



**PROPOSED OFFICE FIT-OUT AND RENOVATION WORKS AT  
CORPORATE BUSINESS CENTRE (CBC) BUILDING, ELGON ROAD, UPPER  
HILL, NAIROBI  
FOR  
KENYA REVENUE AUTHORITY**

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**BILL OF QUANTITIES - PHASE 1  
VOLUME 2**

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**TENDER NO.  
KRA/HQS/NCB-073/2019-2020**

**TIMES TOWER BUILDING  
P.O. BOX 48240 - 00100  
Email: [eprocurement@kra.go.ke](mailto:eprocurement@kra.go.ke)  
NAIROBI, KENYA**

**CLOSING DATE: 2<sup>ND</sup> JUNE 2020  
TIME: 11.00 AM**

## SIGNATURE PAGE AND NOTES

### BILLS OF QUANTITIES

SUPPLIED AS PART OF THE PROPOSED INTERIOR DESIGN FIT OUT & RENOVATION WORKS AT KRA - PHASE 1

FOR

Kenya Revenue Authority  
CBC - UPPER HILL  
Nairobi, Kenya

THE CONTRACT FOR THE ABOVE MENTIONED WORK ENTERED INTO ON THE .....DAY OF ..... 2020 BY THE UNDERSIGNED PARTIES REFERS TO THESE BILLS OF QUANTITIES PAGES NUMBERED AS PER THE FOLLOWING INDEX; ANNEXURES FROM "A" TO "B"

WHICH TOGETHER WITH THE AGREEMENT & SCHEDULE OF CONDITIONS OF BUILDING CONTRACT AND CONTRACT DRAWINGS SHALL BE READ AND CONSTRUED AS PART OF THE SAID CONTRACT.

THESE CONTRACT DOCUMENTS SUPERSEDE ALL ENQUIRIES, PROPOSALS, AGREEMENTS, NEGOTIATIONS AND COMMITMENTS WHETHER WRITTEN OR VERBAL, PRIOR TO THE DATE OF THE EXECUTION OF THE CONTRACT.

.....  
CONTRACTOR

.....  
EMPLOYER

.....  
DATE

.....  
DATE

.....  
WITNESS

.....  
WITNESS

.....  
DATE

.....  
DATE

8.1 FORM OF TENDER

Date: \_\_\_\_\_

Tender No.: \_\_\_\_\_

TO: The Kenya Revenue Authority (KRA)  
P.O. Box 48240 - 00100 GPO  
Nairobi, Kenya

Gentlemen and/or Ladies

1. Having examined the tender documents including Addenda Nos. \_\_\_\_\_ (*insert numbers*), the receipt of which is hereby duly acknowledged, we, the undersigned, carry out work for the **Proposed Office Fit-Out and Renovation Works at Corporate Business Centre (CBC) Building, Elgon Road, Upper Hill, Nairobi (KRA/HQS/NCB-073/2019-2020** in conformity with the said tender documents for the sum of .....  
.....  
..... (*Total tender amount in words and figures*) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender
2. We undertake, if our Tender is accepted, to carry out the works in accordance with the work plan specified in the Schedule of Requirements.
3. If our Tender is accepted, we will obtain the guarantee of a bank in a sum of equivalent to **10** percent of the Contract Price for the due performance of the Contract, in the form prescribed by Kenya Revenue Authority
4. We agree to abide by this Tender for a period of **335 days** from the date fixed for tender opening of the Instructions to Tenderers, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. This tender, together with your written acceptance thereof and your notification of award, shall constitute a Contract, between us. Subject to signing of the Contract by the parties.
6. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(In the capacity of)

Duly authorized to sign tender for and on behalf of \_\_\_\_\_

# PRELIMINARIES

Preliminaries

*Proposed Office Interior Fit out for KRA - Phase 1*

Item	Description	Amount
	<p><b><u>SECTION NO.1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b>BILL NO. 1</b></p> <p><b>PARTICULAR PRELIMINARIES</b></p> <p><b>A <u>NOTES TO PRELIMINARIES</u></b></p> <ol style="list-style-type: none"> <li>1. The Form of Contract shall be the Agreement and Schedule of Building Contract 1999, Edition published by the Joint Building Council of Kenya.</li> <li>2. Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only.</li> <li>3. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or supplements as will apply, are given under each relevant clause heading.</li> <li>4. Notwithstanding the terms of Clause 8, where modifications or amendments as described are made, such modifications and/or amendments shall supersede any conflicting provision in the relevant clauses of the Agreement and Schedule of Conditions of Building Contract and Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clause as modified and/or amended.</li> <li>5. Where any item is not relevant to this specific contract, such item is marked N/A (signifying “not applicable”).</li> <li>6. Tenderers shall allow opposite each clause for all costs involved in complying with such clause. Items left unpriced shall be understood to be covered in prices against other items throughout these Bills of Quantities. No claim for any extras arising out of the tenderer’s omission to price any item shall be entertained.</li> <li>7. Notwithstanding anything to the contrary contained in any of the contract documents including the Agreement Schedule of Conditions of Building Contract and the Preliminaries, the provisions of the “Preliminaries” as hereafter set forth shall prevail and shall take precedence.</li> <li>8. Unless otherwise defined the term Sub-Contractor shall mean Nominated Sub-Contractor.</li> </ol> <p><b>B <u>CONTRACT PARTICULARS</u></b></p>	
	<b>Carried to Collections</b>	
	Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i>	

Item	Description	Amount
	<p><b>FORM OF CONTRACT</b></p> <p>The Contractor will be required to enter into a Contract which will be the 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.</p> <p>The Contractor's attention is called to the following Clauses of the 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>Clause 1.0 Definitions.</p> <p>Clause 2.0 Articles of Agreement</p> <p>Clause 3.0 General obligations of the Employer.</p> <p><b>Note:</b> Sub-Clause 3.4 will be deleted.</p> <p>Clause 4.0 General obligations of the Contractor.</p> <p>Clause 5.0 General obligations of the Architect.</p> <p>Clause 6.0 General obligations of the Quantity Surveyor.</p> <p>Clause 7.0 Contract Documents.</p> <p>Clause 8.0 Contract Bills and Contract Price.</p> <p>The Contract Bills have been prepared in accordance with the Standard method of measurement of Building Works for East Africa, Second Edition Metric (Second Printing) July 1989, published by the Architectural Association of Kenya, Chapter of Quantity Surveyors, which is available for inspection at the offices of the Quantity Surveyor by appointment.</p> <p>Clause 9.0 Contractor's Site Agent and other staff.</p> <p>Clause 10.0 Clerk-of-Works.</p> <p>Clause 11.0 Liability against Injury to Persons Property.</p> <p>Clause 12.0 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 style="text-align: right;"><b>Carried to Collections</b></p>	
	<p>Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Bill of Quantities

Item	Description	Amount
	<p>(ii) Third Party (Public Liability) for an Indemnity of not less than Shs. 5,000,000.00 for any one accident or series of accidents arising from the same event (unlimited in aggregate).</p> <p>(iii) 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/ies, then further insurances shall be effected and maintained to cover such excess.</p> <p>(iv) 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> <p>Clause 13.0 Insurance of the Works (Contractor's Liability)</p> <p>To give effect to the Conditions of Contract and the requirements contained herein, the Contractor shall effect a Contractor'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 insured.</p> <p>(iv) Professional Fees (to be allowed at 14.50% of the Contract Sum)</p> <p>Clause 14.0 Insurance of the Works (Employer's Liability).</p> <p>The Contractor shall insure against loss or damage to his own Plant, Tools and Equipment on the Site, Road Vehicles and the Temporary Buildings and Hutments erected in performance of this contract.</p> <p><b>Note:</b> Clause 14.0 and 15.0 will be deleted.</p> <p>Clause 15.0 Insurance of Works (Works of Alterations, etc.)</p> <p>The Insurance shall be effected by the Employer.</p> <p>The Contractor shall insure against loss or damage to his own Plant, Tools and Equipment on the Site, Road Vehicles and Temporary Buildings and Hutments erected in performance of this contract.</p> <p><b>Note:</b> Clause 14.0 and 15.0 will be deleted.</p> <p>Clause 16.0 Performance Bond.</p>	
	<b>Carried to Collections</b>	
	<p>Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount
	<p>Sub-Clause 16.1 will be amended to delete the 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>	
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.</p> <p>The Contractor shall include for all costs arising from Observance of these requirements in the space provided elsewhere in these Bills of Quantities.</p>	
Clause 18.0	<p>Programme of Works.</p> <p>The Contractor will be responsible for arranging the programme with all Sub-Contractors including the Nominated Sub-Contractors and Nominated Supplies.</p>	
Clause 19.0	Access to the Works.	
Clause 20.0	<p>Possession of Site and Commencements of Works.</p> <p><b>Note:</b> 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”.</p>	
Clause 21.0	Leveling and setting out.	
Clause 22.0	<p>Architects Instructions.</p> <p><b>Note:</b> 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 seven days, failing which the Contractor shall confirm the same in writing in the same manner as is provided for in Sub-Clause 22.4. If confirmed by the Contractor, such instructions shall be deemed to be Architect’s instructions”.</p>	
Clause 23.0	Specification of goods, materials and workmanship.	
Clause 24.0	Samples and Tests.	
Clause 25.0	Royalties and Patent Rights.	
Clause 26.0	Assignment.	
	<b>Carried to Collections</b>	
	<p>Preliminaries</p> <p>Particular Preliminaries</p> <p><i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	



Item	Description	Amount
	<p>Clause 27.0 Sub-letting.</p> <p>Clause 28.0 Suspension of Works by the Architect.</p> <p>Clause 29.0 Suspension of Works by the Contractor.</p> <p>Clause 30.0 Variations</p> <p><b>Note:</b> Sub-Clause 30.3 will be amended by the deletion of the words “the Employer and”.</p> <p>Sub-Clause 30.14 will be amended by changing “0.01%” to read “0.10%”.</p> <p><b>Daywork Rates:</b> Any Daywork ordered under Sub-Clause 30.6.3 shall be executed at the following rates:-</p> <p>Labour: The Prime cost to which * _____ per centum shall be added.</p> <p>Materials: The Prime Cost (delivered to Site) to which * _____ per centum shall be added.</p> <p>Plant: The Net Hire Charge to which * _____ per centum shall be added.</p> <p>These percentage additions shall cover all insurances, use of small tools and non-mechanical plant, sharpening tools, water, supervision, watching, power and lighting, establishment and overhead charges and profit.</p> <p>Dayworks will be allowed only where specifically ordered by the Architect in writing.</p> <p>All Daywork Sheets must be signed by the Architect and the Contractor or their authorized representatives.</p>	
	<p>Clause 31.0 Nominated Sub-Contractors.</p> <p><b>Note:</b> Sub-Clause 31.19 will be deleted.</p> <p>The Contractor will be required to ensure that all Nominated Sub-Contractors enter into the Sub-Contract Agreement issued under the authority of the Kenya Association of Building and Civil Engineering Contractors and as amplified or varied hereinafter</p>	
	<b>Carried to Collections</b>	
	<p>Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount
	<p>and he must deposit with the Quantity Surveyor a signed extract of the relevant details thereof.</p> <p>Clause 32.0 Nominated Suppliers</p> <p>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.</p> <p>When tendering for works covered by Prime Cost and Provisional Sums the Contractor will be treated as any other Nominated Supplier or Sub-Contractor.</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 Contractor, should this reservation be adopted due to default on part of the Contractor, 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 omission of the works from the Contract and the Contractor will continue to be responsible for the work or goods in accordance with the terms of the contract.</p> <p>Clause 33.0 Work by other Persons engaged by the Employer.</p> <p>Clause 34.0 Payments.</p> <p>Sub-Clause 34.14 and 34.15 will be deleted.</p> <p>Sub-Clause 34.28 will be amended by addition of the words:-</p> <p>“Any amount of such penalties or fines shall be added to the Contract price, and if an interim certificate is issued after imposition of such penalties or fines, any such amount shall be added to the amount which would otherwise be stated as due in such a certificate”.</p> <p>Clause 35.0 Fluctuations</p> <p>Sub-Clauses 35.3 to 35.8 will be deleted.</p> <p>Clause 36.0 Extension of time.</p>	
	<b>Carried to Collections</b>	
	<p>Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Item	Description	Amount
	<p>Clause 37.0 Loss and Expense caused by disturbance of Regular Progress of the Works.</p> <p>Clause 38.0 Termination of the Contract by the Employer.</p> <p>Clause 39.0 Termination of the Contract by the Contractor.</p> <p>Clause 40.0 Termination of the Contract by either party.</p> <p>Clause 41.0 Practical Completion and Defects Liability.</p> <p>Sub-Clause 41.60 will be amended to read as follows.:-</p> <p>"Any defects , shrinkages or other faults which shall appear within the Defects Liability Period stated in the Appendix to these conditions and which are due to materials or workmanship not being in accordance with the contract shall periodically be specified by the Architect in a schedule of defects which he shall deliver to the contractor with the last such schedule being issued within 30 days after the expiry of the Defects Liability Period.</p> <p>After receipt of such schedule, the defects, shrinkages and other faults therein specified shall be rectified by the contractor and (unless the Architect shall otherwise instruct) entirely at his own cost within 30 days or such other period that the Architect may instruct. If the Architect so Instructs, then an appropriate deduction shall be assessed by the QS and made to the contract price in respect of any such defects, shrinkages or other faults not rectified."</p> <p>Clause 42.0 Sectional Completion.</p> <p>Clause 43.0 Damages for Delay in Completion.</p> <p>Sub-Clause 43.1 will be amended by the addition of Words:-</p> <p>"Such certificate to be copied to the Contractor".</p> <p>Clause 44.0 Antiquities and other Objects of value.</p> <p>Clause 45.0 Settlement of Disputes.</p>	
A	<p><b>APPENDIX TO THE CONDITIONS OF CONTRACT</b></p>	
	<p>The Appendix to the Conditions of Contract will be filled as follows:-</p>	
	<p><u>13.0</u> Percentage to cover Professional Fees for</p>	
	<p style="text-align: right;"><b>Carried to Collections</b></p>	
	<p>Preliminaries            Particular Preliminaries  <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount	
	Insurance Purposes only	14.50 %	
16.1	Name of Contractor's Surety	To be provided by the Contractor.	
16.1	Amount of Surety	10% of Contract Sum.	
16.2	Name of Employer's Surety	Not Applicable.	
16.2	Amount of Surety	Not Applicable.	
18.1	Period for Submission of Programme	2 weeks after Award of Contract.	
20.1	Period for possession of site	To be decided by the Architect within 14 Days of receipt of notice of acceptance of Tender	
20.2	Contract Period	To be inserted in the form of Tender by the Tenderer (Not Exceeding 15 Weeks)	
20.2	Date for commencement of Works	To be decided by the Architect within 14 Days of receipt of notice of acceptance of Tender	
20.2	Date of practical completion	To be determined after acceptance of Tender.	
31.14)	Name of Bank for purposes of Interest Calculation	To be determined after acceptance of Tender	
34.1	Interval for application of payment certificates	Monthly	
34.4	Minimum amount of payment certificate	Not Applicable	
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	
34.17	Period of final measurement and valuation	Six Months	
		Carried to Collections	
	Preliminaries		
	Particular Preliminaries		
	Proposed Office Interior Fit out for KRA - Phase 1		

Bill of Quantities

Item	Description	Amount
41.6	Defects liability period <span style="float: right;">Six Months</span>	
43.0	Damages for Delay in Completion <span style="float: right;">Ksh. 250,000.00 per week</span>	
Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i>	<b>Carried to Collections</b>	

Bill of Quantities

Section No. 1	Page No	Amount Kshs
Bill No. 1		
Particular Preliminaries		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
<b>Carried Forward to Summary of Section No. Kshs</b>		
Preliminaries Particular Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i>		

Item	Description	Amount
	<p><b><u>PROPOSED OFFICE FIT-OUT AND RENOVATION WORKS AT CORPORATE BUSINESS CENTRE (CBC) BUILDING, ELGON ROAD, UPPER HILL, NAIROBI</u></b></p> <p><b><u>SECTION NO.1</u></b></p> <p><b>PRELIMINARIES</b></p> <p><b>BILL NO. 2</b></p> <p><b>GENERAL PRELIMINARIES</b></p> <p><b>A SUFFICIENCY OF TENDER</b></p> <p>Tenderers 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.</p> <p><b>B DEFINITIONS AND ABBREVIATIONS</b></p> <p>Terms used in these Bills of Quantities shall be interpreted as follows:</p> <p>"Approved" shall mean approved by the Architect</p> <p>"as directed" shall mean as directed by the Architect</p> <p>"B.S" shall mean the current British Standard specification published by the British Standards Institution, 2 Park Street, London W.1., England.</p> <p>"cm" shall mean Cubic Metres</p> <p>"sm." shall mean Square Metres</p> <p>"lm" shall mean Linear Metres</p> <p>"mm" shall mean Millimetres</p> <p>"kg" shall mean Kilogramme</p> <p>"No." shall mean Number</p> <p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries            General Matters  <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount
A	<p><b>FIGURED DIMENSIONS</b></p> <p>Figured dimensions are to be followed in preference to dimensions scaled from the Drawings, but whenever possible dimensions are to be taken on the Site or from the Building. 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>	
B	<p><b>BILLS OF QUANTITIES</b></p> <p>All quantities contained in these Bills of Quantities are indicative of the volume and type of work to be executed.</p> <p>Where items of work are to be built in or covered up, these shall be left uncovered for a reasonable time to allow all measurements 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 Architect so directs, uncover the work at this own expense to enable the measurements to be taken.</p>	
C	<p><b>TRANSPORT TO AND FROM THE SITE</b></p> <p>Tenderers shall include in their prices for the transport of materials, workmen, etc., to and from the Site of the proposed Works, at such hours and by such routes as are permitted by the Authorities.</p>	
D	<p><b>PUBLIC AND PRIVATE ROADS, PAVEMENTS, ETC.</b></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>	
E	<p><b>POLICE REGULATIONS</b></p> <p>Tenderers are to allow for complying with all instructions and regulations of the Police Authorities.</p>	
	<b>Carried to Collections</b>	
	<p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	



Item	Description	Amount	
A	<p><b>PHOTOGRAPHIC RECORD</b></p> <p>A four weekly photographic record is to be provided by the Contractor, recording the state of progress of the Works. Two copies of each photograph, suitably mounted and annotated with the location and date, are to be made available to the Employer via the Architect.</p>		
B	<p><b>THE SITE</b></p> <p>The site is at the Corporate Business Centre, Elgon Road, Upper Hill, Nairobi</p>		
C	<p><b>ACCESS TO THE SITE</b></p> <p>Access to the site shall be designated by the Architect.</p>		
D	<p><b>AREA OF THE WORKS</b></p> <p>The area of the site to be occupied by the Contractor shall be pointed out by the Architect. The Contractors shall not extend his operations (including working and storage space) beyond the defined area of the Works.</p>		
E	<p><b>SUPERVISION AND WORKING HOURS</b></p> <p>The work must be carried out to cause the minimum inconvenience to the occupants of the existing and adjoining premises.</p>		
F	<p><b>VIEWING OF SITE</b></p> <p>Tenderers shall view the site and any existing structures thereon and make themselves thoroughly acquainted with the conditions under which the Works are to be done. They shall acquaint by themselves by personal examination of the means of access to the Works, the condition of the roads and generally of all matters which may influence the execution of this contract.</p>		
G	<p><b>EXISTING SERVICES</b></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 provisions 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 Contractor's expense.</p>		
	<b>Carried to Collections</b>		
	<p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>		

Bill of Quantities

Item	Description	Amount
A	<p><b>EXISTING AND ADJACENT PROPERTY</b></p> <p>The Contractor must take all steps necessary to safeguard existing and adjacent property, make good at his own expense any damage to persons or property caused thereon, and hold the Employer indemnified against any such claim arising.</p> <p>The Contractor will be held fully responsible for the safety of the existing and adjacent buildings and for any damage caused in consequence of these Works. He must reinstate all damages 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 minimize nuisance from dust, noise or any other cause to the occupiers of the existing and adjacent property.</p>	
B	<p><b>MANAGEMENT OF WORKS</b></p> <p>The Contractor shall be responsible for the management of the sequence of the carrying out of the works in such manner that the subsequent cutting or patching of finished work is avoided.</p> <p>The Contractor shall obtain all necessary particulars of sub-contractor' work timeously so that provision for recesses, chases, holes, etc, may be made.</p>	
	<p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Item	Description	Amount
A	<p><b>CONTRACTOR'S SUPERINTENDENCE</b></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 from the completion of the substructure to 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 termination of employment, a suitable replacement is found</p> <p>Before the Tenderer's offer is accepted the Architect will personally interview the Tenderer's proposed Representative. A curriculum vitae of past experience and qualifications must be provided for the Architect's scrutiny.</p> <p>Copies of the programme and its supporting documents together with all updates shall be provided by the Contractor for the use of the Architect.</p>	
B	<p><b>PROGRESS MEETING</b></p> <p>Meetings related to the progress of the Works will be held at regular intervals and at such other times as may be necessary, attended by the following:</p> <ol style="list-style-type: none"> <li>1. the project manager</li> <li>2. the architect</li> <li>3. the contractor's representative</li> <li>4. the employer's representative where applicable; and</li> <li>5. the quantity surveyor and other agents as may be required</li> </ol> <p>Sub-Contractors shall not be present at progress meetings unless specifically requested by the Contractor or Architect.</p> <p>The Architect shall record the minutes of the meeting and distribute them to all affected parties.</p>	
C	<p><b>TECHNICAL MEETINGS</b></p> <p>Separate meetings to deal with technical and Sub-Contractor's co-ordination matters shall be held at the instance of the Architect or the Contractor.</p> <p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Item	Description	Amount
A	<p><b>MATERIALS AND WORKMANSHIP</b></p>	
	<p><b>GENERALLY</b></p>	
	<p>All materials shall be new unless otherwise directed or permitted by the Architect and in all cases where the quality of goods or materials is not described or otherwise specified (see Section 2 for General Description and Materials &amp; Workmanship), is to be best quality obtainable in the ordinary meaning of the works “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 Standards Institution Specification current at the date of Tender.</p>	
B	<p><b>REJECTED WORKMANSHIP OR MATERIALS</b></p>	
	<p>Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must immediately be removed from the Site and replaced at the Contractor’s expense, as required.</p>	
C	<p><b>PROPRIETARY MATERIALS</b></p>	
	<p>Where proprietary materials are specified hereinafter the Contractor may propose the use of materials of other manufacturer but of equal quality for approval by the Architect.</p>	
	<p>All materials and goods, here specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.</p>	
D	<p><b>SAMPLES</b></p>	
	<p>The Contractor shall furnish at the earliest possible opportunity before work commences and at his own cost, any samples of materials or workmanship that may be called for by the Architect for his approval or rejection, any further samples in the case 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.</p>	
E	<p><b>CONCRETE TESTS</b></p>	
	<p>Concrete test cubes, i.e per set of three as later described, including testing fee, labour and materials, making moulds, transport and handling, etc</p>	
	<p>Successful tests only (PROVISIONAL ) Sets of three: 1 No. @ Shs. _____ (Tenderer must insert rate and extend)</p>	
	<p><b>Carried to Collections</b></p>	
	<p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount	
A	<p><b>ORDERING OF MATERIALS</b></p> <p>These Bills of Quantities are not intended for and shall not be used for ordering purposes.</p> <p>The Contractor shall order all materials to be obtained from foreign sources immediately upon the award of the Tender and shall also order materials to be procured from local sources as early as necessary to ensure that such materials are on site when they are required for use in the works.</p> <p>Should it become apparent prior to and during the construction period, that the procurement of certain material may cause a delay, the Contractor shall immediately inform the Architect of such possible delay who shall then instruct the Contractor upon the action to be taken. Unless the Architect has failed to specify materials timeously in terms of the accepted contract programme or agreed revision thereto, the delay in the delivery of materials shall not justify any extension of the Construction Period.</p> <p>The Contractor shall obtain all necessary permits and licenses.</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>Should the Tenderer consider that he will be unable to obtain materials for any item on the drawings or items described in the Bills of Quantities or to obtain such materials timeously in the specified sizes, he is to report this in writing to the Architect before the closing date for the tenders and obtain the Architect's written directives in connection therewith.</p> <p>If the Tenderer fails to do this, this tender will be taken as firm of all items described in the Bills of Quantities and he will be responsible for supplying such materials timeously to meet the programme for the Works".</p>		
B	<p><b>OFFICE AND SHEDS</b></p> <p>The Contractor shall erect and maintain temporary office accommodation for his own use, and ample temporary watertight sheds for the proper storage and protection of materials and for the use of artisans and remove when ordered. Floors of sheds shall be at least 150 mm above ground level.</p> <p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>		

Item	Description	Amount	
A	<p><b>OFFICES AND SERVICES FOR THE ARCHITECT</b></p> <p>The Contractor shall provide, erect and maintain where directed on the site, an approved weather and sun-proof lock-up office for the sole use of the Architect and his representatives with a total floor area of not less than 15 square metres. The office shall be constructed with concrete or wood floor and the walls and ceilings internally lined with fiberboard.</p> <p>Glazed windows of not less 1.5 square metres and a stout door with lock and fastenings shall be provided and the office furnished with wooden stools, tables and chairs and drawing table along the full length of one side, complete with drawers of sufficient size to carry the Drawings laid flat.</p> <p>The Contractor shall also provide, erect and maintain a lock up European type latrine for the sole use of the Architect and his representatives and to the satisfaction of the Local Authorities and shall provide the services of a sweeper, pay all charges and keep both office and latrine in a clean and sanitary condition during the whole period of the Works.</p> <p>The office and latrine shall be removed on completion.</p> <p>The Contractor shall keep on site and maintain in good condition one dumpy or quicker level and leveling staff, and one 30 metre steel tape for the use of the Architect and his representatives.</p>		
B	<p><b>PLANT, TOOLS AND SCAFFOLDING</b></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-Contractor 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 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 in her or his rates for the above.</p>		
	<p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>		

## Bill of Quantities

Item	Description	Amount
A	<p><b>HOARDING</b></p> <p>The Contractor shall enclose the Site as required by the Local Authorities</p>	
B	<p><b>WATCHING AND LIGHTING</b></p> <p>The Contractor shall provide at his own risk and cost all watching and lighting as necessary to safeguard the Works, plant and materials against damage and theft.</p>	
C	<p><b>TEMPORARY ROADS</b></p> <p>The Contractor shall provide where directed all temporary access roads, tracks and paths necessary for the execution of the Works, including making good when no longer required.</p>	
D	<p><b>NOTICE BOARD</b></p> <p>The notice board and lettering on same for the display of the General and Sub-Contractor's names shall be on approved size with the Employer's name painted thereon. The Architect's, Quantity Surveyor's and Consultant's names shall be printed in 50 mm letters all to the Architect's design. No other notice board or advertising will be permitted.</p>	
E	<p><b>WATER</b></p> <p>All water shall be fresh, clean and pure, free from earthy vegetable or organic matter, acid or alkaline substance in solution or suspension.</p> <p>The Contractor shall provide at his own expense all temporary distribution pipes, storage tanks etc., and he shall clear away same upon completion of the Works, including the work of Sub-Contractors.</p> <p>Tenderers shall satisfy themselves that the existing supply is adequate for the proper execution of the Works and if this is not the case they shall make the necessary arrangements at their own expense to provide an adequate supply.</p>	
F	<p><b>ELECTRICITY AND LIGHTING</b></p> <p>The Contractor shall provide at his own risk and cost all artificial lighting and power for use on the Works, including all Sub-Contractor's and Specialists' requirements and including all temporary connections, wiring, fittings, etc. and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.</p>	
	<p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount	
A	<p><b>TELEPHONES</b></p> <p>The Contractor shall provide either a mobile phone, a landline or a wireless phone for the period of the Works, and shall pay all fees and/or rental for same.</p>		
B	<p><b>TOILETS</b></p> <p>The Contractor shall provide the necessary latrines for their 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 same on completion.</p>		
C	<p><b>NOMINATED SUB-CONTRACTORS</b></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 a 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 satisfactory progress.</p> <p>The Contractor shall also accept liability for and bear the cost of General attendance for the Nominated Sub-Contractors, which shall be deemed to include of:</p> <p>Allowing the use of standing scaffolding, maintenance and alteration of all scaffolding, retention of all scaffolding until such time as all relevant Sub-Contractor's works are complete and removal of all scaffolding on completion. Providing space for office accommodation, and for storage of plant and materials; allowing use of sanitary accommodation; the supply of all necessary water, and lighting; and clearing away all rubbish.</p> <p>The items for "General Attendance" given hereinafter following P.C. Sums in respect of Sub-Contractors' work shall be deemed to include all the above.</p> <p>The Contractor shall also accept liability for and bear the cost of Special Attendance on Nominated Sub-Contractors, which shall include for one or more of the followings:</p> <p>Unloading, storing, hoisting, placing in position, providing power, provision of special scaffolding.</p> <p>The items of "Special Attendance" given hereinafter following P. C. Sums shall include any one or more of the above items as set out in the particular reference.</p> <p>Cutting away for and making good after the work of Sub-Contractors as may be required will be measured and valued separately by the Quantity Surveyor.</p>		
	<p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>		



Item	Description	Amount
A	<p><b>NOMINATED SUPPLIERS</b></p> <p>The Cost of “Fix Only” materials to be obtained from Nominated Suppliers which are covered by Prime Cost or Provisional Sums shall include for taking delivery where directed, checking with invoices or indents, reporting and claiming damages for shortages and damaged goods, defraying demurrage, signing for as having been received in good order, transporting, unloading, storing, covering and protecting until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting to required levels and fixing as described.</p> <p>Before placing any orders with Nominated Sub-Contractors or Nominated Suppliers the Contractor must ascertain that the terms and conditions of the quotations and the dates of delivery of materials or execution of works comply with the terms of Contract and the Progress Schedule.</p>	
B	<p><b>PRIME COST RATES</b></p> <p>Where description of items include a P.C. 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 for 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 P. C. rate stated.</p>	
C	<p><b>VALUE ADDED TAX</b></p> <p>The Tenderer’s attention is drawn to the Finance Bill dated June, 1993 which stipulates that Value Added Tax shall be charged on the value added in the provision of building services. The Contractor shall <b>NOT</b> include the amount of the Value Added Tax in his rates but shall include it as a lump sum at the Final Summary page of these Bills of Quantities.</p> <p>The tenderer shall state the amount of V.A.T (16%) of the priced items (excluding P.C Sums, Provisional Sums and Contingencies) at the Final Summary page. Failure to do so will render his/her tender <b>NON RESPONSIVE</b> and therefore disqualified automatically.</p>	
D	<p><b>STAMP CHARGES</b></p> <p>Tenderers shall allow for payments of all Stamp Charges in connection with Surety Bond and Contract Agreement.</p>	
	<p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

## Bill of Quantities

Item	Description	Amount
A	<p><b>PRICING OF PRELIMINARIES</b></p> <p>These Bills of Quantities have been formulated in the conventional manner, whereby the Preliminaries have been included as a separate section, in order to enable Tenderers to price their site establishment costs, site management, etc.</p> <p>In pricing the Preliminaries, Tenderers are required to price the relevant items individually, as a single lump sum Preliminaries amount will not be accepted.</p> <p>In the event that a Tenderer elects not to price the Preliminaries section as contained within these Bills of Quantities, then it will be deemed that all relevant Preliminaries costs have been included within the rates as tendered within the measured Bills of Quantities. Adjustments of the Preliminaries will, in this instance, only be by remeasured final quantities applied to tendered rates.</p>	
B	<p><b>PRICING BILLS</b></p> <p>Tenderers are to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the Standard Method of Measurement) patterns, models and templates, plant, temporary works, returning of packing, duties, taxes, imposts, establishments charges, overheads, profit and all other obligations arising out of the Contract.</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these Bills of Quantities and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.</p> <p>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</p>	
C	<p><b>INTERPRETATION OF DRAWING, SPECIFICATIONS AND BILLS OF QUANTITIES</b></p> <p>Should any part or parts of the Drawings, Specifications or Bills of Quantities not be clearly intelligible to the Contractor, or the material or articles to be used in the execution of the Works be considered insufficiently described or the manner in which the work is to be carried out not be clear, the Contractor must obtain from the Architect the necessary information to clarify such Drawings, Specification, Bills of Quantities or instructions which request shall be in writing. The Contractor shall be held solely responsible for and shall, at his own expense, rectify any errors arising out of incorrect interpretation of the Drawings, Specification, and Bills of Quantities or instructions.</p>	
	<p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Item	Description	Amount
A	<p><b>SHOP DRAWINGS</b></p> <p>Shop drawings are drawings, illustrations, schedules, performance charts, brochures and other data which are prepared by the Contractor or Sub-Contractor, Manufacturer, Supplier or Distributor and which detail some portion of the work.</p> <p>Where applicable, the necessary copies of shop drawings shall be supplied to the Contractor by Sub-Contractors or Suppliers, who must obtain the Architect's approval of such shop drawings before the relevant work is put in hand. A proper record of shop drawings must be kept by the Contractor including dates of receipt, submission and approval.</p> <p>The Contractor is to present a complete schedule showing the sequence of submission of shop drawings, including submission dates and the scheduled dates for approval of drawings. This schedule is to take into account that the Architect and the Consulting Engineer require a reasonable check period from the date of receipt of shop drawings before returning the drawings to the Contractor in accordance with the Works programme.</p> <p>The Architect's approval of shop drawings or samples is limited to check conformity with design and specification and shall not relieve the Contractor from his responsibility for erection and/or installation.</p> <p>In addition to the shop drawings, the Contractor shall also supply to the Architect marked-up structural or other drawings showing any changes and/or additional requirements to be made in the structure in order to fit in dimensions of apparatus and materials to be installed by him. This information to be supplied in accordance with the works programme.</p>	
B	<p><b>GUARANTEES AND MAINTENANCE INSTRUCTIONS/MANUALS</b></p> <p>The Contractor shall obtain and hand over to the Architect on Practical Completion all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Architect or provided by manufacturers, suppliers or Sub-Contractors.</p> <p>The Contractor shall ensure that all warranties and guarantees received fully ceded to the Employer on Final Completion, failing which the release of Surety Bond will be withheld until this is satisfactorily completed.</p> <p>The guarantees shall state that workmanship, materials and installations are guaranteed for a specified reckoned from the date of Practical Completion of the Works and that any defects in the workmanship, materials and installation that may arise during that period shall be made good at the expense of the firm doing the work upon written notice from the Architect or the Employer to do so.</p> <p style="text-align: right;"><b>Carried to Collections</b></p> <p>Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Bill of Quantities

Item	Description	Amount
A	<p><b>SECURITY AT COMPLETION</b></p> <p>At completion, the Contractor shall leave the Works secure with all accesses locked. The Contractor shall account for and hand over to the Architect all keys, properly labeled with an itemized schedule to be signed by the Architect as receipt.</p>	
B	<p><b>TRAINING LEVY</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 Shs.50,000/= in value and his tender must include for all costs arising or resulting therefrom.</p>	
C	<p><b>STANDARD LEVY</b></p> <p>The Contractor's attention is drawn to Legal Notice No. 267 of 22<sup>nd</sup> June 1990, which requires payment, by the Contractor of Standard Levy. His tender must include for all costs arising or resulting.</p>	
	<p style="text-align: right;"><b>Carried to Collections</b></p>	
	<p>Preliminaries                      General Matters  <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>	

Bill of Quantities

Section No. 1	Page No	Amount Kshs
Bill No. 2		
General Matters		
<u>COLLECTION</u>		
Total Brought Forward from Page No.	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
Carried Forward to Summary of Section No. Kshs		
Preliminaries General Matters <i>Proposed Office Interior Fit out for KRA - Phase 1</i>		

Bill of Quantities

Bill No	Section No. 1 Preliminaries <u>Summary - Preliminaries</u>	Page No		Amount Kshs
1	Particular Preliminaries	13		
2	General Matters	28		
<b>Carried to Final Summary</b>				Kshs
Preliminaries <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

# BUILDERS WORKS SPECIFICATIONS

Specifications of Materials and Workmanship

*Proposed Office Interior Fit out for KRA - Phase 1*

## **PROPOSED OFFICE FIT-OUT AND RENOVATION WORKS AT CORPORATE BUSINESS CENTRE (CBC) BUILDING, ELGON ROAD, UPPER HILL, NAIROBI**

### **GENERAL DESCRIPTION OF MATERIALS AND WORKMANSHIP**

The following apply to all sections hereafter

#### **ALTERATIONS, ADDITIONS AND EXTENSIONS**

In alterations or extensions to existing buildings and/ or external works, new work is to match up in all respects to the existing work unless otherwise specified, shown on the Drawings or approved before - hand by the Architect.

#### **QUALITY, SAMPLES, TESTING AND APPROVAL**

##### **MATERIALS**

Materials, commodities, components and equipment are to be new and unused unless otherwise specified. Handle, store, fix and protect all commodities with care to ensure that they are in perfect condition when incorporated into the work and handed over on completion.

##### **MANUFACTURER'S RECOMMENDATIONS**

Handle, store and fix every commodity strictly in accordance with the printed or written recommendations of the manufacturers'

##### **STANDARDS**

Where commodities or workmanship are specified by reference to British Standards (B.S) or Codes of Practice (C.P) or International (I.S.O) or other standards, such standards are deemed to be the latest published at the time of tendering. The contractor will be deemed to have read and understood the standards specified, and no claim for want of knowledge will be allowed. The substitution of commodities or standards of workmanship complying with other standards may be allowed at the discretion of the Architect, but application for permission for such substitution must be made in writing in sufficient time to allow adequate investigation. Obtain Certificates of Compliance with standards and supply to the Architect on request.

##### **LOCAL CONDITIONS**

All materials, conditions, components and equipment must be suitable for use in tropical climates



## **SAMPLES**

Where samples of conditions or specimens of finished work are specified, submit samples or specimens to the Architect and obtain his approval before confirming orders or carrying out the work. Retain approved samples and specimens on Site for Comparison with the finished work. Finished work must conform in all respects with the samples or specimens approved. Remove samples and specimens no longer required. The cost of supplying samples and specimens must be borne by the Contractor, but specimens may form part of the finished work where approved by the Architect

## **DEMOLITIONS AND ALTERATIONS**

### **GENERALLY**

The contractor is required to visit the existing buildings and ascertain for himself the nature of the works and no claim arising from lack of knowledge in this respect will be entertained. The dimensions and quantities given in this section are approximate and the Contractor is referred to the site to ascertain the exact nature and extent of the works.

The items of pulling down and alterations are to include for both labour and materials and for any shoring, needling and strutting and temporary works in connection therewith. The contractor must allow in his pricing for making good all works disturbed in all trades and for carting away all rubbish.

The contractor must give all the necessary notices and must exercise due care in the demolitions. He must not collapse large sections of walls, floors e.t.c, and must provide all necessary shoring and supports during the demolitions

During demolition works the contractor shall keep the debris constantly watered to minimize the dust arising and this shall be included in his prices.

All materials arising from demolitions, unless specifically stated otherwise, are to become the property of the Contractor and any credit allowed for the value of such materials shall be shown in the space provided.

All materials, including rubbish, shall be removed from the site as soon as possible.

The contractor is to erect dust-proof screens to the approval of the Architect where deemed necessary and to remove them on completion of the work, all to the Architect's satisfaction.

### **INTERPRETATIONS OF TERMS**

"Demolish" shall be deemed to mean cutting away, breaking up, demolishing, pulling down, taking down, removing, etc., as the context requires and shall include in all cases temporarily strutting and supporting and making good remaining work as necessary, and clearing away and removing from site all debris, etc.

"Remove" shall mean taking down, hacking up, breaking down, removing etc. and clearing away from site and all other expenses thereby entailed

"Make good" shall be deemed to mean all making good, fitting facing up, plastering, paving, repairing and painting to match and jointing to remaining existing work.

To "match" shall mean to be equal to relevant existing work in design, workmanship and all other respects.

"Re-fix" shall apply to existing materials arising from the Works and shall mean take from store and fix in new position, including making good, repairing and adjusting as necessary.

**Tender No.: KRA/HQS/NCB-073/2019-2020**

**Bill of Quantities**

Specifications of Materials and Workmanship  
Specifications

*Proposed Office Interior Fit out for KRA - Phase 1*

## CARPENTRY, JOINERY AND IRONMONGERY

### ALL TIMBER

All timber shall be in accordance with the latest approved Grading Rules issued by the Government of Kenya (Legal Notice No. 35B). Timber for carpentry shall be SECOND (OR SELECT) GRADE and timber for Joinery shall be FIRST (OR PRIME) GRADE

### GENERALLY

All timber as it arrives on the site shall be inspected by the Contractor, and any timber brought on the site and not complying with the Specification or not approved, must be removed forthwith from the site and only timber as approved shall be used in the works.

The Contractor shall upon signing the Contract purchase sufficient supplies of specified hardwoods to avoid possible shortages at a later date

### SPECIES OF TIMBER

The following timber shall be use.

Standard Common Name	Botanical Name
Cypress	Cypress spp.
Podocarpus	Podocarpus spp.
Cedar	Juniperus procera
E.A. Camphor wood	Ocotea usambarensis
African Mahogany (Munyama)	Khaya anthotheca
Mninga	Pterocarpus Angolensis
Mvule	Chlorophora excelsa
Elgon Olive	Olea welwitschii

Specifications of Materials and Workmanship  
Specifications

*Proposed Office Interior Fit out for KRA - Phase 1*

### **TOLERANCES IN THICKNESS**

Shall conform with the following extracts of Government of Kenya Grading Rules: -

(1) Hardwood Grading: (First and Second Grades)

- (a) 15 mm oversize on pieces up to 25 mm in thickness.
- (b) 3 mm oversize on pieces over 25 mm and up to 50 mm in thickness.
- (c) 6 mm oversize on pieces over 50 mm in thickness.

Undersize will not be permitted.

(2) Softwood Grading: Strength Grades (for Carpentry): First and Second Grades

Undersize not allowed.

Oversize: All timber to be sawn oversize by 1.5 mm for 25 mm thickness and width. Not more than 3 mm in thickness and not more than 6 mm in width.

(3) Soft wood Grading: Appearance Grades (for joinery)

First and Second Grades

All as for strength Grades above.

### **INSECT DAMAGE**

All timber shall be free of live borer beetle or other insect attack when brought upon the site. The Contractor shall be responsible up to the end of the maintenance period for executing at his own cost of all work necessary to eradicate insect attack of timber which becomes evident, including the replacement of timber attacked or suspected of being attacked, notwithstanding that the timber concerned may have already been inspected and passed as fit for use.

### **SEASONING OF TIMBER**

All timber shall be seasoned to moisture content of not more than 22% for carpentry and 15% for Joinery.

## **PRESSURE IMPREGNATION PRESERVATIVE TREATMENT**

All carpentry timbers, sawn joinery and timber grounds for fixing joinery shall be treated with pressure impregnated “Celcure” or “Tanalith” solution with a minimum nett retention of 0.35 lbs. of dry salt per cubic foot. If so required “charge sheets” issued after treatment with celcure B” or “Wolmanol” solution brushed on.

The Contractor’s prices for such timber hereinafter must allow for the above treatment.

## **INSPECTION AND TESTING**

The Architect shall be given facilities for inspection of all works in progress whether in workshop or on site. The Contractor is to allow for testing of prototypes of special construction units and the Architect shall be at liberty to select any samples he may require for the purpose of testing, i.e. for moisture content, or identification, species, strength, etc.; such tests will be carried out by the Forestry Department

## **CLEARING UP**

The Contractor is to clear out and destroy or remove all cut ends, shavings and other wood waste from all parts of the buildings and the site generally as the work progresses and at the conclusion of the work.

This is to prevent accidental borer infestation and to discourage termites and decay

## **WORKMANSHIP**

All carpenters’ work shall be accurately set out in strict accordance with the Drawings and shall be framed together and securely fixed in the best possible manner with properly made joints; all brads, nails and screws, etc., shall be provided as necessary, directed and approved and the Contractors’ prices shall allow for all the foregoing.

All workmanship shall be of the best quality.

All Carpenters’ work shall be left with sawn surfaces except where particularly specified to be wrought.

## **DIMENSIONS**

Dimensions of timber for Carpentry left with sawn faces shall comply with previous Clause specifying tolerances in thickness. Dimensions for wrought members shall be as described in “Joinery”.

Specifications of Materials and Workmanship  
Specifications

*Proposed Office Interior Fit out for KRA - Phase 1*

## **JOINTING**

All timber shall be as long as possible and practicable to eliminate joints. Where joints are unavoidable surfaces shall be in contact over the whole area of the joint before fastenings are applied.

No nails, screws, or bolts are to be fixed in any split end. If splitting is likely, or is encountered in the course of any work, holes for nails are to be prebored at diameter not exceeding  $4/5^{\text{th}}$  of the diameter of nails. Clenched nails must be bent at right angles to the grain.

Lead holes are to be bored for all screws. When the use of bolts is specified the holes are to be bored from both sides of the timber and are to be of the diameter  $D + D/16$ , where D is the Diameter of the bolt. Nuts must be brought up tight but care is to be taken to avoid crushing of the timber under the washers

## **JOINERY**

### **GENERALLY**

All Joiner's work shall be accurately set out on boards to full size for the information and guidance of the artisans before commencing the respective works, with all joints, iron work and other works connected therewith fully delineated. Such setting out must be submitted to the Architect and approved before such respective works are commenced.

All joiners work shall be cut out and framed together as soon after the commencement of the building as is practicable but not to be wedged up or glued until the building is ready for fixing same. Any portions that warp, wind or develop shakes or other defects within six months after completion of all other work which may be affected thereby, all at the Contractors' own expense.

All work shall be properly mortised, tenoned, housed, shouldered, dovetailed, notched, pinned, bradded, etc., as directed and to the satisfaction of the Architect and all properly glued up with the best quality glue. All horns to be cut off neat and square with back of jambs before incorporating into the walls. The feet of all door jambs are to be cut off square with the floor finish and are to be dowelled to the structure with steel dowels.

Joints in joinery must be specified or detailed, and so designed and secured as to resist or compensate for any stresses to which they may be subjected. All nails, sprigs, etc., are to be punched and puttied. Loose joints are to be made where provision must be made for shrinkage, glued joints where shrinkage need not be considered and where sealed joints are required. Glue for load-bearing joints or where conditions may be damp must be of the resin type. For non-load bearing joints or where dry conditions may be guaranteed case in organic glues may be used.

All exposed surfaces of joinery work shall be wrought and all arises "eased off" by planing and sandpapering to an approved finish suitable to the specified treatment.

### **DIMENSIONS**

All joinery has been described by nominal sizes and a 3 mm reduction off specified sizes will be allowed for each wrought face except where described as finished sizes in which case joinery shall hold up full dimensions

### **FIXING JOINERY**

All beads, fillets and small members shall be fixed with round or oval brads or nails well punched in and stopped. All larger members shall be fixed with screws. Brass screws shall be used for fixing of all hardwoods, the heads let in and pelleted over with wood pellets to match the grain.



### **BEDDING FRAMES, ETC.**

The Contractor's rates must include for bedding frames, sills, etc., in mortar or dressing surfaces of walls, etc., in lieu

### **PLUGGING CONCRETE AND WALLS**

Round wood plugs shall not be used. All work described as plugged shall be fixed with screws to plugs formed by drilling concrete, walls, etc., with a proper tool of suitable size at 750mm spacing and filling the holes completely with "Philplug" rawl plastic or "Rawlplugs" in accordance with the manufacturer's instructions. Alternatively, and where so agreed the Architect, hardwood dovetailed fixing clips, dipped in "Wolmanol" or "Celcure B" solution cut and pinned or bedded in cement mortar (1:3) may be used.

### **FIBREBOARD**

Fireboard shall be 12 mm "Celotex", or other equal and approved termite-proofed softboard, cut to panels with V-edges

### **PLYWOOD**

Plywood shall be manufactured to comply with B.S. 1455 (Grades 1 or 2, Type INT for "Interior work", type WBP for " exterior work"). Marine plywood shall comply with B.S. 1088.

Plywood shall be manufactured to comply with B.S. 1455 (Grades 1 or 2, Type INT for "Interior work", type WBP for " exterior work"). Marine plywood shall comply with B.S. 1088.

### **BLOCKBOARD**

Blockboard shall be laminated board to approval, and exposed edges shall be lipped with 20 mm hardwood.

### **CHIPBOARD**

Chipboard shall be manufactured to comply with B.S. 5669.

### **PLASTIC SHEETING**

Plastic sheeting shall be "Formica" sheeting 1.5 mm thick and securely fixed with approved type waterproof adhesive, and in the colours approved by the Architect

### **SELECTED FOR CLEAR FINISH**

All timber and joinery work described as selected for clear finish shall be executed by a specialized joinery firm. The name of the firm shall be submitted to the Architect before any works commence

### **PROTECT JOINERY**

Any fixed joinery which in the opinion of the Architect is liable to become bruised or damaged in any way, shall be completely cased and protected by the contractor until the completion of the works. The casing shall "consist of two layers of polythene sheeting or plywood coverings

### **FLUSH DOORS**

Semi-solid flush doors shall be manufactured to the thickness specified and consist of 100 mm wide framing all round with minimum 25 mm thick horizontal core battens at not more than 75 mm centres, pressure impregnated as described and bored with 15 mm diameter ventilation holes at 300 mm centres. Doors shall have two lock blocks and be faced both sides with 6 mm plywood and have 25 mm mahogany twice rebated lipping all round and otherwise be equal to the requirements of B.S. 459 Part 2A, and equal to an approved sample.

### **BOTTOM EDGES**

Bottom edges of doors shall be painted with one coat of approved primer before fixing.

### **IRONMONGERY**

All locks and ironmongery shall be fixed with screws, etc., to match. Before the woodwork is painted, handles shall be removed, carefully stored and refixed after completion of painting and locks oiled and left in perfect working order. All keys shall be labeled with the door reference marked on labels before handing to the Architect on completion.

### **PRICES TO INCLUDE**

Prices of items hereafter shall include for the foregoing labours, etc., and in addition the prices for linear items are to include all internal and external angles, either mitred or tongued, all fair, fitted, stopped, notched or returned ends, all similar incidental labours and all short lengths.

## **PLASTERWORK AND OTHER FINISHING MATERIALS**

### **CEMENT**

The cement shall be as previously described in “Concrete Work”.

### **SAND**

The sand shall be as described for fine aggregate but that for plastering shall be light in colour and well graded to a suitable fineness in accordance with the nature of the work in order to obtain the finish directed

### **LIME**

The lime for plastering shall comply with B.S. 890 Class “A” for non-hydraulic lime and shall be as rich as obtainable and to approval. It must be freshly burnt and shall be slaked at least one month before being used by drenching with water, well broken up and mixed and the wet mixture shall be passed through a sieve of sixty -four meshes to the square inch. Lime putty shall consist of freshly slaked lime as above described, saturated with water until semi-fluid passed through a fine sieve; it shall then be allowed to stand until superfluous water has evaporated and it has become of the consistency of thick paste, in no case for a shorter period than one month before being used, during which it must be kept damp and clean and no portion of it allowed to become dry.

Alternatively, hydrated lime with 70% average calcium oxide content may be used and it must be protected from damp until required for use. It shall be soaked to a putty at least 24 hours before use.

### **LIME PLASTER**

Lime plaster shall consist of a backing coat in cement, lime and sand (1:2:9) and a finishing coat of lime putty skim with 10% cement added

### **POLISHED GRANOLITHIC**

Polished granolithic shall consist of one part cement (by volume) coloured light brown with an approved dye, to two parts (by volume) of metamorphic coral chippings graded from 6 mm down to 3 mm with not more than 15% to pass a No. 40 B.S. sieve

### **BEDS AND BACKINGS**

Beds and backings shall be composed of cement and sand in the volumetric proportions stated in the measured work.

## **WORKMANSHIP**

### **GENERALLY**

All screeds and pavings shall be finished smooth, even and truly level unless otherwise specified and paving shall be steel trowelled.

Rendering and plastering shall be finished plumb, square, smooth, hard and even, and junctions between surfaces shall be perfectly true, straight and square.

At the junction of all concrete work and block walling a 150 mm wide strip of expanded metal lathing must be included to avoid plaster cracks.

All surfaces to be paved or plastered must be brushed clean and well wetted before each coat is applied. All cement paving and plaster shall be kept continually damp in an interval between application of coats for seven days after the application of the final coat.

Where dubbing out is required, shall be composed of one part cement to six parts of sand.

Partially or wholly set materials will not be allowed to be used or remixed. The plaster, etc., mixes must be used within two hours of being combined with water

### **SAMPLES**

The Contractor shall prepare samples minimum one square metre of each of the screeds, pavings and plastering for the approval of the Architect, after which all work executed shall conform with the approved samples

### **LIME PLASTERING**

Lime plastering shall be carried out in two coats having a total thickness of not less than 15 mm to walls and 10 mm to ceilings.

The first coat shall be trowelled to a perfectly true and even surface and finished with a wood float, the surface being sprinkled with water from a brush during the process and before it has set thoroughly scratched to form a key. The finishing coat shall not be less than 1.5 mm thick, thoroughly worked with a steel trowel, sprinkled with water as before and be brought to a uniform smooth and hard surface

### **TYROLEAN RENDERING**

Tyrolean rendering shall consist of trowelled backing coat in cement and sand mortar (1:4) gauged with 10% lime, to a thickness of 10 mm and a finishing coat of cement sand mortar (1:4) applied with an approved machine to a thickness of between 5 and 10 mm, to provide an even and uniform texture. Coloured cement or pigment is to be used if so directed by the Architect.

## **GRANOLITHIC AND TERRAZO PAVING**

Granolithic and terrazzo paving shall be spread and well compacted and given only sufficient trowelling to produce a perfectly level surface immediately after laying. When the granolithic or terrazzo has stiffened sufficiently so that a hard surface can be obtained without laitance, then the surface shall be machine ground to a perfectly even and smooth surface. On no account will dusting with neat cement to the surface be permitted

## **BEDS AND BACKINGS**

Floor screeds shall not be laid in areas exceeding ten square metres during any period of 24 hours. As bays are formed steel edge strips must be used to retain the exposed edge of screed.

The thickness and mixes of the screeds shall be adjusted to suit the various top dressings and the contractor must first ascertain what finish is intended to each specified area before the work of laying screeds is put in hand.

Screeds shall be finished with a wood float for wood blocks and steel trowel for thermoplastic and similar tiles.

## **MAKING GOOD**

All making good shall be cut out to a rectangular shape, the edges undercut to form a dovetail key and finished flush with the face of surrounding paving or plaster. Cut out and make good all cracks, blisters, and other defects and leave the whole of the work perfect on completion.

## **PRICES GENERALLY**

In addition to the foregoing, prices of superficial items are to include for work in narrow widths, all linear labours, angles and arrises, all fair edges, for making good up or stopping to a line at the required level at top of skirting or dados where directed and for making good up to windows, door frames and similar.

The prices for all linear items unless otherwise measured are to include for all short lengths, angles and arises, mitres, and ends of every description.

Prices for paving are to include for adequate covering and protection during the progress of the works to ensure that the floors are handed over in perfect condition on completion.

Prices for all pavings and plastering, etc., shall include for hacking concrete surfaces and for raking out joints of walls 12 mm deep for cross-scoring undercoats to form a proper key.

Plastering on walls, generally shall be taken to include flush faces of lintels, beams, etc., in same.

Specifications of Materials and Workmanship  
Specifications

*Proposed Office Interior Fit out for KRA - Phase 1*

## **PROTECTION**

The Contractor's rates for all finishings shall allow for adequate protection against damage by all following trades or any other causes, to the satisfaction of the Architect

## **PAINTING AND DECORATING**

### **APPROVED SPECIALIST**

An approved Specialist must execute all work under this trade.

### **GENERALLY**

The Contractor shall so arrange his programme of work that all other trades are completed and away from the area to be painted, when painting begins. Before painting the Contractor must remove all concrete and mortar droppings and the like from all work to be decorated and remove all stains from and obtain uniform colour to work to be oiled and polished.

All plaster, metal, wood or other surfaces that are to receive finishes of paint, stain, polish, distemper or paintwork of any description are to be carefully inspected by the Contractor before he allows any of his painters to commence work. The Contractor will be held solely responsible for all defective work condemned as a result of his Painters' failure to insist on receiving from the other trades surfaces in the proper condition to allow first-class finishes of the various kinds specified being applied to them.

## **PAINTING GENERALLY**

All materials are to be of the best quality and shall be of an approved proprietary brand selected from the latest Schedule of Approved Paints issued by the Ministry of Works.

All materials to be applied externally shall be of exterior quality and/or recommended by the manufacturers for external use.

All materials shall be delivered on Site intact in the original sealed drums or tins and shall be mixed and applied strictly in accordance with the manufacturers' instructions and to the approval of the Architect.

Unless specially instructed or approved by the Architect, no paints, distemper, etc., are to be thinned, or otherwise adulterated, but are to be used as supplied by the manufacturers and direct from the tins.

If required by the Architect the Contractor is to provide at his own expense samples of paints, etc., with containers and cases to be forwarded carriage paid by the Contractor for analysis to a laboratory.

The priming, undercoats and finishing coats shall each be of differing tints and the priming and undercoat shall be the correct brands and tints to suit the respective finishing coats, in accordance with the manufacturer's instructions. All finishing coats shall be of colours and tints selected by the Architect. Each coat must be approved by the Architect before the next coat is applied.

Each coat shall be properly dry and in the case of oil or enamel paints shall be well rubbed down with fine glass paper before the next coat is applied. The paintwork shall be finished smooth and free from brush marks.

Colour cards of all paints, etc., shall be submitted to, and samples prepared for approval of the Architect before laying on, and such samples, when approved, shall become the standard for work.

All paints, emulsion paints, and distempers shall be applied by means of a brush or spray gun or rollers of an approved type, where so agreed by the Architect.

No painting is to be done in wet weather or on surfaces, which are not thoroughly dry.

Prices of paint, distemper, etc., shall include for preparation of surfaces, rubbing down between each coat, stopping, knotting, etc., and all other work in connection and as described and as necessary to obtain a first-class and proper finish to approval.

Emulsion paint on ceilings and all undercoats of emulsion paint and complete oil painting on walls shall be completed before thermoplastic flooring laid. Final coats of emulsion paints on walls shall be applied after such flooring has been laid complete.

Specifications of Materials and Workmanship  
Specifications

*Proposed Office Interior Fit out for KRA - Phase 1*



## **SAMPLES**

The Contractor shall furnish at the earliest possible opportunity before work commences and at his own cost, samples of painting for the Architects' approval and any further samples in case 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.

The Architect may reject any materials or workmanship not in his opinion up to the approved sample, and these must be removed from the site without delay.

## **WOOD PRESERVATIVER**

All woodwork in contact with waling of plaster shall be treated after cutting and preparation but before assembly or fixing with one coat of "TIMCIDE" wood preservative manufactured by Timsales Ltd., P.O Box 18080, Nairobi. The solution is to be brushed on all faces of all timbers, unless exposed to view and painted.

The Contractor shall note that this solution is POISONOUS and shall take all necessary precautions and instruct his workmen accordingly

## **PREPARATION AND PRIMING OF PLASTER, ETC., SURFACES**

Plaster surfaces shall be perfectly smooth, free from defects and ready for decoration. All such surfaces shall be allowed to dry for a minimum period of six weeks, stopped with approved plaster compound stopping and rubbed down flush, as necessary, and then be thoroughly brushed down and left free from all efflorescence, dirt and dust immediately prior to decorating.

Plaster surfaces which are to be finished with emulsion, oil or enamel paint, shall be primed with an alkali resisting primer complying with the particular paint manufacturer's specification and applied in accordance with their instructions.

Fibreboard or similar surfaces shall be lightly brushed down to remove all dirt, dust and loose particles and have all nail holes or other defects stopped with an approved plaster compound stopping rubbed down flush and left with a texture to match surrounding material and shall receive on coat petrifying liquid as last

### **PREPARATION AND PRIMING OF METAL, ETC**

All surfaces shall be thoroughly brushed down with wire brushes and scrapped where necessary to remove all scale, rust, etc., immediately prior decorating. Where severe rust exists and if approved by the Architect a proprietary de-rusting solution may be used in accordance with the manufacturer's instructions.

Shop-primed and unprimed surfaces shall be given one coat of metal chromate primer.

Galvanized surfaces already treated with bituminous solution shall be scraped to remove soft parts and then receive two isolating coats of aluminum primer or other approved anti-tar primer.

### **PREPARATION AND PRIMING OF WOODWORK**

All woodwork shall be rubbed down, all knots covered with a thick coat of good shellac or aluminum knotting; primed with one coat of approved ready-mixed proprietary wood primer and all cracks, nail holes, defects and uneven surfaces, etc., stopped and faced with hard stopping rubbed down flush

### **PREPARATION OF PREVIOUSLY PAINTED METAL SURFACES**

Thoroughly wash down with water containing an approved cleansing agent and rinse with clean water. Wire brush to remove all rust and loose paint and touch up bare patches with Zinc-rich primer

### **PREPARATION OF PREVIOUSLY PAINTED WOODWORK**

Thoroughly wash down with water containing an approved cleansing agent and rinse with clean water. Lightly rub down with glass paper and prime and bring forward all bare patches for decoration

### **PREPARATION OF PREVIOUSLY PAINTED PLASTER, ETC., SURFACES**

Thoroughly wash down with water containing an approved cleansing agent and rinse with clean water. Cut out small cracks and other blemishes and fill with an approved plaster compound stopping rubbed down flush. Bring forward all bare patches for decoration

### **EMULSION PAINT**

After preparation as specified above a minimum of THREE coats, unless otherwise specified, shall be applied using a thinning medium of water only if and as recommended by the manufacturer.

An approved plaster primer tinted to match may be substituted for the first coat in three-coat work.

### **ENAMEL PAINT**

Apply two undercoats and one finishing coat, after preparation and priming as specified above

### **CLEAR POLYURETHANE VARNISH**

Surfaces are to be treated with “Ronseal” or other equal and approved, in three coats. The first coat is to be applied with a linen pad and well rubbed in and second and successive coats are to be applied by brush. The first and second coats are to be lightly rubbed with Grade ‘O’ and Grade ‘OO’ wire wool respectively

### **POLYURETHANE CLEAR LACQUER**

To be applied strictly as per the manufacturer’s instructions.

### **IRONMONGERY**

All ironmongery shall be removed from joinery, steel windows and louvers before painting is commenced, and shall be cleaned and renovated if necessary and refixed after completion of painting

### **PAINTING ITEMS**

Painting items, as billed hereafter shall include for preparing all priming surfaces as above described.

### **COVER UP**

Cover up all floors, fittings, etc., with dust sheets when executing all painting and decorating work

### **CLEAN AND TOUCH UP**

Paint splashes; spots and stains shall be removed from floors, woodwork, etc., any damaged surfaces touched up and the whole of the work left clean and perfect upon completion.

# THIRD FLOOR

Third Floor

*Proposed Office Interior Fit out for KRA - Phase 1*

Item	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>THIRD FLOOR</u></b></p> <p><b>BILL NO. 1</b></p> <p><b>DEMOLITION WORKS</b></p> <p>Notes:</p> <p>All useable materials arising from the demolitions shall remain the property of the Employer but the Contractor may take away any materials not so required by the Employer and shall allow a credit for the same in the credit column indicating value for all such materials that are reusable. All debris arising therefrom shall be carried away and dumped where directed by the Employer while all reusable materials shall be delivered where directed</p> <p><b>The works shall be executed in such order and sequence as the Architect may direct and as little disruption and inconvenience as possible shall be caused to the client, staff and other users of existing facilities.</b></p>				
A	Existing MDF on aluminium framing partitions	m2	100		
B	Existing ceramic tile floor finish	m2	459		
C	Allow for any other demolition as directed by the Architect		Item		
	<p><b>Carried Forward to Summary of Section No. 2</b></p>				Kshs
	<p>Third Floor Demolition Works <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>				

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 2</u></b>				
	<b><u>THIRD FLOOR</u></b>				
	<b>BILL NO. 2</b>				
	<b>PARTITIONS</b>				
	<b>Glazed partitions</b>				
A	Supply and install 12mm thick heat treated and toughened laminated Sunergy® extra clear glass or other equal and approved, partially sand-blasted and comprising silicone adhesive jointing on appropriately primed surfaces, joining to concrete and masonry surfaces by plugged 100mm x 75mm PVDF aluminium sections in corporate colours	126	m2		
	<b>Gypsum Partitions</b>				
	<b>Gyproc standard dry wall partition system consisting of 50mm steel drywall studs spaced at 450mm centres, clad both sides with one layer of 12mm tapered edge gypsum board with staggered joints between boards, in-filled with 50mm thick rockwool insulation; to be fitted into cavity and fixed with drywall screws spaced at 220mm centres in accordance with the manufacturer's instructions</b>				
B	12.5 mm thick gypsum board as Rhinoboard® firestop including connectors, tapes, pastes, adhesives, beads, gaskets, screws and metal studs and all other associated accessories complete with tapering to joints to receive skimming and paint (m/s)	216	m2		
C	Supply and install 50mm thick glass wool as Rockwool AFB® or other approved infill sound insulation solution	108	m2		
	<b>MDF Partitions</b>				
D	Supply and fix 2 No. 12mm thick MDF partitioning complete with brandering/framing to install in place and prepare surface to receive paint (m/s)	85	m2		
	<b>Carried to Collection</b>			Kshs	
	Third Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
A	Ditto to planters	64	m2		
	<b>Division Strips</b>				
B	Stainless steel strip at junction of wall finishes, 15mm x 6mm laid flat to MDF Joints, 1200mm high	268	m		
C	Red Plastic Strip all round MDF Partitions	122	m		
	<b>MDF Paneling</b>				
D	Supply and fix 12mm thick MDF column cladding complete with bandering/framing to install in place and prepare surface to receive paint (m/s)	24	m2		
	<b>Planters</b>				
E	Supply and install 400mm x 400mm x 300mm high indoor planters as <i>Lechuze</i> or other equal and approved brand complete with miniature plants and all associated treatment accessories	27	No		
	<b>Carried to Collection</b>			Kshs	
	Third Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Bill of Quantities

Section No. 2				
Bill No. 2				
Partitions				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No			Amount Kshs
	53			
	54			
Carried Forward to Summary of Section No. 2			Kshs	
Third Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				



## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>THIRD FLOOR</u></b></p> <p><b>BILL NO. 3</b></p> <p><b>DOORS</b></p> <p><b>Aluminium Doors</b></p> <p>Frameless Aluminium Doors glazed with 12 mm thick toughened clear approved glass complete with all necessary ironmongery and fixing lugs built into walling and pointing in mastic. All to Architects details</p> <p>A Aluminium single leaf frameless door, size 900 x 2400mm high</p>	6	No		
	<p>Carried Forward to Summary of Section No. 2</p>			Kshs	
	<p>Third Floor Doors Proposed Office Interior Fit out for KRA - Phase 1</p>				

Item	Description	Quantity	Unit	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>THIRD FLOOR</u></b></p> <p><b>BILL NO. 4</b></p> <p><b>WINDOWS</b></p> <p><b>Vertical Blinds</b></p> <p>A Supply and fix VENETIAN WindowBlinds complete with all accessories as per Manufacturer's printed specifications and instructions to Architect/Client's approval</p>	112	m2		
	<p>Carried Forward to Summary of Section No. 2</p> <p>Third Floor Windows <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>			Kshs	

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 2</u></b>				
	<b><u>THIRD FLOOR</u></b>				
	<b>BILL NO. 5</b>				
	<b>FINISHES</b>				
	<b>WALL FINISHES</b>				
	<b>Glass Tint Film</b>				
A	Approved profile decorative film as "Llumar" or equal and approved fixed to glass partitions in patterns as described by project architect	42	m2		
B	Ditto to glass doors	6	m2		
	<b>Supply and fix textured wall paper with special prints as directed by the Architect complete with adhesive and all associated accessories to:-</b>				
C	Gypsum board surfaces	216	m2		
	<b>Mazeras stone slate cut and fitted to regular pattern bedded and jointed in cement and sand ( 1:1) and recessed pointing complete with machine sanding and polishing</b>				
D	To walls - 20mm	13	m2		
	<b>FLOOR FINISHES</b>				
	<b>Cement and sand (1:3) beds and backing</b>				
E	Beds to receive granito tiles.etc thickness 20 mm	354	m2		
F	Ditto to 100mm high skirting	98	m		
	<b>Carried to Collection</b>			Kshs	
	Third Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>Granito floor tiles and fittings</b>				
A	Provide a prime cost rate of [Kshs 4,000.00/sm] for supply of granito floor tiles (tenderer to add the cost of collection, delivery, grouting, adhesive, spaces and all other materials and laying to completion) as selected by the Architect: Supply and fix 600 x 600 x 10mm granito tiles to floor on prepared bed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval	354	m2		
B	Ditto to 100mm high skirting	98	m		
	<b>Floor carpet</b>				
C	Provide a prime cost rate of [Kshs 8,500/sm] for supply and fix heavy commercial tufted carpet tiles or sheets/rolls as Miliken® soundproofed or other equal and approved including WellBAC™ underlay and protective finish in appropriate backing/adhesive, pile height over 42mm and overall thickness over 8mm (Sample to be provided upon Contract award)	105	m2		
	<b>Wrot Cypress Skirting</b>				
D	100 x 25mm thick cypress skirting	114	m		
	<b>CEILING FINISHES</b>				
	<b>Accoustic tiles</b>				
E	600 x 600 x 16 mm "Armstrong® Lyra®" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To open plan	233	m2		
F	600 x 600 x 16 mm "Armstrong® Ultima®" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To breakout area	16	m2		
	<b>Carried to Collection</b>			Kshs	
	Third Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
A	600 x 600 x 16 mm "Armstrong® MetalWorks" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To reception  <b>Gypsum Board to BS 1230 or other equal and approved</b>	26	m2		
B	12mm decorative moulded suspended gypsum ceiling fixed with and including metal hangers and recessed bulkhead light enclosure	184	m2		
C	150 x 25 mm moulded gypsum cornice primed before fixing  <b>Butt Insulation</b>	154	m		
D	Supply and install 10mm thick padded and reflective backed polyvinyl insulation material as supplied by Jumbochem® Kenya or other equal and approved, laid in accordance with manufacturer's guidelines and specification  <b>PAINTING AND DECORATION</b>  <b>Skimming and surface preparation</b>	184	m2		
E	Carefully apply approved cement plaster-based surface skimming agent from BASF® or other equal and approved manufacturer in two coats complete with manual sanding blowing and laser leveling to achieve prime quality finish all to the manufacturer's instructions. The completed surface to be approved by the Architect prior to receiving surface finish	343	m2		
F	Prepare and apply two coats of skimming paste using steel trowel or other approved smooth finish technology complete with sealing joints, sanding and blowing to remove particles and granules before final coat; prime as required by manufacturer and prepare surface to receive surface application finish (m/s)	216	m2		
	<b>Carried to Collection</b>			Kshs	
	Third Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>Prepare surfaces and apply undercoat, and two finishing coats silk vinyl emulsion paint as "Crown Paints" or other approved to;</b>				
A	Gypsum board partitions	86	m2		
B	Gypsum ceiling	184	m2		
C	Columns	24	m2		
D	Surfaces 100 - 200mm girth	268	m		
	<b>Prepare and apply specialized paint as "Italia Uno Plus from Crown Paints" or other equal and approved to;</b>				
E	Gypsum partitions	130	m2		
F	Plastered wall surfaces	343	m2		
	<b>Knot, prime, stop and spray paint one undercoat and two coats "egg shell" paint to woodwork</b>				
G	Medium Density Fibre (MDF) Partitions	209	m2		
	<b>Carried to Collection</b>			Kshs	
	Third Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Bill of Quantities

Section No. 2				
Bill No. 5				
Finishes				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No			Amount Kshs
	58			
	59			
	60			
	61			
Carried Forward to Summary of Section No. 2			Kshs	
Third Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 2</u></b>				
	<b><u>THIRD FLOOR</u></b>				
	<b>BILL NO. 6</b>				
	<b>FITTINGS (ALL PROVISIONAL)</b>				
	<b>Art Work</b>				
A	Provide a Sum of Kenya Shillings Two Million Only (Kshs 2,000,000.00) for the supply and installation of Art Work and Decorations as per Architects direction		Item		2,000,000.00
	<b>Joinery Fittings and Loose Furniture</b>				
B	Provide a Sum of Kenya Shillings Four Million, Three Hundred and Eighty Thousands Only (Ksh. 4,380,000.00) for the supply and installation of a Joinery Fittings and Loose Furniture as per Architects Instructions and details		Item		4,380,000.00
	<b>Carried Forward to Summary of Section No. 2</b>			Kshs	
	<b>Third Floor Fittings</b>				
	<i>Proposed Office Interior Fit out for KRA - Phase 1</i>				



Bill of Quantities

Bill No	Section No. 2	Page No	Amount Kshs
	Third Floor		
	<u>Summary - Third Floor</u>		
1	Demolition Works	52	
2	Partitions	55	
3	Doors	56	
4	Windows	57	
5	Finishes	62	
6	Fittings	63	
	<b>Carried to Final Summary</b>		Kshs
	Third Floor <i>Proposed Office Interior Fit out for KRA - Phase 1</i>		

# FIFTH FLOOR

Fifth Floor

*Proposed Office Interior Fit out for KRA - Phase 1*

Item	Description	Unit	Quantity	Rate	Amount	
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>FIFTH FLOOR</u></b></p> <p><b>BILL NO. 1</b></p> <p><b>DEMOLITION WORKS</b></p> <p>Notes:</p> <p>All useable materials arising from the demolitions shall remain the property of the Employer but the Contractor may take away any materials not so required by the Employer and shall allow a credit for the same in the credit column indicating value for all such materials that are reusable. All debris arising therefrom shall be carried away and dumped where directed by the Employer while all reusable materials shall be delivered where directed</p> <p><b>The works shall be executed in such order and sequence as the Architect may direct and as little disruption and inconvenience as possible shall be caused to the client, staff and other users of existing facilities.</b></p>					
A	Existing MDF on aluminium framing partitions	m2	159			
B	Existing ceramic tile floor finish	m2	459			
C	Allow for any other demolition as directed by the Architect		Item			
	<p><b>Carried Forward to Summary of Section No. 3</b></p> <p>Fifth Floor Demolition Works <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>				Kshs	

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>FIFTH FLOOR</u></b>				
	<b>BILL NO. 2</b>				
	<b>PARTITIONS</b>				
	<b>Glazed partitions</b>				
A	Supply and install 12mm thick heat treated and toughened laminated Sunergy® extra clear glass or other equal and approved, partially sand-blasted and comprising silicone adhesive jointing on appropriately primed surfaces, joining to concrete and masonry surfaces by plugged 100mm x 75mm PVDF aluminium sections in corporate colours	136	m2		
	<b>Gypsum Partitions</b>				
	<b>Gyproc standard dry wall partition system consisting of 50mm steel drywall studs spaced at 450mm centres, clad both sides with one layer of 12mm tapered edge gypsum board with staggered joints between boards, in-filled with 50mm thick rockwool insulation; to be fitted into cavity and fixed with drywall screws spaced at 220mm centres in accordance with the manufacturer's instructions</b>				
B	12.5 mm thick gypsum board as Rhinoboard® firestop including connectors, tapes, pastes, adhesives, beads, gaskets, screws and metal studs and all other associated accessories complete with tapering to joints to receive skimming and paint (m/s)	314	m2		
C	Supply and install 50mm thick glass wool as Rockwool AFB® or other approved infill sound insulation solution	157	m2		
	<b>Masonry walling</b>				
	<b>Carried to Collection</b>			Kshs	
	Fifth Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>150mm thick machine cut stone walling bedded in cement and sand (1:3) mortar including tying to adjacent reinforced concrete works with strip irons at every course; with 10mm thick MS Plate and 12mm thick gypsum Cladding</b>				
A	To strong room	22	m2		
	<b>MDF Partitions</b>				
B	Supply and fix 2 No. 12mm thick MDF partitioning complete with brandering/framing to install in place and prepare surface to receive paint (m/s)	56	m2		
C	Ditto to planters	21	m2		
	<b>Division Strips</b>				
D	Stainless steel strip at junction of wall finishes, 15mm x 6mm laid flat to MDF Joints, 1200mm high	175	m		
E	Red Plastic Strip all round MDF Partitions	80	m		
	<b>MDF Paneling</b>				
F	Supply and fix 12mm thick MDF column cladding complete with brandering/framing to install in place and prepare surface to receive paint (m/s)	24	m2		
	<b>Planters</b>				
G	Supply and install 400mm x 400mm x 300mm high indoor planters as <i>Lechuze</i> or other equal and approved brand complete with miniature plants and all associated treatment accessories	8	No		
	<b>Carried to Collection</b>			Kshs	
	<b>Fifth Floor Partitions</b>				
	<i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Bill of Quantities

Section No. 3					
Bill No. 2					
Partitions					
<u>COLLECTION</u>					
Total Brought Forward from Page No.	Page No			Amount Kshs	
	67				
	68				
Carried Forward to Summary of Section No.					
3				Kshs	
Fifth Floor					
Partitions					
<i>Proposed Office Interior Fit out for KRA - Phase 1</i>					

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>FIFTH FLOOR</u></b>				
	<b>BILL NO. 3</b>				
	<b>DOORS</b>				
	<b>Aluminium Doors</b>				
	Frameless Aluminium Doors glazed with 12 mm thick toughened clear approved glass complete with all necessary ironmongery and fixing lugs built into walling and pointing in mastic. All to Architects details				
A	Aluminium single leaf frameless door, size 900 x 2400mm high	9	No		
	<b>MDF Post-formed Doors</b>				
	50mm thick Medium Density Fibre (MDF) Single Leaf Post-formed doors; all inclusive of 150 x 50mm matching door frame and iron mongery; as instructed by architect				
B	Door overall Size 900 x 2400mm high	1	No		
	<b>Volt Door</b>				
	45mm thick ARMoured panel door infilled with 600mm wide hardwood panels fixed all round with 25 x 25mm grooved h.w. beading complete and including 6mm mild solid steel panel infill, 200mm x 300mm high viewing panel in georgian wire glass and all associated brass ironmongery				
C	Door overall size 900 x 2400mm high	1	No		
	<b>Carried Forward to Summary of Section No. 3</b>			Kshs	
	Fifth Floor Doors Proposed Office Interior Fit out for KRA - Phase 1				

Item	Description	Quantity	Unit	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>FIFTH FLOOR</u></b></p> <p><b>BILL NO. 4</b></p> <p><b>WINDOWS</b></p> <p><b>Vertical Blinds</b></p> <p>A Supply and fix VENETIAN WindowBlinds complete with all accessories as per Manufacturer's printed specifications and instructions to Architect/Client's approval</p>	112	m2		
	<p>Carried Forward to Summary of Section No. 3</p> <p>Fifth Floor Windows <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>			Kshs	



Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>FIFTH FLOOR</u></b>				
	<b>BILL NO. 5</b>				
	<b>FINISHES</b>				
	<b>WALL FINISHES</b>				
	<b>Glass Tint Film</b>				
A	Approved profile decorative film as "Llumar" or equal and approved fixed to glass partitions in patterns as described by project architect	47	m2		
B	Ditto to glass doors	10	m2		
	<b>Supply and fix textured wall paper with special prints as directed by the Architect complete with adhesive and all associated accessories to:-</b>				
C	Gypsum board surfaces	314	m2		
	<b>Mazeras stone slate cut and fitted to regular pattern bedded and jointed in cement and sand ( 1:1) and recessed pointing complete with machine sanding and polishing</b>				
D	To walls - 20mm	30	m2		
	<b>FLOOR FINISHES</b>				
	<b>Cement and sand (1:3) beds and backing</b>				
E	Beds to receive granito tiles.etc thickness 20 mm	315	m2		
F	Ditto to 100mm high skirting	109	m		
	<b>Carried to Collection</b>			Kshs	
	Fifth Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>Granito floor tiles and fittings</b>				
A	Provide a prime cost rate of [Kshs 4,000.00/sm] for supply of granito floor tiles (tenderer to add the cost of collection, delivery, grouting, adhesive, spaces and all other materials and laying to completion) as selected by the Architect: Supply and fix 600 x 600 x 10mm granito tiles to floor on prepared bed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval	315	m2		
B	Ditto to 100mm high skirting	109	m		
	<b>Floor carpet</b>				
C	Provide a prime cost rate of [Kshs 8,500/sm] for supply and fix heavy commercial tufted carpet tiles or sheets/rolls as Miliken® soundproofed or other equal and approved including WellBAC™ underlay and protective finish in appropriate backing/adhesive, pile height over 42mm and overall thickness over 8mm (Sample to be provided upon Contract award)	144	m2		
	<b>Wrot Cypress Skirting</b>				
D	100 x 25mm thick cypress skirting	142	m		
	<b>CEILING FINISHES</b>				
	<b>Accoustic tiles</b>				
E	600 x 600 x 16 mm "Armstrong® Lyra®" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To open plan	261	m2		
F	600 x 600 x 16 mm "Armstrong® Ultima®" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To breakout area	14	m2		
	<b>Carried to Collection</b>			Kshs	
	<b>Fifth Floor Finishes</b>				
	<i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>Gypsum Board to BS 1230 or other equal and approved</b>				
A	12mm decorative moulded suspended gypsum ceiling fixed with and including metal hangers and recessed bulkhead light enclosure	184	m2		
B	150 x 25 mm moulded gypsum cornice primed before fixing	154	m		
	<b>Butt Insulation</b>				
C	Supply and install 10mm thick padded and reflective backed polyvinyl insulation material as supplied by Jumbochem® Kenya or other equal and approved, laid in accordance with manufacturer's guidelines and specification	184	m2		
	<b>PAINTING AND DECORATION</b>				
	<b>Skimming and surface preparation</b>				
D	Carefully apply approved cement plaster-based surface skimming agent from BASF® or other equal and approved manufacturer in two coats complete with manual sanding blowing and laser leveling to achieve prime quality finish all to the manufacturer's instructions. The completed surface to be approved by the Architect prior to receiving surface finish	44	m2		
E	Prepare and apply two coats of skimming paste using steel trowel or other approved smooth finish technology complete with sealing joints, sanding and blowing to remove particles and granules before final coat; prime as required by manufacturer and prepare surface to receive surface application finish (m/s)	314	m2		
	<b>Prepare surfaces and apply undercoat, and two finishing coats silk vinyl emulsion paint as "Crown Paints" or other approved to;</b>				
F	Gypsum board partitions	296	m2		
G	To 150mm thick masonry walling	44	m2		
	<b>Carried to Collection</b>			Kshs	
	Fifth Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
A	Gypsum ceiling	184	m2		
B	Columns	24	m2		
C	Surfaces 100 - 200mm girth	296	m		
	<b>Prepare and apply specialized paint as "Italia Uno Plus from Crown Paints" or other equal and approved to;</b>				
D	Gypsum partitions	189	m2		
E	Plastered wall surfaces		m2		
	<b>Knot, prime, stop and spray paint one undercoat and two coats "egg shell" paint to woodwork</b>				
F	Medium Density Fibre (MDF) Partitions	121	m2		
	<b>Carried to Collection</b>			Kshs	
	<b>Fifth Floor Finishes Proposed Office Interior Fit out for KRA - Phase 1</b>				

Bill of Quantities

Section No. 3				
Bill No. 5				
Finishes				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No			Amount Kshs
	72			
	73			
	74			
	75			
Carried Forward to Summary of Section No. 3			Kshs	
Fifth Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 3</u></b>				
	<b><u>FIFTH FLOOR</u></b>				
	<b>BILL NO. 6</b>				
	<b>FITTINGS (ALL PROVISIONAL)</b>				
	<b>Art Work</b>				
A	Provide a Sum of Kenya Shillings Two Million Only (Kshs 2,000,000.00) for the supply and installation of Art Work and Decorations as per Architects direction		Item		2,000,000.00
	<b>Joinery Fittings and Loose Furniture</b>				
B	Provide a Sum of Kenya Shillings Three Million, Nine Hundred and Forty Thousands Only (Ksh. 3,940,000.00) for the supply and installation of a Joinery Fittings and Loose Furniture as per Architects Instructions and details		Item		3,940,000.00
	<b>Carried Forward to Summary of Section No. 3</b>			Kshs	
	<b>Fifth Floor Fittings</b>				
	<i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Bill of Quantities

Bill No	Section No. 3 Fifth Floor <u>Summary - Fifth Floor</u>	Page No		Amount Kshs
1	Demolition Works	66		
2	Partitions	69		
3	Doors	70		
4	Windows	71		
5	Finishes	76		
6	Fittings	77		
<b>Carried to Final Summary</b>			Kshs	
Fifth Floor <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

# SEVENTH FLOOR

Seventh Floor

*Proposed Office Interior Fit out for KRA - Phase 1*



Item	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>SEVENTH FLOOR</u></b></p> <p><b>BILL NO. 1</b></p> <p><b>DEMOLITION WORKS</b></p> <p>Notes:</p> <p>All useable materials arising from the demolitions shall remain the property of the Employer but the Contractor may take away any materials not so required by the Employer and shall allow a credit for the same in the credit column indicating value for all such materials that are reusable. All debris arising therefrom shall be carried away and dumped where directed by the Employer while all reusable materials shall be delivered where directed</p> <p><b>The works shall be executed in such order and sequence as the Architect may direct and as little disruption and inconvenience as possible shall be caused to the client, staff and other users of existing facilities.</b></p>				
A	Existing MDF on aluminium framing partitions	m2	140		
B	Existing ceramic tile floor finish	m2	336		
C	Allow for any other demolition as directed by the Architect		Item		
	<p><b>Carried Forward to Summary of Section No. 4</b></p>				Kshs
	<p>Seventh Floor Demolition Works <i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>				

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 4</u></b>				
	<b><u>SEVENTH FLOOR</u></b>				
	<b>BILL NO. 2</b>				
	<b>PARTITIONS</b>				
	<b>Glazed partitions</b>				
A	Supply and install 12mm thick heat treated and toughened laminated Sunergy® extra clear glass or other equal and approved, partially sand-blasted and comprising silicone adhesive jointing on appropriately primed surfaces, joining to concrete and masonry surfaces by plugged 100mm x 75mm PVDF aluminium sections in corporate colours	95	m2		
	<b>Gypsum Partitions</b>				
	<b>Gyproc standard dry wall partition system consisting of 50mm steel drywall studs spaced at 450mm centres, clad both sides with one layer of 12mm tapered edge gypsum board with staggered joints between boards, in-filled with 50mm thick rockwool insulation; to be fitted into cavity and fixed with drywall screws spaced at 220mm centres in accordance with the manufacturer's instructions</b>				
B	12.5 mm thick gypsum board as Rhinoboard® firestop including connectors, tapes, pastes, adhesives, beads, gaskets, screws and metal studs and all other associated accessories complete with tapering to joints to receive skimming and paint (m/s)	248	m2		
C	Supply and install 50mm thick glass wool as Rockwool AFB® or other approved infill sound insulation solution	124	m2		
	<b>MDF Partitions</b>				
D	Supply and fix 2 No. 12mm thick MDF partitioning complete with brandering/framing to install in place and prepare surface to receive paint (m/s)	13	m2		
	<b>Carried to Collection</b>			Kshs	
	Seventh Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
A	Ditto to planters	87	m2		
	<b>Division Strips</b>				
B	Stainless steel strip at junction of wall finishes, 15mm x 6mm laid flat to MDF Joints, 1200mm high	42	m		
C	Red Plastic Strip all round MDF Partitions	19	m		
	<b>MDF Paneling</b>				
D	Supply and fix 12mm thick MDF column cladding complete with bandering/framing to install in place and prepare surface to receive paint (m/s)	24	m2		
	<b>Planters</b>				
E	Supply and install 400mm x 400mm x 300mm high indoor planters as <i>Lechuze</i> or other equal and approved brand complete with miniature plants and all associated treatment accessories	32	No		
	<b>Carried to Collection</b>			Kshs	
	Seventh Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Bill of Quantities

Section No. 4				
Bill No. 2				
Partitions				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No			Amount Kshs
	81			
	82			
Carried Forward to Summary of Section No. 4			Kshs	
Seventh Floor Partitions <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Item	Description	Quantity	Unit	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>SEVENTH FLOOR</u></b></p> <p><b>BILL NO. 3</b></p> <p><b>DOORS</b></p> <p><b>Aluminium Doors</b></p> <p>Frameless Aluminium Doors glazed with 12 mm thick toughened clear approved glass complete with all necessary ironmongery and fixing lugs built into walling and pointing in mastic. All to Architects details</p> <p>A Aluminium single leaf frameless door, size 900 x 2400mm high</p>	6	No		
	<p>Carried Forward to Summary of Section No. 4</p> <p>Seventh Floor Doors</p> <p><i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>			Kshs	

Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>SEVENTH FLOOR</u></b></p> <p><b>BILL NO. 4</b></p> <p><b>WINDOWS</b></p> <p><b>Vertical Blinds</b></p> <p>A Supply and fix VENETIAN WindowBlinds complete with all accessories as per Manufacturer's printed specifications and instructions to Architect/Client's approval</p>	90	m2		
	<p>Carried Forward to Summary of Section No. 4</p> <p>Seventh Floor Windows</p> <p><i>Proposed Office Interior Fit out for KRA - Phase 1</i></p>			Kshs	

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 4</u></b>				
	<b><u>SEVENTH FLOOR</u></b>				
	<b>BILL NO. 5</b>				
	<b>FINISHES</b>				
	<b>WALL FINISHES</b>				
	<b>Glass Tint Film</b>				
A	Approved profile decorative film as "Llumar" or equal and approved fixed to glass partitions in patterns as described by project architect	27	m2		
B	Ditto to glass doors	6	m2		
	<b>Supply and fix textured wall paper with special prints as directed by the Architect complete with adhesive and all associated accessories to:-</b>				
C	Gypsum board surfaces	248	m2		
	<b>Mazeras stone slate cut and fitted to regular pattern bedded and jointed in cement and sand ( 1:1) and recessed pointing complete with machine sanding and polishing</b>				
D	To walls - 20mm	36	m2		
	<b>FLOOR FINISHES</b>				
	<b>Cement and sand (1:3) beds and backing</b>				
E	Beds to receive granito tiles.etc thickness 20 mm	235	m2		
F	Ditto to 100mm high skirting	73	m		
	<b>Carried to Collection</b>			Kshs	
	Seventh Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>Granito floor tiles and fittings</b>				
A	Provide a prime cost rate of [Kshs 3,500.00/sm] for supply of granito floor tiles (tenderer to add the cost of collection, delivery, grouting, adhesive, spaces and all other materials and laying to completion) as selected by the Architect: Supply and fix 600 x 600 x 10mm granito tiles to floor on prepared bed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting; including pvc spacers and expansion joint as necessary: all to Architect's approval	235	m2		
B	Ditto to 100mm high skirting	73	m		
	<b>Floor carpet</b>				
C	Supply and fix heavy commercial tufted carpet tiles or sheets/rolls as Miliken® soundproofed or other equal and approved including WellBAC™ underlay and protective finish in appropriate backing/adhesive, pile height over 42mm and overall thickness over 8mm (Sample to be provided upon award)	101	m2		
	<b>Wrot Cypress Skirting</b>				
D	100 x 25mm thick cypress skirting	115	m		
	<b>CEILING FINISHES</b>				
	<b>Accoustic tiles</b>				
E	600 x 600 x 16 mm "Armstrong® Lyra®" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To open plan	184	m2		
F	600 x 600 x 16 mm "Armstrong® Ultima®" or other equal and approved acoustic tiles fixed with metal suspended hangers as specified by manufacturers - To breakout area	17	m2		
	<b>Carried to Collection</b>			Kshs	
	Seventh Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				



## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
	<b>Gypsum Board to BS 1230 or other equal and approved</b>				
A	12mm decorative moulded suspended gypsum ceiling fixed with and including metal hangers and recessed bulkhead light enclosure	134	m2		
B	150 x 25 mm moulded gypsum cornice primed before fixing	114	m		
	<b>Butt Insulation</b>				
C	Supply and install 10mm thick padded and reflective backed polyvinyl insulation material as supplied by Jumbochem® Kenya or other equal and approved, laid in accordance with manufacturer's guidelines and specification	134	m2		
	<b>PAINTING AND DECORATION</b>				
	<b>Skimming and surface preparation</b>				
D	Carefully apply approved cement plaster-based surface skimming agent from BASF® or other equal and approved manufacturer in two coats complete with manual sanding blowing and laser leveling to achieve prime quality finish all to the manufacturer's instructions. The completed surface to be approved by the Architect prior to receiving surface finish	309	m2		
E	Prepare and apply two coats of skimming paste using steel trowel or other approved smooth finish technology complete with sealing joints, sanding and blowing to remove particles and granules before final coat; prime as required by manufacturer and prepare surface to receive surface application finish (m/s)	248	m2		
	<b>Prepare surfaces and apply undercoat, and two finishing coats silk vinyl emulsion paint as "Crown Paints" or other approved to;</b>				
F	Gypsum board partitions	99	m2		
G	Gypsum ceiling	134	m2		
	<b>Carried to Collection</b>			Kshs	
	Seventh Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

## Bill of Quantities

Item	Description	Quantity	Unit	Rate	Amount
A	Columns	24	m2		
B	Surfaces 100 - 200mm girth	229	m		
	<b>Prepare and apply specialized paint as "Italia Uno Plus from Crown Paints" or other equal and approved to;</b>				
C	Gypsum partitions	149	m2		
D	Plastered wall surfaces	309	m2		
	<b>Knot, prime, stop and spray paint one undercoat and two coats "egg shell" paint to woodwork</b>				
E	Medium Density Fibre (MDF) Partitions	94	m2		
	<b>Carried to Collection</b>			Kshs	
	Seventh Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Bill of Quantities

Section No. 4				
Bill No. 5				
Finishes				
<u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No			Amount Kshs
	86			
	87			
	88			
	89			
Carried Forward to Summary of Section No. 4			Kshs	
Seventh Floor Finishes <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Item	Description	Quantity	Unit	Rate	Amount
	<b><u>SECTION NO. 4</u></b>				
	<b><u>SEVENTH FLOOR</u></b>				
	<b>BILL NO. 6</b>				
	<b>FITTINGS (ALL PROVISIONAL)</b>				
	<b>Art Work</b>				
A	Provide a Sum of Kenya Shillings Two Million Only (Kshs 2,000,000.00) for the supply and installation of Art Work and Decorations as per Architects direction		Item		2,000,000.00
	<b>Joinery Fittings and Loose Furniture</b>				
B	Provide a Sum of Kenya Shillings Two Million, Nine Hundred and Fifty Thousands Only (Ksh. 2,950,000.00) for the supply and installation of a Joinery Fittings and Loose Furniture as per Architects Instructions and details		Item		2,950,000.00
	<b>Carried Forward to Summary of Section No. 4</b>			Kshs	
	Seventh Floor Fittings Proposed Office Interior Fit out for KRA - Phase 1				

Bill of Quantities

Bill No	Section No. 4 Seventh Floor <u>Summary - Seventh Floor</u>	Page No		Amount Kshs
1	Demolition Works	80		
2	Partitions	83		
3	Doors	84		
4	Windows	85		
5	Finishes	90		
6	Fittings	91		
<b>Carried to Final Summary</b>			Kshs	
Seventh Floor <i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

Section No	<u>FINAL SUMMARY</u>	Page No		Amount Kshs
1	Preliminaries	29		
2	Third Floor	64		
3	Fifth Floor	78		
4	Seventh Floor	92		
<b>TOTAL SUMMARY</b>			Kshs	
<i>Proposed Office Interior Fit out for KRA - Phase 1</i>				

# **ELECTRICAL INSTALLATIONS**

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 1	ELECTRICAL INSTALLATIONS LEVEL 03  <i>Supply, install, test and commission in accordance to BS 7671:1998, the following as described below:</i>				
1.0	LIGHTING INSTALLATION				
1.1	New Lighting points wired in 3x 1.5 sq.mm PVC insulated single core copper cable drawn in 20mm dia.PVC Heavy gauge conduit for one way switching.	No.	223		
1.2	Ditto, but for two way switching.	No.	0		
1.3	10A 500V white moulded switchplates as legrand or equal and approved as described: a) One gang one way. b) Three gang one way. c) Four gang one way . d)One Gang One way dimmer switch	No. No. No. No.	7 3 1 7		
1.4	Supply and install the following lighting fixtures complete with the control switchgears, ceiling roses and lamps as per description and symbols:  a) 32W 600x600mm Ceiling recessed LED fittings Slim Profile as ROBUS SPACE LED panel lights R326060LED-CW or equal and approved, Type 2C  b) Ditto as type 2C version but with Emergency kit as Robus Space LED R326060LED-CWE, Type 2CE.  c) 45W 600x600mm Analogue dimmable ceiling recessed LED fittings Slim Profile as ROBUS SPACE LED panel lights R456060LED-CWAD or equal and approved, Type 2B  d) Ditto as type 2B version but with Emergency kit, Type 2BE.  e) Rectangular recessed (85mmx 150mm) with Aluminium finish adjustable downlight with 2x35W GU10 lamp as Massive Apollo 59502/48/10 or equal and approved. Type D1A.  f) Aluminium finish main voltage die cast adjustable downlight with 50W GU10 lamp as micromark MM31216 or equal and approved. Type D1.  g) Ceiling mounted maintained LED exit sign as Robus LED Blade RE430M-01 2711 or equal and approved.Type EXIT.	No. No. No. No. No. No. No.	48 12 16 8 10 125 4		
	Carried Forward to the Next Page				



## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 1	Brought Forward from Previous page				
2.0	SMALL POWER INSTALLATION				
2.1	200 x 50mm 2-compartment angular, off-white PVC trunking complete with clip-on cover ,bends and tees as Marshall Tufflex or equal and approved.	LM	105		
2.2	200 mm twin angular,screw type off-white and PVC template as Marshall Tufflex or equal and approved.	No.	45		
2.3	200 mm single angular,screw type off-white PVC template as Marshall Tufflex or equal and approved.	No.	18		
2.4	Ringmains circuit power points wired in 3x 2.5 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics .	No.	164		
2.5	500V white moulded socket plates as Legrand or equal and approved as described: a) 13A twin standard switched. b) 13A single standard switched c) 13A twin non standard switched complete with 3 pin plugs .	No. No. No.	94 1 69		
2.6	Radial circuit power points wired in 3x 2.5 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics . a) LAN Cabinet b) Security, Access and Fire alarm Panels c) Coffee Urn. d) 13A unswitched fused units for items (a&b) above e) 15A single standard socket outlet for item (c) above	No. No. No. No. No.	2 3 1 5 1		
2.70	Radial circuit power points wired in 3x 4 sq.mm PVC insulated three core flex copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics for . a) Under Sink Heater b) 20A DP switch with neon indicator for the item (b) above .	No. No.	1 1		
2.80	Factory manufactured electrical floor box made of stamped steel able to receive architectural floor finish on cover. Floor box shall have heavy duty hinges with: - 2 x 13A twin socket outlets - 1 x dual RJ45 faceplate - 1 x single blanking plate (spare)	No.	2		
Carried Forward to the Next Page					

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 1	Brought Forward from Previous page				
3.0	POWER DISTRIBUTION INSTALLATION				
3.1	8 Ways 125A TPN Recessed Distribution board DB-B1 and DB-B2 complete with integral isolator and front lockable cover.	No.	2		
3.2	8 Ways 125A TPN Recessed Distribution board DB-U3 and DB-U4 (for UPS Power) complete with integral isolator and front lockable cover.	No.	2		
3.3	MCBs for the items above:				
	a) 10A SP.	No.	6		
	b) 20A SP.	No.	6		
	c) 32A SP.	No.	25		
	d) 40A TP.	No.	0		
	e) blanking plates	No.	50		
3.4	4X 10 sq.mm PVC/SWA/PVC cu armoured cable +1 X 6sq mm ECC single core PVC insulated copper cables drawn in conduit/Trunking from Existing Isolator to DB-B1 and DB-B2. (Exact length to be confirmed on site)	LM.	20		
3.5	4X 10 sq.mm PVC/SWA/PVC cu armoured cable +1 X 6sq mm ECC single core PVC insulated copper cables drawn in conduit/Trunking from DB-UPS to DB-U3 and DB-U4. (Exact length to be confirmed on site)	LM.	80		
	30A TPN contactor with manual bypass and in housing for lighting DB above as Schneider Electric	No.	2		
3.7	200mm wide x 50mm high 16SWG galvanized slotted cable tray with divider fixed on brackets rawl bolted in the service duct including tees, bends etc.	LM	165		
3.8	Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, air-conditioning units, window frames, cladding, metal roof etc. to the main earth for the building.	Item	1		
3.9	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	Item	1		
4.0	FIRE ALARM/TELEPHONE /CCTV/ ACCESS CONTROL OUTLETS				
4.1	Outlet for security & fire alarm sensors & CCTV camera drawn in 25mm dia.PVC Heavy gauge conduit concealed in building fabrics complete with switchboxes, draw wire and blanking plate	No.	109		
4.2	Telephone/data outlet points installed using 25mm diameter pvc conduits or drawn in trunking complete with all the accessories and the draw wires.	No.	100		
4.3	25mm flexible conduits to furniture stations	LM	50		
4.4	TV Outlets drawn in 32mm dia PVC Heavy gauge conduit concealed in building fabrics complete with switchboxes, draw wire and blanking plate	No	1		
Total for Electricals Carried Forward to the Summary Page					

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 2	ELECTRICAL INSTALLATIONS LEVEL 05 <i>Supply, install, test and commission in accordance to BS 7671:1998, the following as described below:</i>				
1.0	LIGHTING INSTALLATION				
1.1	New Lighting points wired in 3x 1.5 sq.mm PVC insulated single core copper cable drawn in 20mm dia.PVC Heavy gauge conduit for one way switching.	No.	218		
1.2	Ditto, but for two way switching.	No.	0		
1.3	10A 500V white moulded switchplates as legrand or equal and approved as described: a) One gang one way. b) Two gang one way . c) Three gang one way. d) Four gang one way . e) One gang one way dimmer switch. f) 2g1w dimmer switch	No. No. No. No. No. No.	6 1 1 2 3 1		
1.4	Supply and install the following lighting fixtures complete with the control switchgears, ceiling roses and lamps as per description and symbols: a) Ceiling recessed 25W LED downlight as Robus Eternity R2530DL or equal and approved equivalent, as Type D2. b) Ditto as type D2 version but with Emergency kit, Type D2E. c) 32W 600x600mm Ceiling recessed LED fittings Slim Profile as ROBUS SPACE LED panel lights R326060LED-CW or equal and approved, Type 2C d) Ditto as type 2C version but with Emergency kit as Robus Space LED R326060LED-CWE, Type 2CE. e) 45W 600x600mm Analogue dimmable ceiling recessed LED fittings Slim Profile as ROBUS SPACE LED panel lights R456060LED-CWAD or equal and approved, Type 2B f) Ditto as type 2B version but with Emergency kit, Type 2BE. g) Rectangular recessed (85mmx 150mm) with Aluminium finish adjustable downlight with 2x35W GU10 lamp as Massive Apollo 59502/48/10 or equal and approved. Type D1A. h) Aluminium finish main voltage die cast adjustable downlight with 50W GU10 lamp as micromark MM31216 or equal and approved. Type D1. i) lx28W T5/T16 Bare batten fluorescent fitting with high frequency ballast asThorn Poppack Pro 96239876. Type 4 j) Ditto Type 4 but with emergency kit. Type 4E k) Ceiling mounted maintained LED exit sign as Robus LED Blade RE430M-01 2711 or equal and approved.Type EXIT.	No. No. No. No. No. No. No. No. No. No. No.	0 1 48 8 15 5 15 112 6 6 2		

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 2	Brought Forward from Previous page				
2.0	SMALL POWER INSTALLATION				
2.1	200 x 50mm 2-compartment angular, off-white PVC trunking complete with clip-on cover ,bends and tees as Marshall Tufflex or equal and approved.	LM	75		
2.2	200 mm twin angular,screw type off-white and PVC template as Marshall Tufflex or equal and approved.	No.	20		
2.3	200 mm single angular,screw type off-white PVC template as Marshall Tufflex or equal and approved.	No.	10		
2.4	Ringmains circuit power points wired in 3x 2.5 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics .	No.	130		
2.5	500V white moulded socket plates as Legrand or equal and approved as described: a) 13A twin standard switched. b) 13A single standard switched c) 13A twin non standard switched complete with 3 pin plugs .	No. No. No.	77 1 52		
2.6	Radial circuit power points wired in 3x 2.5 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics . a) LAN Cabinet b) Security, Access, Fire alarm Panels and Fire suppression panel c) Coffee Urn. e) 13A unswitched fused units for items (a&b) above f) 15A single standard socket outlet for item (c) above	No. No. No. No. No.	2 3 1 5 1		
2.7	Radial circuit power points wired in 3x 4 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics for . a) Under Sink Heater b) 20A DP switch with neon indicator for the item (a) above .	No. No.	1 1		
2.8	Factory manufactured electrical floor box made of stamped steel able to receive architectural floor finish on cover. Floor box shall have heavy duty hinges with: - 2 x 13A twin socket outlets - 1 x dual RJ45 faceplate - 1 x single blanking plate (spare)	No.	6		
Carried Forward to the Next Page					

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 2	Brought Forward from Previous page				
3.0	POWER DISTRIBUTION INSTALLATION				
3.1	8 Ways 125A TPN Recessed Distribution board DB-D1, and DB-D2 complete with integral isolator and front lockable cover.	No.	2		
3.2	8 Ways 125A TPN Recessed Distribution board DB-U7 and DB-U8 (for UPS Power) complete with integral isolator and front lockable cover.	No.	2		
3.3	MCBs for the items above:				
	a) 10A SP.	No.	6		
	b) 20A SP.	No.	6		
	c) 32A SP.	No.	22		
	d) blanking plates	No.	50		
3.4	4X 10 sq.mm PVC/SWA/PVC cu armoured cable +1 X 6sq mm ECC single core PVC insulated copper cables drawn in conduit/Trunking from Existing Isolators to DB-D1 and DB-D2(Exact length to be confirmed on site)	LM.	20		
3.5	4X 10 sq.mm PVC/SWA/PVC cu armoured cable +1 X 6sq mm ECC single core PVC insulated copper cables drawn in conduit/Trunking from DB-UPS to DB-U7 and DB-U8. (Exact length to be confirmed on site)	LM.	120		
	30A TPN contactor with manual bypass and in housing for lighting DB above as Schneider Electric	No.	2		
2.1	200mm wide x 50mm high 16SWG galvanized slotted cable tray with divider fixed on brackets rawl bolted in the service duct including tees, bends etc.	LM	145		
3.9	Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, air-conditioning units, window frames, cladding, metal roof etc. to the main earth for the building.	Item	1		
3.10	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	Item	1		
4.0	FIRE ALARM/TELEPHONE /CCTV/ ACCESS CONTROL OUTLETS				
4.1	Outlet for security & fire alarm sensors & CCTV camera drawn in 25mm dia.PVC Heavy gauge conduit concealed in building fabrics complete with switchboxes, draw wire and blanking plate	No.	123		
4.2	Telephone/data outlet points installed using 25mm diameter pvc conduits or drawn in trunking complete with all the accessories and the draw wires.	No.	60		
4.3	25mm flexible conduits to furniture stations	LM	50		
Total for Electricals Carried Forward to the Summary Page					

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 3	ELECTRICAL INSTALLATIONS LEVEL 07  <i>Supply, install, test and commission in accordance to BS 7671:2008, the following as described below:</i>				
1.0	LIGHTING INSTALLATION				
1.1	New Lighting points wired in 3x 1.5 sq.mm PVC insulated single core copper cable drawn in 20mm dia.PVC Heavy gauge conduit for one way switching.	No.	197		
1.2	Ditto, but for two way switching.	No.	4		
1.3	10A 500V white moulded switchplates as legrand or equal and approved as described: a) One gang one way. b) Three gang one way. c) Four gang one way . d) One gang one way dimmer switch.	No. No. No. No.	10 1 1 6		
1.4	Supply and install the following lighting fixtures complete with the control switchgears, ceiling roses and lamps as per description and symbols:  a) Ceiling recessed 25W LED downlight as Robus Eternity R2530DL or equal and approved equivalent, as Type D2.  b) Ditto as type D2 version but with Emergency kit, Type D2E.  c) 32W 600x600mm Ceiling recessed LED fittings Slim Profile as ROBUS SPACE LED panel lights R326060LED-CW or equal and approved, Type 2C  d) Ditto as type 2C version but with Emergency kit as Robus Space LED R326060LED-CWE, Type 2CE.  e) 45W 600x600mm Analogue dimmable ceiling recessed LED fittings Slim Profile as ROBUS SPACE LED panel lights R456060LED-CWAD or equal and approved, Type 2B  f) Ditto as type 2B version but with Emergency kit, Type 2BE.  g) Aluminium finish main voltage die cast adjustable downlight with 50W GU10 lamp as micromark MM31216 or equal and approved. Type D1.  h) Ceiling mounted maintained LED exit sign as Robus LED Blade RE430M-01 2711 or equal and approved.Type EXIT.	No. No. No. No. No. No. No. No.	3 1 60 10 19 7 97 4		
	Carried Forward to the Next Page				

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 3	Brought Forward from Previous page				
2.0	SMALL POWER INSTALLATION				
2.1	200 x 50mm 2-compartment angular, off-white PVC trunking complete with clip-on cover ,bends and tees as Marshall Tufflex or equal and approved.	LM	80		
2.2	200 mm twin angular,screw type off-white and PVC template as Marshall Tufflex or equal and approved.	No.	26		
2.3	200 mm single angular,screw type off-white PVC template as Marshall Tufflex or equal and approved.	No.	13		
2.4	Ringmains circuit power points wired in 3x 2.5 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics .	No.	119		
2.5	500V white moulded socket plates as Legrand or equal and approved as described: a) 13A twin standard switched. b) 13A single standard switched c) 13A twin non standard switched complete with 3 pin plugs .	No. No. No.	72 0 47		
2.6	Radial circuit power points wired in 3x 2.5 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics . a) LAN Cabinet b) Security, Access, Fire alarm Panels and Fire suppression panel f) 13A unswitched fused units for items (a&b) above	No. No. No.	2 3 5		
2.7	Radial circuit power points wired in 3x 4 sq.mm PVC insulated single core copper cable drawn in trunking or/and PVC Heavy gauge conduit concealed in building fabrics for . c) Under Sink Heater f) 20A DP switch with neon indicator for the item (b) above .	No. No.	2 2		
Carried Forward to the Next Page					

## Bill of Quantities

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 3	Brought Forward from Previous page				
3.0	POWER DISTRIBUTION INSTALLATION				
3.1	8 Ways 125A TPN Recessed Distribution board DB-E2 and DB-E2 complete with integral isolator and front lockable cover .	No.	2		
3.2	8 Ways 125A TPN Recessed Distribution board DB-U9 and DB-U10 (for UPS Power) complete with integral isolator and front lockable cover.	No.	2		
3.3	MCBs for the items above:				
	a) 10A SP.	No.	6		
	b) 20A SP.	No.	6		
	c) 32A SP.	No.	12		
	d) 40A TP.	No.	0		
	d) 50A TP.	No.	0		
	e) blanking plates	No.	50		
3.4	4X 10 sq.mm PVC/SWA/PVC cu armoured cable +1 X 6sq mm ECC single core PVC insulated copper cables drawn in conduit/Trunking from Existing Isolators to DB-E1 and DB-E2 (Exact length to be confirmed on site)	LM.	20		
3.5	4X 10 sq.mm PVC/SWA/PVC cu armoured cable +1 X 6sq mm ECC single core PVC insulated copper cables drawn in conduit/Trunking from DB-UPS to DB-U9 and DB-U10. (Exact length to be confirmed on site)	LM.	160		
	30A TPN contactor with manual bypass and in housing for lighting DB above as Schneider Electric	No.	2		
2.1	200mm wide x 50mm high 16SWG galvanized slotted cable tray with divider fixed on brackets rawl bolted in the service duct including tees, bends etc.	LM	105		
3.9	Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, air-conditioning units, window frames, cladding, metal roof etc. to the main earth for the building.	Item	1		
3.10	Carry out concise permanent traffolyte labelling for all the sub-circuits in item above.	Item	1		
4.0	FIRE ALARM/TELEPHONE /CCTV/ ACCESS CONTROL OUTLETS				
4.1	Outlet for security & fire alarm sensors & CCTV camera drawn in 25mm dia.PVC Heavy gauge conduit concealed in building fabrics complete with switchboxes, draw wire and blanking plate	No.	105		
4.2	Telephone/data outlet points installed using 25mm diameter pvc conduits or drawn in trunking complete with all the accessories and the draw wires.	No.	80		
4.3	25mm flexible conduits to furniture stations	LM	50		
Total for Electricals Carried Forward to the Summary Page					



Bill of Quantities

SUMMARY PAGE

ITEM No.	ITEM DESCRIPTIONS	AMOUNT-KSHS.
1.0	Brought forward for Bill No.1 - Level 03 Installations	-
2.0	Brought forward for Bill No.2 - Level 05 Installations	
3.0	Brought forward for Bill No.3 - Level 07 Installations	
4.0	Provide interface services to :- a) Security Installations Contractor b) Server Room Contractor/Structured Cabling c) UPS contractor d) Audio Visual contractor e) Fire Alarms Contractor	
5.0	3 No. Sets of Working and final "As Built" Drawings in A3 paper size, O & M Manuals including test results	
6.0	Allow for Testing & commissioning of all systems.	
SUB-TOTAL		
PC Sum for tapping to existing bus bar		300,000.00
TOTAL FOR FIRE ALARM SERVICES CARRIED FORWARD TO FORM OF TENDER		

AMOUNT IN WORDS - KENYA SHILLINGS .....

.....

SIGNED .....

CONTRACTOR'S OFFICIAL STAMP .....

.....

DATE .....

# **PLUMBING & DRAINAGE SERVICES INSTALLATIONS**

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
1.00	<p>BILL No.1: LEVEL 03</p> <p>SANITARY FITTINGS</p> <p>SUPPLY AND INSTALL the following Sanitary appliances including their support brackets, screws, mastic, silicon etc. and all other necessary accessories to make the appliances operational. All final connections to water supply, waste/soil drainage and electrical power supply (whether measured or not) are to be the responsibility of the contractor and must be priced for. Exceptions are items indicated as supply &amp; Install.</p> <p>NOTE: TRADE NAMES            Where Trade Names are mentioned below, the contractor shall supply as specified. Alternatives will only be accepted on approval.</p> <p>Kitchen Sink &amp; accessories</p> <p>A ASL Single bowl single drainer kitchen sink made out of stainless steel sheet with bright machine polish finish.</p> <p>B "Hansgrohe Metropol " chrome plated single lever kitchen mixer tap Ref No. 14842000</p> <p>C Chrome plated heavy cast 1½" sink waste, 70 mm diameter flange, 45 mm long shank, unslotted with plug, chain and backnut.</p> <p>D "Cobra Watertech" or approved equivalent, Ref. No. 360 chrome plated 1½" bottle trap with 75 mm deep seal and 200 mm long tail pipe, cap-nut, wall flange, plug, chain and angle regulating valves.</p> <p>E "Ariston" 10 litre Undersink heater complete with;            - 3kW, 240V rated heating element            - Thermostat externally adjustable from 5°C- 75°C            - Dry start cut out            - Fixing brackets &amp; screws            - pressure-venting accessories            - Electrical connection &amp; wiring to local isolator</p> <p>Cleaner's Sink &amp; accessories</p> <p>F Cleaner's sink, Size:465 x 400mm, sink with grating.complete with Legs and support. Cantilever brackets, painted, pair</p> <p>G 15mm diameter chrome plated back inlet bib tap as "Docol" Ref no. 106-15 complete with a chrome plated extension pipe 150mm long</p> <p>H Chrome plated heavy cast 1½" sink waste, 70 mm diameter flange, 45 mm long shank, unslotted with plug, chain and backnut.</p> <p>I Schlosser Germany: Angle Valve : 1/2x3/8in: CP #1710</p>				
	TOTAL CARRIED FORWARD TO COLLECTION PAGE				

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
2.00	INTERNAL PLUMBING  <u>Supply, deliver and install plastic PPR PN 16 pipes to specification. Tenderers must allow in their pipework prices for all the couplings, connectors, unions, nipples, sockets, endcaps, bridges, expansion loops, jointing materials etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, collars, holderbats plugged and screwed, and pipe sleeves through structural members.</u>				
A	20 mm Outer diameter PPR pipes	LM	5		
B	25 mm ditto	LM	5		
C	32 mm ditto	LM	0		
	Extra Over PPR Tubing for the following:-				
D	20 mm diameter elbow/bend, 90° /45°	No.	2		
E	25 mm ditto	No.	1		
F	32 mm ditto	No.	0		
G	20 mm diameter equal tee	No.	1		
H	25mm ditto	No.	1		
I	25x20 mm reducer	No.	1		
J	32x25 mm ditto	No.	0		
K	20mm x ½" diameter male/female transition piece round/hexagonal.	No.	3		
L	25mm x ¾" ditto	No.	0		
M	32mm x 1" ditto	No.	0		
	TOTAL CARRIED FORWARD TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
3.00	FOUL WATER DRAINAGE  <u>Tenderers must allow in their pipework prices for all the couplings, connectors, joints etc as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holderbats plugged and screwed .</u>  <u>The installation must comply with BS EN 12056 - 2:2000 MuPVC Waste System Heavy Gauge Pipework Class 41.</u>				
A	32 mm diameter waste pipe	LM	0		
B	40 mm diameter waste pipe	LM	10		
C	50 mm diameter Waste pipe	LM	0		
	Extra Over MuPVC Waste Pipework for the following:-				
D	32 mm diameter 90° /135° Sweep Bend	No.	0		
E	40 mm ditto	No.	0		
F	32 mm diameter 90° /135° Sweep Tee	No.	0		
G	40mm ditto	No.	3		
H	32 mm diameter Access Plug	No.	0		
I	40 mm ditto	No.	2		
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
4.00	PORTABLE FIRE FIGHTING EQUIPMENT				
	CO <sub>2</sub> Fire Extinguishers				
A	5 kg Carbon Dioxide Steel Stored pressure gas fire extinguishers conforming to BS EN 3 complete with:- - charge and fixing bracket - pictorial instructions - colour coding to BS 7863 - discharge horn and hose. - pressure indicator	No.	6		
	Dry Chemical Powder Mobile Fire Extinguishers				
B	9kg Cartridge operated dry powder fire extinguisher manufactured to BS EN 3 complete with:- - initial charge and fixing bracket - pictorial instructions - discharge nozzle and hose - colour coding to BS 7863	No.	6		
C	1210 x 1210mm Fire Blankets in woven fibre-glass material to be installed in Kitchen	No.	1		
TOTAL CARRIED FORWARD TO COLLECTION PAGE					
1.00	Sanitary fittings				
A	Total Brought Forward				
2.00	Internal Plumbing				
B	Total Brought Forward				
3.00	Foul drainage				
C	Total Brought Forward				
4.00	Portable Fire Fighting Equipment				
D	Total Brought Forward				
TOTAL FOR LEVEL 03 CARRIED FORWARD TO GRAND SUMMARY PAGE					

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT - KSHS
	BILL No.2: LEVEL 05				
1.00	SANITARY FITTINGS				
	SUPPLY AND INSTALL the following Sanitary appliances including their support brackets, screws, mastic, silicon etc. and all other necessary accessories to make the appliances operational. All final connections to water supply, waste/soil drainage and electrical power supply (whether measured or not) are to be the responsibility of the contractor and must be priced for. Exceptions are items indicated as supply & Install.				
	NOTE: TRADE NAMES Where Trade Names are mentioned below, the contractor shall supply as specified. Alternatives will only be accepted on approval.				
A	"Duravit D Code" Ref No. 211109 in white vitreous china, washdown action with open flushing rim WC pan with horizontal outlet, fixing screws, mastic.WC to be complete with: White single seat and cover Ref No. 006739 Close coupled cistern & fittings Ref No. 092710	No.	1		
B	WC "S" or "turned P" connector to drain pipe for horizontal outlet WC Pan.	No.	1		
C	Chrome Plated Toilet Roll Holder with flap :	No.	1		
D	Chrome plated Double Robe/Coat Hook	No.	1		
E	Wash Basin				
F	Duravit-D-Code" Ref No. 033754 counter top wash hand basin (545mm x 435mm) with overflow and tap platform	No.	1		
	Wash Hand Basins Accessories				
G	"Twyford Bathrooms Ltd's ½" Sola non-concussive push tap tap Ref. No. SF 2101CP	No.	1		
H	Chrome plated 1¼" basin waste complete with flange, shank, chain , plug & Angle regulating valves.	No.	1		
I	Chrome Plated Bottle Trap 1.25in	No.	1		
J	900mm long chrome plated towel rail complete with fixing screws	No.	1		
K	"Insta-office Safco" Ref. No. SAF 4166 robe hook.	No.	1		
L	Twyfords Bathroom Ltd. Ref VC 9808 WH recessed in wall soap tray into white Vitreous China.	No.	1		
M	600 x 750mm, 6 mm, thick plate rectangular shaped glass mirror with frosted bevelled edge decorative boundary and concealed screws for installation.	No.	1		

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT - KSHS
	Shower, Bath & accessories				
N	stiebel instant water heaterwith pump IP 45 E #222367, #292595, #282027; - 5 metres long power cable and electrical connection to local isolator - 20mm diameter shower stopcock as Cobra or equal and approved	No.	1		
O	100 mm diameter Trapped Floor Gully with 1 No. 50 mm diameter inlets and 50 mm diameter outlet and shower drain inlet.	No	1		
P	85mm diameter Shower head complete with overhead shower arm as "Cobra-Classic jet 070CP"	No.	0		
Q	½" shower stop cock as Cobra Watertech or approved.	No.	1		
	Kitchen Sink & accessories				
R	ASL Single bowl single drainer kitchen sink made out of stainless steel sheet with bright machine polish finish.	No.	1		
S	"Hansgrohe Metropol " chrome plated single lever kitchen mixer tap Ref No. 14842000	No.	1		
T	Chrome plated heavy cast 1½" sink waste, 70 mm diameter flange, 45 mm long shank, unslotted with plug, chain and backnut.	No.	1		
U	"Cobra Watertech" or approved equivalent, Ref. No. 360 chrome plated 1½" bottle trap with 75 mm deep seal and 200 mm long tail pipe, cap-nut, wall flange, plug, chain and angle regulating valves.	No.	1		
V	"Ariston" 10 litre Undersink heater complete with; - 3kW, 240V rated heating element - Thermostat externally adjustable from 5°C- 75°C - Dry start cut out - Fixing brackets & screws - pressure-venting accessories - Electrical connection & wiring to local isolator	No.	1		
W	Schlosser Germany: Angle Valve : 1/2x3/8in: CP #1710	No.	2		
TOTAL CARRIED FORWARD TO COLLECTION PAGE					



ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
2.00	INTERNAL PLUMBING  <u>Supply, deliver and install plastic PPR PN 16 pipes to specification. Tenderers must allow in their pipework prices for all the couplings, connectors, unions, nipples, sockets, endcaps, bridges, expansion loops, jointing materials etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, collars, holderbats plugged and screwed, and pipe sleeves through structural members.</u>				
A	20 mm Outer diameter PPR pipes	LM	10		
B	25 mm ditto	LM	10		
C	32 mm ditto	LM	0		
	Extra Over PPR Tubing for the following:-				
D	20 mm diameter elbow/bend, 90° /45°	No.	4		
E	25 mm ditto	No.	2		
F	32 mm ditto	No.	0		
G	20 mm diameter equal tee	No.	3		
H	25mm ditto	No.	4		
I	25x20 mm reducer	No.	4		
J	32x25 mm ditto	No.	0		
K	20mm x ½" diameter male/female transition piece round/hexagonal.	No.	6		
L	25mm x ¾" ditto	No.	0		
M	32mm x 1" ditto	No.	0		
	TOTAL CARRIED FORWARD TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
3.00	FOUL WATER DRAINAGE  <u>Tenderers must allow in their pipework prices for all the couplings, connectors, joints etc as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holderbats plugged and screwed.</u> <u>The installation must comply with BS EN 12056 - 2:2000 MuPVC Waste System Heavy Gauge Pipework Class 41.</u>				
A	32 mm diameter waste pipe	LM	0		
B	40 mm diameter waste pipe	LM	20		
C	50 mm diameter Waste pipe	LM	10		
	Extra Over MuPVC Waste Pipework for the following:-				
D	32 mm diameter 90° /135° Sweep Bend	No.	0		
E	40 mm ditto	No.	0		
F	32 mm diameter 90° /135° Sweep Tee	No.	0		
G	40mm ditto	No.	3		
H	32 mm diameter Access Plug	No.	0		
I	40 mm ditto	No.	2		
	uPVC Soil System Heavy Gauge Class 41 Pipework				
J	100 mm diameter Light Grey Soil Pipe	LM	15		
	Extra Over uPVC Soil Pipework for the following: -				
K	100 x 32 mm diameter Light Grey Single Boss Connector.	No.	0		
L	100 x 40 mm ditto	No.	1		
M	100 x 50 mm ditto	No.	1		
N	100mm diameter Light Grey Tee Single Branch	No.	0		
O	100mm diameter Light Grey Short Radius bend	No.	3		
P	100 mm diameter Trapped Floor Gully with 1 No. 32 mm diameter inlet and 50 mm diameter outlet and floor gully inlet.	No.	0		
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
4.00	PORTABLE FIRE FIGHTING EQUIPMENT				
	CO <sub>2</sub> Fire Extinguishers				
A	5 kg Carbon Dioxide Steel Stored pressure gas fire extinguishers conforming to BS EN 3 complete with:- - charge and fixing bracket - pictorial instructions - colour coding to BS 7863 - discharge horn and hose. - pressure indicator	No.	6		
	Dry Chemical Powder Mobile Fire Extinguishers				
B	9kg Cartridge operated dry powder fire extinguisher manufactured to BS EN 3 complete with:- - initial charge and fixing bracket - pictorial instructions - discharge nozzle and hose - colour coding to BS 7863	No.	6		
C	1210 x 1210mm Fire Blankets in woven fibre-glass material to be installed in Kitchen	No.	1		
TOTAL CARRIED FORWARD TO COLLECTION PAGE					
<u>COLLECTION PAGE</u>					
1.00	Sanitary fittings				
A	Total Brought Forward				
2.00	Internal Plumbing				
B	Total Brought Forward				
3.00	Foul drainage				
C	Total Brought Forward				
4.00	Portable Fire Fighting Equipment				
D	Total Brought Forward				
TOTAL FOR LEVEL 05 CARRIED FORWARD TO GRAND SUMMARY PAGE					

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT - KSHS
	BILL No.3: LEVEL 07				
1.00	SANITARY FITTINGS				
	SUPPLY AND INSTALL the following Sanitary appliances including their support brackets, screws, mastic, silicon etc. and all other necessary accessories to make the appliances operational. All final connections to water supply, waste/soil drainage and electrical power supply (whether measured or not) are to be the responsibility of the contractor and must be priced for. Exceptions are items indicated as supply & Install.				
	NOTE: TRADE NAMES Where Trade Names are mentioned below, the contractor shall supply as specified. Alternatives will only be accepted on approval.				
	Kitchen Sink & accessories				
A	ASL Single bowl single drainer kitchen sink made out of stainless steel sheet with bright machine polish finish.	No.	2		
B	"Hansgrohe Metropol " chrome plated single lever kitchen mixer tap Ref No. 14842000	No.	2		
C	Chrome plated heavy cast 1½" sink waste, 70 mm diameter flange, 45 mm long shank, unslotted with plug, chain and backnut.	No.	2		
D	"Cobra Watertech" or approved equivalent, Ref. No. 360 chrome plated 1½" bottle trap with 75 mm deep seal and 200 mm long tail pipe, cap-nut, wall flange, plug, chain and angle regulating valves.	No.	2		
F	"Ariston" 10 litre Undersink heater complete with; - 3kW, 240V rated heating element - Thermostat externally adjustable from 5°C- 75°C - Dry start cut out - Fixing brackets & screws - pressure-venting accessories - Electrical connection & wiring to local isolator	No.	2		
	Cleaner's Sink & accessories				
E	Cleaner's sink, Size:465 x 400mm, sink with grating.complete with Legs and support. Cantilever brackets, painted, pair	No.	0		
F	15mm diameter chrome plated back inlet bib tap as "Docol" Ref no. 106-15 complete with a chrome plated extension pipe 150mm long	No.	0		
G	Chrome plated heavy cast 1½" sink waste, 70 mm diameter flange, 45 mm long shank, unslotted with plug, chain and backnut.	No.	0		
H	Schlosser Germany: Angle Valve : 1/2x3/8in: CP #1710	No.	4		
	TOTAL CARRIED FORWARD TO COLLECTION PAGE				

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
2.00	INTERNAL PLUMBING				
	<u>Supply, deliver and install plastic PPR PN 16 pipes to specification. Tenderers must allow in their pipework prices for all the couplings, connectors, unions, nipples, sockets, endcaps, bridges, expansion loops, jointing materials etc. as required in the running lengths of pipework and also where necessary, for pipe fixing clips, collars, holderbats plugged and screwed, and pipe sleeves through structural members.</u>				
A	20 mm Outer diameter PPR pipes	LM	10		
B	25 mm ditto	LM	10		
C	32 mm ditto	LM	0		
	Extra Over PPR Tubing for the following:-				
D	20 mm diameter elbow/bend, 90° /45°	No.	4		
E	25 mm ditto	No.	2		
F	32 mm ditto	No.	0		
G	20 mm diameter equal tee	No.	2		
H	25mm ditto	No.	2		
I	25x20 mm reducer	No.	2		
J	32x25 mm ditto	No.	0		
K	20mm x ½" diameter male/female transition piece round/hexagonal.	No.	6		
L	25mm x ¾" ditto	No.	0		
M	32mm x 1" ditto	No.	0		
	TOTAL CARRIED FORWARD TO NEXT PAGE				

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
3.00	FOUL WATER DRAINAGE  <u>Tenderers must allow in their pipework prices for all the couplings, connectors, joints etc as required in the running lengths of pipework and also where necessary, for pipe fixing clips, holderbats plugged and screwed .</u>  <u>The installation must comply with BS EN 12056 - 2:2000 MuPVC Waste System Heavy Gauge Pipework Class 41.</u>				
A	32 mm diameter waste pipe	LM	0		
B	40 mm diameter waste pipe	LM	20		
C	50 mm diameter Waste pipe	LM	0		
	Extra Over MuPVC Waste Pipework for the following:-				
D	32 mm diameter 90° /135° Sweep Bend	No.	0		
E	40 mm ditto	No.	0		
F	32 mm diameter 90° /135° Sweep Tee	No.	0		
G	40mm ditto	No.	6		
H	32 mm diameter Access Plug	No.	0		
I	40 mm ditto	No.	4		
TOTAL CARRIED FORWARD TO NEXT PAGE					

ITEM	DESCRIPTION	UNIT	QTY	UNIT RATES - KSHS	TENDER AMOUNT- KSHS
4.00	PORTABLE FIRE FIGHTING EQUIPMENT				
	CO <sub>2</sub> Fire Extinguishers				
A	5 kg Carbon Dioxide Steel Stored pressure gas fire extinguishers conforming to BS EN 3 complete with:- - charge and fixing bracket - pictorial instructions - colour coding to BS 7863 - discharge horn and hose. - pressure indicator	No.	6		
	Dry Chemical Powder Mobile Fire Extinguishers				
B	9kg Cartridge operated dry powder fire extinguisher manufactured to BS EN 3 complete with:- - initial charge and fixing bracket - pictorial instructions - discharge nozzle and hose - colour coding to BS 7863	No.	6		
C	1210 x 1210mm Fire Blankets in woven fibre-glass material to be installed in Kitchen	No.	2		
TOTAL CARRIED FORWARD TO COLLECTION PAGE					
<u>COLLECTION PAGE</u>					
1.00	Sanitary fittings				
A	Total Brought Forward				
2.00	Internal Plumbing				
B	Total Brought Forward				
3.00	Foul drainage				
C	Total Brought Forward				
4.00	Portable Fire Fighting Equipment				
D	Total Brought Forward				
TOTAL FOR LEVEL 07 CARRIED FORWARD TO GRAND SUMMARY PAGE					

ITEM	DESCRIPTION	TOTAL TENDER AMOUNT
		KSHS.
	<b>MAIN SUMMARY</b>  BILL No. 1: Total brought forward from Level 03  A Total Brought Forward From Collection Page  BILL No. 2: Total brought forward from Level 05  B Total Brought Forward From Collection Page  BILL No. 3: Total brought forward from Level 07  C Total Brought Forward From Collection Page  Testing & Commissioning  D Test, sterilise (where applicable) entire plumbing system set to work & commission to specification prior to use to the approval of the Engineer  F Allow for All pipe connections to existing services	
	<b>TOTAL CARRIED FORWARD TO FORM OF TENDER</b>	

AMOUNT IN WORDS: KENYA SHILLINGS

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SIGNED

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CONTRACTOR'S OFFICIAL STAMP

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DATE

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# SECURITY INSTALLATIONS

ITEM	DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS
BILL NO. 1	LEVEL 01				
	ACCESS CONTROL				
	Supply, deliver to site, install, commission and test the following:				
1.1	a) Intelligent 4-door Data Gathering Panel, with power supply, 12v lock, to be as UTC ATS1251 or equal and approved.	No.	3		
	b) Power Supply Unit & Panel Box	No.	13		
	c) Magnetic door lock, 300kg holding force for aluminium door	No.	0		
	d) Ditto but for frameless glass door	No.	10		
	e) Complete Breakglass	No.	10		
	f) Biometric (finger print) and proximity RFID card reader to be as MorphoAccess Sigma Lite Range WR Lite iClass or equal and approved.	No.	20		
	g) Request to Exit button	No.	2		
	h) Z & L brackets	No.	10		
	i) Override/Keyswitch	No.	10		
1.2	12 Port PoE Network Switch as D-Link or equal and approved	No.	1		
1.3	12 port CAT 6 Patch Panels	No.	1		
1.4	Cat 6 Cable (30M) for linking to network switch on level 02	Item.	1		
1.5	1 metre Cat 6 patch cords completely connected and with the appropriate RJ45 connectors.	No	10		
1.6	Allow all cabling between readers and accessories; and the Master Access Controller	Item	1		
1.7	Design & supply master Access control manager system complete with client server operating on Windows @ software managing all access control doors on a single platform server to manage local and remote users with at least 100 access group levels, event monitoring and time schedule management with visitor management, Time and Attendance Software for upto 500 users. To be complete with the desktop computer and Computer/printer/IP interfacing system. The access control manager to have video analytics capability.	Item	1		
1.8	Allow for interconnection to Fire Alarm Detection System	Item	1		
	LEVEL 03 CARRIED FORWARD TO COLLECTION PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS
	LEVEL 05				
	ACCESS CONTROL				
	Supply, deliver to site, install, commission and test the following:				
1.1	a) Intelligent 4-door Data Gathering Panel, with power supply, 12v lock, to be as UTC ATS1251 or equal and approved.	No.	4		
	b) Power Supply Unit & Panel Box	No.	17		
	c) Magnetic door lock, 300kg holding force for aluminium door	No.	0		
	d) Ditto but for frameless glass door	No.	13		
	e) Complete Breakglass	No.	13		
	f) Biometric (finger print) and proximity RFID card reader to be as MorphoAccess Sigma Lite Range WR Lite iClass or equal and approved.	No.	26		
	g) Request to Exit button	No.	2		
	h) Z & L brackets	No.	13		
	i) Override/Keyswitch	No.	13		
1.2	24 Port PoE Network Switch as D-Link or equal and approved	No.	2		
1.3	24 port CAT 6 Patch Panels	No.	2		
1.4	Cat 6 Cable (30M) for linking to network switch on level 02	Item.	1		
1.5	1 metre Cat 6 patch cords completely connected and with the appropriate RJ45 connectors.	No	13		
1.6	Allow all cabling between readers and accessories; and the Master Access Controller	Item	1		
	LEVEL 05 CARRIED FORWARD TO COLLECTION PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS
	LEVEL 07				
	ACCESS CONTROL				
	Supply, deliver to site, install, commission and test the following:				
1.1	a) Intelligent 4-door Data Gathering Panel, with power supply, 12v lock, to be as UTC ATS1251 or equal and approved.	No.	3		
	b) Power Supply Unit & Panel Box	No.	13		
	c) Magnetic door lock, 300kg holding force for aluminium door	No.	0		
	d) Ditto but for frameless glass door	No.	10		
	e) Complete Breakglass	No.	10		
	f) Biometric (finger print) and proximity RFID card reader to be as MorphoAccess Sigma Lite Range WR Lite iClass or equal and approved.	No.	20		
	g) Request to Exit button	No.	2		
	h) Z & L brackets	No.	10		
	i) Override/Keyswitch	No.	10		
1.2	12 Port PoE Network Switch as D-Link or equal and approved	No.	1		
1.3	12 port CAT 6 Patch Panels	No.	1		
1.4	Cat 6 Cable (30M) for linking to network switch on level 02	Item.	1		
1.5	1 metre Cat 6 patch cords completely connected and with the appropriate RJ45 connectors.	No	10		
1.6	Allow all cabling between readers and accessories; and the Master Access Controller	Item	1		
	LEVEL 07 CARRIED FORWARD TO COLLECTION PAGE				
	<u>COLLECTION PAGE</u>				
1.00	Level 03				
A	Total Brought Forward				
2.00	Level 05				
B	Total Brought Forward				
3.00	Level 07				
C	Total Brought Forward				
	TOTAL FOR ACCESS CONTROL CARRIED FORWARD TO SUMMARY PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE Kshs.	TENDER AMOUNT Kshs.
BILL No. 2	CCTV, LEVEL 03 <i>Supply, deliver to site, install, commission and test the following:</i>				
1.1	5 mp PoE Ceiling/wall mounted dome CCTV camera with the following features; <ul style="list-style-type: none"> <li>• Max 5M (2560x1960), Full HD(1080p) resolution</li> <li>• 25fps @ 2560x1960</li> <li>• Min.Illumination 0Lux (IR Distance 10m)</li> <li>• Enhanced WDR (120dB)</li> <li>• 2.8 - 8.5mm (2.8x) motorized varifocal lens</li> <li>• Tampering Alarm</li> <li>• Lightcatcher capability</li> <li>• PoE supports.</li> <li>• Resolution:5MP (3K)</li> <li>• Camera Style:Dome</li> </ul>	No.	11		
1.3	Digital Network Video Recorder with the following functionalities: Record rate of 25pps per camera channel, real-time recording capability at 25fps, CIF resolution and supports H.264.20 compression, MPEG-4, MJPEG multiple codec, supports DVD writer and USB ports for easy backup, Full HD resolution support, 4CIF high resolution images at 25fps(N), 25fps(P) in real-time, Local monitor output : HDMI & VGA, Complete with external SATA for 90 days storage devices, 3 year warranty.	No.	1		
1.4	40" LED Monitor for CCTV use. Screen to have the following features; Supports 1280x1024 resolution, 4:3 display, 5ms response, High contrast ratio of 1000:1,	No.	2		
1.5	12 Port PoE Network Switch as D-Link or equal and approved	No.	2		
1.6	Cabling between the cameras, monitors and digital recorder and other accessories	Item	1		
Total Amount C/F to Collection Page					
	CCTV, LEVEL 05 <i>Supply, deliver to site, install, commission and test the following:</i>				
1.1	5 mp PoE Ceiling/wall mounted dome CCTV camera with the following features; <ul style="list-style-type: none"> <li>• Max 5M (2560x1960), Full HD(1080p) resolution</li> <li>• 25fps @ 2560x1960</li> <li>• Min.Illumination 0Lux (IR Distance 10m)</li> <li>• Enhanced WDR (120dB)</li> <li>• 2.8 - 8.5mm (2.8x) motorized varifocal lens</li> <li>• Tampering Alarm</li> <li>• Lightcatcher capability</li> <li>• PoE supports.</li> <li>• Resolution:5MP (3K)</li> <li>• Camera Style:Dome</li> </ul>	No.	11		
1.3	12 Port PoE Network Switch as D-Link or equal and approved	No.	2		
1.4	Cabling between the cameras, monitors and digital recorder and other accessories	Item	1		
Total Amount C/F to Collection Page					

ITEM	DESCRIPTION	UNIT	QTY	RATE Kshs.	TENDER AMOUNT Kshs.
	CCTV, LEVEL 07 <i>Supply, deliver to site, install, commission and test the following:</i>				
1.1	5 mp PoE Ceiling/wall mounted dome CCTV camera with the following features; • Max 5M (2560x1960), Full HD(1080p) resolution • 25fps @ 2560x1960 • Min.Illumination 0Lux (IR Distance 10m) • Enhanced WDR (120dB) • 2.8 - 8.5mm (2.8x) motorized varifocal lens • Tampering Alarm • Lightcatcher capability • PoE supports. • Resolution:5MP (3K) • Camera Style:Dome	No.	10		
1.3	12 Port PoE Network Switch as D-Link or equal and approved	No.	2		
1.4	Allow for Cabling between cameras, POE switches, NVR and Monitors	Item	1		
Total Amount C/F to Collection Page					

COLLECTION PAGE

ITEM	DESCRIPTION	
1.00	Level 03	
A	Total Brought Forward	
2.00	Level 05	
B	Total Brought Forward	
3.00	Level 07	
C	Total Brought Forward	
TOTAL FOR CCTV CARRIED FORWARD TO SUMMARY PAGE		

ITEM	DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS
BILL No.3	INTRUDER ALARM SYSTEM				
A	LEVEL 03				
1.1	Cabling between the panic buttons & security control panel and other accessories	Item	1		
1.2	Supply and install the following accessories:-				
	a) Fixed Panic buttons	No	3		
	b) Door magnetic Contact to be as UTC 1045T-N or equal and approved	No	3		
	c) Passive infrared motion detector with anti-masking function with automatic reporting of all masking attempts	No	9		
	d) Ditto as above but ceiling mounted	No	3		
	e) Security system keypad with integrated card proximity reader with 4 x16 characters LCD to be as UTC ATS 1116 or equal and approved.	No	2		
	f) Security Break glass	No	2		
	g) Security Buzzer and Flasher Unit	No	2		
	h) Plug-in 8 zone expander card able to expand upto 32 zones to be connected to the Data Gathering Panel for intruder alarms complete with power supply	No	1		
B	INTRUDER ALARM SYSTEM				
1.3	Zones Data Gathering Panel input expander with 3A Power Supply and Siren Driver, to be connected to the Master Access Control Manager	No.	1		
Total Amount for Level 03 C/F to Summary Pg					
	INTRUDER ALARM SYSTEM				
A	LEVEL 05				
1.1	Cabling between the panic buttons & security control panel and other accessories	Item	1		
1.2	Supply and install the following accessories:-				
	a) Fixed Panic buttons	No	2		
	b) Door magnetic Contact to be as UTC 1045T-N or equal and approved	No	3		
	c) Passive infrared motion detector with anti-masking function with automatic reporting of all masking attempts	No	5		
	d) Ditto as above but ceiling mounted	No	6		
	e) Security system keypad with integrated card proximity reader with 4 x16 characters LCD to be as UTC ATS 1116 or equal and approved.	No	2		
	f) Security Break glass	No	2		
	g) Security Buzzer and Flasher Unit	No	2		
	h) Plug-in 8 zone expander card able to expand upto 32 zones to be connected to the Data Gathering Panel for intruder alarms complete with power supply	No	1		
Total Amount for Level 05 C/F to Summary Pg					

ITEM	DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS
	<b>INTRUDER ALARM SYSTEM</b>				
A	LEVEL 07				
1.1	Cabling between the panic buttons & security control panel and other accessories	Item	1		
1.2	Supply and install the following accessories:-				
	a) Fixed Panic buttons	No	2		
	b) Door magnetic Contact to be as UTC 1045T-N or equal and approved	No	3		
	c) Passive infrared motion detector with anti-masking function with automatic reporting of all masking attempts	No	8		
	d) Ditto as above but ceiling mounted	No	4		
	e) Security system keypad with integrated card proximity reader with 4 x16 characters LCD to be as UTC ATS 1116 or equal and approved.	No	2		
	f) Security Break glass	No	2		
	g) Security Buzzer and Flasher Unit	No	2		
	h) Plug-in 8 zone expander card able to expand upto 32 zones to be connected to the Data Gathering Panel for intruder alarms complete with power supply	No	1		
<b>Total Amount for Level 07 C/F to Summary Pg</b>					
<u>COLLECTION PAGE</u>					
1.00	Level 03				
A	Total Brought Forward				
2.00	Level 05				
B	Total Brought Forward				
3.00	Level 07				
C	Total Brought Forward				
<b>TOTAL FOR CCTV CARRIED FORWARD TO SUMMARY PAGE</b>					



ITEM	DESCRIPTION	AMOUNT
		Kshs.
	<u>SUMMARY PAGE</u>	
A	Total Brought Forward From Bill No. 1 -Access Control	
B	Total Brought Forward From Bill No. 2 - CCTV Surveillance	
C	Total Brought Forward From Bill No. 3 - Intruder Alarms	
D	3 No. Sets of Working and final "As Built" Drawings in A3 paper size, O & M Manuals including test results	
E	Allow for Testing & commissioning of all systems.	
	TOTAL CARRIED FORWARD TO FORM OF TENDER	

AMOUNT IN WORDS: KENYA SHILLINGS \_\_\_\_\_

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SIGNED \_\_\_\_\_

CONTRACTOR'S OFFICIAL STAMP \_\_\_\_\_

DATE

# **DATA & STRUCTURED CABLING**

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
	<p><b>BILL No. 1- LEVEL 03</b>  <i>Supply, deliver, install and maintain the following as described:-</i></p> <p>NOTE: TRADE NAMES</p> <p>Where Trade Names are mentioned below, it is only intended to indicate the level of quality required.</p>				
1.0	Communications outlet completely wired in 4 pair UTP Cat 6A cables horizontal cabling mounted in metal trunking and/or pvc conduit wherever applicable and as shown on drawing.	No	92		
2.0	Category 6A RJ45 Siemon dual face plates complete with all the necessary accessories mounted on trunking and flush on wall partitions complete with label.	No.	8		
3.0	Category 6A RJ45 Siemon single face plates complete with all the necessary accessories mounted on trunking and flush on wall partitions complete with label.	No.	70		
4.0	24-port Cat 6A Siemon Patch panels for voice and data complete with cable managers and fixed in the cabinets.	No	6		
5.0	42U cabinet (600mm x 600mm) complete with 2 No. Rack mounted PDU complete with accessories	No	2		
6.0	1 metre Cat 6A patch cords completely connected and with the appropriate RJ45 connectors.	No	184		
7.0	3 metre Cat 6A patch cords completely connected and with the appropriate RJ45 connectors for workstation equipment	No	92		
8.0	Supply and install 2 Core 62.5/125 multimode armoured fiber optic cable drawn in the ducts for the vertical backbone from Main server room to switch in this level LAN Cabinet complete with connectors or equal and approved ( to be confirmed on site).	LM	80		
9.0	2 Core SC Fibre connectors for cables above	No.	4		
10.0	1 metre Fibre patch cords	No.	2		
11.0	12-port Fibre Patch panels for voice and data complete with cable managers and fixed in the cabinets.	No	1		
12.0	Backbone copper cable using Cat 6A F/UTP complete with connectors to link Network switch to existing system	LM	100		
13.0	Structured cabling terminations to the Data and Voice terminals, complete with labelling.	Item	1		
	Bill No.1 Carried Forward to Summary Page.				

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
	<p><b>BILL No. 2 - LEVEL 05</b>  <i>Supply, deliver, install and maintain the following as described:-</i></p> <p>NOTE: TRADE NAMES</p> <p>Where Trade Names are mentioned below, it is only intended to indicate the level of quality required.</p>				
1.0	Communications outlet completely wired in 4 pair UTP Cat 6A cables horizontal cabling mounted in metal trunking and/or pvc conduit wherever applicable and as shown on drawing.	No	87		
2.0	Category 6A RJ45 Siemon dual face plates complete with all the necessary accessories mounted on trunking and flush on wall partitions complete with label.	No.	8		
3.0	Category 6A RJ45 Siemon single face plates complete with all the necessary accessories mounted on trunking and flush on wall partitions complete with label.	No.	65		
4.0	24-port Cat 6A Siemon Patch panels for voice and data complete with cable managers and fixed in the cabinets.	No	4		
5.0	42U cabinet (600mm x 600mm) complete with 2 No. Rack mounted PDU complete with accessories	No	2		
6.0	1 metre Cat 6A patch cords completely connected and with the appropriate RJ45 connectors.	No	174		
7.0	3 metre Cat 6A patch cords completely connected and with the appropriate RJ45 connectors for workstation equipment	No	87		
8.0	Supply and install 2 Core 62.5/125 multimode armoured fiber optic cable drawn in the ducts for the vertical backbone from Main server room to switch in this level LAN Cabinet complete with connectors or equal and approved ( to be confirmed on site).	LM	200		
9.0	2 Core SC Fibre connectors for cables above	No.	4		
10.0	1 metre Fibre patch cords	No.	2		
11.0	12-port Fibre Patch panels for voice and data complete with cable managers and fixed in the cabinets.	No	1		
12.0	Backbone copper cable using Cat 6A F/UTP complete with connectors to link Network switch to existing system	LM	160		
13.0	Structured cabling terminations to the Data and Voice terminals, complete with labelling.	Item	1		
	Bill No.2 Carried Forward to Summary Page.				

BILL ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
	<p><b>BILL No. 3 - LEVEL 07</b>  <i>Supply, deliver, install and maintain the following as described:-</i></p> <p>NOTE: TRADE NAMES</p> <p>Where Trade Names are mentioned below, it is only intended to indicate the level of quality required.</p>				
1.0	Communications outlet completely wired in 4 pair UTP Cat 6A cables horizontal cabling mounted in metal trunking and/or pvc conduit wherever applicable and as shown on drawing.	No	65		
2.0	Category 6A RJ45 Siemon dual face plates complete with all the necessary accessories mounted on trunking and flush on wall partitions complete with label.	No.	7		
3.0	Category 6A RJ45 Siemon single face plates complete with all the necessary accessories mounted on trunking and flush on wall partitions complete with label.	No.	45		
4.0	24-port Cat 6A Siemon Patch panels for voice and data complete with cable managers and fixed in the cabinets.	No	4		
5.0	42U cabinet (600mm x 600mm) complete with 2 No. Rack mounted PDU complete with accessories	No	2		
6.0	1 metre Cat 6A patch cords completely connected and with the appropriate RJ45 connectors.	No	130		
7.0	3 metre Cat 6A patch cords completely connected and with the appropriate RJ45 connectors for workstation equipment	No	65		
8.0	Supply and install 2 Core 62.5/125 multimode armoured fiber optic cable drawn in the ducts for the vertical backbone from Main server room in Level 12 to switch in Level 01 LAN Cabinet complete with connectors or equal and approved ( to be confirmed on site).	LM	240		
9.0	2 Core SC Fibre connectors for cables above	No.	4		
10.0	1 metre Fibre patch cords	No.	2		
11.0	12-port Fibre Patch panels for voice and data complete with cable managers and fixed in the cabinets.	No	1		
12.0	Backbone copper cable using Cat 6A F/UTP to link Network switch to existing system	LM	200		
13.0	Structured cabling terminations to the Data and Voice terminals, complete with labelling.	Item	1		
	Bill No.3 Carried Forward to Summary Page.				

ITEM No.	ITEM DESCRIPTIONS		AMOUNT-KSHS.
1.0	SUMMARY PAGE Brought forward for Bill No. 1- Level 03 Structured Cabling System.		
2.0	Brought forward for Bill No. 2- Level 05 Structured Cabling System.		
3.0	Brought forward for Bill No. 3- Level 07 Structured Cabling System.		
4.0	Allow for Testing and Commissioning of all systems		
	TOTAL CARRIED FORWARD TO FORM OF TENDER		

AMOUNT IN WORDS - KENYA SHILLINGS .....

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SIGNED .....

CONTRACTOR'S OFFICIAL STAMP .....

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DATE .....

# **FIRE ALARM SYSTEM INSTALLATIONS**

ITEM	DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 1	FIRE DETECTION AND ALARM SYSTEM LEVEL 03				
	Supply, install, test and commission as per BS:5838 Part 1 the following as described below :				
1.1	Fire alarm points wired in 4Cx1.5sq.mm fire resistant turf cable drawn in 25mm dia.PVC Heavy gauge conduits concealed in building fabrics.	No.	23		
1.2	Supply and install Addressable optical/ionisation smoke detector	No.	18		
1.3	Supply and install Addressable optical/ionisation heat detector	No.	1		
1.4	Supply and install Addressable manual call point	No.	2		
1.5	Supply and install Addressable electronic sounder and flasher unit	No.	2		
1.6	Addressable fire alarm panel complete with connection accessories (network card e.t.c.)	Item	1		
1.7	Allow for integration to existing base building fire alarm system complete with Input/Output interface unit	Item	1		
Total for FASD Bill No. 1 Carried Forward to Main Summary page					



ITEM	DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 2	FIRE DETECTION AND ALARM SYSTEM LEVEL 05				
	Supply, install, test and commission as per BS:5838 Part 1 the following as described below :				
1.1	Fire alarm points wired in 4Cx1.5sq.mm fire resistant turf cable drawn in 25mm dia.PVC Heavy gauge conduits concealed in building fabrics.	No.	21		
1.2	Supply and install Addressable optical/ionisation smoke detector	No.	16		
1.3	Supply and install Addressable optical/ionisation heat detector	No.	1		
1.4	Supply and install Addressable manual call point	No.	2		
1.5	Supply and install Addressable electronic sounder and flasher unit	No.	2		
1.6	Fire alarm repeater panel complete with connection accessories	Item	1		
1.7	Allow for connection to main fire alarm panel	Item	1		
Total for FASD Bill No. 2 Carried Forward to Main Summary page					

ITEM	DESCRIPTIONS	QTY.	UNIT	UNIT RATES	TOTAL AMOUNT-KSHS.
BILL 3	FIRE DETECTION AND ALARM SYSTEM LEVEL 07				
	Supply, install, test and commission as per BS:5838 Part 1 the following as described below :				
1.1	Fire alarm points wired in 4Cx1.5sq.mm fire resistant turf cable drawn in 25mm dia.PVC Heavy gauge conduits concealed in building fabrics.	No.	21		
1.2	Supply and install Addressable optical/ionisation smoke detector	No.	15		
1.3	Supply and install Addressable optical/ionisation heat detector	No.	2		
1.4	Supply and install Addressable manual call point	No.	2		
1.5	Supply and install Addressable electronic sounder and flasher unit	No.	2		
1.6	Fire alarm repeater panel complete with connection accessories (network card e.t.c.)	Item	1		
1.7	Allow for connection to main fire alarm panel	Item	1		
Total for FASD Bill No. 3 Carried Forward to Main Summary page					

ITEM No.	ITEM DESCRIPTIONS	AMOUNT-KSHS.
1.0	Brought forward for Bill No.1 - Level 03	
2.0	Brought forward for Bill No.2 - Level 05	
3.0	Brought forward for Bill No.3 - Level 07	
4.0	Allow for Testing & commissioning of all systems.	
TOTAL FOR FIRE ALARM SERVICES CARRIED FORWARD TO FORM OF TENDER		

AMOUNT IN WORDS - KENYA SHILLINGS .....

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SIGNED .....

CONTRACTOR'S OFFICIAL STAMP .....

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DATE .....

# UPS SERVICES INSTALLATIONS

ITEM No.	ITEM DESCRIPTIONS	QTY.	UNIT	RATES	AMOUNT-KSHS.
	<i>Supply, install, test and commission the following as described below:</i>				
A	UPS SERVICES				
1.1	60 kVA, 415V, 50Hz 3 phase-in, 3 phase-out 0.99 Power factor and 97% efficiency on double conversion Uninterruptible Power Supply Unit complete with SNMP Card and 10 minutes backup autonomous time battery back-up (external battery pack to be included) and external by pass kit.	No.	1		
1.2	11 kVA, 415V, 50Hz 3 phase-in, 3 phase-out 0.99 Power factor and 97% efficiency on double conversion Uninterruptible Power Supply Unit complete with SNMP Card and 10 minutes backup autonomous time battery back-up (external battery pack to be included) and external by pass kit.	No.	1		
1.4	Any other items necessary to complete the above installation satisfactorily such as cable glands etc. Please specify. i). _____ ii). _____ iii). _____	Item	1		
	General Items				
1.5	Allow for Preliminaries and General Contract Conditions	Item	1		
1.6	Testing and commissioning by Equipment specialist and issuing of all necessary certifications and warranties.	Item	1		
TOTAL CARRIED FORWARD TO FORM OF TENDER					

AMOUNT IN WORDS - KENYA SHILLINGS .....

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SIGNED .....

CONTRACTOR'S OFFICIAL STAMP .....

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DATE .....

# GRAND SUMMARY

Section No.	Description	Amount
<b>Grand Summary</b>		
1	Total for Builders' Works Brought Forward from Page 93	
2	Total for Electrical Installations Brought Forward from Page 104	
3	Total for Plumbing & Drainage Service Installations Brought Forward from Page 119	
4	Total for Security Installations Brought Forward from Page 128	
5	Total for Data & Structured Cabling Brought Forward from Page 133	
6	Total for Fire Alarm System Installations Brought Forward from Page 138	
7	Total for UPS Services Installations Brought Forward from Page 140	
8	Contingencies	16,550,000.00
<b>Total Carried to Form of Tender</b>		

Contractor's Signature: \_\_\_\_\_

Address: \_\_\_\_\_  
 \_\_\_\_\_

Date \_\_\_\_\_

Witness' Signature: \_\_\_\_\_

Address: \_\_\_\_\_  
 \_\_\_\_\_

Date \_\_\_\_\_