	264	lm		
C	Edges of staircase waistes over 150mm but not exceeding 225mm high.	33	lm		
D	Ditto staircase landing 150-225mm high.	12	lm		
	<b><u>Mastic asphalt roofing to comply with BS 8128:1998; in two coats on and including black sheeting felt to;</u></b>				
E	screeded gutter bottoms and sides finished with aluminium bituminous paint.	195	sm		
<b>Carried to collection.</b>					
	<b><u>Collection</u></b>				
	Brought forward from page 5				
	Brought forward from page above				
<b>TOTAL FOR ELEMENT NO.2 RC SUPERSTRUCTURE CARRIED TO MAIN SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO.3 WALLING AND PARTITIONS</u></b>  <b><u>Machine cut stone walling in cement and sand mortor(1:3) reinforced with and including 25mm wide x 5mm gauge hoop iron at alternate courses with minimum crushing strength of 7.0N/mm².</u></b>				
A	200mm thick walling.	1387	sm		
	<b><u>Machine cut stone walling in cement and sand mortor(1:3) reinforced with and including 25mm wide x 5mm gauge hoop iron at alternate courses with minimum crushing strength of 7.0N/mm².</u></b>				
B	150mm thick.	91	sm		
<b>TOTAL FOR ELEMENT NO.3 WALLING AND PARTITIONS CARRIED TO MAIN SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO.4 WINDOWS AND CURTAIN WALLING.</u></b>  <b><u>The following for aluminium framed windows.The contractor shall provide shop drawings to the project manager for approval before fabrication.</u></b>  <b><u>Structured curtain walling in heavy aluminium frames and sections and including 6mm thick tinted glass and glazing with and including aluminium beadings, hoisted and fixed to masonry or concrete all as per the Architect's drawings, complete with all necessary angle sections or RHS for fixing to concrete or masonry, clips and bolts.</u></b>				
A	Size 5000 x 6000mm high.	1	no		
B	Ditto size 4470 x 12500mm high.	1	no		
C	Ditto size 2100 x 12500mm high.	1	no		
	<b><u>Ditto to windows sizes:-</u></b>				
D	5900 x 2400mm high	12	no		
E	4600 x 2400mm high	20	no		
F	1500 x 1200mm high	3	no		
G	1200 x 2400mm high	3	no		
H	1000 x 1200mm high	3	no		
I	800 x 1200mm high	27	no		
	<b><u>Precast concrete class 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></b>				
J	100 x 200 mm Lintel reinforced with and including two 12mm diameter mild steel rods hooked at ends (in 2 No.)	223	lm		
Carried to collection.					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	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	223	lm		
<b>Carried to collection.</b>					
	<p><u><b>Collection</b></u></p> <p>Brought forward from page 8</p> <p>Brought forward from page 9 above</p>				
<b>TOTAL FOR ELEMENT NO.4 WINDOWS AND CURTAIN WALLING CARRIED TO MAIN SUMMARY.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO.5 DOORS</u></b>				
	<b><u>The following for metal doors fixed to masonry wall complete with all the necessary iron mongery; locks; and associated accessories; all to PM's opening schedule and approvals.</u></b>				
A	Size 900 x 2400mm high.	15	no		
B	Ditto but fire door complete with panic lock; size 1000 x 2400mm high.	4	no		
<b>TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO MAIN SUMMARY.</b>					



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO.6 ROOFING,COVERING AND RAIN WATER GOODS (All provisional).</u></b>  <b><u>The following in steel trusses comprising 50x50x2 mm thick purlins, 75x75mmx3mm rafter, 50x50x2mm ties and struts, 50x50x2mm wall plate and 50 x 50 x 2mm tie joists; hoisted approximately 3.00 meters above finished floor;</u></b>				
A	50 x 50 x 2mm angular purlins.	410	lm		
B	75 x 75 x 3mm SHS rafters.	4680	kg		
C	50 x 50 x 2mm SHS tie joists.	353	lm		
D	50 x 50 x 2mm SHS ties and struts.	104	lm		
E	50 x 50 x 2mm SHS wall plate.	97	lm		
F	Supply and fix IT4 gauge 28 box profile iron sheets from approved manufacturer; fixed to rafters with all necessary accessories.	488	sm		
	<b><u>Hertalan EPDM rubber sheeting or other equal and approved, laid in accordance with manufacturer's instructions to:-</u></b>				
G	Screeded roof laid to falls not exceeding 15 degrees from horizontal.	129	sm		
H	Bottom and sides of gutter.	194	sm		
	<b><u>Rainwater Goods</u></b>  <b><u>Down pipes</u></b>				
I	150mm square GCI pipe grade A well secured to wall with brackets at 900mm centers.	38	lm		
J	Extra over down pipe for swan neck.	4	no		
K	Ditto but for shoe.	4	no		
<b>TOTAL FOR ELEMENT NO.6 ROOFING,COVERING AND RAIN WATER GOODS CARRIED TO MAIN SUMMARY.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO.7 FINISHES.</u></b>				
	<b><u>Wall finishes.</u></b>				
	<b><u>Plaster to walls.</u></b>				
A	13mm thick cement sand plaster (1:4) to walling to receive paint.	1776	sm		
B	Ditto externally.	933	sm		
<b>Total for wall finishes carried to collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Ceiling Finishes</u></b>				
	<b><u>Cement sand(1:3) plaster;</u></b>				
A	12mm thick two coat plaster to soffits of ceiling.	1265	sm		
B	Ditto soffits of staircases waist.	40	sm		
C	Ditto soffits of landings.	26	sm		
<b>Total for Ceiling finishes carried to collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Painting &amp; decorations.</u></b>				
	<b><u>Prepare and apply one undercoat and two finishing coats Permaplast long lasting exterior paint;</u></b>				
A	Walls; Externally.	933	sm		
	<b><u>Ditto but gloss oil paint to;</u></b>				
B	Metal doors.	32	sm		
<b>Total for Painting carried to collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>COLLECTION</u></b>				
	Wall finishes brought forward from page12.				
	Ceiling finishes brought forward from page13.				
	Painting brought forward from page 14.				
<b>TOTAL FOR ELEMENT NO.7 FINISHES CARRIED TO MAIN SUMMARY.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT.8 BUILDERS' WORKS IN CONNECTION TO SPECIALISTS BUILDING SERVICES (All provisional)</u></b>  <b><u>Mechanical Works.</u></b>  <b><u>Builders Works in Connection to plumbing &amp; drainage installations.</u></b>  <b><u>Allow for chasing and cutting through masonry / reinforced concrete and making good; as directed by the PM; for the following fittings.</u></b>				
A	Kitchen sink size 1000 x 500mm.	2	no		
B	WHB.	12	no		
C	WC.	18	no		
D	600 x 450 x 5mm thick mirrors.	6	no		
E	Urinal bowls with automatic flushing system.	9	no		
F	Toilet roll holder(jumbo size).	18	no		
G	Hand dryers.	6	no		
H	Soap dispenser.	6	no		
<b>Mechanical installations carried to summary.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Electrical Works.</u></b>				
	<b><u>Builders Works in Connection to electrical installations.</u></b>				
	<b><u>Allow for chasing and cutting through masonry / reinforced concrete and making good; as directed by the PM; for the following fittings</u></b>				
A	Meter panel.	1	no		
B	Lighting points with associated switches.	96	no		
C	Socket outlet points.	120	no		
D	Consumer units or distribution boards.	8	no		
E	Cooker control points.	3	no		
<b>Total for element no.2 Electrical works carried to summary.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Structured Cabling Works.</u></b>  <b><u>Builders Works in Connection to structured cabling installation.</u></b>  <b><u>Allow for chasing and cutting through masonry / reinforced concrete and making good; as directed by the PM; for the following fittings.</u></b>				
A	150 X 50mm trunking	4	NO		
Total for element no.3 Structured cabling works carried to summary.					



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p align="center"><b><u>SUMMARY</u></b></p> <p>Mechanical installations brought forward from page 16.</p> <p>Electrical works brought forward from page 17.</p> <p>Structured Cabling brought forward from page 18.</p>				
<b>TOTAL FOR ELEMENT NO.8 BUILDERS' WORKS IN CONNECTION TO SPECIALISTS BUILDING SERVICES CARRIED TO MAIN SUMMARY.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p align="center"><b><u>MAIN SUMMARY</u></b></p> <p>Element No.1 Substructure brought forward from page 4.</p> <p>Element No. 2 RC Superstructure brought forward from page 6.</p> <p>Element No. 3 Walling and Partitions brought forward from page 7.</p> <p>Element No. 4 Windows and Curtain Walling brought forward from page 9.</p> <p>Element No. 5 Doors brought forward from page 10.</p> <p>Element No. 6 Roofing,Covering and Rain Water Goods brought forward from page 11.</p> <p>Element No. 7 Finishes brought forward from page 15.</p> <p>Element No. 8 Buider's works in connection to specialised installations brought forward from page 19.</p>				
<b>TOTAL FOR BILL NO. 2 BUILDERS WORKS CARRIED TO GRAND SUMMARY.</b>					

ND

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><b><u>BILL NO. 3 - INTERNAL PLUMBING &amp; DRAINAGE INSTALLATIONS (Basic pipework)</u></b></p> <p><b><u>This Section shall be priced by the main contractor's domestic subcontractors or the main contractor if so qualified and registered with NCA to undertake such specialist installations. The relevant NCA practising licenses for these specialist subcontractors should be attached along side the main contractor's. The total cost for these works exclusive of VAT shall be carried forward to the PC &amp; Provisional Sums page and the necessary attendance and profits &amp; overheads applied thereon.</u></b></p> <p><b><u>PLUMBING, DRAINAGE &amp; FIRE FIGHTING INSTALLATIONS (All provisional)</u></b></p> <p><b><u>Plumbing Piping (All provisional)</u></b>  <b><u>PPR Piping including all necessary excavations, backfilling, chasing in to walls, making good affected surfaces and all associated pipe jointing and termination fittings in :-</u></b></p>				
A	25mm supply piping from mains to elevated tank	65	LM		
B	40 mm main distribution piping from elevated tank to the building	32	LM		
C	32 mm distribution piping to washrooms and kitchen	31	LM		
D	25mm ditto to sanitary fittings	21	LM		
<b>Carried to Collection.</b>					

*N*

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Extra over PPR piping for the following fittings:-</u></b>				
A	450 x 20 mm high pressure flex tubes.	24	NO		
B	25mm peglar gate valves.	6	NO		
C	40 mm peglar gate valves.	3	NO		
D	32 mm peglar gate valves.	2	NO		
E	32 mm peglar ball valve.	2	NO		
F	25 mm CP angle valves.	18	NO		
	<b><u>Water Connection</u></b>				
G	Allow for connection to the water supply company mains including all obtaining and paying for all necessary permits and approvals.		ITEM		
	<b><u>Drainage</u></b>				
H	Manhole overall size 600x450x1000mm 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.	5	NO		
I	Standard 300x300x450mm masonry gully trap complete with 125mm thick reinforced concrete cover.	4	NO		
J	110mm diameter uPVC golden brown drain pipe ditto, and mass concrete surround.	44	LM		
K	100 x 50 mm 4 way PVC floor traps.	6	NO		
<b>Carried to Collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	50mm Heavy gauge UPVC pipes	18	LM		
B	40mm ditto	33	LM		
C	32mm ditto	25	LM		
D	40x32mm PVC reducer	6	NO		
E	40mm PVC elbows	15	NO		
F	40mm PVC tee	13	NO		
G	50mm inspection tee	5	NO		
H	50mm PVC elbows	5	NO		
I	100mm PVC bends.	8	NO		
J	110x50 boss connector.	9	NO		
K	110mm WC connector.	18	NO		
L	110 mm diameter heavy gauge light grey UPVC pipe as vent pipe on clipped on wall as necessary.	13	LM		
M	100mm Vent cowl and weathering.	3	NO		
	<b><u>Sewer Connection</u></b>				
N	Allow for connection to existing mains sewer line including obtaining and paying for all necessary permits and approvals.		ITEM		
	<b><u>Elevated Water Tank and Tower.</u></b>				
	<b><u>WATER TOWER (ALL PROVISIONAL)</u></b>				
O	Excavation for column bases n.e 1.50 meters deep starting from stripped level averaging 1.0 meterrs deep.	14	CM		
<b>Carried to Collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Extra-over excavation for excavating in rock irrespective of class.	1	CM		
B	Backfilling with selected excavated materials; rammed & compacted around foundations in layers of 150mm thick to structural engineers approval.	10	CM		
C	Cart away from the construction site surplus excavated material to an approved dumping site as directed.	4	CM		
	<b><u>Diposal of water</u></b>				
D	Keeping all excavations free from all water including spring or running water.		ITEM		
	<b><u>Planking and strutting</u></b>				
E	Uphold the sides of all excavations.		ITEM		
	<b><u>Filling</u></b>				
F	Hardcore filling hand packed, averaging 300mm thick in layers of 100mm maximum thickness with roller to PM's satisfaction.	6	CM		
G	50mm (average) thick quarry dust blinding to surfaces of hardcore.	9	SM		
	<b><u>Anti-termite treatment</u></b>				
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.	9	SM		
<b>Carried to Collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Concrete</u></b>				
A	50mm thick mass concrete class (1:4:8) to bottoms of foundation bases.	9	SM		
	<b><u>Insitu concrete; reinforced; class 20 / (20mm); vibrated.</u></b>				
B	Column bases.	6	CM		
C	Stub Columns.	2	CM		
	<b><u>Reinforcement.</u></b>				
	<b><u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks.</u></b>				
E	In assorted reinforcement of various sizes.	650	KG		
	<b><u>Sawn formwork to insitu concrete as described:-</u></b>				
F	To vertical sides of column bases.	18	SM		
G	To vertical sides of columns.	14	SM		
	<b><u>Bolts.</u></b>				
H	19 mm diameter x 250 mm long anchor bolts encased in to column concrete.	22	No.		
<b>Carried to Collection.</b>					



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Steel Sections</u></b>				
	<b><u>The following steel sections welded and bolted together to structural engineer's detail ; allow for primer and 2 finishing coats aluminium paint.</u></b>				
A	125 x 125 x 6 mm square hollow sections.	620	KG		
B	60 x 60 x 6 mm thick angular section bracings.	350	KG		
C	60 x 60 x 4 mm thick cat ladder angular sections.	32	KG		
D	45 x 45 x 3 mm thick cat ladder angular sections.	20	KG		
E	50.8 x 3 mm thick flat bar guard to cat ladder.	38	KG		
F	254 x 133 x 43 kgs/m H beams.	720	KG		
G	150 x 75 x 6 mm thick U channels.	810	KG		
H	45 x 45 x 3 mm thick angular sections rails and ballusters.	195	KG		
I	150 x 150 x 6 mm Gusset plates.	24	No.		
J	3 mm thick chequered plate.	19	SM		
<b>Carried to Collection.</b>					

N2

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Water storage tanks</u></b>				
A	Supply, deliver and install plastic moulded tank of capacity 5000 litres. The tank to be assembled complete with cover and having screwed connections for inlet, outlet, overflow, 25 mm medium pressure ball valve, drain pipes, Float switch regulators, Water level indicator and any other necessary item for its proper functioning with and including RC plinth on masonry foundation walling for ground ground tank. The tank shall be mounted on a platform and shall be as ROTO Model or approved equivalent.	1	No.		
B	Ditto but hoisting to the elevated tank tower (M/S) ditto.	1	No.		
<b>Carried to Collection.</b>					
	<b>COLLECTION</b>				
	From page PL 1				
	From page PL 2				
	From page PL 3				
	From page PL 4				
	From page PL 5				
	From page PL 6				
	From page above				
	<b>TOTAL FOR PLUMBING &amp; DRAINAGE CARRIED TO PC &amp; PROVISIONAL SUM.</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><b><u>BILL NO. 4 - ELECTRICAL CONDUITING &amp; DUCT WORKS</u></b></p> <p><b><u>(All works under this bill shall be limited to electrical conduiting and ductworks only). Fittings and wiring shall be installed separately and therefore the rates quoted should exclude the cost of such wirings and fittings.</u></b></p> <p><b><u>This Section shall be priced by the main contractor's domestic subcontractors or the main contractor if so qualified and registered with NCA to undertake such specialist installations. The relevant NCA practising licenses for these specialist subcontractors should be attached along side the main contractor's. The total cost for these works exclusive of VAT shall be carried forward to the PC &amp; Provisional Sums page and the necessary attendance and profits &amp; overheads applied thereon.</u></b></p> <p><b><u>Supply and fix the following in approved heavy duty conduits.</u></b></p>				
A	<p>20mm diameter heavy gauge conduits for two way switching couplers,sandle clips,circular boxes but excluding the fittings all ready to receive Lighting points completely wired in1.5 mm single core cable.</p>	2682	LM		
<b>Carried to Collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	20mm heavy gauge pvc conduits including couplers and twin boxes excluding the socket outlets (for SP sockets) to receive 3x2.5mm single core pvc insulated copper cables.	855	LM		
B	20mm diameter heavy gauge pvc conduits but excluding the 45A DP cooker control unit to receive 45A DP cooker control point, completely wired in 3x4mm <sup>2</sup> single core pvc insulated copper cables.	32	LM		
C	32mm Ø heavy gauge pvc conduits running from meter board to Distribution board to receive Sub mains cables comprising of 2x10mm <sup>2</sup> +6.0mm <sup>2</sup> single core pvc insulated copper cables drawn in.	10	LM		
<b>Carried to Collection.</b>					
	<p style="text-align: center;"><b><u>COLLECTION</u></b></p> <p>Brought forward from page EL 1</p> <p>Brought forward from page above.</p>				
<b>TOTAL FOR ELECTRICAL CONDUITING &amp; DUCTWORKS CARRIED TO PC &amp; PROVISIONAL SUM.</b>					

**PC & PROVISIONAL SUM.**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>BILL NO. 5 PRIME COST SUMS.</b>				
	<b><u>PRIME COST SUMS</u></b>				
	<b><u>Allow for the following PRIME COST SUMS for works to be executed by a domestic sub-contractor.</u></b>				
	<b><u>Electrical Installations</u></b>				
A	Kenya Shillings ..... ..... only for electrical works (Conduiting & ducting only) being amount carried forward from <b>PAGE EL Page 2.</b>		SUM		
	Allow for profits.		%		
	Allow for Attendance.		SUM		
	<b><u>Plumbing and internal drainage installations.</u></b>				
B	Kenya Shillings ..... ..... only for plumbing and internal drainage works (Pipeworks and provisions for sanitary associated services only) being amount carried forward from <b>PAGE PL Page 7</b>		SUM		
	Allow for profits.		%		
	Allow for Attendance.		SUM		
<b>Carried to Collection.</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>PROVISIONAL SUMS</u></b>  <b><u>Allow the following PROVISIONAL SUMS to be expended in whole or in part thereof or omitted in entirety; using the rates contained in this bill of quantities or prorata therefore under the PM's instructions;</u></b>  <b><u>Contingencies</u></b>				
A	Allow a Provisional Sum of Kenya Shillings two million five hundred thousands only (Kshs.2,500,000.00) for contingencies.		Sum		
<b>Carried to Collection.</b>					
	<b><u>COLLECTION.</u></b>  Brought forward from page 1.  Brought forward from page above.				
	<b>TOTAL PC &amp; PROVISIONAL SUMS CARRIED TO GRAND SUMMARY PAGE</b>				



## **GRAND SUMMARY**

**PROPOSED CONSTRUCTION OF ELDORET OFFICE BLOCK-**  
**BUILDER'S WORKS PHASE I**

**GRAND SUMMARY**

BILL NO.	DESCRIPTION	Page No.	CONTRACTOR'S USE		OFFICIAL USE	
			K.SHS.	CTS.	K.SHS.	CTS.
1	PRELIMINARIES.	P/15				
2	BUILDER'S WORKS.	BW / 20				
3	PRIME COSTS & PROVISIONAL SUMS.	PC 2				
	SUB-TOTAL					
	ADD 16% VAT					
GRAND TOTAL CARRIED TO FORM OF TENDER.			K.SHS.			

