

ITEM	DESCRIPTION	
A	<u>PROPOSED KIAMBU MUNICIPALITY OFFICE 2024</u>	
	<u>BILL NO.1 – CONDITIONS AND PRELIMINARIES</u>	
	<u>GENERAL PRELIMINARIES</u>	
	PARTIES	
	The Employer” is	
	P.o Box:	
	B PROJECT MANAGER	
	The term PM wherever used in these bills of quantities shall be deemed to imply the project Manager as defined in condition 1 of the conditions of contract or such person or persons as may be duly authorised to represent him on behalf of the government. This shall be the MAUD office Kiambu	
B	The “Architect” is The “Architect” shall be deemed to mean THE PM as defined above	
C	The “Quantity Surveyor” is The “Quantity Surveyor” shall be deemed to mean THE PM as defined	
D	The “Structural/Civil Engineer “ is The “Structural /Civil Engineer” shall be deemed to mean THE PM as	
E	The “Mechanical /Electrical Engineer ” is The “Mechanical Engineer” shall be deemed to mean THE PM as defined	
	Form Of contract The form of contract shall be stipulated in the republic of Kenyas standard tender Document for procurement of building works(2000) edition included herein. The conditions of contract are also included herein	
	Total to Collection of Preliminaries	Kshs

A	<p>For the purpose of the works, which are under the control of the</p> <p>ABBREVIATIONS</p> <p>Throughout these Bills of Quantities, units of measurements and terms are</p> <p>LM/m Shall mean Linear Metres</p> <p>SM:/m2 Shall mean Square Metres</p> <p>CM: /m3 Shall mean Cubic Metres</p> <p>KG: Shall mean Kilogram</p> <p>MM: Shall mean Millimeters</p> <p>No: Shall mean Number</p> <p>B.S: Shall mean the British Standards or British Standards</p> <p>Ditto: Shall mean the whole of the preceding description</p> <p>b.s.m: Shall mean both sides measured</p> <p>m.s: Shall mean measured separately</p> <p>P.C: Shall mean Prime Cost</p> <p>75 – 150 mm girth: Shall mean exceeding 75 mm but not exceeding 150 mm girth and all items described in a similar manner</p> <p>A Small pipe: Shall mean any pipe not exceeding 75 mm diameter.</p> <p>A large pipe: Shall mean any pipe exceeding 50 mm but not</p> <p>An extra large pipe: Shall mean any pipe exceeding 100 mm diameter</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
A	<p>VISITING THE SITE</p> <p>position, the nature of the ground, sub-strata and other local conditions, position of power and water supplies, access roads or any other limitations, and no claims for extras will be considered on account of lack of knowledge in this respect.</p>	
B	<p>DESCRIPTION OF WORKS</p>	

	<p>The works comprise of the erection and completion of one storeyed office</p> <table><tr><th>Floor</th><th>Area (SM)</th></tr><tr><td>Ground Floor</td><td>342.00</td></tr><tr><td>First Floor</td><td>307.00</td></tr><tr><td>Second Floor</td><td>342.00</td></tr><tr><td>Total Built-up Area</td><td>991.00</td></tr></table> <p><i>Note: The floor areas are for guidance only and are given without any</i></p> <p>The construction is of reinforced concrete bases and strip foundations;</p> <p>Floors – Ceramic Floor Tiles and Terrazo.</p> <p>Walls - External walls have wall master finish and keyed to</p> <p>Ceilings - Plaster and paint to concrete soffits and Gypsum</p> <p>Fittings To be in MDF boards with Granito Tile worktops to</p> <p>Total to Collection of Preliminaries Kshs</p>	Floor	Area (SM)	Ground Floor	342.00	First Floor	307.00	Second Floor	342.00	Total Built-up Area	991.00	
Floor	Area (SM)											
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Second Floor	342.00											
Total Built-up Area	991.00											
A	<p>Services to include Electrical Installations, Plumbing & Internal Drainage</p> <p>External works to include precast concrete block paving to parking and drives, waste water drainage, Storm water Drainage, and External Water Reticulation and precast concrete pavings around the building.</p> <p>ACCESS TO SITE For the Contractor shall allow the Project Manager and any other person authorised by the Project Manager, access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.</p>											
B	<p>STORAGE SPACE Working and storage space will be confined to the area designated by the Architect within the plot boundary. The Contractor shall protect from dust and debris the existing works, which is of high standard and must be maintained to same standard. This protection is not measured hereinafter and the Contractor must allow here in his rates for the above</p>											
C	<p>DRAWINGS</p>											

	<p>The Drawings used in preparing the Bills of Quantities are scheduled in Appendix "A" at the end of the Bills. Drawings may be inspected at the offices of the Architect or Quantity Surveyor by prior appointment.</p> <p><u>CONTRACT PARTICULARS</u></p> <p><u>FORM OF CONTRACT</u></p>		
E	current form of agreement and schedule of Conditions of Building works published by the joint Building Council, Kenya (April 1999 Edition) excepting in so far as varied hereafter.		
F	<p>-----</p> <p>Conditions of Contract which shall be read as incorporated herein and he shall allow any sums which he considers necessary for the carrying out and observance of such conditions.</p>		
	<p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>		
	FORMS OF CONTRACT		
A	Clause 1.0	Definitions.	
B	Clause 2.0	Articles of Agreement	
		The works shall be carried out on the plot	
C	Clause 3.0	General obligations of the Employer	
		Note: sub-clause 3.4 will be deleted	
D	Clause 4.0	General obligations of the Contractor.	
E	Clause 5.0	General obligations of the Architect	
F	Clause 6.0	General obligations of the Quantity Surveyor	
G	Clause 7.0	<p>Contract Documents</p> <p><u>Note: 1)</u> The word "Employer" in Clause 7.10.3 shall be deleted and replaced with the word "Contractor"</p> <p><u>Note: 2)</u> Clause 7.10.3 shall be re-numbered 7.10.5 while clause 7.10.5 shall be renumbered 7.10.3</p>	
H	Clause 8.0	Contract bills and Contract Price.	

		<p>The Contract Bills have been prepared in accordance with the standard method of measurement if Building works for East Africa, Second Edition (metric) (Second Printing) June 2008, Published by the Architectural Association of Kenya, Chapter of Quantity Surveyors, which is available for inspection at the offices of the Architect or the Quantity</p>	
I	Clause 9.0	Contractor's Site Agent and other staff.	
J	Clause 10.0	Clerk -of-works.	
K	Clause 11.0	Liability against Injury to persons and Property.	
Total to Collection of Preliminaries		Kshs	
FORMS OF CONTRACT (Continued)			
A	Clause 12.0	<p>Insurance against injury to persons and property</p> <p>The Contractor shall effect and maintain in the joint names of the Employer and the Contractor the following insurances as required by Clause 12.1.1 and 12.1.2 and shall allow for all costs thereof:</p> <p>(i) Employer's Liability (Workmen's Compensation)</p> <p>(ii) Third Party (Public Liability) for an indemnity of not less than KShs.5,000,000.00 for any one accident or series of accidents arising from the same event (unlimited in aggregate).</p> <p>Should the Contractor already hold annual Insurance covering the whole of his activities, and the indemnity required under this contract exceeds the indemnity under the existing policy/is, then further insurances shall be effected and maintained to cover the balance.</p> <p>The contractor shall ensure that all Sub-contractors effect and maintain such insurances as are necessary to cover their liabilities in respect of injury to persons and property and Workmen's Compensation.</p>	
B	Clause 13.0	<p>Insurance of the Works (Contractor's Liability)</p> <p>To give affect to the conditions of contract and the requirement contained herein, the contractor shall effect a Contract's All Risks policy to cover the full value of the following and allow for all costs thereof.</p>	

		<p>(i) The works and Temporary Works erected in performance of this contract.</p> <p>(ii) The Materials on Site Plant and Tools.</p> <p>(iii) The cost and expense of removing debris of the property insured, destroyed or damaged by any peril</p>	
C	Clause 14.0	<p>Insurance of works (Employer's Liability).</p> <p>The Contractor shall insure against loss or damage to his Plant, Tools and Equipment on the Site. Road Vehicles and the Temporary Buildings and Hutments erected in performance of this contract.</p> <p>Note: Clause 14.0 is to be deleted</p>	
Total to Collection of Preliminaries		Kshs	
	FORMS OF CONTRACT (Continued)		
A	Clause 15.0	<p>Insurance of the Works (Works of Alterations,</p> <p>The Insurance shall be effected by the Employer</p> <p>Note: Clause 15.0 is to be deleted</p>	
B	Clause 16.0	<p>Performance Bond.</p> <p>words "certified date of practical Completion" and add the words "issue of the Final Certificate".</p> <p>Sub-Clause 16.2 shall be deleted.</p>	
C	Clause 17.0	<p>Compliance with regulations, notices, etc.</p> <p>The Contractor's particular attention is drawn to the requirement to include in his tender for costs relating to the Training Levy and the Standards Levy. The Contractor shall include for all costs arising from observance of these requirements in the space provided elsewhere in these Bills of Quantities</p>	
D	Clause 18.0	Programme of Works	

		The Contractor will be responsible for arranging the Programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Suppliers	
E	Clause 19.0	Access to the Works	
F	Clause 20.0	Possession of Site and Commencement of works	
		Note: Sub-Clause 20.2 will be amended by the addition of the words “ or such other date as arises by virtue of extensions of time granted under Clause 36 of these Conditions.	
G	Clause 21.0	Leveling and setting out	
H	Clause 22.0	Architects Instructions	
		Note: Sub-Clause 22.5 will be amended to read. “Any instructions given directly by the Employer to the Contractor shall be of no immediate effect but the Contractor shall request the Architect for confirmation within the seven days, failing which the Contractor shall confirm the same in writing in the same manner as is such instructions shall be	
I	Clause 23.0	Specification of goods, Materials and	
J	Clause 24.0	Samples and Tests	
	Total to Collection of Preliminaries		Kshs
	FORMS OF CONTRACT (Continued)		
A	Clause 25.0	Royalties and Patents Rights	
B	Clause 26.0	Assignment	
C	Clause 27.0	Sub-letting	
D	Clause 28.0	Suspension of Works by the Architect	
A	Clause 29.0	Suspension of Works by the Contractor	
E	Clause 30.0	Variations.	
		Note: Sub-Clause 30.3 will be amended by the deletion of the words “the Employer and”.	

	<p>Sub-Clause 30.14 will be amended by changing “0.01%” to read “0.10%)</p> <p>Daywork Rates:</p> <p>Any Daywork ordered under Sub-Clause 30.6.3 shall be executed at the</p> <p>Labour: The Prime Cost to which * _____ per centum shall</p> <p>Materials: The Prime Cost (delivered to Site) to which</p> <p>Plant: The Nett Hire charge to which * _____ per centum</p> <p>These percentage additions shall cover all insurances,</p> <p>Dayworks will be allowed only where specifically</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
	<p>FORMS OF CONTRACT (Continued)</p> <p>A Clause 31.0 Nominated Sub-Contractors</p> <p style="padding-left: 40px;">The Contractor will be required to ensure that all Nominated Sub-Contractors enter into sub-contracts on the Standard "Agreements and Schedule of Conditions of Building Sub-contract" form issued under the authority of the Kenya Association of Building and Civil Engineering Contractors and as amplified of varied hereinafter and he must deposit</p> <p>B Clause 32.0 Nominated Suppliers</p> <p style="padding-left: 40px;">The Contractor will not receive any cash, trade or other discounts on Prime Cost and Provisional Sums. Any profit in Lieu of these discounts, which the Contractor desires must be priced by him against the appropriate item, provided in the Bills of Quantities. When tendering for works covered by Prime Cost and provisional sum the Contractor will be treated as</p>	

		<p>The Employer reserves the right to pay direct on the Certificates of the Architect some or all accounts in respect of works and materials covered by Prime cost and Provisional Sums due to Nominated Sub-Contractors or Nominated Suppliers and to deduct any amounts so paid from any sums otherwise payable to the Contractors, any profits which the Contractor may have allowed on Prime Cost and Provisional sums will be omitted from the contract Direct payment will not be deemed to construe omissions of the work from the Contract and the</p>	
C	Clause 33.0	Work by other persons engaged by the Employer.	
D	Clause 34.0	Payments	
		<p>Note: Sub-Clause 34.14 will be deleted.</p> <p>Sub clause 34.15 will be deleted.</p>	
	Total to Collection of Preliminaries		Kshs
	FORMS OF CONTRACT (Continued)		
A	Clause 35.0	Fluctuations	
		<p>Note: Sub-Clauses 35.3, 35.4, 35.5, 35.6. 35.7 and 35.8 are to be deleted. This shall be a fixed price Contract, in as far as these sub-clauses are concerned.</p>	
B	Clause 36.0	Extension of time	
	Note:	Sub-clause 36.1.2 to be amended as follows: " by reason of any exceptionally adverse weather conditions taking into consideration the worst weather conditions recorded in the past Three(3) years by the Meteorological Department"	
C	Clause 37.0	Loss and Expense caused by Disturbance of regular Progress of the Works.	
D	Clause 38.0	Termination of the contract by the Employer	
E	Clause 39.0	Termination of the Contract by the Contractor	
F	Clause 40.0	Termination of the contract by either party.	
G	Clause 41.0	Practical Completion and Defects Liability	

H	Clause 42.0	Sectional Completion	
I	Clause 43.0	Damages for Delay in Completion	
J		Note: Sub-Clause 43.1 will be amended by the addition “The certificate to be copied to the Contractor”	
K	Clause 44.0	Antiquities and other Objects of value.	
L	Clause 45.0	Settlement of Disputes. Sub-Clause 45.1 will be amended by the addition	
	Total to Collection of Preliminaries		Kshs
A	<p><u>APPENDIX TO THE CONDITIONS OF CONTRACT</u></p> <p>The Appendix to the Conditions of Contract will be filled as follows:.</p> <p>Percentage to cover Professional Fees for Insurance Purposes Only -</p> <p><u>Clause</u></p> <p>16.1 Name of Contractor’s Surety - To be inserted by Tenderer in the form of Surety Undertaking</p> <p>16.1 Amount of Surety.....10% of the Contract Sum</p> <p>16.2 Name of Employer’s Surety - Not Applicable</p> <p>16.2 Amount of Surety.....Not Applicable</p> <p>18.1 Period for Submission of Programme - 1 week</p> <p>20.1 Period for Possession of Site - To be</p> <p>20.2 Contract period - Twelve (12) Months</p> <p>20.2 Date for commencement of works -To be communicated by the Architect within 14 days of receipt of notice of Acceptance of Tender</p> <p>20.2 Date for Practical completion - To be determined after acceptance of tender.</p> <p>32.4.5 & 34.6 Name of Bank for purposes of Interest calculation: To be the average Commercial Bank Lending Rates published by the Central Bank of Kenya</p>		

	34.4	Minimum amount of payment certificate	10%	
	34.12	Percentage of Certified value retained	10%	
	34.12	Limit of retention fund	5%	
	34.15	Period of release of interest on retention money - to Contractor.	Not Applicable	
	Total to Collection of Preliminaries		Kshs	
	34.17	Period of final measurement and valuation	6 Months	
	41.6	Defects Liability Period	12 Months	
	43.1	Damages for Delay in Completion - Kshs.25,000.00 per day or part thereof.		
	<u>GENERAL MATTERS</u>			
A	<u>SUFFICIENCY OF TENDER</u>			
	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency if 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 Contactor shall allow for the payment of all stamp charges in connection with the Surety Bond			
C	<u>FIGURED DIMENTIONS</u>			
	Figured dimensions are to be followed in preference to dimensions scaled from the Drawing; but whenever 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.			

D	<p><u>PROGRAMME OF WORK AND PROGRESS SCHEDULE</u></p> <p>The Contractor shall within the period stated in the appendix to the schedule of conditions, from the date of award and prior to the signing of the Contract, provide approved detailed Work program and progress charts showing clearly the anticipated order and rate of progress of the works and substantiating the stated time for completion. Such progress charts shall be agreed with the Architects before commencing operations on site. Two copies shall be forwarded to the architect before commencing and one copy retained in the site office and updated from time to time</p> <p>PROVISIONAL WORK</p> <p>All “provisional” and other 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</p> <p>If the Contractor makes default in these respects he shall, if the Architect so directs, uncover the work at his own expense to enable the measurements to be taken.</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
A	<p><u>GENERAL MATTERS (Cont'd)</u></p> <p>RECORDS</p> <p>The Contractor shall allow for keeping records appertaining to the works and shall maintain on the site a daily diary recording weather conditions, temperatures, visitors to site and any accidents or incidents e.t.c.</p> <p>PROGRESS PHOTOGRAPHS</p> <p>The Contractor shall allow for supplying four copies of progress photographs per month to the Architect throughout the currency of the contract and in full plate size.</p> <p>PLANT, TOOLS AND SCAFFOLDING.</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 the same on completion.</p>	

D	<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 work, 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 guardrails 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 or in his rates for the above.</p> <p>EXISTING SERVICES</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 Architect and the relevant authority and shall be made good to their satisfaction at the</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
A	<p><u>GENERAL MATTERS (Cont'd)</u></p> <p>PERMANENT DIVERSION OF EXISTING SERVICES</p> <p>If in the opinion of the Architect and/or of the Competent authority or Employer it should become necessary permanently to remove or realign any existing pipe, sewer, field-drain, cable, ditch, or other service, other than allowed for in the Bills of Quantities, the Contractor shall obtain permission, where necessary from the competent authority or Employer and shall carry out and complete the work to the satisfaction of the Architect and such Authority or Employer. Payment for such additional work will be made in accordance with the Conditions of contract provided always that the necessity for such permanent diversion has not arisen due to the fault of</p> <p>In the event of the employer or responsible Authority electing to arrange for the permanent diversion of an existing service, the permanent diversion of which has become necessary due to the fault of the Contractor shall pay the cost of the said work within a reasonable period of the account being represented, the Employer reserves the right to settle the account and deduct the sum paid by him from monies due or which may become due to</p>	

B	<p>TRANSPORT TO AND FORM THE SITE</p> <p>The Contractor shall include in his prices for the transport of materials, workmen, etc. to and from the Site if the proposed works, at such hours and by such routes as are permitted by the Authorities.</p>	
C	<p><u>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ECT</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 Architect.</p>	
D	<p><u>POLICE REGULATIONS.</u></p> <p>The contractors' is to allow for complying with all instructions and regulations of the police Authorities.</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
A	<p><u>GENERAL MATTERS (Cont'd)</u></p> <p><u>CONTRACTORS' SUPERINTENDENCE</u></p> <p>The Contractor shall constantly keep on the Works a literate English-speaking Agent or Representative, Competent and experienced in the kind of work involved, and 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 Architect and such directions and instructions shall be deemed given to the Contractor in accordance with the Conditions of Contract. The Agent shall not be replaced without the specific approval of the Architect.</p> <p>It is to be a specific condition of this Contract that the successful Tenderer shall provide on site throughout the period up to the Date for Practical Completion a suitably qualify, 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>Before the Tender's offer is accepted the Architect will personally interview the Contractor's proposed Representative. A Curriculum vitae of past experience and qualifications must be provided for the Architect's scrutiny.</p> <p>The Architect's decision will be final regarding the suitability of the proposed representative.</p>	
B	<p><u>WATER</u></p>	

	<p>The Contractor shall provide at his own expense all water for use in the works including that used by Nominated sub-contractors.</p> <p>There is an existing water supply on site and should the Contractor make use of the same, the Contractor shall at his own cost provide a meter, temporary distribution pipes, storage tanks, etc., to be connected to the existing water supply on site and shall clear away same upon completion of the works</p> <p>The meter shall be used to determine the consumption of water whereby the contractor shall reimburse the Employer. However there is no guarantee that sufficient water will be available on site</p>	
C	<p><u>LIGHTING AND POWER</u></p> <p>The Contractor shall if so required arrange with the Power and Lighting Authority for a metered supply to the site and shall pay all charges for the same and for current consumed during the period of the Contract.</p> <p>Electricity is however available on site and should the Contractor make use of the same the Contractor shall at his own expense provide a check meter, all temporary connections, wiring, fittings, etc., to be connected to the existing power supply line and clearing away on completion.</p> <p>The meter shall be used to determine the consumption of electricity whereby the Contractor shall reimburse the Employer. However there is no guarantee that sufficient water will be available on site</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
A	<p><u>GENERAL MATTERS (Cont'd)</u></p> <p><u>RESTRICTIONS ON USE ROADS.</u></p> <p>The Contractor shall not run tracked vehicles or tracked plant on any public or private road without the written approval of the Architect and the responsible authority of Owner and subject to such conditions as each may reasonably require.</p> <p>The Contractor shall observe all weight and dimension restriction which apply to roads and tracks in Kenya and he shall comply with all reasonable restrictions which may from time to time be imposed by the Architect, Employer, Police, responsible Authority or Owner. Where damage to roads and tracks is caused by the Contractor this shall be repaired at the Contractor's expense. In particular the Contractor shall fill potholes in loadstone when these are deepened by his plant</p>	

	<p>The Architect shall have the power to restrict the Contractor's use of any roads, either in direction of traffic, speed of traffic of numbers of vehicles in order to preserve such roads or to make such roads safe for use by the general public. Where other contractors require the use of these roads or tracks, the Architect may prescribe times of usage, or any other form of control, which shall be executed by the Contractor, including the supply of traffic lights, flagmen, or any other thing.</p>	
B	<p><u>SAFETY</u></p> <p>The Contractor shall comply at all times with the requirements of the Factory Act (Cap 514). Building Construction Rules, Supplement 18, Legal Notice No. 40 dated 5th April, 1984 and ensure that the safety of his workpeople and authorized visitors to the Site is protected at all times. In particular there shall be proper provision of planked footways and guardrails to scaffolding, etc., protection against falling materials and tools and the sites shall be complied with promptly without additional cost to</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 Architect to the safety Officer shall be deemed to be Architect's Instructions, and shall be complied with promptly without additional cost to the contract.</p> <p>The Architect shall be empowered to suspend work on the Site should he consider these conditions are not being observed, and no claim arising from such a suspension will be allowed.</p>	
C	<p><u>PROTECTIVE CLOTHING</u></p> <p>The Contractor shall provide all protective or any other clothing 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 on site at all times.</p>	
	<p>Total to Collection of Preliminaries</p> <p>Kshs</p>	
A	<p><u>GENERAL MATTERS (Cont'd)</u></p> <p><u>LANGUAGE OF CORRESPONDENCE AND RECORDS</u></p> <p>All communication from the Contractor to the Architect shall be in the English language.</p>	

	<p>All books, times sheet, records, notes, drawings, documents, specifications and manufacturer etc shall be in the English language. If any of the aforementioned to be in another language a certified translation in English shall be submitted.</p>	
B	<p><u>SECURITY.</u></p> <p>The Contractor must take all precautions necessary for the safe custody of the works, materials public and employer's property on the site.</p> <p><u>MATERIALS AND WORKMANSHIP</u></p>	
C	<p><u>GENERALLY</u></p> <p>All materials shall be new unless otherwise directed or permitted by the Architect and in all cases where the quality of goods of 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 to 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>	
D	<p><u>REJECTED WORKMANSHIP OR MATERIALS</u></p> <p>Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the site and replaced at the Contractor's expense, as required.</p>	
	<p>Total to Collection of Preliminaries</p> <p>Kshs</p>	
A	<p><u>GENERAL MATTERS (Cont'd)</u></p> <p><u>PROPRIETARY MATERIALS.</u></p>	

Where proprietary materials are specified hereinafter the Contractor may propose the use of materials of other manufacturer but equal quality for approval by the Architect.

B **SAMPLES**

The Contractor shall furnish at the earliest possible opportunity before work commences and at his own cost, any samples of materials or workmanship that may be called for by the architect for his approval or rejection and any further samples in the cases of rejection until such samples are approved by the Architect and such samples, when approved shall be the minimum standard for the work to which they apply.

C **TESTING OF MATERIALS**

The Contractor is to allow for all expenses in connection with the testing of materials as specified hereunder including the supply and preparation of materials to be tested, the cost of the materials and their packing and conveyance to the nearest Ministry of Public Works or other equal and approved testing laboratory charges .e.t.c The following items of tests will be remeasured according to the number of tests actually called for by the Architect but unsuccessful tests will not be considered.

	No.	Rate
Water test (5 Litres)	5	
Sand tests(1/30th Cu.m.)	5	
Aggregate Tests(1/30th Cu.m.)	5	
Reinforcement tests(1 m of mild steel rod or high tensile bar of various diameters)	5	
Concrete tests(one test comprising six cubes and as described herein after)	20	

	Testing of stone or concrete blocks of various strengths(one test comprising of six blocks)	5	
	Total to Collection of Preliminaries	Kshs	
	<u>TEMPORARY WORKS</u>		
A	<u>OFFICE FOR THE CONTRACTOR, TEMPORARY STORES AND</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.		
B	<u>OFFICE FOR THE CONSULTANTS</u> The Contractor shall allow for erecting and maintaining temporary office accommodation for the use of the Consultants/clerk of works, size not less than 20 square metres of floor area 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		
C	<u>FIRST AID OUTFITS</u> The Contractor shall provide and maintain in easily accessible places at the site of the works adequate first aid outfits for the whole duration of the contract, to the satisfaction of he Architect.		
D	<u>SIGNBOARD AND ADVERTISEMENTS</u> The Contractor will be required to provide erect and maintain on site in a position to be approved by the Architect; throughout the Contract Period and clear away afterwards a signboard showing the title of the contract, Employer, names and addresses of the Consultants, Nominated sub-contractors and suppliers, Local Authority's approval No., and such other information as shall be required by the Architect. No other advertisement of any description including individual Sub-contractor's boards or bill posting will be permitted upon any part of the site. The tenderer is required		
E	<u>SANITATION</u> The Contractor shall provide and maintain in easily accessible places at the site of the works adequate sanitation for the whole duration of the contract, to the satisfaction of he Architect.		

	<p>The Contractor shall provide services of a sweeper and keep the toilet in a thoroughly clean and sanitary condition during the whole period of the works to the satisfaction of the Architect. On completion of the works the contractor shall deliver back the toilet in a clean condition. If any damage is done to the toilet during the construction period, the Contractor shall make good all such damage including painting dirty wall surfaces to the satisfaction the Architect all at his own cost before handing it over.</p>	
	<p style="text-align: right;">Total to Collection of Preliminaries</p> <p style="text-align: right;">Kshs</p>	
	<p>TEMPORARY WORKS (Cont'd)</p>	
A	<p>PLANT, TOOLS AND SCAFFOLDING</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 scantling and be provided with planked footways and guardrails to approval. 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</p> <p>Scaffolding is not measured hereafter, and the contractor must here or in his rates for the above.</p>	
B	<p>HOARDING</p> <p>The Contractor shall allow for hoarding around the site as shall be directed and to the satisfaction of the Architect</p>	
C	<p>EXISTING AND ADJACENT PROPERTY</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 indemnify 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 damages at his own expense and indemnify and Employer against any loss.</p> <p>The Contractor must take such steps and exercise such care and diligence as to minimize nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.</p>	
D	<p>WATCHING AND LIGHTING</p> <p>Works, stores, materials, plant, personnel e.t.c. both his own and Sub-contractor's and suppliers and shall provide all at his own risk and cost all watching, lighting and other precautions as necessary to safeguarding the works, plant and materials against damage and theft.</p> <p style="text-align: right;">Total to Collection of Preliminaries Kshs</p>	
A	<p><u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS (See also</u></p> <p><u>NOMINATED SUB-CONTRACTORS</u></p> <p>The Contractor shall be responsible for Nominated Sub-Contractors in every respect and in particular it shall be the Contractor's responsibility to ensure that each Sub-Contractor commences and completes the work in such manner and is ready on the Site with his materials, labour and special plant at such times so as to conform with the progress Schedule, as specified previously, and to ensure satisfaction progress.</p> <p>The Contractor shall also accept liability for and bear the cost of General Attendance on Nominated Sub-Contractors, which shall be deemed to include for:</p> <p>Allowing the use of standing scaffolding, maintenance and alteration of all</p> <p>The items for “General Attendance” given herein-after following Prime Cost Sums in respect of Sub-Contractors' work shall be deemed to include all the above.</p> <p>The Contractor shall also accept liability for and bear the cost of Special Attendance on Nominated Sub-Contractors' which shall include for one of more of the following:</p> <p>Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.</p> <p>The items for “Special Attendance” given herein-after following Prime Cost Sums shall include any one of more of the above items as set out in the particular reference.</p>	

	<p>Cutting away for and making good after the work of Sub-Contractors as may be required will be measured and valued separately by the Quantity Surveyor.</p>	
B	<p><u>NOMINATED SUPPLIERS</u></p> <p>The cost of "Fix Only" materials to be obtained from Nominated Suppliers which are covered by prime Cost or Provisional Sums shall include for taking delivery where directed, checking with invoices or indent, reporting and claiming damages for shortages and damaged goods. Defraying demurrage, signing for as having been received in good order, transporting, unloading, storing covering and protecting until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.</p> <p>Before placing any orders with Nominated Sub-Contractors or Nominated Suppliers the Contractor must ascertain that the terms and condition of the quotations and the dates of delivery of materials or execution of works comply with the terms of Contract and the Progress Schedule.</p>	
	<p style="text-align: center;">Total to Collection of Preliminaries Kshs</p>	
	<p><u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS (Cont'd)</u></p>	
A	<p><u>PRIME COST RATES</u></p> <p>Where description of items include a Prime Cost rate per unit this rate is to cover the net supply cost of the unit only. The Contractor's price must include for the cost of the unit at the rate stated, plus waste, taking delivery, storage, fixing in position, profit and overheads.</p> <p>The actual net cost per unit will be adjusted within the Final Account against the Prime Cost rate stated.</p>	
B	<p><u>PAYMENTS TO NOMINATED SUB-CONTRACTORS AND</u></p> <p>The Architect may direct that the sums to be paid to Nominated Sub-Contractors or Suppliers as shall be certified by the Architect be paid direct to the Sub-contractor or supplier and that the P.C. sum included in the Bills of Quantities may be deducted from the Contract Sum.</p>	
	<p><u>PROTECTION AND CLEANING</u></p>	
C	<p><u>PROTECTION</u></p>	

	<p>The Contractor shall cover and protect from damage. Including form inclement weather, all finished work and unfixed materials, including that of Sub-Contractors, etc., to the satisfaction of the Architect until the completion of the Contract, and carefully preserve all trees or bushes on or near the Site.</p>	
D	<p><u>CLEANING</u></p> <p>The Contractor shall, upon completion of the Works, at his own expense, remove and clear way all 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 Architect, 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 paint and cement stains. He shall also, at the discretion of the Architect, remove all rubbish and dirt as it accumulates. The Contractor is to find his own</p>	
E	<p><u>TRAINING LEVY</u></p> <p>1971, or most recent and any amendments thereafter ; which requires payment by the Contractor of Training Levy on all Contracts of more than Shs. 50,000/- in value and his Tender must include for all costs arising or resulting thereof.</p>	
F	<p>Performance bond</p>	
	<p>TRAINING AND CAPACITY BUILDING</p>	
A	<p>Allow sum for developing PM Office capacity in the ongoing project that supports their professional goals as well as strengthens their contribution to the department. The PM shall be tasked with giving guidance as to the best approach to achieving this.</p>	1,500,000
B	<p>Facilitate PM Office in the payment of Continuing Professional Development seminars undertaken within the contract period for those in professional bodies for enhancement of personal skills and proficiency</p>	1,000,000
	<p>Total to Collection of Preliminaries Kshs</p>	
	<p><u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS (Cont'd)</u></p>	
A	<p><u>STANDARDS LEVY</u></p> <p>The Contractor's attention is drawn to Legal Notice No. 267 of 22nd June 1990, or most recent and any amendments thereafter; which requires payment by the Contractor of Standard levy. His Tender must include all costs arising or resulting.</p>	
B	<p><u>VALUE ADDED TAX</u></p>	

	The Contractor's attention is drawn to the Finance Bill dated June, 1993; or most recent and any amendments thereafter; which stipulates that the value added in the provision of building services and his tender shall be deemed to include all costs arising or resulting there from.			
C	<u>NATIONAL CONSTRUCTION AUTHORITY REGULATIONS</u> The Contractor's is required to comply with all regulations and fulfil all requirements by the National Construction Authority guiding his operations on site including payment of any relevant charges levies that may be currently in place or shall be imposed by the Authority from time to time during the currency of the contract and his tender rates shall be deemed to include all costs arising or resulting therefrom.			
D	<u>ORDERING OF MATERIALS</u> The Contractor shall not use the Bills of Quantities for the purposes of ordering materials but must do so from detailed drawings			
E	<u>COMPLIANCE TO ENVIRONMENTAL AND SOCIAL</u> The contractor shall at his own cost fully comply with the Environmental and Social Management Plan as per the NEMA License. He shall ensure that all mitigation measures spelt out in the plan are strictly and fully adhered to. Failure to adhere to any of the terms spelt out in the plan may lead to suspension of the works by the project manager with all associated costs being borne by the contractor. The ESMP provides all details of project activities, impacts, mitigation measures, time schedules, costs, responsibilities and commitments proposed to minimize environmental impacts			
F	<u>ADHERENCE TO COVID-19 PREVENTION PROTOCOLS</u> The contractor shall at his own cost put in place Covid-19 prevention Protocols and clearly elaborate them in a Covid-19 Action Plan all in compliance with Standards for Management of Construction Sites and Welfare of Workers and the Community by The National Construction Authority as clearly spelt out in the Ministry of Health Guidelines i.e. screening, hand wash points, mask wearing, social distance enforcement, controlled movement communication principles etc <div>Total to Collection of PreliminariesKshs</div>			
	<u>PRELIMINARIES COLLECTION</u> <div>TotalFrompage1/15</div> <div>TotalFrompage1/16</div>			

	Total	From	page	1/17	
	Total	From	page	1/18	
	Total	From	page	1/19	
	Total	From	page	1/20	
	Total	From	page	1/21	
	Total	From	page	1/22	
	Total	From	page	1/23	
	Total	From	page	1/24	
	Total	From	page	1/25	
	Total	From	page	1/26	
	Total	From	page	1/27	
	Total	From	page	1/28	
	Total	From	page	1/29	
	Total	From	page	1/30	
	Total	From	page	1/31	
	TOTAL PRELIMINARIES CARRIED TO MAIN			Kshs	

PROPOSED KIAMBU MUNICIPALITY OFFICE 2024

BILL NO.1 – CONDITIONS AND PRELIMINARIES

PARTICULAR PRELIMINARIES

DESCRIPTION	UNIT	BILL QTY	UNIT RATE	BILL AMOUNT
Allow a provisional sum for ground breaking ceremony and expenses	Pc Sum	1	30,000.00	30,000.00
Include percentage of P.C sum in item 1.02 for Contractor's overhead and profit	%	30,000	5%	1,500.00
Allow a provisional sum for purchasing of Personal Protective Equipment [PPE] for the PM team	Pc Sum	1	28500000%	285,000.00
Include percentage of sum in item 1.04 for Contractor's overhead and profit	%	285,000	5%	14,250.00
Allow a provisional sum of Kenya Shillings twenty Thousand only (KShs.100,000/-) for communication,media and documentary for the duration of contract	Pc Sum	1	100,000.00	100,000.00
Include percentage of P.C sum in item 1.06 for Contractor's overhead and profit	%	100,000	10%	10,000.00
Allow provisional sum for provision of stationery and facilitation of office hire and operations during the contract period	Months	12	15,000.00	180,000.00
Include percentage of P.Csum in item 1.08 for Contractor's overhead and profit	%	180,000	5%	9,000.00
Prime cost sum for quality control	Pc Sum	1	500,000.00	500,000.00
Include percentage of P.C sum in item 1.10 for Contractor's overhead and profit	%	500,000	5%	25,000.00
Allow for HIV awareness campaigns and testing, TB testing, and medical camps as well as Free Medical and Dental Camps for the Red Nova community	Month	4	40,000.00	160,000.00
Include percentage of P.C sum in item 1.10 for Contractor's overhead and profit	%	160,000	5%	8,000.00
TOTAL				1,322,750.00

PROPOSED KIAMBU MUNICIPALITY OFFICE		SUBSTRUCTURE (ALL PROVISIONAL)			
		Qty	Unit	Rate	KSHS CTS
	BILL NO.3 - BUILDING WORKS				
	ELEMENT No. 1 SUBSTRUCTURE				
	DEMOLITIONS				
a	Generally for demolition of existing structure and cart away or store as directed by the project manager	450	m2		
	SITE PREPARATION				
	Clearing site vegetation, grubbing up roots and filling up voids left with selected excavated material;				
b	Bushes, shrubs, undergrowth or the like and cart away from site;	402	m2		
	EXCAVATING				
	Topsoil for preservation;				
c	200 mm average depth starting from existing ground level;	402	m2		
	Excavation to reduce levels;				
d	Not exceeding 1.5 m deep starting from stripped level;	200	m3		
	Excavations for column bases;				
e	Not exceeding 1.5 m deep starting from stripped level;	66	m3		
f	Over 1.5 m but not exceeding 3.0 m deep;	3	m3		
	Excavation for strip foundation footing;				
g	Not exceeding 1.5 m deep starting from stripped level;	29	m3		
h	Over 1.5 m but not exceeding 3.0 m deep;	3	m3		
	To Collection KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE			SUBSTRUCTURE (ALL PROVISIONAL)			
		Qty	Unit	Rate	KSHS	CTS
	D20 EXCAVATING AND FILLING; continued ...					
	Extra over excavation irrespective of depth for breaking out;					
a	Hard rock;	55	m3			
	DISPOSAL					
	Excavated material;					
b	Off site to contractor's tip;	187	m3			
	FILLING TO EXCAVATIONS					
c	Selected excavated material to make up levels compacted in layers not exceeding 225mm to approval of the Structural Engineer;	125	m3			
	HARDCORE					
d	Well compacted in layers of 300mm maximum thickness to approval of the Structural Engineer;	121	m3			
	QUARRY DUST BLINDING					
	Blinding on surfaces of hardcore fill;					
e	50 mm thick;	402	m2			
	HERBICIDES / INSECTICIDES					
	Applying to surfaces					
f	Apply anti-termite treatment; "Termidor" or equal and approved in accordance with manufacturers' printed specifications and ten years guarantee;	402	m2			
	To Collection KSHS					

PROPOSED KIAMBU MUNICIPALITY OFFICE			SUBSTRUCTURE (ALL PROVISIONAL)			
		Qty	Unit	Rate	KSHS	CTS
	E05 IN SITU CONCRETE CONSTRUCTION GENERALLY					
	50 mm thick mass concrete 1:3:6 foundation blinding;					
	To foundation;					
a	Generally;	250	m2			
	Vibrated Reinforced Concrete; Class 25(20mm agg); mix 1:1.5:3;					
b	Column Bases;	66	m3			
c	Strip foundation footings;	29	m3			
d	Columns;	3	m3			
e	Floor bed 150 mm thick;	402	m2			
	E20 FORMWORK FOR IN SITU CONCRETE					
	SAWN TIMBER FORMWORK					
f	Sides of Strip Foundation Footings;	200	m2			
g	Sides of Column bases;	95	m2			
h	Sides of Columns;	40	m2			
i	Edges of Floor Bed;150-225mm high;	80	m			
	To Collection KSHS					

PROPOSED KIAMBU MUNICIPALITY OFFICE		Qty	Unit	Rate	KSHS	CTS
	E30 REINFORCEMENT FOR IN SITU CONCRETE					
	REINFORCEMENT					
a	Fabric reinforcement to BS 4483; reference A 142 mesh 200 x 200 mm weight 2.22kgs per square metre	402	m2			
b	Assorted high tensile mild steel reinforcement	7840	Kg			
	F20 NATURAL STONE WALLING					
c	200 mm thick Approved natural stone walling; bedding and jointed in cement sand mortar (1:4); and reinforced with hoopiron every alternate course	255	m2			
	F30 ACCESSORIES AND SUNDRY ITEMS FOR BRICK, BLOCK AND STONE WALLING					
	DAMP PROOF COURSES					
d	Polythene based damp proof Membrane 1000 gauges; to 300 mm overlaps 200 mm wide;	402	m			
	To Collection KSHS					
		Qty	Unit	Rate	KSHS	CTS
	Collection					
	Total from Page 1					
	Total from Page 2					
	Total from Page 3					
	Total from Page 4					
			To Summary KSHS			

PROPOSED KIAMBU MUNICIPALITY OFFICE					FRAME
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. 2 SUPERSTRUCTURE				
	E05 IN SITU CONCRETE CONSTRUCTION GENERALLY				
	Vibrated Reinforced Concrete; Class 25(20mm agg); mix 1:1.5:3;				
	Columns;				
a	Generally;	32	m3		
	Beams;				
b	Generally;	45	m3		
	Suspended slabs;				
c	150 mm thick;	1102	m2		
	E20 FORMWORK FOR IN SITU CONCRETE				
	SAWN FORMWORK				
	Sides to columns;				
a	Over 300 mm wide;	410	m2		
	Sides and soffits of beams;				
b	Over 300 mm wide;	575	m2		
	Soffits of suspended slabs;				
c	Over 300 mm wide;	1102	m2		
	Edges of suspended slabs;				
d	Over 75mm but not exceeding 150 mm wide;	235	m		
	To Collection KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE		Qty	Unit	Rate	KSHS	CTS
	Reinforcement					
	Bars; high yield steel; cold worked; b.s. 4449 - 2005, including bends, hooks tying wire, distance blocks and spacers all in position as necessary;					
	Deformed Bars;					
a	Assorted Reinforcement	21930	Kg			
	ELEMENT No. 3 ROOF					
	J2I MASTIC ASPHALT ROOFING/INSULATION/FINISHES					
	APP waterproofing or equal and approved water proofing agent laid in accordance with the					
	Roofing to falls and cross falls not exceeding 15 degrees from horizontal;					
a	To flat roof; over 300 mm wide;	314	m2			
b	50 x 50 mm angle fillet dressing at joints;	77	m			
c	200 mm wide skirtings and dressings around fulbora pipe outlets;	12	m			
	M10 SAND CEMENT /CONCRETE SCREEDS /FLOORING					
	CEMENT AND SAND					
	15 mm thick backing screed; wood floated to receive concrete tiles; (m/s) to concrete or blockwork base					
d	Over 300 mm wide;	314	m2			
	M40 STONE /CONCRETE /QUARRY /CERAMIC TILING/MOSAIC					
	Precast Concrete interlocking tiles; to regular pattern; bedding, jointing and pointing in cement sand mortar					
	250 x 250 x 18mm thick; butt joints straight both ways; to cement and sand base (m/s);					
e	Floors; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; external	314	m2			
	To Collection KSHS					

PROPOSED KIAMBU MUNICIPALITY OFFICE					FRAME
		Qty	Unit	Rate	KSHS CTS
	Collection				
	Total from Page 5				
	Total from Page 6				
	To Summary KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE					STAIRS
		Qty	Unit	Rate	KSHS CTS
ELEMENT No. 4 STAIRS					
E05 IN SITU CONCRETE CONSTRUCTION GENERALLY					
Reinforced concrete; class 25/20; mix 1:1.5:3;					
Staircases					
a	Generally;	15	m3		
	Landings;				
b	175 mm Thick landing;	19	m2		
E20 FORMWORK FOR IN SITU CONCRETE					
SAWN FORMWORK					
Soffits of landings					
c	Over 300 mm wide;	19	m2		
	Sloping soffits of stairs;				
d	Over 300 mm wide;	38	m2		
	Edges of landing;				
e	Over 75 mm wide but not exceeding 150 mm high	30	m		
	Edges of risers;				
f	Over 75 mm wide but not exceeding 150 mm high	120	m		
	Open edge of strings;				
g	300 mm extreme width; including cutting to profile;	60	m		
To Collection KSHS					

PROPOSED KIAMBU MUNICIPALITY OFFICE					STAIRS
		Qty	Unit	Rate	KSHS CTS
	Finishes				
a	Average 38mm thick polished terrazo comprising 26mm thick cement sand screed backing and 12mm thick grano layer in approved colour pattern with and including dividing strips to approval.	19	m2		
b	Caborandum non slip inserts to approval	43	m		
	M20 PLASTERED /RENDERED				
	Plaster cement and sand 1:3; to steel trowelled smooth;;				
	12 mm thick in two coats;				
c	Over 300 mm; sloping soffits of staircase;	39	m2		
d	Over 300 mm; soffits of landings;	19	m2		
e	Over 300 mm; sides of staircase;	2	m2		
	To Collection KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE					STAIRS
	M60 PAINTING/CLEAR FINISHING				
	PAINTING				
	Prepare by skimming plastered surface; apply one undercoat; two coats Premium Quality Silk Vinly paint to Crown paints or equal and approved;				
a	Over 300 girth; to smooth plastered surfaces; internally; soffits of staircase	39	m2		
b	Over 300 girth; to smooth plastered surfaces; internally; soffits of landing	19	m2		
c	Over 300 mm wide; smooth plastered surfaces; sides of staircase	2	m2		
	Balustrades and Railings				
d	900mm High, 25x25x4mm Thick RHS baluster, fish tailed and grouted on one end at 500mm centres and screwed/ bolted on the other to handrail infilled with 25x25x4mm thick flats all cut and welded to approved detail	22	m2		
	Prepare and apply one undercoat and two finishing coats gloss paint on				
e	General surfaces of mild steel balustrades	22	m2		
	To Collection KSHS				
		Qty	Unit	Rate	KSHS CTS
	Collection				
	Total from Page 8				
	Total from Page 9				
	Total from Page 10				
	To Summary KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE				WALLS
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. 5 WALLING				
	F2I NATURAL STONE / MASONRY WALLING				
	Approved local stone; squared; machine cut or fine chisel dressed; bedding and jointed in cement sand mortar (1:4);				
	External walling;				
a	200 mm thick;	708	m2		
b	200 mm thick; parapet walling	79	m2		
	Internal walling;				
c	200 mm thick;	754	m2		
d	100 mm thick;	88	m2		
	Aluminium Partitioning				
	All Aluminium by "booth manufacturing Africa" or other equal and approved dimensions of the final completed sectional size after assembly of all manufacturer specified members including all required screwing/ bolting so as to be ready to receive the panels				
e	Approximately 2 room high partitions comprising coated aluminium framework and beadings (colour to Architects approval) : spaced at 1400mm maximum; vertically divided into 3 No panels, infilled with 12mm thick MDF fixed at 300mm centers with 35mm tek screw at butt joints, staggered at each side; 6mm thick ordinary glass film at 1000mm high and 4mm frosted glass with film 600mm high	57	m2		
	F3I PRECAST CONCRETE SILLS/LINTELS/COPINGS/FEATURES				
	PRECAST CONCRETE				
	Copings				
f	275 x 75 mm thick precast concrete class 20/20 coping, splayed top; weathered and twice throated; finished fair on exposed surfaces bedded straight on masonry parapet walls;	79	m		
	To Collection KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE					WINDOWS
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. 6: WINDOWS				
	WROUGHT IRON				
	Curtain rods;				
	Supply and fix 25mm diameter, 3mm thick hollow wrought iron double curtain rod complete set including wrought iron rod mounting and support brackets fixed onto walls with metal lugs; decorative finials to specifications; painted to architect's approval				
a	Curtain rods;	88	m		
	LI10 WINDOWS				
	STEEL CASEMENT WINDOWS;				
b	Supply deliver and fix purpose made steel casement windows furnished from 25x25mm SHS including	240	m2		
	Aluminium Frame windows				
c	Aluminium frame windows overall height of 7500mm high with and including all iron mongery	96	m2		
	Window cill				
d	250x75 insitu cast concrete window cill including throating and finishing in cement sand plaster to	154	m		
	GLAZING				
	4 mm Thick clear/obscure sheet glass and glazing to metal as described in :-				
d	In panes not exceeding 0.10 - 0.50 square metres	234	m2		
	M60 PAINTING AND FINISHING				
	PAINTING METAL				
	Prepare and apply two coats of gloss oil paint to metal surfaces:-				
e	General steel casement window surfaces (bsm);	245	m2		
	To Collection KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE				DOORS
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. 7: DOORS				
	L20 DOORS /SHUTTERS /HATCHES				
	<u>EXTERNAL DOORS</u>				
	External door				
	Supply, assemble and fix purpose made steel casement door; to architects approval, comprising of 40x40x2mm thick RHS frame all round, including fixing lugs, heavy duty hinges, locking devices and all ironmongery				
a	Door size 900x2400mm	26	No		
	FLUSH DOORS;				
	Supply and fix 45 mm Thick Solid core flush doors; moulded veneered both sides with quality mahogany veneer: hardwood lipped edges to BS 459; to referenced Architect's drawings;				
b	Door overall size 900 x 2550 mm high; to Architects' drawings;	5	No		
c	Door overall size 800 x 2550 mm high; to Architects' drawings; Ref. No. D03;	31	No		
	To Collection KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE				DOORS
		Qty	Unit	Rate	KSHS CTS
	PRIME GRADE STAINED; HARD WOOD				
	Door frames / transomes				
a	250 x 50 mm thick;	214	m		
	Architrave;				
b	45 x 25 mm thick;	214	m		
	Quadrant;				
c	25 mm quadrant;	214	m		
	M60 PAINTING AND FINISHING				
	Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry;				
	General surfaces				
d	Over 100 but not exceeding 200 mm girth;	214	m		
	Prepare surfaces: apply three coats polyurethane clear lacquer or other equal approved: on timber surfaces: to				
e	Frames; over 100 mm but not exceeding 200 mm girth;	214	m		
	Prepare and apply one coat and two finishing coats of gloss oil paint to metalwork surfaces				
	Internally on:				
f	General surfaces of timber doors	138	m2		
	Externally on:				
g	General surfaces of metal or glazed metal doors	115	m2		
	To Collection KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE				DOORS
		Qty	Unit	Rate	KSHS CTS
	P21 IRONMONGERY				
	NOTE: This section caters for <u>FLUSH DOORS & PANNEL DOORS ONLY</u> . Therefore all bidders <u>MUST</u> factor in their cost of all ironmongery and any other accessories as may be required in their rates of all other doors				
	Supply and Fix the following as per Union Catalogue or other equal and approved; to soft wood, hardwood or the like; fixing with screws;				
	Hinges;				
a	100 mm brass, heavy duty 2 ball bearing hinges;	26	Pair		
	Mortice Locks;				
b	Three lever mortice lock No. 2295 with one pair of lever handles with escutcheon No. 680-06-2	56	No		
c	Two lever mortice lock No. 2237 with one pair of lever handles with escutcheon No. 680-06-2	87	No		
d	25 mm Diameter rubber door stop raw bolted to floor or wall	65	No		
	100mm steel butt hinges with steel screws	170	prs		
	Ditto double swing hinges	9	pr		
	To Collection KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE				DOORS
		Qty	Unit	Rate	KSHS CTS
	Collection				
	Total from Page 11				
	Total from Page 12				
	Total from Page 13				
	Total from Page 14				
	Total from Page 15				
	To Summary KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE				WALL FINISHES
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. 10: WALL FINISHES				
	M10 SAND CEMENT /CONCRETE SCREEDS /FLOORING				
	CEMENT AND SAND				
a	15 mm thick backing screed; wood floated to receive Ceramic wall tiles; (m/s) to concrete or blockwork base generally;	314	m2		
b	300x600mm ceramic glazed tiles in appropriate adhesive and grouting to approval	314	m		
	Render; 15mm thick first coat of cement and sand 1:6; 3 mm second coat of cement sand and lime putty (1:10); steel trowelled smooth;	1780	m2		
	Prepare and apply one undercoat and two finishing coats of silk vinyl emulsion paint	1780	m2		
	External surfaces;				
c	Keying to masonry wall with 20mm deep cement sand mortar	567	m2		
d	Prepare and apply wallmaster to approval	357	m2		
	To Collection KSHS				

	PROPOSED KIAMBU MUNICIPALITY OFFICE			FLOOR FINISHES	
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. II: FLOOR FINISHES				
	M10 SAND CEMENT /CONCRETE SCREEDS				
	CEMENT AND SAND				
	32 mm thick backing; wood floated to receive Non-slip ceramic tiles; (m/s) to concrete or block work base generally;				
a	Over 300 mm wide;	940	m2		
b	100 mm high skirting;	890	m		
	Average 58mm thick polished terrazo comprising				
c	26mm thick cement sand screed backing and 12mm thick grano layer in approved colour pattern with and including dividing strips to approval.	540	m2		
	M40 STONE /CONCRETE /QUARRY /CERAMIC TILING/MOSAIC				
	Tenderer to Add for taking delivery and fixing on the P.C. Rate provided for fixing of tiles;				
a	330 x 330 x 8 mm thick; butt joints straight both ways; to appropriate adhesive and appropriate pattern including grouting joints in matching cement	940	m2		
b	100 mm high Ceramic tile Skirting;	741	m		
	To Collection KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE				CEILING FINISHES	
		Qty	Unit	Rate	KSHS CTS
	ELEMENT No. 12: CEILING FINISHES				
	K10 CEILINGS				
	M20 PLASTERED /RENDERED				
a	Plaster;15 mm first coat of cement and sand 1:6; 3 mm second coat of cement sand and lime putty (1:1:6); steel trowelled smooth;	940	m2		
b	Prepare and apply 12 mm thick in 2 No coats work; to concrete or blockwork base (m/s); generally to internal surfaces;	940	m2		
c	12mm thick gypsum ceiling on and including metal framework to approval	390	m2		
d	100x25mm moulded cornice	136	m2		
e	Prepare and apply 12 mm thick in 2 No coats work; of premium emulsion paint to approval	390	m2		
	To Collection KSHS				
PROPOSED KIAMBU MUNICIPALITY OFFICE				CEILING FINISHES	
		Qty	Unit	Rate	KSHS CTS
	Collection				
	Total from Page 17				
	Total from Page 18				
	Total from Page 19				
	To Summary KSHS				

PROPOSED KIAMBU MUNICIPALITY OFFICE					
		Qty	Unit	Rate	KSHS CTS
	Summary				
	SUBSTRUCTURES Page 4				
	FRAME Page 07				
	STAIRS Page 10				
	FINISHES: WINDOWS, DOORS Page 16				
	FINISHES: WALLS, FLOOR, CEILING Page 19				
	Carried To Summary of Building Works	Total for Bill KSHS			

BILL NO.4 :ELECTRICAL, ICT & CCTV BILL OF QUANTITIES					
PROPOSED SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF ELECTRICAL WORKS,					
PRELIMINARY AND GENERAL ITEMS					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Allow a provisional sum of Ksh. 150,000.00 for utility power connection including wiring certificate, internet & telephone connection and attendant services as instructed	Items	1		
2	Provide a PC sum of Ksh. 100,000 for quality control testing and attendance of the solar PV system installation	Lot	1		
PVC CONDUITING WORKS FOR ELECTRICAL, ICT, CCTV, DATA, SOLAR PV,ELEVATOR					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	conduit pipe 20mm	No	800		
2	conduit pipe 25mm	No	600		
3	conduit pipe 32mm	No	180		
4	coupler 20mm	No	560		
5	coupler 25mm	No	420		
6	coupler 32mm	No	126		
7	corner 25mm	No	300		
8	corner 32mm	No	100		
9	circular box 4 way 20mm	No	200		
10	circular box 4 way 25mm	No	50		
11	twin box black	No	275		
12	single box black	No	100		
13	PVC glue can 250ml	No	20		
14	insulating tape RBY	No	70		
15	Accessories and termination utilities as instructed	Items	1		
16	Allow a provisional sum for lift conduiting works	Lot	1		
	SUB TOTAL C/F TO ELEC BOQ SUMMARY PAGE				

ELECTRICAL CABLES & ACCESSORIES					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	1.5mm single cable red as Tronic/Metsec	Roll 90M	60		
2	1.5mm single cable black as Tronic/Metsec	Roll 90M	40		
3	1.5mm single cable yellow as Tronic/Metsec	Roll 90M	40		
4	2.5mm single cable red as Tronic/Metsec	Roll 90M	20		
5	2.5mm single cable black as Tronic/Metsec	Roll 90M	20		
6	2.5mm single cable yellow as Tronic/Metsec	Roll 90M	20		
7	4.0mm single cable red as Tronic/Metsec	Roll 90M	1		
8	4.0mm single cable black as Tronic/Metsec	Roll 90M	1		
9	4.0mm single cable yellow as Tronic/Metsec	Roll 90M	1		
10	10.0mm single cable red as Tronic/Metsec	Roll 90M	2		
11	10.0mm single cable black as Tronic/Metsec	Roll 90M	2		
13	Cable	M	50		
14	Accessories and termination utilities as instructed	Items	1		
	SUB TOTAL C/F TO ELEC BOQ SUMMARY PAGE				
SOCKETS, SWITCHES & ACCESSORIES					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	One gang 2 way switch	No.	25		
2	Two gang 2 way switch	No.	60		
3	Three gang 2 way switch	No.	30		
4	Four gang 2 way switch	No.	15		
5	Twin Socket 13A	No.	180		
6	Cooker connector 45A	No.	1		
7	Cooker socket with neon	No.	1		
8	Twin blank cover plate	No.	10		
9	Single blank cover plate	No.	10		
10	Round cover big	No.	20		
11	2BA	Pkt	10		
12	4BA	Pkt	10		
	SUB TOTAL C/F TO ELEC BOQ SUMMARY PAGE				

LIGHTING & ACCESSORIES					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Surface LED 18W downlight daylight as Tronic	No	184		
2	LED flood light 50W white waterproof IP65 as Tronic	No	11		
3	Crystal Chandelier Light at least 1.5M high and 0.5m width	No	1		
5	Accessories and termination utilities as instructed	Items	1		
	SUB TOTAL C/F TO ELEC BOQ SUMMARY PAGE				
SWITCH GEAR EQUIPMENT & ACCESSORIES					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	3 phase distribution board unit 8 ways	No	1		
2	Locable steel electrical draw box 400mm by 300mm	No	4		
3	Meter box 350mm by 350mm	No	1		
4	DIN rail	No	4		
5	Consumer unit 12 ways as Tronic	No	4		
6	Consumer unit 8 ways as Tronic	No	4		
7	MCCB 4 pole 150A 415V	No	1		
8	MCB DP 100A	No	5		
9	MCB DP 63A	No	9		
10	MCB SP 32A	No	28		
11	MCB SP 20A	No	16		
12	MCB SP 5A	No	20		
13	DP switch with neon 20A	No	2		
14	Complete standard earthing system with 10mm copper earth lead with earthing pit as instructed	No	1		
15	Accessories and termination utilities as instructed	Items	1		
	SUB TOTAL C/F TO ELEC BOQ SUMMARY PAGE				

HYBRID 5kW SOLAR PV SYSTEM WITH 5kWh BATTERY BANK TO POWER ALL THE LIGHTING					
No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	All in one hybrid integrated solar inverter/charger 5kW 48VDC plug & play combining functions of inverter, solar charger, AC grid charger and battery charger to offer uninterruptible power support in portable size. With the following specifications; as genuine Must inveter PV18-5048 VHM	No.	1		
	Inverter output 5,000W surge power 10,000W, 50Hz				
	Pure sine wave solar inveter waveform				
	AC voltage regulation				
	Built in 80A MPPT charge controller with overcharge protection				
	PV lithium battery activation function				
	Output power factor 1				
	Communication ports				
	Compatible to generator				
	Max PV array Voc 250V				
	Support parallel operation upto 3 units				
	AC input voltage 230VAC +/- 5%				
	Battery input				
	PV input power 4000W				
	AC output and transfer time less than 30ms				
	AC (grid power) /Solar priority selection				
	User - configurable LCD display				
	Maximum Solar/AC charge current 140A				
	Inverter output efficiency (peak) 93%, max charger efficiency 98%				
2	Half - cell type Solar PV panels 500W+/- monocrystalline high output, efficiency min 20% as Jinko (panel array PV total output 4kW)	No.	8		
3	Aluminium framework and accessories to mount the solar PV panels on rooftop	No.	8		
4	5kWh Lithium (LiFePO4) battery 48V, 100% DoD as WECO	No.	1		
5	Cabling accessories, termination utilities including conduits and connecting to the existing power supply as instructed	Items	1		
6	Lockable, secure metallic enclosure to house the inverter and battery in a safe place as instructed	Items	1		
7	Secure the solar panels on the roof to deter vandalism as instructed	Items	1		
8	operation training and renewable energy use capacity building as instructed	Item	1		
9	Include a percentage of sum in item 2.08 above for Contractor's overhead and profit	%	1		
10	Carbon dioxide (CO2) fire extinguisher 5kg pressure cylinder with mounting bracket and inspection sticker to be mounted next to the system.	No.	1		
11	Allow for 6 months maintenance and attendance of the solar installation during defects liability period	No.	1		
	NB.The hybrid solar PV system is to power all the building lights				
12	Accessories and termination utilities as instructed	Items	1		
	SUB TOTAL C/F TO BOQ SUMMARY PAGE				

BOQ PRICE SUMMARY PAGE FOR THE PROPOSED SUPPLY, INSTALLATION, TESTING & COMMISSIONING					
Bill	Description				AMOUNT
1	PRELIMINARY AND GENERAL ITEMS				
2	PVC COUNDUITING WORKS FOR ELECTRICAL, ICT, CCTV, DATA, SOLAR PV,ELEVATOR				
3	ELECTRICAL CABLES & ACCESSORIES				
4	SOCKETS, SWITCHES & ACCESSORIES				
6	SWITCHGEAR EQUIPMENT & ACCESSORIES				
7	HYBRID 5kW SOLAR PV SYSTEM WITH 5kWh BATTERY BANK TO POWER ALL THE LIGHTING				
E	GRAND TOTAL FOR ALL ELECTRICAL WORKS				

**BILL 5: PROPOSED KIAMBU MUNICIPALITY OFFICE
MECHANICAL WORKS**

	Description	Unit	Qty	Rate (Kshs.)	Amount (Kshs.)
	SANITARY FITTINGS <i>Supply, deliver, install and fix the following sanitary fittings including all materials and jointing to supply, waste/soil and overflow pipes. Duravit products are specified only as indication of quality. Equal and approved appliances may be supplied. Where trade names are mentioned, the Ref. no is intended only as a guide to the type of quality of fittings.</i>				
	Water Closet				
A	Closed Couple WC Suite in Vitereous China and approved colour comprising of WC bowl, 'P' or 'S' trap connector, heavy duty matching seat and cover with metal fixed chrome plated hinges and chrome plated push button with all other necessary accessories.	No.	22		
B	DISABLED SUITE				
	Disabled Water closet suite as 'Doc.M Rimless Super Pack' with white grab rails and seat PK8146WH, comprising of Avalon Rimless Horizontal Outlet pan and fittings, 4Litres Avalon Rimless Cistern, Fittings and Spatula Lever, Avalon Rimless Seat ring, sainless steel hinges with stability buffers.				
	Hand Rinse wash hand basin with 1 Centre Tap hole and Chrome Plated Overflow trim with bib tap .5No. avalon support rails with concealed fixing, Avalon Hinged support rail and toilet roll holder, complete with wall bolts, grid waste, cistern cover clips and any other necessary fitting. The installations to be done as per the manufacturers instructions .Should be complete with toilet roll holder and Toilet Roll Holder	No.	3		
C	Toilet roll holder Toilet roll holder in vitreous china to BS 3402 in white colour of size 165x165mm and recessed into wall. Toilet roll holder to be as Twyford's "SEMI RECESSED & ORNAMENTAL" accessories	No.	11		
D	Hand Driers Automatic Hand Drier in white colour, operating on an infra-red automatic sensing system with safety cut-out complete with plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 1.8 kw and to be of size 270 x 64 x 143mm deep	No.	8		
E	Wash Hand Basin Pedestal wash hand basin size 575 x 500mm with two tap hole, 32mm diameter chrome chain waste, chain stay hole, chrome plated non-conclusive time delay press, action pillar tap as COBRA model and heavy duty chrome platted bottle trap (32mm 'P' trap) with 75mm seal. All fittings to be approved.	No.	9		

Total C/F to collection page 7						

	Description	Unit	Qty	Rate	Amount (Kshs.)
A	Towel rail Wall mounted towel rail holder 600mm minimum length as Ideal Standard or approved equivalent.	No.	9		
B	Wash Hand Basin Counter-top wash hand basin size 575 x 500mm with two tap hole, 32mm diameter chrome chain waste, chain stay hole, chrome plated non-conclusive time delay press, action pillar tap as COBRA model and heavy duty chrome plated bottle trap (32mm 'P' trap) with 75mm seal. All fittings to be approved.	No.	12		
C	Robe Hook Single chrome robe hooks complete with fixing plates, wall flanges and screws as a Jaguar or approved equivalent	No.	30		
D	Soap Dispenser Soap dispenser, capacity 1.136 litres complete with plastic rawl plugs, fixing screws, lock and key complete initial fill of soap gel. The soap dispenser to be as ZAPLON'S MARK 7 model, size 125 x 100 x 290mm high or approved equivalent.	No.	9		
E	6mm thick polished plate glass, silver backed mirror with bevelled edge size 610x497mm plugged and screwed to wall with 4No. Chrome plated.	No.	12		
F	Urinals bowls Ceramic urinal bowl complete with 40mm heavy duty plastic bottle trap and 40mm diameter chrome plated outlet with grating firmly fixed on the wall with chrome plated screws. To include 9L automatic flash cistern. The fittings to be approved.	No.	9		
G	Urinal Bowl Divisions Ceramic urinal bowl divisions separating the above described urinal bowls fixed firmly on the wall. The fittings are to be approved.	No.	6		
H	Kitchen sink Double Bowl Double Drainer, (DBDD) stainless steel sink, size 1500x600mm, bowl size 430x420mm complete with, waste fittings, plugs, chain stays and 40mm diameter heavy duty plastic bottle with 75mm deep seal complete with a chrome plated swivel action mixer trap.	No.	2		
I	FLEXIBLE TUBING AND ANGLE VALVE 15mm diameter x 300mm long flexible connectors complete with integral 1/2" Chrome plated Angle valve for connecting the sanitary fitting to water supply. To be as Grohe P/Code:22 940 000, Complete with all necessary fitting accessories. or equal and approved.	No.	46		
Total C/F to collection page 7					

	Description	Unit	Qty	Rate	Amount (Kshs.)
	INTERNAL PLUMBING WORKS				
	Supply, deliver and install pipes, tubing and fittings as described and shown on drawings. The pipes shall PPR pipes where exposed to adverse weather conditions and all conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling. rates must allow for all metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves sockets, sliding and fixed joints etc. as required in the running lengths of pipe work and also where necessary, for pipe fixing clips, holder bats plugged and screwed for proper and satisfactory functioning of the system. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressure.				
	PPR				
A	63mm diameter pipe work	Lm	10		
B	50mm -ditto-	Lm	15		
D	20mm -ditto-	Lm	140		
E	25mm -ditto-	Lm	110		
F	40mm -ditto-	Lm	60		
G	32mm -ditto-	Lm	75		
	Bends				
H	20mm Diameter Bend	No.	60		
I	25mm Diameter Bend	No.	36		
J	32mm Diameter Bend	No.	25		
K	40mm -ditto-	No.	15		
M	50mm -ditto-	No.	2		
N	63mm -ditto-	No.	2		
	Tees				
O	63 equal tee	No.	4		
P	50 equal tee	No.	4		
Q	40 -ditto-	No.	30		
R	32 -ditto-	No.	45		
S	25 -ditto-	No.	75		
T	20 -ditto-	No.	30		
	Reducers				
U	63x50 -ditto-	No.	2		
V	63x32 -ditto-	No.	2		
W	63x25 -ditto-	No.	4		
X	50x40 -ditto-	No.	20		
Y	50x32 -ditto-	No.	15		
Z	50x25 -ditto-	No.	15		
Total C/F to collection page 7					

	Description	Unit	Qty	Rate	Amount (Kshs.)
	Reducers				
A	40x32 -ditto-	No.	10		
B	40x25 -ditto-	No.	10		
C	32x25 -ditto-	No.	35		
D	32x20 -ditto-	No.	45		
E	25x20 -ditto-	No.	60		
	Threaded Fittings				
F	20mm diameter male/female threaded 90° elbow	No.	45		
G	50mm diameter male/female threaded 90° elbow	No.	20		
	Valves				
H	63mm dia. Approved medium pressure screw down full way non-rising stem wedge gate valve to BS 5154 or series b rating, with wheel and head joints to steel tubing and complete with male threaded transition fittings. The gate valve to be as "Pegler" or approved equivalent	No.	1		
I	50mm -ditto-	No.	2		
J	40mm -ditto-	No.	2		
K	32mm -ditto-	No.	3		
L	25mm -ditto-	No.	6		
	Non-Return Valve				
M	25mm ditto	No	6		
	Unions				
N	63mm diameter union	No	2		
O	50mm ditto	No	2		
P	40mm ditto	No	10		
Q	32mm ditto	No	12		
R	25mm ditto	No	18		
	Water storage tank - Roof tank				
S	Supply and install water storage tanks of capacity 5000 litres made of plastic of dimensions 2.4m diameter and 1.25m height as Rotor or equivalent approved. The tank shall be complete with inlet, outlet, overflow and drain connection. It should have a 20mm diameter medium ball valve with silencer pipe, bronze lever and copper float all as "Glenfield or approved equivalent. The tank shall be firmly supported in the roof at high level. Mounted on a plynth for as approved	No.	4		
	Water Meter and Water Connection				
T	Allow for water connection to local council mains and 32mm water meter as 'Kent' or approved equivalent complete with water connection charges.	Item	1		
U	Pressure testing and commissioning the internal drainage installations	Item	1		
Total C/F to collection page 7					

	Description	Unit	Qty	Rate	Amount (Kshs.)
	INTERNAL FOUL DRAINAGE				
	<i>Supply, deliver and install the following UPVC, MUPVC, soil and waste system respectively to B.S 5255 with fittings fixed to manufacturers printed instructions and manufactured by reputable manufacturers. Tenderers must allow in their pipework prices for all the couplings, clippings, connectors, joints etc. as required in the running lengths of pipework and allow for connection to the nearest manholes and also where necessary, for pipe fixing clips, holder bats plugged and screwed for the proper and satisfactory functioning of the system.</i>				
	UPVC and MUPVC Soil and Waste				
A	150mm diameter Heavy gauge golden brown UPVC pipe	Lm	100		
B	100mm diameter Heavy gauge golden brown UPVC pipe	Lm	140		
C	100mm diameter Heavy gauge grey UPVC pipe	Lm	110		
D	50mm -ditto-	Lm	95		
E	40mm -ditto-	Lm	75		
F	32mm -ditto-	Lm	60		
	Bends				
G	100mm diameter bend with access	No.	25		
H	50mm diameter sweep bend	No.	30		
I	40mm diameter sweep bend	No.	18		
J	32mm diameter sweep bend	No.	18		
	Tees				
K	50mm diameter sweep tee	No.	10		
L	40mm diameter sweep tee	No.	16		
M	32mm diameter sweep tee	No.	22		
	Reducing Socket				
N	100 x 50 reducing socket	No.	10		
O	50x40 reducing socket	No.	8		
P	40 x 32 reducing socket	No.	8		
Q	100mm diameter WC connector	No.	25		
	Traps				
R	100 x 50mm diameter four way floor trap and grating	No.	25		
S	Standard 300 x 300 x 450mm masonry gully trap complete with 125mm reinforced concrete cover	No.	6		
	Weathering slates and vent cowls				
T	100mm weathering slate and apron	No.	3		
U	100mm vent cowl	No.	3		
V	Inspection channel complete with heavy duty cover (600 x 450 mm)	No.	15		
W	Testing and commissioning the internal drainage installations	Item	1		
Total C/F to collection page 7					

FIRE FIGHTING INTALLATION

	Description	Unit	Qty	Rate	Amount (Kshs.)
	FIRE FIGHTING EQUIPMENT Supply, deliver and install the following fire fighting equipment in the position indicated on the contract drawing or as shall be instructed by the Engineer. Supply and install the following fire fighting equipment as described and shown on the drawings. Tenderers should allow for all fittings, joints, couplings including unions and clamps where necessary for the proper functioning of the installation when pricing.				
	Portable fire extinguishers Supply, deliver, install, test and commissioning of the following portable fire extinguishers and conforming to BS EN 3/ BS 1449				
A	9 litres water/carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets	No.	6		
B	5kg carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets	No.	6		
C	9kg chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets	No.	6		
D	Manual alarm bell 9" (225mm) manual operated alarm bell (gong) fire blanket made of cloth woven with pre-asbestos yarn or any other fire proof material and to measure 1800 x 1210mm	No.	3		
E	Fire Blanket Shall be fitted with special tapes folded so as to offer instantaneous single action to release blanket from storing jacket BS 1721	No.	2		
F	Fire Notices Allow for fire signage for the hose reel system, fire exits, fire instructions and must include fire assembly point as described in the particular specifications and to the Project Engineer's approval	Item	2		
Total C/F to collection page 7					

COLLECTION PAGE FOR SANITARY FITTINGS, PLUMBING, DRAINAGE AND FIRE PROTECTION

Item	Description	Amount (Ksh)
1	Total Carried Forward from Page 1	-

2	Total Carried Forward from Page 2	-
3	Total Carried Forward from Page 3	-
4	Total Carried Forward from Page 4	-
5	Total Carried Forward from Page 5	-
6	Total Carried Forward from Page 6	-
Total for Sanitary fittings, Plumbing, Drainage and Fire Protection services		-

ITEM	DESCRIPTIONS	QTY	UNIT	RATE	AMOUNT (KSHS)
	BILL NO 6 - PRIME COSTS & PROVISIONAL SUMS				
3	Allow a sum of Kenya Shillings one million five hundred thousand (Kshs.1,500,000.00) Only for cabinetry and other joinery services ;		sum		1,500,000.00
4	Allow a sum of Kenya Shillings (Kshs. 1,000,000.00) Only for external works ;		Sum		1,000,000.00
5	Allow a sum of Kenya Shillings one million, five hundred thousand (Kshs.1,500,000.00) Only for Contigencies ;		Sum		1,500,000.00
6	Allow a sum of Kenya Shillings one million, six hundred thousand (Kshs.1,600,000.00) Only for gate and guardhouse ;		Sum		1,600,000.00
7	Allow a sum of Kenya Shillings six hundred thousand (Kshs.600,000.00) Only for renovations for the Kiambu sub-county office ;				600,000.00
8	Allow a sum of Kenya Shillings five hundred thousand (Kshs. 500,000.00) Only for signage and branding				500,000.00
	Total Carried to Collection				6,700,000.00

PART NO.	PART	PAGE NO.	AMOUNT KSHS.
	<u>BILLS OF QUANTITIES</u>		
	<u>I.No. KIAMBU COUNTY MUNICIPAL OFFICE</u>		
1	GENERAL CONDITIONS AND PRELIMINARIES		
2	PARTICULAR PRELIMINARIES		1,322,750.00
3	MAIN BUILDING WORKS		
4	ELECTRICAL WORKS		
5	MECHANICAL WORKS		
6	PRIMECOST AND PROVISIONAL SUMS		6,700,000.00
TOTAL ESTIMATED AMOUNT FOR OFFICE BLOCK [V.A.T INCLUSIVE]			

Total Built Up Area

Cost Per Square Metre

Signature:

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Builders Work