



TENDER FOR CONSTRUCTION
WORKS INVOLVING
ALTERATIONS AND UPGRADE
WORKS AT AGRICULTURE & FOOD
AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK
HOUSE, KIBWEZI, MAKUENI
COUNTY

<u>PART NO.1</u>		Amount (USD)	Cts
<u>GENERAL PRELIMINARIES</u>			
A.	<p><u>PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</u></p> <p>Wherever in the contractor's priced tender documents no price appears against an item of preliminaries or bill of quantities, the value of such item shall be deemed to be included in their prices for the other items</p>		
B.	<p><u>ABBREVIATIONS</u></p> <p>Throughout these Bills, units of measurements and terms are abbreviated and shall be interpreted as follows:-</p> <p>‘m.’- shall mean Linear Metre</p> <p>‘Lbs.’ shall mean Pounds Weight Avoidupois</p> <p>‘Kg.’ - shall mean Kilogramme</p> <p>‘no.’ - shall mean Number</p> <p>‘Prs.’ - shall mean Pairs</p> <p>‘ms.’ shall mean Measured Separately</p> <p>‘B.S.S.’ shall mean the current British Standard Specifications published by the British Standard Institution, 2 Park Street, London W.1, England</p> <p>‘Do.’ Or ‘Ditto’ shall mean the whole of the preceding description except as qualified in the description in which it occurs. Where it occurs in descriptions of succeeding items, it shall mean the same as in the first description concerned. Where it occurs in brackets, it shall mean the whole of the preceding description which is contained within the appropriate brackets. Where it is underline it shall mean the whole of that part or the preceding description which is underlined.</p> <p>‘As described’ (a.d.) or ‘as before described’ (a.b.d.) shall mean as described in the Specification or as described previously in a foregoing item or Bill.</p> <p><u>‘Selected, directed, approved’, etc.</u></p> <p>Wherever the words, ‘selected’ or ‘as directed’, ‘as required’, or words of similar meanings are used in the Bills of Quantities, it is to be understood that the selections, directions or requirements of the Architect are intended. Similarly, the words, ‘approved’, ‘satisfactory to’ the Architect and the Architect’s materials are ordered or the works to which the words refer are put in hand.</p>		
B.	<p><u>‘Necessary, proper’, etc.</u></p> <p>Wherever the words ‘necessary, proper’ or words of similar meanings are used in these Bills of Quantities with respect to the extent, conduct, character or work described, it is to be understood that they shall mean that the said work shall be executed to the extent, must be conducted in a manner or be of a character which is ‘necessary’ or ‘proper’ in the opinion of the Architect.</p> <p><u>‘Singular and Plural’</u></p> <p>Words importing the singular only wherever used hereinafter and in all Contract Documents shall also include the plural and vice versa where the context required.</p>		
Carried to Part Summary			

NOTE

A.	<p><u>PART NO. 1 (Ctd.)</u></p> <p><u>GENERAL PRELIMINARIES (Ctd.)</u></p> <p><u>ABBREVIATIONS (Ctd.)</u></p> <p><u>DEFINITION OF TERMS</u></p> <p><u>Employer</u></p> <p>The term ‘The Employer’ shall be deemed to mean AGRICULTURE & FOOD AUTHORITY - HORTICULTURAL CROPS DIRECTORATE (HCD) (AFA-HCD) , The term ‘Employer’, ‘Client’ and ‘Owner’ wherever used in this Tender Document shall be synonymous</p> <p><u>Financier</u></p> <p>The term ‘Financier’ shall be deemed to mean TRADEMARK AFRICA, The term ‘Employer’, ‘Client’ and ‘Owner’ wherever used in this Tender Document shall be synonymous</p> <p><u>Architect</u></p> <p>The term “Architect” shall be deemed to mean the firm appointed by AFA-HCD and TRADEMARK AFRICA to carry out the work under reference.</p> <p><u>Quantity Surveyor</u></p> <p>The term ‘The Quantity Surveyor’ shall be deemed to mean the firm appointed by AFA-HCD and TRADEMARK AFRICA to carry out the work under reference.</p> <p><u>Lead Consultant & Structural/Civil Engineers</u></p> <p>The term “Engineer” shall be deemed to mean any of the following firms appointed by the Employer and the Financier to carry out the work under reference</p> <p><u>Services Engineers</u></p> <p>The term “Engineer” shall be deemed to mean any of the following firms appointed by the Employer and the Financier to carry out the work under reference</p> <p>Carried to Part Summary</p>	Amount (USD)	

	PART NO. 1 (Ctd.)	Amount (USD)	.
	GENERAL PRELIMINARIES (Ctd)		
	A. <u>DEFINITION OF TERMS (Ctd)</u>		
	<p><u>Contractor</u></p> <p>The term “Contractor” shall mean the person or persons, partnership, firm or company, who’s tender for this work has been accepted and who has or have signed this Contract and shall include his or their heirs, executors, administrators’ assignees, successors and duly appointed representatives.</p> <p><u>Sub-Contractor</u></p> <p>The term “Sub-Contractor” shall be deemed to mean the person or persons, partnership, firm or company who has or have been engaged by the Contractor to carry out any Sub-Contract works forming part of this Contract and shall include his or their heirs, etc. as described above or who shall be appointed by the Employer to carry out the Sub-Contract Works.</p> <p>B. <u>FORM OF CONTRACT</u></p> <p>The Contractor will be required to enter into a Contract with the Employer on the latest Edition of the Agreement and Conditions of Contract for Building Works published by the Joint Building Council, Kenya.</p> <p>The clause headings of the above Conditions of Contract are given here below but for a complete description of the Clauses, tenders should refer to the above document, a copy of which is available for inspection at our offices during normal working hours or can be purchased from the offices of the Architectural Association of Kenya (AAK)</p> <p>C. <u>CONDITIONS OF CONTRACT</u></p> <p>The Tenderer’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 Definitions</p> <p>Clause 2 Articles of Agreement</p> <p> Sub-Clause 2.6 shall be deleted</p> <p> Sub-Clause 2.9 shall be deleted</p> <p> Sub-Clause 2.12 shall be deleted</p> <p> Sub-Clause 2.13 : The delegated authority of such Engineers, specialists and other consultants shall be limited to those described in the preliminaries section of the contract bills</p> <p>Note: The Contractor shall allow for paying all legally demandable fees, rates or taxes including V.A.T., and those for hoarding and temporary buildings, and no adjustment of the Contract Sum will be made in respect of such payments unless expressly stated to the contrary in these Bills of Quantities.</p> <p>NOTE: Also see item B on page 3/8</p>		
	Carried to Part Summary		

C.	<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
	<u>GENERAL PRELIMINARIES (Ctd)</u>			
	<u>CONDITIONS OF CONTRACT (Ctd)</u>			
	The Contractor shall apply for, provide all transport necessary for, and pay all costs and charges in connection with the Occupation Certificate. Documentation required for such Certificate will be provided by the Architect.			
	Clause 5	General obligations of the Architect		
	Clause 6	General obligations of the Quantity Surveyor		
	Clause 7	Contract documents		
	<u>Amendments</u>			
	The word "Employer" in clause 7.3 shall be deleted and replaced with the word "Contractor"			
	Clause 7.10.3 shall be re-numbered 7.10.5 while clause 7.10.5 shall be re-numbered 7.10.3			
C.	Clause 8	Contract Bills and Contract Price		
	<p>Note: The Contract Bills have been prepared in accordance with the latest edition of the Standard Method of Measurement of Building Works published by the Architectural Association of Kenya, Chapter of Quantity Surveyors as amended at the end of these Preliminaries. This document is available for purchase from the Office of the Architectural Association of Kenya (AAK), or may be inspected at the offices of the Quantity Surveyors or any other location specified by them.</p> <p>Note: All Payments made in connection with this Contract will be in United States Dollar (USD)</p>		Also see item D on page 2/24	
	Clause 9	Contractors site agent and other staff		
	<p>Note: the Architect will require that the proposed site agent is properly qualified and experienced and reserves the right to order the dismissal from the works of any site agent who does not meet with his approval</p>			
	Clause 10	Clerk of Works		
C.	Clause 11	Liability against injury to persons and property		
	Carried to Part Summary			

PART NO. 1 (Ctd.)		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd)</u>			
C.	<u>CONDITIONS OF CONTRACT (Ctd)</u>		
Clause 12	<p>Insurance against Injury to Persons and Property</p> <p>Note: the Contractor shall effect and maintain the following insurances in the joint names of the Employer and Contractor with an insurance firm to the approval of the Employer and Architect to cover the full value of the following insurances as required by Clause 13 and shall allow for all costs thereof: -</p> <p>a)Employer's Liability (Workmen's Compensation)</p> <p>b)Third Party (Public) Liability for an Indemnity of not less than United States Dollars Fourty Thousand (USD 40,000.00) in any one accident or series of accidents arising from the same event (unlimited in aggregate)</p> <p>Should the Contractor already hold annual insurance covering the whole of his activities and the indemnity required under this Contract exceeds the indemnity under the existing policy (ies), then further insurances shall be effected and maintained to cover such excess.</p> <p>The Contractor shall ensure that all Sub-Contractors effect and maintain such insurances as are necessary to cover their liabilities in respect of injury to persons and property and Workmen's Compensation</p>		
Clause 13	Insurance of the Works (Contractors Liability)		
Clause 14	<p>Insurance of the Works (Employer's Liability)</p> <p>Note: This Clause is <u>deleted</u></p>		
Clause 15	<p>Insurance of the Works (works of Alterations etc)</p> <p>Note: This Clause is <u>deleted</u></p> <p><u>NOTES ON INSURANCE</u></p> <p>In addition to the Conditions of Contract and the requirements contained in the foregoing Clauses, the Contractor/Employer shall include in the insurance policies described above full Indemnity for the following items and shall allow for all costs thereof: -</p> <p>a)The Contract Works and temporary works to be erected in performance of this Contract to the value of not less than the Contract Sum.</p> <p>b)The Materials on Site.</p> <p>c)The Contractor's plant, tools and equipment</p>	<p><u>NOTE</u></p> <p>Also see item B on page 2/23</p>	
Carried to Part Summary			

PART NO. 1 (Ctd.) GENERAL PRELIMINARIES (Ctd.)		Amount (USD)	.
C.	<u>CONDITIONS OF CONTRACT (Ctd.)</u>		
	<p>d) Escalation/inflation on (b) above for an Indemnity of not less than 15% of the Contract Sum</p> <p>e) Spare parts, fuel, stores, provisions and property of employees (Note: This item to be at the discretion of the Contractor)</p> <p>Full Indemnity shall also be taken out in the same Policy to include and Indemnify the following SPECIAL CLAUSES: -</p> <p>g) Automatic reinstatement of loss h) Damage to any existing property j) The Maintenance period of Six (6) Months k) The Fluctuation Clause l) All site Sub-Contractors m) All cross liabilities n) The Principals Clause</p> <p>Any EXCESS cover required shall be at the sole discretion of the Contractor or example for any or all of the following:</p> <p>Storm, flood, subsidence, collapse, etc. Plant and equipment claims Third party claims Goods in transit claims or any other claims</p>		
	<p>Clause 16 Performance Bond</p> <p>Clause 16.1 – The Contractor shall either allow for a Cash Bond or obtain and submit on the Form of Tender the name of one Surety who shall be an established bank or insurance Company or fidelity guarantee company and who are willing to be bound to the Employer in an amount equal to Ten Percent (10%) of the Contract amount for the due performance of the Contract up to the date of completion as certified by the Architect and who will when and if called upon, sign a Bond annexed in the Form of Agreement (Without the addition of any limitations) on the same day as the Contract Agreement is signed. In the event of the Surety named in the Form of Tender not being approved by the Employer, the Contractor shall furnish within seven (7) days another Surety to the approval of the Employer</p> <p>Clause 16.2 – Employer's Performance Bond (Not Applicable - to be <u>deleted</u>)</p>	<p>NOTE</p> <p>NOTE</p>	
	<p>Clause 17 Compliance with regulations, notices etc.</p> <p>Clause 18 Programme of works The contraction is expected to work during normal hours</p>		
	Carried to Part Summary		

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
C.	<u>CONDITIONS OF CONTRACT (Ctd.)</u>		
Clause 19	Access to the works. The contractor shall provide to the Employer and his representative's access to the works and workshops or other places of the Contractor where work is being prepared for the Contract. This shall be in addition to similar access to be provided to the Architect and his representatives.		
Clause 20	Possession of site and commencement of works		
Clause 21	Leveling and setting out Sub-Clause 21.1 Amend "The Employer to The Architect"		
Clause 22	Architect's instructions		
Clause 23	Specification of goods, materials and workmanship <u>Note:</u> All materials, goods and workmanship shall be strictly in accordance with these Bills of Quantities and the Contractor's prices must include for all expenses involved in carrying out the works strictly in accordance herewith. Clause 23.3 shall only apply where the materials are available in the market at the time of the tender but are subsequently withdrawn from the market at the time the Contract is executed.		
Clause 24	Samples and tests		
Clause 25	Royalties and patent rights		
Clause 26	Assignment		
Clause 27	Subletting		
Clause 28	Suspension of works by the Architect		
Clause 29	Suspension of the works by the Contractor		
Clause 30	Variations <u>Note:</u> the Contractor shall submit to the Architect claims for any work or circumstance on account of which he may consider that he is entitled to extra payment <u>within seven days</u> from the time of commencement of such work or occurrence of such circumstance. Any such claim must be in writing and accompanied by full particulars and must state under which provision of the Contract it is claimed that payment shall be made.		
Carried to Part Summary			

C.	PART NO. 1 (Ctd.)	Amount (USD)	
	GENERAL PRELIMINARIES (Ctd)		
	<p data-bbox="188 344 561 371">CONDITIONS OF CONTRACT (Ctd)</p> <p data-bbox="371 409 1038 490">Daywork Rates Any Daywork ordered under Sub-Clause (4)(C) of this Clause shall be the Prime Cost to which the following percentages will be added as appropriate</p> <p data-bbox="371 557 850 584">Labour%</p> <p data-bbox="371 647 850 674">Materials%</p> <p data-bbox="371 707 850 734">Plant%</p> <p data-bbox="371 770 1082 851">The percentage additions shall cover all other on-costs associated with the execution of the dayworks including Contractor's establishment and overhead costs and profit.</p> <p data-bbox="392 891 1038 972">The Prime Cost shall in each case be calculated on the basis of market prices prevailing as at the date of execution of the daywork and shall be determined by the Quantity Surveyor.</p> <p data-bbox="392 1010 1059 1064">Daywork will be allowed only where specifically ordered or authorized by the Architect or their authorized representative in writing.</p> <p data-bbox="392 1102 979 1155">All daywork sheets must be signed by both the Architect and the Contractor or their authorized representatives.</p> <p data-bbox="392 1191 536 1218">Final Account</p> <p data-bbox="392 1256 1082 1417">The Contractor shall be required to prepare and submit to the Quantity Surveyor for their agreement, detailed Bills of Quantities for all variation works requiring re-measurement and works covered by Provisional Sums as soon as such works are completed and the Tenderer should allow for all costs involved in complying with this requirement. The agreed Bills will form the basis of the Final Account.</p> <p data-bbox="635 1821 860 1848">Carried to Part Summary</p>	<p data-bbox="1086 468 1161 495"><u>NOTE:</u></p> <p data-bbox="1086 528 1197 609">Tenderer to insert percentages</p> <p data-bbox="1086 739 1157 766"><u>NOTE</u></p> <p data-bbox="1086 799 1230 853">Also see Clause C on page 3/18</p> <p data-bbox="1086 1247 1230 1301"><u>IMPORTANT NOTE</u></p>	

	<p><u>PART NO. 1 (Ctd.)</u></p> <p><u>GENERAL PRELIMINARIES (Ctd)</u></p> <p>C. <u>CONDITIONS OF CONTRACT (Ctd)</u></p> <p>Clause 31 Nominated Sub-Contractors</p> <p><u>Note:</u> The Contractor must enter into Sub-Contracts with the Nominated Sub-Contractors on the latest edition of the Standard 'Agreement and Schedule of Conditions of Building Sub-Contract' form published by the Kenya Association of Building and Civil Engineering Contractors. He must incorporate therein any conditions herein applicable to Nominated Sub-contractors and if he fails to do so must accept full responsibility for any omissions, delays, bad workmanship, claims or expenses arising from the absence thereof. The Sub-Contract must cover such matters as payments on account, retention sums, maintenance period, facilities, dates for completion of each portion of the works together with a liquidated and ascertained damages clause in the event of delayed completion or non-completion and indemnity of the Contractor against any claims arising out of the misuse by any such Sub-Contractor or his workmen of any scaffold erected or plant employed by the Contractor, or that may be made against the Contractor in consequence of any act, omission or default of the Sub-Contractor, his servants or agents, or in respect of injury to workmen employed by the Sub-Contractor</p> <p>Notwithstanding the provisions contained in Clauses 31, the Employer reserves the right to incorporate work of any Nominated Sub-Contractor into the Main Contract in which event the Nominated Sub-Contractor shall become a domestic Sub-Contractor to the Main Contractor for all intents and purposes of this Contract. Any rights and obligations of the Nominated Sub-Contractor under Clause 31 will in that event revert to the Main Contractor.</p> <p>No claims will be entertained from the Main Contractor if the Employer decides to exercise this right but profit, overheads and attendance on the appropriate P.C. Sums will be paid as provided for in the Contract.</p> <p>Carried to Part Summary</p>	<p>Amount (USD) .</p> <p>Also see item D on page 2/21 & item B on page 3/16</p> <p><u>IMPORTANT NOTE</u></p>	
	<p><u>PART NO. 1 (Ctd.)</u></p>	<p>Amount (USD) .</p>	

GENERAL PRELIMINARIES (Ctd)

Clause 32 Nominated Suppliers

Note:

With regard to Nominated Sub-Contractors and Suppliers: -

a) 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 items provided in the Bills of Quantities.

b) When tendering for works covered by Prime Cost and Provisional Sums, the Contractor will be treated as any other Nominated Supplier or Sub-Contractor.

c) The Employer reserves the right to pay direct on certificates of the Architect some or all accounts in respect of works 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, any profits which the Contractor may have allowed on Prime Cost and Provisional Sums may be omitted from the Contract, at the discretion of the Architect.

Direct payment will not be deemed to construe omission of the work from the Contract and the Contractor will continue to be responsible for the work or goods in accordance with the terms of the Contract.

Clause 33 Works by other persons engaged by the Employer

Clause 34 Payments

NOTES:

a) At intervals stated, Certificates shall be issued subject to Sub-Clause 34.4. When applying for a Certificate, the Contractor shall furnish the Quantity Surveyor with a detailed approximate statement of the value of work executed and all materials on site in order to expedite the issue of the Certificates.

b) Subsequent Certificates will not be issued to the Contractor by the Architect until satisfactory proof has been given by the Contractor that Nominated Sub-Contractors and Suppliers have been paid the amounts included for them in previous Certificates issued to the Contractor.

c) All documents necessary for the purpose of the composition of the Final Account including all documents relating to the Accounts of Nominated Sub-Contractors and suppliers shall be passed to the Quantity Surveyor as and when available during the progress of the works and not later than one month after Date of Practical Completion

Also see
Item B on page
2/22 & item B
on page 3/19

Carried to Part Summary

PART NO. 1 (Ctd.)	Amount (USD)	
<u>GENERAL PRELIMINARIES (Ctd.)</u>		
<u>CONDITIONS OF CONTRACT (Ctd.)</u>		
<p>NOTE: Particulars of the insertions to be made in the Appendix to the Contract Agreement will be found on Page 3/6 of the Particular Preliminaries of these Bills.</p>		
A. <u>PROVISIONAL WORKS</u>		
<p>All work described as "Provisional" in these Bills of Quantities is subject to re-measurement in order to ascertain the quantity executed for which payment will be made.</p>	<p><u>IMPORTANT</u> <u>NOTE</u></p>	
<p>All "Provisional" and other work liable to adjustment under this Contract shall be left uncovered for a reasonable time to allow all measurements needed for such adjustments 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 Quantity Surveyor so directs, uncover the work to enable measurements to be taken and afterwards reinstate at his own expense.</p>		
B. <u>MATERIALS AND WORKMANSHIP</u>		
<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 are to be the best quality obtainable in the ordinary meaning of the word "best" and not merely a trade signification of that word. All materials shall also be to the approval of the Architect.</p>		
<p>The Contractor shall order all materials required to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that such materials are on site when required for use in the works.</p>		
<p>The Contractor shall be responsible for and shall replace or make good at his own expense any materials lost or damaged.</p>		
<p>Skilled workmen well versed in their respective field shall execute the Works throughout.</p>		
<p>The successful Tenderer shall be deemed to have investigated the practicability of using locally available materials in the various components of the building and shall be deemed to have priced accordingly. No claims shall be entertained thereafter for want of knowledge in this respect.</p>		
Carried to Part Summary		

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>REJECTED WORKMANSHIP OR MATERIALS</u> Any workmanship or materials not complying with the specific requirements or approved samples or which have been damaged, contaminated or have deteriorated, must be immediately removed from the site and replaced at the Contractor's expense, when required and so instructed by the Architect.		
B.	<u>SUFFICIENCY OF TENDER</u> The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his Tender for the works and of the rates and prices stated in the priced Bills 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.		
C.	<u>STAMP DUTY CHARGES</u> The Contractor shall allow for the payment of all stamp duty charges in connection with the Performance Bond and Contract Agreement.		
D.	<u>PROGRAMME AND PROGRESS SCHEDULE</u> Immediately upon acceptance of their tender and not later than Two weeks, the Main Contractor shall be required to prepare a computer generated programme and progress schedule clearly indicating the critical activities and setting out the appropriate dates thereof including the work of Nominated Sub-Contractors. This Programme and Progress Schedule is to be submitted to the Architect and Consultants for their approval. No deviation from the order set out in this Schedule will be permitted without the written consent of the Architect. The Main Contractor will be responsible for arranging the above Programme with all Sub-Contractors and Nominated Suppliers.	IMPORTANT NOTE	
Carried to Part Summary			

	<u>PART NO. 1 (Ctd.)</u>	Amount (USD)	.
	<u>GENERAL PRELIMINARIES (Ctd.)</u>		
A.	<u>PROGRAMME AND PROGRESS SCHEDULE (Ctd.)</u>		
	No Payment Certificate shall be issued by the Architect until the Schedule has been submitted and approved.	<u>IMPORTANT</u>	
	One copy of the Schedule is to be handed to the Architect and a further copy to be retained on site on which progress shall be recorded at regular agreed intervals by the Contractor and produced in upto date form at all site meetings.	<u>NOTE</u>	
	Should any circumstances arise affecting the Schedule, the chart shall be amended or modified as necessary by agreement with the Architect and all parties shall be informed.		
B.	<u>FIGURED DIMENSIONS</u>		
	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 buildings. Before any work is commenced by Sub-Contractors or Specialist Firms, dimensions must be checked on the site and/or buildings and agreed with the Contractor, irrespective of the comparable responsibility for the accuracy of such dimensions.		
C.	<u>PROPRIETARY MATERIALS</u>		
	Where proprietary materials are specified in the Specifications, the Contractor may propose the use of equivalent materials from other manufacturers but of equal quality for approval by the Architect.		
	All materials and goods, where specified to be obtained from a particular manufacturer or supplier are to be used or fixed strictly in accordance with their instructions.		
D.	<u>PLANT, TOOLS AND SCAFFOLDING</u>		
	The Contractor shall provide all necessary hoists, tackle, plant, vehicles, tools and appliances of every description for the due and satisfactory completion of the works and shall remove the same on completion and provide, erect and maintain all temporary scaffolding, sufficiently strong and efficient for the due performance of the Works including Sub-Contractor's works, provide special scaffolding as required by the Sub-Contractors, alter and adapt all scaffolding as and when required during the works and remove on completion and make good.	Also see item A on page 3/16	
	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 and adapted during the Contract as may be necessary to comply with any amendments in or additions to such regulations.		
	NOTE:Scaffolding is not measured hereinafter and the Contractor must allow herein his Tender for the above.		
	No timber used for scaffolding, formwork or temporary works of any kind shall be used afterwards in the permanent work.		
	Carried to Part Summary		

	<u>PART NO. 1 (Ctd.)</u>	Amount (USD)	.
	<u>GENERAL PRELIMINARIES (Ctd.)</u>		
A.	<u>SIGN FOR MATERIALS SUPPLIED</u> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the Employer at the time of taking delivery thereof, as having received them in good order and condition and will thereafter be responsible for any loss, damage, storage, insurance, protection and handling. Any replacement will be at the Contractor's own cost and expense at current market prices including Customs Duty, V.A.T. and all other related charges to the satisfaction of the Architect.</p>		
B.	<u>STORAGE OF MATERIALS</u> <p>The Contractor shall provide at his own risk and cost where directed on or off the site weather-proof lockup sheds for the safe storage and custody of materials for the works and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the Architect.</p> <p>The Contractor shall also provide a separate weather-proof lock-up store for the safe storage of materials supplied by the Employer.</p>	<u>NOTE</u>	
C.	<u>SAMPLES</u> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete tests cubes required for the works that may be called for by the Architect for his approval or rejection until such samples are approved by the Architect and the Architect may reject any materials or workmanship which in his opinion is not up to the required standards and specifications.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the Architect.</p> <p>The Contractor shall allow in his Tender for the provision of all such samples except those in connection with Nominated Sub-Contractor's work.</p>		
D.	<u>TESTING</u> <p>Allow for testing all installations required to be tested and provide everything necessary for this purpose and leave in perfect working order to the satisfaction of the Architect and Local Authority.</p> <p>Allow for all expenses in connection with testing of materials as specified hereunder including the supply and preparation of materials and their packing and conveyance to an approved Materials Testing Laboratory, Laboratory charges, etc.</p> <p>The following tests will be measured according to the number of tests actually called for by the Architect and carried out but unsuccessful tests will not be included in the measurement.</p>		
	Carried to Part Summary		

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
GENERAL PRELIMINARIES (Ctd.)			
D.	<u>TESTING (Ctd.)</u>		
	TYPE OF TEST	QUANTITY PROVISIONAL	RATE
	<u>Water Test</u> (1 Litre)	5 No.	
	<u>Sand Test</u> (0.1 cubic metre)	8 No.	
	<u>Aggregate Test</u> (0.1 cubic metre)	10 No.	
	<u>Reinforcement Test</u> (1 linear Metre mild steel rod or high tensile steel bar of various diameter from 6mm to 25mm)	15 No.	
	<u>Concrete Test</u> (Each test comprising four standard cubes)	100 No.	
	<u>Natural Stone</u> (Blocks)	12 No.	
	<u>Concrete Blocks</u> testing of various strengths in accordance with British standard specifications (One test comprises ten blocks)	18 No.	
	The Contractor shall allow for other testing of materials apart from the above required by these Specifications and he shall be responsible for all expenses incurred in completing such tests, including costs of labour, materials, equipment, transport and charges of the testing authority, etc.		
A.	<u>SUPERVISION AND WORKING HOURS</u>		
	The works shall be executed under the direction and to the entire satisfaction in all respects of the Architect who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and Sub-Contractors or other places where work is being prepared for the Contract.		
	The working hours shall be those generally worked by good employers in the Building and Civil Engineering Trades in the Republic of Kenya.		
	No work shall be carried out at night or on gazetted holidays unless the Architect shall so direct. Supervision shall only be carried out at night on Saturdays/Sundays or on Public Holidays with adequate advance notice and prior arrangement with the relevant Consultant or the Clerk of Works.		
	No work shall be so covered up nor shall any concreting be carried out in the absence of the Clerk of Works without the prior approval of the Architect in writing.		
B.	<u>SITE MEETINGS</u>		
	Site Meetings will be held in the site offices at intervals as directed by the Architect and the Contractor will be required to attend and also summon the attendance of Sub-Contractors and Specialists. Adequate arrangements must be allowed for with regard to tables, chairs, etc which must be provided by the Contractor.		
	Carried to Part Summary		

NOTE

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>SITE DIARY</u> A site diary shall be provided by the Contractor in the form of a double foolscap size stiff covered ruled book which should be kept available at all times upon the site. Entries made in the site diary by the Architect or his duly appointed representative shall be deemed to be the Architect's instructions given in writing and the Contractor shall confirm the same to the Architect within Seven (7) clear working days . All persons entering the site or other working area on whatever business shall be instructed by the Contractor to record their visit in the site diary giving their name, address and reason for visiting the site.	Also see item B on page 3/8	
B.	<u>EXISTING SERVICES</u> Prior to commencement of any work, the Contractor is to ascertain from the Client and relevant Authorities the exact position, depth and level of all existing electric cables, water pipes or other services in the area and he shall make whatever provisions may be required by the Client and Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any service shall be reported immediately to the Employer and the relevant Authority and shall be made good to the satisfaction of the Architect and the Contractor's expense. The contractor will similarly maintain on a 24hour basis a qualified electrician and plumber to ensure the critical services to the building are not interrupted.	<u>NOTE</u>	
C.	<u>GOVERNMENT ACTS REGARDING WORKFORCE, ETC.</u> Allow for complying with all Government Acts, Orders and Regulations in connection with the Employment of Labour and other matters related to the execution of the works. The tender price must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, Pensions and Holidays for workpeople or to the safety, health or welfare of workpeople. The Contractor must acquaint himself duly with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organization of the works, supply and control of labour, etc and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.	<u>NOTE</u>	
D.	<u>SECURITY OF WORKS, ETC.</u> The Contractor shall be entirely responsible for the security of all the works, stores, materials, plant, personnel, etc both his own and Sub-Contractor's and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public. Maximum precautions must be exercised to uphold security in the vicinity of the Works.		
Carried to Part Summary			

	<u>PART NO. 1 (Ctd.)</u>	Amount (USD)	.
	<u>GENERAL PRELIMINARIES (Ctd.)</u>		
A.	<u>TRANSPORT TO AND FROM THE SITE</u> The Contractor shall include in his prices for the transport of materials, workmen, etc to and from the site of the proposed Works, at such hours and by such routes as are permitted by the competent Authorities.		
B.	<u>PUBLIC AND PRIVATE ROADS AND PAVEMENT</u> The Contractor will be required throughout the execution of the Works to maintain and make good at his own expense any damage he may cause to the present public and private road surfaces and pavements arising from or consequent upon the execution of the works, to the satisfaction of the Local or other Authority and the Architect.		
C.	<u>WORKS AND SITE TO BE DELIVERED UP CLEAN</u> The Contractor shall upon completion of the Works, at his own expense, remove and clear away all surplus excavated material, scaffolding, plant, rubbish and unused material and shall leave the whole of the site and Works in a clean and tidy state to the satisfaction of the Employer, including clearing away and making good all traces of temporary access roads, offices, sheds, camps, etc. Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all sanitary fittings, glass inside and outside and any other parts of the works which may require it; remove all marks, blemishes, stains and defects from joinery fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the Architect. Particular care shall be taken to leave all floors and windows clean and to remove all paint and cement stains. He shall also at the discretion of the Employer remove all rubbish and dirt as it accumulates.		
D.	<u>OCCUPATION CERTIFICATE</u> At the completion of the Works, the Contractor shall apply for and obtain the Occupation Certificate from the Local Authority and see that it is duly completed and signed in accordance with conditions laid down by current By-Laws.		
E.	<u>DISTURBANCE OR NUISANCE</u> The Contractor shall allow for taking all necessary precautions in the order and execution of the Works so as to avoid causing disturbance or nuisance to the occupants of any existing building on or adjacent to the Works and to the public and for complying with the Architect's instructions in this respect.		
	Carried to Part Summary		

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>EXISTING PROPERTY</u> The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this Contract at his own expense to the satisfaction of the Architect.	NOTE	
B.	<u>TRESPASS, DAMAGE AND CARE OF WORKS</u> The Contractor shall prevent any trespass on the adjoining property and he shall take all reasonable precautions during the progress of the Contract to prevent any damage to the adjoining property or public or private roadways and to prevent material, plant, rubbish, debris, etc collecting on the adjoining property or roadways. Should the Contractor wish to erect scaffolding on or to make use of adjoining property he shall obtain prior permission from the Architect and clear away at completion of his work or when directed and make good any damage to his satisfaction. Except as provided for in the Conditions of Contract, the Contractor shall be held responsible for the care of Works generally until their completion, including all works executed and materials deposited on the site by himself or Sub-Contractors or suppliers, together with all risks arising from weather, carelessness of operatives, damage or loss at his own expense. The Contractor will be responsible for the protection of adjoining buildings, boundary walls, fences, services either overhead or underground and for the making good of or paying for all damage thereto, should such be caused in the course of building operations. The Contractor shall allow for making good all damage to the roads, kerbs, surface water channels, materials and building operations generally to the entire satisfaction of the Architect and shall be responsible for observing any By-Law or Authority regarding keeping the road free from mud, filth, etc arising out of the execution of the Works. The Contractor shall at all times observe any police regulations including those regarding the loading and unloading of or waiting by vehicles on the public highway and the Contract Sum shall be deemed to include for strict compliance therewith.		
C.	<u>VISIT SITE AND EXAMINE DRAWINGS</u> The Contractor is recommended to examine the drawings and visit the site, the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which may affect his Tender. No claims arising from his failure to comply with this recommendation will be considered.		
D.	<u>ACCESS TO SITE AND TEMPORARY ROADS</u> Means of access to the site shall be agreed with the Architect prior to commencement of the work and the Contractor must allow for building any necessary temporary access roads for the transport of the materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, bridges or any other means of gaining access to the site.		
Carried to Part Summary			

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
Upon completion of the Works, the Contractor shall remove such temporary access road, temporary culverts, bridges, etc and make good and reinstate all work and surfaces disturbed to the satisfaction of the Architect.			
A.	<u>AREA TO BE OCCUPIED BY THE CONTRACTOR</u>		
The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc shall be defined on the site by the Architect.			
B.	<u>OFFICE, ETC. FOR THE CONSULTANTS</u>		
The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle Site Offices of the type noted in the Particular Preliminaries complete with furniture.		<u>NOTE</u>	
He shall also provide a strong metal trunk complete with strong hasp and staple fastening and two keys.		Also see item A page 3/10	
The Contractor shall further make available on the Site as and when required for use by any Consultant or Clerk of Works the following which should be maintained in good working condition at all times: -		<u>IMPORTANT NOTE</u>	
1. One dumpy or quick set level and levelling staff			
2. One 30 metre steel tape			
3. Micrometer screw gauge			
4. Straight edges 3.0m and 1.0m long for testing accuracy of the finished concrete			
5. A glass graduated cylinder for use in the silt test for Organic Impurities in the sand			
6. Slump test apparatus			
7. 12 Nos. standard cube moulds			
8. Plumb Bob			
C.	<u>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</u>		
Unless otherwise stated in the Particular Preliminaries hereof, the following requirements shall apply: -		<u>NOTE</u>	
The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the Works. No guarantee is given or implied that mains power will always be available and the Contractor shall make his own arrangements for providing temporary power.			
The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used.			
He must also provide temporary storage tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the Architect. The Contractor shall pay all charges in connection therewith.			
No guarantee is given or implied that sufficient water will be available from the mains and the Contractor must make his own arrangements for augmenting this supply at his own cost if necessary.			
Carried to Part Summary			

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>SANITATION OF THE WORKS</u> The sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Local Authorities, Labour Department and the Architect.		
B.	<u>PROVISIONAL SUMS</u> The term "Provisional Sums" wherever used in these Bills of Quantities shall have the meaning stated in Section A Item A7 (I) of the Standard Method of Measurement mentioned in Condition No. 8 on Page 2/4 hereof. Such sums are net and no addition shall be made to them for profit		
C.	<u>PRIME COST (OR P.C.) SUMS</u> The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement mentioned in Condition No. 8 on Page 2/4 hereof. Persons or firms nominated by the Architect to execute work or to provide and fix materials or goods as stated in Condition No. 31 of the Conditions of Contract are described herein as Nominated Sub-Contractors . Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers .		
D.	<u>ADJUSTMENT OF P.C. SUMS</u> In the Final Account, all P.C. Sums shall be deducted and the amount properly expended upon the Architect's order in respect of each of them added to the Contract Sum. The Contractor shall produce to the Architect such quotations, invoices or bills properly receipted as may be necessary to show the actual details of the Sums paid by the Contractor. Items of profit on P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bills shows a percentage in the rate column in respect of them Should the Contractor be permitted to Tender and his Tender be accepted for any work for which a P.C. Sum is included in these Bills of Quantities, profit and attendance will be allowed at the same rate as it would be if the works were executed by a Nominated Sub-Contractor.		
Carried to Part Summary			

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>ADJUSTMENT OF PROVISIONAL SUMS</u> <p>In the Final Account, all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the Architect's order added to the Contract Sum. Such work shall be valued as described for Variation under Condition No. 30 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor or any articles for the work supplied by a Nominated Supplier, the value of such work or article shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p>		
B.	<u>NOMINATED SUB-CONTRACTORS AND SUPPLIERS</u> <p>When any work is ordered by the Architect to be executed by Nominated Sub-Contractors, the Contractor shall enter into Sub-Contracts as described in Condition No. 31 of the Conditions of Contract and shall thereafter be responsible for such Sub-Contractors in every respect. In particular, it shall be the Contractor's responsibility to ensure that each Sub-Contractor commences and completes the work in such manner and is ready on the site with his materials, labour and special plant at such time so as to conform with the Works Programme.</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 date of delivery of materials or execution of work comply with the terms of the Contract and the Works Programme.</p> <p>The cost of taking delivery and fixing only materials including those 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, loading, handling, transporting to site, unloading, insuring, storing, covering and protecting until the time of fixing, unpacking, replacing anything lost or damaged, sorting, assembling, hoisting, distributing or conveying to required levels or positions, cutting, wastage and fixing as described.</p> <p>Unless otherwise described, the Contractor is to provide for such Sub-Contractors any or all of the above facilities.</p>	Also see clauses 31 & 32 on pages 2/9 & 2/10	
C.	<u>ATTENDANCE UPON NOMINATED SUB-CONTRACTORS</u> <p>The term "attendance" following P.C. Sums for Nominated Sub-Contracts' work in these Bills of Quantities shall be deemed to include both attendance and items of special attendance as defined in Item D on Page 2/23</p>	<u>NOTE</u>	
D.	<u>DIRECT CONTRACTS</u> <p>Notwithstanding the foregoing Conditions, the Employer reserves the right to place a 'Direct Contract' for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In such instance, profit relative to the P.C. Sum in the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>		
Carried to Part Summary			

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>ATTENDANCE UPON OTHER TRADESMEN, ETC.</u> <p>The Contractor shall allow for the attendance upon other tradesmen and shall afford such persons employed for the execution of any work not included in this Contract, every facility for carrying out their work and also for the use of his ordinary scaffolding. The Contractor however shall not be required to erect any special scaffolding for them.</p> <p>The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the Architect and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p>		
B.	<u>INSURANCE</u> <p>The Contractor shall insure as required in the foregoing Conditions of Contract and as further amplified in these General Preliminaries.</p> <p>No payment on account of the work executed will be made to the Contractor until he has satisfied the Architect either by production of an Insurance policy or an Insurance Certificate that the provisions of the foregoing Insurance Clauses have been complied with in all respects.</p> <p>Thereafter the Architect shall from time to time ascertain that premiums are duly paid up by the Contractor who shall, if called upon to do so produce receipted premiums renewals for the Architect's inspection.</p>	Also see pages 2/5 to 2/7	
C.	<u>ALTERATIONS TO BILLS, PRICING ETC.</u> <p>Any unauthorized alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored.</p> <p>The Contractor shall be deemed to have allowed in his prices generally to cover any items against which no prices has been inserted in the priced Bills of Quantities.</p> <p>Lump sums to cover any items of Preliminaries shall be broken down if so required.</p>	<u>IMPORTANT NOTE</u>	
B.	<u>BLASTING OPERATIONS</u> <p>Blasting will only be allowed with the express permission of the Architect in writing.</p> <p>All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being and any special regulations laid down by the Architect governing the use and storage of explosives.</p>		
Carried to Part Summary			

<u>PART NO. 1 (Ctd.)</u>		Amount (USD)	.
<u>GENERAL PRELIMINARIES (Ctd.)</u>			
A.	<u>MATERIALS ARISING FROM EXCAVATIONS</u> Materials of any kind obtained from the excavations shall be the property of the Employer. Unless the Architect directs otherwise, such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply, with written permission of the Architect. Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.		
B.	<u>PROTECTION OF THE WORKS</u> Provide protection of the whole of the works contained in the Bills of Quantities including casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the Architect and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of costs to the Employer.		
C.	<u>REMOVAL OF RUBBISH, ETC.</u> Remove all rubbish and debris from the building and site as it accumulates and at completion of the works and remove all plant, scaffolding and unused materials at completion.		
D.	<u>STATUTORY LEVIES</u> The Tender must include for all costs arising or resulting from any Law requiring payment by the Contractor of any Statutory Levy or Levies currently in force.		
E.	<u>MATERIALS ON SITE</u> All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the Architect. This is to include the materials of Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.		
F.	<u>GENERAL SPECIFICATION</u> For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Specifications contained in Part No. 4 herein which shall be followed in all respects unless it conflicts with the General Preliminaries, Particular Preliminaries or other items in these Bills of Quantities, in which case the contents of the Bills of Quantities shall apply.		
Carried to Part Summary			

	<u>PART NO. 1 (Ctd.)</u> <u>GENERAL PRELIMINARIES (Ctd.)</u>	Amount (USD)	.
A.	<u>EXCEPTIONS TO THE STANDARD METHOD OF MEASUREMENT</u> The exceptions to the Standard Method of Measurement for Building Works are as follows :-		
B.	<u>ATTENDANCE</u> Clause B19(b) of the Standard Method of Measurement is deleted and the following Clause is substituted: “Attendance on Nominated Sub-Contractors shall be given as an item in each case and shall be deemed to include allowing use of standing scaffolding; providing retaining, maintaining, altering and later removing all special scaffolding; allowing the use of messrooms, sanitary accommodation and welfare facilities; providing office and storage facilities and water and power (all as specified in the Preliminaries, unloading, handling, storing, hoisting, placing in position, providing watching and lighting; hacking surfaces as required, clearing away rubbish, removing and replacing dust covers, pipe casting and the like necessary for the execution and testing of Sub-Contractors’ works; providing templates, dimensions and supervision for the proper carrying out of the Sub-Contractors’ work and being responsible for the accuracy of the same”.		
C.	<u>BUILDER’S WORK</u> <u>Clause B19(c) of the Standard Method of Measurement is deleted and the following Clause substituted:</u> “All builder’s work in connection with work by Nominated Sub-Contractors including cutting all holes, chases, sinking and pockets and making good all floor, wall and ceiling finishes shall be given as an item”.		
D.	<u>DISPOSAL OF WATER</u> <u>Clause D18 (a) and (b) of the Standard Method of Measurement are deleted and the following Clause is substituted:</u> “Keeping excavations free from all water including spring and running water shall be given as an item or shall be included in the description of excavation”	<u>IMPORTANT NOTE</u>	
	Carried to Part Summary		

<u>PART NO. 1 (Ctd.)</u>					<u>Amount (USD)</u> .	
<u>GENERAL PRELIMINARIES (Ctd.)</u>						
<u>PART SUMMARY</u>						
Brought Forward From Page No. 2/1				
“ “ “ Page No. 2/2				
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<u>TOTAL AMOUNT OF PART NO. 1</u>						
<u>GENERAL PRELIMINARIES</u>						
Carried to Summary		Amount (USD)				

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2		Amount (USD)	
<u>PARTICULAR PRELIMINARIES</u>			
A.	<u>SPECIFICATIONS</u> The Contract works shall be carried out in accordance with the Specifications contained in Part No. 4 of this document, the drawings listed in the Schedule of Drawings on Pages 1/8 herein together with any further drawings that may be issued in amplification thereof.		
B.	<u>BRIEF DESCRIPTION OF THE WORKS</u> The works to be executed under this contract comprise of Renovation works to existing warehouse, construction of washrooms and gate house Mechanical works and Electrical works will be executed by approved sub-contracts		
Carried to Part Summary			

THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY

<p>PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)</p> <p><u>Building Works</u></p> <p>A. Excavation and earthworks up to approximately 1.5 metres deep from existing ground level. The structure shall be founded on either soft rock or hard rock to the approval of the structural engineer.</p> <p>B. The Building structure shall generally be in reinforced concrete to floor slabs, beams, columns and steps</p> <p>C. External shall generally be in machine cut, first quality stone & curtain walling to detail and internal walling shall generally be in machine cut, first quality stone & frameless glass partitioning.</p> <p>D. Galvanised corrugated ironsheet roof on a steel truss structure.</p> <p>E. Doors shall include timber framed post formed doors</p> <p>F. Windows are generally aluminium glazed with 8mm toughened glazing.</p> <p>G. Floor finishes are generally eucrete polyurethane flooring and terrazzo to general spaces and staircase risers & steps, epoxy resin finish to vehicle inspection & testing space.</p> <p>H. Internal wall finishes shall be plaster and paint, and ceramic wall tiles to wet areas. External walls have a mixture of plaster and weather guard paint to architect's design.</p> <p>J. Ceiling finishes are plaster and paint, acoustic and gypsum ceiling</p>	<p>Amount (USD)</p>	<p>.</p>
<p>Carried to Part Summary</p>		

THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY

<p><u>PART NO. 2 (Ctd)</u> <u>PARTICULAR PRELIMINARIES (Ctd)</u></p> <p><u>BRIEF DESCRIPTION OF THE WORKS (Ctd)</u></p> <p>Specialist works and installation to be carried out by specialist firms shall include the following :-</p> <p>1.Electrical Installations including electrical wiring and conduiting / trunking for lighting and power installations, light fittings, fire alarm system, security lighting, trunking/conduiting for telephone/and security installations (CCTV), power distribution, switchgear and lightning protection, smoke detectors etc.</p> <p>2.Kenya Power Connection Charges</p> <p>3.Plumbing, Drainage and installations including sanitary fittings and accessories, internal plumbing and drainage, external water supply, cold room and reticulation including roof water storage tanks and booster pumps,etc.</p>	<p>Amount (USD)</p>	<p>.</p>
<p>A. <u>EXCLUSIONS FROM CONTRACT</u></p> <p>The following works are <u>excluded</u> from the Contract:-</p> <p>Vertical Blinds and Curtains</p> <p>Loose Furniture, Furnishings & Equipment</p> <p>NEMA and Council Approval Fees</p> <p>Professional Fees and Disbursements</p>		
<p>Carried to Part Summary</p>		

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

	<u>PART NO. 2 (Ctd)</u> <u>PARTICULAR PRELIMINARIES (Ctd)</u>	Amount (USD)	.
A.	<p><u>DRAWINGS</u></p> <p>The drawings used in the preparation of these Bills of Quantities are scheduled on Pages 1/8 hereof and are deemed to be the Tender and Contract Drawings. A set of the basic Architectural drawings is enclosed with the tender documents. The rest of the drawings are however available for inspection at the offices of the Architects or Quantity Surveyors during normal working hours by prior appointment.</p> <p>The Tenderer's attention is drawn to the fact that references have been made to some drawings in the measured section of the Bills of Quantities. If not amongst the tender drawings, such drawings can be inspected by Tenderers at the Architects' offices by prior appointment</p>	<p><u>IMPORTANT</u> <u>NOTE</u></p>	
B.	<p><u>SITE</u></p> <p>The site of the proposed works is at AFA - HCD Pack House in Kibwezi, Makeni County.</p> <p>Tenderers are strongly recommended to visit the site and if unable to locate it to apply to the Architects for direction to enable them to do so.</p>	<p><u>NOTE</u></p>	
	Carried to Part Summary		

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

	<p><u>PART NO. 2 (Ctd)</u> <u>PARTICULAR PRELIMINARIES (Ctd)</u> <u>SITE (Ctd.)</u></p> <p>The Tenderer shall be deemed to have examined and fully acquainted himself with the site and its nature and position, means of access, nearest water and electricity supplies etc. and make all necessary allowances and provisions for overcoming any difficulties which may arise therefrom as no claim for want of knowledge in this respect will be allowed.</p> <p>No claims will be allowed for travelling or other expenses, which may be incurred by the Contractor in visiting the site or preparing the tender for these works.</p> <p>A. <u>TEMPORARY OFFICES AND SHEDS</u></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 100mm above ground level.</p> <p>B. <u>LABOUR CAMPS</u></p> <p>The Contractor shall NOT be permitted to house workers on site and must make arrangements to transport them to and from site on a daily basis.</p> <p>C. <u>PHASED IMPLEMENTATION AND SECTIONAL COMPLETION</u></p> <p>Although sectional completion is not contemplated, the Contractor shall abide by any phased implementation of the works that may be directed by the Architect to suit the requirements of the Employer.</p> <p>Tenderers are also notified that no contractual claims or increase in prices will be allowed due to any Phased implementation of the works</p> <p>The last of the contract works are however to be completed within the overall Contract Completion Period</p> <p>D. <u>FIXED RATE CONTRACT</u></p> <p>The Tenderers attention is drawn to the fact that this is a fixed rate contract. No claim for increased costs will be entertained and the Contractor must allow in his tender for any increases in the cost of labour, materials and plant which may occur during the currency of the Contract.</p> <p>The whole of clause 35 relating to price fluctuations shall therefore be deleted.</p> <p style="text-align: right;">Carried to Part Summary</p>	<p>Amount (USD)</p>	<p>.</p>
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**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	.
A.	<u>COMPLIANCE WITH LABOUR LAWS AND REGULATIONS</u>		
	<p>The successful Tenderer shall be required to comply with all regulations relating to employment of labour, safety of labour, provision of sanitary facilities, first aid etc.</p> <p>The Contractor shall be required to provide toilets and shower facilities, safety implements for workers (helmets, overalls, gloves etc.)</p> <p>The Contractor shall be required to indemnify the Employer for any claims arising out of non- compliance with the above requirements.</p>		
B.	<u>ATTENDANCE TO FIT-OUT CONTRACTORS</u>		
	<p>The Tenderer's attention is drawn to the fact that Contractors employed by the Client may commence fit-out work within the building before Practical Completion. The Contractor shall be required to provide all necessary cooperation, attendance and assistance to such Contractors to enable them to carry out their work without undue hindrance.</p>		
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd.)		Amount (USD)	.
PARTICULAR PRELIMINARIES (Ctd.)			
<u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT</u>			
The following are the insertions to be made in the Appendix to the Contract Agreement			
	<u>CLAUSE</u>		
Percentage to cover professional fees for insurance purposes only	13		
Name of Contractor's Surety	16.1	(Contractor to propose and state herein)	
Amount of Surety	16.1	Ten percent (10%) of contract sum	
Name of Employer's Surety	16.2	Not applicable (To be deleted)	
Amount of Surety	16.2	Not applicable (To be deleted)	
Period for submission of programme	18.1		
Period for possession of site	20.1		
Contract period	20.2		
Date of commencement of works	20.2	To be agreed with the Director of Works acceptance of tender	
Date for practical completion	20.2	As indicated in the letter of award	
Name of the Bank for purposes of interest calculation	31..14	Two Percent (2%) above the average bank short term lending rate	
	32.4.5		
	34.6		
Interval for application of payment certificates	34.1	Not Applicable	
Minimum amount of payment certificate	34.4	Five percent (5%)	
Percentage of certified value retained	34.12	Ten percent (10%)	
Limit of retention fund	34.12	Ten percent (10%) of contract sum or provisional final account amount whichever is higher	
Periods for release of interest on retention money to Contractor	34.15	Not Applicable (To be deleted)	
Period of final measurement and valuation	34.17	3 Months from Practical completion	
Defects Liability Period	41.6	6 Months from practical completion	
Damages for delay in completion (for Whole Project)	43.1	\$1,000 per week or part thereof	
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

	<u>PART NO. 2 (Ctd)</u> <u>PARTICULAR PRELIMINARIES (Ctd)</u>	Amount (USD)	.
A.	<p><u>CLIENT SUPPLY MATERIALS</u></p> <p>The Employer reserves the right to supply any local or imported materials required for this Contract, whether measured or allowed as a P.C. or Provisional Sum in the B.Q.</p> <p>In the event of the Client exercising this right, the Q.S. or the Services Engineer will adjust the Contract or Sub-Contract Sum accordingly and no claims from the Main Contractor or Sub-Contractors will be accepted in this regard.</p>	<u>IMPORTANT</u> <u>CLAUSE</u>	
B.	<p><u>VALUE ADDED TAX (V.A.T.) ON CONSTRUCTION SERVICES</u></p> <p>The Tenderers' attention is drawn to the World Bank's latest regulations on Value Added Tax (V.A.T.) subjecting all construction services contracts to a V.A.T. rating of Sixteen Percent (16%). Tenderers are therefore required to allow for V.A.T. in their rates. TradeMark Africa will issue a Tax Exemption Certificate from KRA to the winning bidder for VAT filling purposes.</p> <p>Tenderer's should note that all their Bills of Quantities rates for measured items and all preliminaries should <u>include</u> V.A.T.</p> <p>It should further be noted that all the Provisional and P.C. Sums given herein are also <u>inclusive</u> of V.A.T.</p>	<u>IMPORTANT</u> <u>CLAUSE</u>	
C.	<p><u>INSURANCES AND PERFORMANCE BOND</u></p> <p>The Contractor will be required to take out all necessary insurances under the Contract and obtain the Performance Bond from an approved Insurance Company. The insurance cover shall include Contractor's All Risks Policies, Third Party Liability and Workmen's Compensation. The Contractor shall further indemnify the Employer against all claims arising out of the execution of the Contract Works.</p>	<u>Also see pages 2/5</u> <u>to 2/7 and item B</u> <u>on page 2/23</u>	
D.	<p><u>STATUTORY APPROVALS</u></p> <p>The Employer has applied for the necessary statutory approvals required before commencement of the works. As the granting of the approvals is not guaranteed and is beyond the control of the Employer, no claims for loss of profit or other claims shall be entertained in case approvals are not granted or are withdrawn after commencement.</p>		

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

	Carried to Part Summary		
	PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)	Amount (USD)	.
A.	<u>EXISTING SERVICE LINES</u> The Tenderer's attention is drawn to the possibility of some existing utility cables/pipes on site. Before commencing any excavations/demolitions, the Contractor will be required to ascertain the location of such services and ascertain whether they are "live" or not. The Contractor shall be deemed to have allowed for liaising with the necessary authorities with regard to the termination/re-routing of any service pipes/cables including paying for all related charges. Extreme care must be taken at all times to ensure that existing drainage and water supply pipes, electric and communication cables, underground drains and other service lines are not damaged during excavation or other building operations and all necessary precautions must be taken to avoid such occurrence. Should such damage nevertheless occur, the Contractor shall immediately inform the Architect and then proceed expeditiously with the repairing of such damage at his own cost. The Contractor shall be held responsible for and shall indemnify the Employer against all losses and expenses incurred as a result of such damage and disruption of services. Where removal or disconnection of such service lines is required to be carried out under the Contract, the operations must be carried out in co-ordination with the relevant Local Service Authority and Employer's maintenance department so as to minimize any disruption of services to the surrounding buildings and to enable them not make any precautions necessary and to make any alternative arrangement for the temporary provision of the services affected. The Contractor will further be required to provide at his own cost any temporary service lines or connections for the duration of disruption caused by such disconnections or removal.	IMPORTANT NOTE	
B.	<u>DEMOLITIONS AND DOWNTAKINGS</u> Unless otherwise stated, all salvageable materials arising from any Demolitions and Down takings shall become the property of the <u>Employer</u> . All such materials shall be carefully removed, taken down or dismantled and handed over to the Employer under recorded delivery unless instructed by the Architect to remove them from the site. Such materials shall only be incorporated in the new works if required by the Architect in which case appropriate adjustments will be made in the Final Account for the cost of labour, screws, etc. for fixing such down takings in the new work		
	Carried to Part Summary		

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	
A.	<u>OFFICES AND OTHER FACILITIES FOR THE CONSULTANTS, ETC.</u>		
	Item B Page 2/20 of the General Preliminaries shall apply.		
	The Contractor shall be required to erect a temporary office for the sole use of the Employer, Consultants and Clerk of Works.		
	The Contractor shall also be required to provide the necessary furniture such as chairs, tables, etc. for the use of the occupants and for purposes of holding site meetings.		
B.			
	He shall provide, erect and maintain a lockup western type water closet for the sole use of the above users, including making temporary connections to drain where applicable to the satisfaction of the Government and Medical Officers of Health and shall provide the services of a cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition and dismantle and make good disturbed surfaces to the satisfaction of the Architect on completion of the works. The office and closet shall be completed before the Contractor is permitted to commence the Works.		
	<u>TELECOMMUNICATION FACILITIES</u>		
	The Contractor shall provide a laptop, wi-fi connection and colour printer from the commencement to completion of the works for the sole official use of the Employer, Consultants, Clerk of Works and Sub-Contractors.		
C.			
	The Contractor shall apply and arrange for the installation of these facilities and pay all charges in connection with the installations, rental, and removal and for usage by his own staff, his Sub-Contractors and all other parties mentioned above.		
	<u>WATCHING AND LIGHTING</u>		
	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.		
D.			
	All watching and lighting shall comply with the requirements of the Employer and the Local Authority By-Laws and Police regulations and the Contractor shall give all requisite notices to these authorities.		
	<u>TEMPORARY DISPOSAL OF RAINWATER</u>		
	The Contractor shall provide and maintain all necessary temporary gutters, downpipes, chutes, drains, etc. for conveying rainwater from the buildings.		
	The Contractor shall allow for temporary drainage, pumping and piping for keeping the premises and site free from accumulation of water.		
	Carried to Part Summary		

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	.
A.	<u>DISTURBANCE</u>		
	<p>Tenderers should note that normal activities shall be continuing within and in the surrounding building during the construction period.</p> <p>Minimum disturbance by noise, dust, water or movement of vehicles, materials, labour or plant must be caused to the function of the existing adjacent buildings in the vicinity and the occupants and staff therein. The Contractor shall comply with all instructions issued by the Employer or Architect with regard to minimizing such disturbances.</p>		
B.	<u>WATER FOR THE WORKS</u>		
	<p>Item C Page 2/20 of the General Preliminaries shall apply.</p> <p>Alternatively, he may make a separate arrangement with the Employer for temporary connection to the existing mains and pay for all associated charges for connection and construction and consumption.</p> <p>The Contractor shall provide at his own risk and cost all necessary water required for the works including connecting to the mains, making arrangements with the Employer for temporary connection and paying all costs for connection and for water consumed and removing temporary connections on completion.</p> <p>No claims for lack of water or water pressure will however be entertained.</p> <p>All water shall be fresh, clean, pure and free from earthy vegetable or organic matter and acid or alkaline substances in solution or suspension and shall be tested whenever required by the Architect.</p>		
C.	<u>ELECTRICITY FOR THE WORKS</u>		
	<p>Item C Page 2/20 of the General Preliminaries shall apply.</p> <p>The Contractor may install his own generator on site with the approval of the K.P.L.C. if required.</p> <p>Alternatively, he may make a separate arrangement at his own risk with the Employer for temporary connection and supply of electricity for the works and pay all associated charges for connection and consumption</p> <p>No claims due to lack of electricity or due to power fluctuations will be accepted</p>		
Carried to Part Summary			

IMPORTANT
NOTE

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	.
A.	<p><u>SITE PHOTOGRAPHS</u></p> <p>The Contractor shall take and hand over to the Architect at approved intervals site progress photographs in a format to be directed by the Architect.</p>		
B.	<p><u>SIGNBOARD</u></p> <p>The Tenderer shall allow for providing, erecting and maintaining throughout the course of the Contract and afterwards clearing away a signboard in accordance with a drawing to be issued by the Architect.</p> <p>No other signboards or advertising will be permitted without the written authority of the Employer and Architect. The Contractor will be required to strictly adhere to this rule throughout the course of the Contract.</p> <p>The signboard comprises a strong well braced frame set in foundations with a "title" board and separate boards for the Client, all Consultants, Main and Sub-Contractors. The whole of the supports and boards must be well painted and the lettering which must not exceed 50mm high on the Consultants boards, motifs, etc must be carried out by an experienced signwriter to the approval of the Architect.</p>		
C.	<p><u>TEMPORARY HOARDING AND CATCHMENTS SHUTTERING AROUND WORKING AREAS</u></p> <p>Temporary hoarding shall be provided all around the new washroom site and the stores. The tenderers amount for hoarding shall be deemed to be inclusive of all legally demandable fees for the temporary hoarding by the Local and Central Authorities.</p> <p>The layout and details of <u>the hoarding</u> shall be to the successful Tenderer's design and to the approval of the Architect and shall comply with the following:-</p> <p>The hoarding shall be constructed in new 30 gauge corrugated galvanised new iron sheeting approximately 250m long x 3m high mounted on timber or steel framing and adequately supported by props, bearers and brackets at appropriate centres all to the entire satisfaction and approval of the Architect and Structural Engineers. Vehicular and pedestrian gates shall be provided. Previously used sheeting shall not be used for hoarding.</p> <p>The external surfaces of the hoarding shall be primed and painted with undercoat and one finishing coat gloss oil plant.</p> <p>Advertisements on the hoarding will only be allowed with the express approval of the Architect.</p>	NOTE	
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	.
A.	<u>SECURITY</u>		
	<p>Maximum precautions must be exercised to uphold existing security in the vicinity of the Works. The Contractor shall comply with all instructions issued by the Employer or Architect with regard to upholding of security arrangements and will be held responsible for any breach of security by his employees.</p> <p>The movement of the Contractor's men must be confined strictly to the Works and the Contractor's working and storage areas.</p> <p>Certain areas within and adjacent to the site and to be identified later, will be designed "Out of Bounds" areas for the Contractor's employees and the Contractor will be required to comply strictly with this rule.</p>		
B.	<u>HEALTH & SAFETY</u>		
	<p>In addition to complying with the requirements of the Occupational Safety & Health Act 2007 and the Factories Act, the Contractor and Sub-Contractors shall be required to comply in all respects with the Factories (Building Operations and Work of Engineering Construction) rules together with the Construction Safety Plan in compliance with International Labour Organizations (ILO) Regulations.</p> <p><u>NOTE:</u></p> <p>The Contractor will be held responsible in accordance with relevant Rules for serving on the Chief Inspector of Factories a written Notice not later than Seven (7) days after the beginning of the building operations included in this Contract stating the particulars included in this Contract.</p> <p>The Contractor will further be required to identify a Site Safety Officer in accordance with the above Rules who will be responsible for the health and safety of workers on the site.</p> <p>The Contractor will also be required to provide approved hard hats and gumboots (Wellingtons) for all workers on site including Sub-Contractors' workers and also for the exclusive use by the Clerk of Works and representatives of the Employer and Consultants.</p> <p>The Tenderer's attention is drawn to the fact that the Employer reserves the right to hold back the amount priced against this Clause either in full or in part due to any non-performance on the Contractor's part of his obligations under this Clause.</p> <p>The tenderer's attention is further drawn to the fact that he is required to submit with his tender a detailed write-up on how he intends to implement the above Construction Safety Plan. It should be noted that this write-up will form a heavily-weighted criteria in the evaluation of the tenders.</p>		
Carried to Part Summary			

IMPORTANT
NOTE

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	
A.	<p><u>TRAFFIC ARRANGEMENTS</u></p> <p>The Contractor will be required to agree the access route to the site with the Employer and relevant statutory authorities before commencement of the Contract Works and must adhere to this route throughout the course of the Contract, unless agreed otherwise.</p> <p>The Contractor will also be required to observe certain traffic rules and regulations pertaining to the use by his vehicles of the roads adjacent to the site. These rules and regulations should be investigated by him at the commencement of the Contract.</p>	<p style="text-align: center;"><u>IMPORTANT NOTE</u></p>	
B.	<p><u>SANITATION OF THE WORKS</u></p> <p>The Contractor must provide the necessary sanitary facilities for his staff and workmen. Any temporary toilet facilities shall be erected and maintained to the requirements and satisfaction of the Local and Health Authorities and shall be kept at all times in a thoroughly clean and sanitary condition and the ground made good when no longer required to the satisfaction of the Architect.</p>		
C.	<p><u>RESTORATION OF DAMAGE TO EXISTING PROPERTY</u></p> <p>The Contractor shall exercise utmost care and precaution to ensure that all existing property is well protected during construction operations. Any damage to such property caused by the Contractors' workmen or Sub-Contractors shall be repaired or restored to the Architect and Employer's satisfaction at the Contractor's expense</p>		
D.	<p><u>CLERK OF WORKS</u></p> <p>The Employer will appoint a Clerk of Works for the Project. The Contractor shall provide the Clerk of Works with every reasonable facility that he requires to carry out his duties as stipulated in the Conditions of Contract. The facilities include office space and access to telephone, and computer services.</p>		
E.	<p><u>BLASTING</u></p> <p>Unless otherwise agreed with the relevant authorities no blasting shall be allowed to be carried out on site. Any rock that is encountered with must be removed by use of sledgehammers, heavy-duty rippers mounted to tractors or by compressor.</p>		
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	
A.	<u>WORKING HOURS</u>	<u>IMPORTANT CLAUSE</u>	
	No restrictions will be imposed on working hours. The Contractor may work for twenty four hours a day if he so wishes. The Engineer may however require that noisy operations be carried out at certain times to minimize inconvenience to neighbours.		
	The Tenderer must however allow in his Tender price for working overtime if necessary to complete the Contract Works within the overall Contract Completion Period including the provision of flood-lighting and any other expenses in connection therewith and no claim in this respect will be allowed.		
B.	<u>OVERTIME</u>	<u>IMPORTANT NOTE</u>	
	The Tenderer must allow in his Tender price for working overtime and at night if necessary to complete the Contract Works within the overall Contract Completion Period including the provision of flood-lighting and any other expense in connection therewith and no claim in this respect will be allowed.		
C.	<u>NOTICES</u>		
	Adequate temporary Notices and Signs shall be posted to indicate e.g. that "building operations are in progress" and "entry is at ones own risk" or "trespassers are liable to be prosecuted" or such other Notices and Signs as the Architect may consider necessary from time to time. The design and location of such signs will be to the approval of the Architect.		
D.	No other signboards or advertising will be permitted without the authority of the Architect.		
	<u>HOIST & TACKLE (\$)</u>		
	The Contractor will be required to provide approved type(s) of Hoist and Tackle(s) on site for the works.		
	The Tenderer shall allow in his tender for this including its proper maintenance during construction and removal on completion.		
	Allowance should further be made in the Tender for all Local Authority permissions and charges involved and any temporary structural support required by the Structural Engineer.		
	The contractor is required to install, maintain and operate a construction lift throughout the project life.		
	The construction lift should have a load capacity of 1000 kgs with a cage size of 1.2m * 1.2m lifting up to a height of 50m; with a lifting speed of 3.3 metres per minute.		
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	.
A.	<p>SCAFFOLDING</p> <p>Where required, the Contractor shall provide and erect an approved type of scaffolding and staging maintain for the use of workmen including those of all Sub-Contractors and afterwards dismantle and remove from the site.</p> <p>All scaffolding and staging over two metres in height together with access ladders, ties to walls and handrails, etc shall comply in all respects with the Factories (Building Operations and Work of Engineering Construction) Rules. The Contractor shall in all cases give Notice and obtain the approval of the Architect before erection and give one full week's notice of intention to dismantle the scaffolding and staging to the Architect who shall not unreasonably withhold permission for the dismantling to proceed.</p>	Also see item D on page 2/14	
	<p>THE FACTORIES (BUILDING OPERATIONS AND WORK OF ENGINEERING CONSTRUCTION) RULES</p> <p>In addition to complying with the requirements of the Factories Act the Contractor shall comply in all respects with the above mentioned Rules.</p> <p><u>NOTE:</u></p> <p>The Contractor will be held responsible in accordance with relevant Rules for serving on the Chief Inspector of Factories a written Notice not later than Seven (7) days after the beginning of the building operations included in this Contract stating the particulars included in this Contract.</p> <p>The Contractor will further be required to identify a Site Safety Officer in accordance with the above Rules who will be responsible for the health and safety of workers on the site.</p> <p>The Contractor will be required to provide hard hats and gumboots (Wellingtons) for all workers on site including Sub-Contractors' workers and also for the exclusive use by the Employers, Clerk of Works and Consultants.</p>		
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

	<u>PART NO. 2 (Ctd)</u>	Amount (USD)	.
	<u>PARTICULAR PRELIMINARIES (Ctd)</u>		
A.	<u>TEMPORARY STRUCTURES</u> <p>The Contractor shall allow for providing and clearing away on completion of the Works such as temporary hoardings, fencing, gates, planked walkways, guard rails, etc. may be necessary for the protection of the workers, occupants of the building and adjacent structures and for the proper execution of the Works.</p> <p>All such temporary structures shall be constructed with the approval of the Architect and to his full satisfaction and in such a manner as to cause minimum inconveniences and disturbance to pedestrians and road users using the adjacent roads.</p> <p>All such temporary structures shall comply in all respects with the National laws, rules and regulations currently in force and applicable to such structures.</p> <p>All temporary structures shall be erected in a manner so that the unloading or loading of materials causes minimum obstruction to the use of adjacent roads and other facilities.</p> <p>All temporary structures shall be kept properly lighted throughout the periods of darkness and any corners or projections shall be painted white.</p> <p>Temporary structures shall not be used or permitted to be used for advertisement purposes except with the consent of the Architect.</p> <p>All temporary structures shall be maintained at all times in good order and condition to the satisfaction of the Architect.</p> <p>All temporary structures shall be removed when so required by the Architect or at the end of the period for which it is required.</p> <p>The Contractor shall indemnify and shall keep the Employer indemnified against any expense, loss, claim or in connection with the temporary structures.</p>		
	Carried to Part Summary		

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)		Amount (USD)	.
A.	<u>CONTRACTOR'S WORKING AREA, ACCESS AND MOVEMENTS</u>		
	<p>The Contractor's working storage and dumping area and all his activities will be confined to locations to be agreed with the Architect at the commencement of the works.</p> <p>The movement of the Contractor's vehicles and workmen will be restricted to areas and routes to be agreed with the Architect before commencing the Contract Works and these should strictly be adhered to throughout the course of the Contract unless otherwise agreed.</p>		
B.	<u>PURCHASE OF BUILDING MATERIALS IN ADVANCE</u>		
	<p>The Contractor will be required, immediately after the signing of the Contract to purchase in advance as much as possible of the building material requirements of the Contract.</p> <p>To qualify for inclusion in the interim payment certificates all such materials shall be suitably stored on site or in an approved bonded warehouse adequately insured against theft and damage for the period of storage, all to the approval of the Architect.</p> <p>Where any material is not immediately available the appropriate orders must be placed as soon as possible after the signing of the Contract and all appropriate measures must be taken to secure early delivery of such materials.</p>		
C.	<u>DAYWORKS</u>		
	<p>The Architect may, if in his opinion it is necessary or desirable, order in writing that any additional or substituted work shall be executed on a Daywork basis. The Contractor shall then be paid for such work in accordance with Dayworks rates and percentage additions to be agreed with the Quantity Surveyor.</p> <p>The Contractor shall furnish to the Architect all receipts or vouchers as may be necessary to prove the amounts paid and before ordering materials shall submit to the Architect quotations for the same for his approval.</p> <p>In respect of all work executed on a Daywork basis the Contractor shall, during the continuance of such work, deliver each day to the Architect a list in duplicate of the names, occupation and time of all workmen employed on such work and a statement also in duplicate showing the description and quantity of all materials and plant used thereon or thereof (other than plant which is included in the percentage addition on net amount of wages). One copy of each list and statement will, if correct or when agreed, be signed by the Architect and returned to the Contractor.</p>	<p>NOTE See Clause 30 on page 2/8</p>	
Carried to Part Summary			

**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

	PART NO. 2 (Ctd) PARTICULAR PRELIMINARIES (Ctd)	Amount (USD)	
	<u>DAYWORKS(Ctd)</u>		
	<p>At the end of each month the Contractor shall deliver to the Architect a priced statement of the labour, material and plant (except as aforesaid) used and the <u>Contractor shall not be entitled to any payment unless such lists and statements have been fully and punctually rendered.</u> Provided always that, if the Architect shall consider that any reason the sending of such list or statement by the Contractor in accordance with the foregoing provision was impracticable, he shall nevertheless be entitled to authorize payment for such work either as Daywork (on being satisfied as to the time employed and plant and materials used on such work) or at such value thereof as he shall consider fair and reasonable.</p>		
A.	<p><u>PRACTICAL COMPLETION AND DEFECTS LIABILITY</u></p> <p>If any defect be such that in the opinion of the Architect, it shall be impracticable or inconvenient to remedy the same, he shall ascertain the diminution in the value of the works due to the existence of such defects and deduct the amount of such diminution from the sum remaining to be paid to the Contractor, or, failing such remainder, it shall be recoverable as a liquidated demand in money.</p>		
B.	<p><u>NOMINATED SUB- CONTRACTORS AND NOMINATED SUPPLIERS</u></p> <p>The Contractor shall also accept liability for and bear the cost of General and Specific Attendance on Nominated Sub-Contractors which shall be deemed to include for :-</p> <p>Allowing the use of standing, scaffolding, providing special scaffolding, retention, maintenance and alteration of all scaffolding until such time as all relevant Sub-Contractors works are complete and removal of all scaffolding on completion.</p> <p>Providing reasonable office accommodation and stores for storage of plant and materials; allowing use of sanitary accommodation; the supply of all necessary water, power, lighting and watching and clearing away all rubbish</p> <p>Hacking surfaces to receive finishes as required by Sub-Contractors</p> <p>In addition to the definition of "attendance" given on Page 2/23 of the General Preliminaries, the items for "attendance" given hereafter following P.C. in respect of the Sub-Contractor's work shall be deemed to include all the above</p> <p>Builder's work in connection with the Sub-Contract such as cutting away for and making good after work of the Sub-Contractor as may be required is allowed for as an item following the P.C. Sums.</p>	<p>Also see clauses 31 & 32 on pages 2/9 & 2/10</p>	
	Carried to Part Summary		

THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY

PART NO. 2 (Ctd)		Amount (USD)
PARTICULAR PRELIMINARIES (Ctd)		
A.	<p><u>UNAVOIDABLE DELAYS IN IMPORTED MATERIALS</u></p> <p>During the progress of the work where delays are anticipated in obtaining imported materials or locally manufactured materials requiring imported components, the Architect should be informed in writing as early as possible. An application for extensions(s) of time must also be made in writing at the same time.</p> <p>Where the accepted Contractor can fully substantiate with documentary evidence that every effort has been made including the option of air-freighting imported materials and the correct procedures followed for obtaining the materials or where applicable the import licences and the delays are unavoidable, the Architect will, if satisfied, not unreasonably withhold the granting of such extension(s) of time and Liquidated and Ascertained Damages will <u>NOT</u> then be imposed on such delays.</p> <p>The successful Contractor will, however, be expected to place appropriate orders for all imported and locally manufactured materials immediately after the signing of the Contract Agreement in order to minimize the risk of delays caused through shortages of materials.</p> <p>The Tenderer should state below in the space provided any materials which in his opinion it is anticipated may be short supply and likely to cause such delays:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	
Carried to Part Summary		

THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY

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**THE PROPOSED ALTERATIONS AND UPGRADES AT AGRICULTURE FOOD AUTHORITY - HORTICULTURAL
CROPS DIRECTORATE (HCD) PACK HOUSE, KIBWEZI, MAKUENI COUNTY**

<u>PART NO. 2 (Ctd)</u>				Amount (USD)	.
<u>PARTICULAR PRELIMINARIES (Ctd)</u>					
<u>PART SUMMARY</u>					
Brought Forward From Page No. 3/1		
“ “ “ Page No. 3/2		
“ “ “ Page No. 3/3		
“ “ “ Page No. 3/4		
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“ “ “ Page No. 3/16		
“ “ “ Page No. 3/17		
“ “ “ Page No. 3/18		
“ “ “ Page No. 3/19		
“ “ “ Page No. 3/20		
“ “ “ Page No. 3/21		
<u>TOTAL AMOUNT OF PART NO. 2</u>					
<u>PARTICULAR PRELIMINARIES</u>					
Carried to Summary		Amount (USD)			

WAREHOUSE BLOCK WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	GENERAL PRELIMINARIES	Page 26	-
2	PARTICULAR PRELIMINARIES	Page 22	-
	WAREHOUSE WORKS SUMMARY CARRIED TO MAIN SUMMARY		-

BUILDERS WORK

WAREHOUSE

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p><u>ELEMENT NO. 1: DEMOLITIONS & ALTERATIONS</u></p> <p><u>Pricing Notes</u></p> <p><u>The Tenderer is advised to visit the site and seek all clarification from the design team before pricing and ascertain the nature of any existing buildings and services. NO claims arising from the Tenderer's omission from their tender, underpricing or lack of understanding of the nature and scope of demolition work will be entertained</u></p> <p><u>Tenderers are strongly advised to read and understand the following notes before pricing this section. Any query on the notes should be referred to the Quantity Surveyor or Project Architect</u></p> <p><u>Description</u></p> <p><u>Descriptions and scope of demolition work contained herein after are intended as a GUIDE ONLY to the Tenderer and no liability will be accepted for any discrepancies or inadequacies in these descriptions. The whole of the work shall be carried out in accordance with and to the entire satisfaction of the Architect. The Contractor shall, before commencing work, obtain all necessary authorizations for carrying out the work, give all necessary notices and pay all fees and charges in connection therewith. He shall arrange for and pay all fees and charges, if any, for disconnecting of electrical supplies, etc</u></p> <p><u>Prices</u></p> <p><u>Prices for the demolition of any portion of the structure, shall include for its demolition complete, with all surface finishes such as plaster, tiles, screeds, etc. All attached items of joinery such as skirtings, etc. and all reinforcement, conduits, pipes, lintols, etc. built into that portion of the structure.</u></p>				
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p><u>Prices for the removal of partitioning, etc. shall include for the removal of door frames, fanlights, ironmongery, architraves and other associated trim</u></p> <p><u>Prices for the removal of door and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim</u></p> <p><u>Prices for the removal of ceilings shall include for removal of all electrical and mechanical services and fittings in the ceiling void including partitioning etc. within the ceiling void</u></p>				
1	The unit of billing in this section is "item"				
2	<p>Amounts for demolitions shall include the following in addition to what is described in the particular item:</p> <p>a) Making good i.e. re-instatement of any finishes and structures affected by the demolition work to the original state</p> <p>b) Clearing debris with speed on a daily basis as they arise, cleaning of affected surfaces, and removal of the debris from site to local authority approved dumping sites. Accumulation of debris within the site premises shall not be allowed</p>				
3	Demolition work shall be carefully executed with the particular aim of minimizing damage to adjacent finishes, structure, or components				
4	The Contractor is to allow for all temporary protection required during the demolition works including ordinary and special dust screens, shoring and strutting, hoardings, scaffolding, barriers, warning signs, etc, as directed by the Architect				
5	The amounts quoted shall be deemed to be inclusive of all handling of the removed items and their removal from site				
6	Amounts given should include for adequate temporary support and protection for the remaining elements of the buildings being demolished and to adjacent buildings and services				
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
7	All materials, components and fittings arising from the demolitions work shall become the property of the Contractor. The tenderer is therefore expected to give realistic credit in the appropriate column for items which have salvage value.				
8	<p>Amount indicated will be adjusted against the approximate quantities to reflect the actual quantity of demolition work executed on site as shown in the layouts or directed by the architect.</p> <p><u>Temporary Protection</u></p> <p><u>All existing structures shall be propped, strutted and prepared as necessary for the demolition work. All debris and surplus material arising from demolitions shall be removed from the site and all existing site conditions disturbed made good to match new or existing works all to the Architects' satisfaction. Materials for re-use shall be carefully removed, cleaned, stored where directed by the Architect on site and afterwards fixed to the satisfaction of the Architect. Materials arising from demolitions reserved for the Employer shall be carefully cleaned and stacked on site where directed and the Architect shall at his sole discretion take possession of same on or before the date of practical completion, otherwise clearing away will imply that they become the property of the contractor who will allow credit in his rates accordingly</u></p> <p><u>Provide, erect and remove when directed, all incidental shoring, needling, strutting, etc. that may be necessary while carrying out any portion of the works, to ensure stability of the premises with suitable and substantial timber and other materials. Prices for all items of demolition to form openings shall include for the provision of such support</u></p> <p><u>Carefully demolish existing structures: including excavating for and removing all foundations; temporary disconnecting and capping all electrical and plumbing services</u></p> <p><u>All timber flooring, wardrobes, sanitary fittings, roofing tiles windows and doors, panel doors, masonry block, water tanks and accessories shall be reserved for the Employer</u></p>				
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 2; SUBSTRUCTURES (All Provisional)</u> <u>Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to</u>				
A	Plinths: externally	sm	128		
	<u>Slab Protection</u>				
B	50mm x 50mm x 3mm thick; hot dip galvanized mild steel angle fixed to slab edges with 4mm thick cast in lugs spaced at 500 mm centres to approval; one shop coat primer before delivery to site and finished with reflective tape all round mild steel angle fixed with approved adhesive	m	30		

Item	Description	Unit	Qty	Rate	Amount (USD)
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 3; ROOFING</u>				
	<u>Steel Trusses</u>				
A	Prepare surface wire brush/sanding trusses, rafters and other roof members; apply zinc phosphate primer/ Crown Aluminium wood primer to fascia/barge boards, timber trusses/purlins/fascia boards or such other approved and 2 coats of super gloss paint	SUM			
	<u>Roof Repair</u>				
B	Allow for spot repair and patching (if necessary) of existing galvanized roof cover. Repairs include appropriate welding, filling and application of filler and silicone where necessary	SUM			
	<u>Roof Covering</u>				
	<u>24 Gauge box profile G.C.I roofing sheets covering including edging trim, fixing to purlins, complete with approved lap sealant, washers, caps etc, including all necessary curvatures, hoisting, placing and connections; to Engineer's details</u>				
C	Roof covering	sm	588		
D	Ridge	m	56		
	<u>Galvanised iron metal sheet: gauge 24: pre-painted</u>				
E	100mm diameter grey rainwater down pipe.	m	109		
F	150mm x 150mm Box gutter: fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres: holes for down pipes as necessary: closed ends	m	128		
G	Extra over ditto for 800mm swan neck offset	No	8		
H	Ditto for shoe	No	8		
	ROOFING CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 4; DOORS</u>				
	<u>Timber doors</u>				
A	Over 100mm but not exceeding 200mm girth	m	78		
B	Not exceeding 100mm girth	m	78		
	<u>Prepare surfaces: apply three coats polyurethane clear lacquer or other equal approved; on timber surfaces; to</u>				
C	Over 100mm but not exceeding 200mm girth	m	78		
D	Not exceeding 100mm girth	m	78		
E	General timber surfaces: doors	sm	49		
	<u>Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval</u>				
F	Doors; both sides measured	sm	157		
	<u>Supply and fix: 'UNION' or other equal approved ironmongery: matching screws; locks to include a set of 3 keys: available from their authorised local dealers; brass finish to architects approval</u>				
G	Stainless steel heavy duty hydraulic overhead door closer	No	12		
H	850mm x 250mm satin stainless steel kick plate screwed to door surfaces	No	8		
J	300mm x 150mm satin stainless steel push plate screwed to door surfaces	No	4		
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 5; FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Screed: cement and sand (1:3) on concrete: self levelling wood floated finished</u>				
A	34mm thick finished to receive Eucrete polyurethane flooring system (m.s)	sm	682		
	<u>Supply and apply Eucrete polyurethane flooring system, 6mm thick, in accordance with the manufacturer's specifications, including surface preparation, priming, and application of topcoat. The finish shall be non-slip, seamless, and chemical-resistant, suitable for industrial use all to specifications</u>				
B	Floor	sm	682		
C	150mm high tiles skirting	m	222		
	<u>WALL FINISHES:</u>				
	<u>Internal wall finishes</u>				
	<u>Backing: minimum 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to</u>				
D	Walls to receive ceramic tiles (m.s.)	sm	219		
	<u>Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.</u>				
E	300mm x 600mm x 10mm thick tiles to pattern	sm	219		
	<u>Prepare wall and apply first quality silk vinyl/ vinyl mat/ soft satin as per Architects requirement and approval; two coats of supamatt emulsion or other approved as undercoat; one coat of skimming as walltex filler or other approved between the undercoats; and two final coats of first quality silk vinyl/ vinyl mat/ soft satin all as per Architect's instruction</u>				
F	Repainting existing walls	sm	921		
	<i>Carried to Collection</i>				

[illegible]

MECHANICAL WORKS

[illegible]

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p align="center">ELEMENT NO 2: SANITARYWARE & EQUIPMENT SUPPLY & INSTALLATION.</p> <p>Supply deliver and install the following appliances including their support brackets , screws etc where necessary items such as mastic, silicon, grouting etc must be included in the rates. All connectins to water supply/waste soil drainage and electrical power supply are to be the responsibility of the contractor and must be priced for.</p> <p>NOTE: TRADE NAMES</p> <p>Where Trade Names are mentioned below, it is only intended to indicate the level of quality anticipated. The contractor MAY supply alternatives which must be approved by the Engineers/Architect.</p> <p>WC</p> <p>A Water Closet Duravit D-code Close coupled W.C suite vitreous China comprising of W.C. wash down bowl complete with horizontal p-trap,connector, heavy duty matching plastic soft close seat and cover with metal top fixed (Stainless Steel) hinges.These to be flushed by 6 and 3 litres top dual flush Cistern of integrated angle stop valve with connecting fitments from Cistern to bowl, and chrome plated Push puttons.</p> <p>Wash Hand Basins - Pedestal</p> <p>B Duravit D-code Pedestal mounted Wash hand basin,size 550mm basin with 1no centre taphole C/w pedestal</p> <p>WHB Accessories</p> <p>C Watertech, 1/2" chrome plated, pillar tap with star handle as Cobra or equal and approved -</p> <p>D GROHE' pop up waste for typical duravit basins 1 ½ sink grid waste, 70mm diameter flange, 45mm long shank, unslotted with plug, chain and backnut,model name as Tolento.</p> <p>E PVC 1¼' bottle trap with 75mm deep seal and 200mm long tail pipe, cap-nut and wall flange</p> <p>Mirrors</p> <p>F 6mm thick polished plate glass, silver backed mirror with bevelled edges, size 600x500mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.</p>	Nos.	2		
		Nos.	4		
		Nos.	4		
		Nos.	4		
		Nos.	4		
		Nos.	4		
		Nos.	4		
	Total Amount Caried Forward To Next Page				

Item	Description	Unit	Qty	Rate	Amount (USD)
	Total Amount Brought Forward From Prevoius Page				
	Robe hook				
A	Robe hook in vitreous china and in white colour mounted onto a concealed screw to wall wedges, to be as Twyford's OC 6858 1998 or a CPV'd equivalent.	Nos.	3		
	Kitchen Sink				
B	Associated Steel Ltd single bowl, single drainer kitchen sink size 1000 x 500mm made out of 18SWG 18/8 stainless steel sheet with 420 x 355 x 150mm deep down in bright machine polish finish. The drainer shall be on the left hand side (insert type)	Nos.	1		
C	EUROBATH' chrome plated heavy duty back inlet bib tap with 150mm long chrome plated extension.	Nos.	1		
D	Chrome plated heavy cast 1 1/2' sink grid waste, 70mm diameter flange, 45mm long shank, unslopped with plug, chain and backnut	Nos.	1		
E	PVC 1 1/2 bottle trap with 75mm deep seal and 200mm long tail pipe, cap-nut and wall flange.	Nos.	1		
	Angle Regulating Valves				
F	1/2" Chrome plated angle regulating valve with 350 mm long service connection as "COBRA"	Nos.	8		
	Undersink Water Heater				
G	Undersink water heater of capacity 15 litres. Electrical load 3 Kw, 240V, 50Hz. To be as ARISTON EURIPRISMA or equal and approved.	1	Nos		
	Testing and Commissioning				
H	Allow for setting to work, testing and commissioning of the whole sanitary fittings installation to the satisfaction of the Engineer	Item	1		
	Total For Element No 2: Sanitaryware & Equipment Carried To Summary				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p>ELEMENT NO 3: COLD AND HOT WATER SUPPLY INSTALLATION</p> <p>Providing, Fixing, Jointing & Testing of PN-25 PP-R Pipes and Fittings (or similar equal and approved) to be used. Pipes shall be joined using Poly-fusion welding fitting i.e. Tees, Elbows, Couplers, Unions, Reducers, Brushing etc. including transition fittings (connection between PPR & metal pipe / GI) i.e Brass Adaptors (both male & female threaded). Exposed pipes to be provided with 13mm nitrile rubber insulation, including painting of legends with direction arrow on insulation, contains the quantity for Cold Water Supply through Shafts, Looping & Supply Pipe upto the Taps.</p>				
A	25 mm PP-R Pipe (PN-25) fixed to wall surface/ wall chase	L.M.	16		
B	25mm internal diameter High pressure screw-down full way non-rising stem gate valve as Pegler or equal and approved.	NO.	3		
C	Flexible hose pipe, 300mm x $\frac{1}{2}$ " as Cobra C-15-350 complete with angle valve as Cobra 832-10.	NO.	6		
D	Flexible hose pipe, 300mm x $\frac{3}{4}$ " as Cobra C-20/300 and set of angle regulating valve as Cobra 832-10	NO.	4		
	Total For Element No 3: Cold Water Supply Carried To Summary				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p>ELEMENT NO 4:</p> <p>DRAINAGE INSTALLATIONS</p> <p>Supply, install, test and commission the following:- PIPEWORK AND FITTINGS Prices for pipework shall include the cost for couplings, sockets, nipples, fixing brackets and plugs, (timber plugs not accepted) and jointing to fittings etc., including jointing's tapes, compounds etc., together with fixing pipe sleeves and the necessary builders work, all as required in the pipework installation.</p> <p>Allow in the rates for all necessary pipe fittings and accessories of the same manufacture including but not limited to adaptors, connectors, Tees, reducers, elbows, rodding access points, plugs and all pipe brackets, hangers and fixings as required for the satisfactory execution of the work and efficient completion and operation of the waste drainage system.</p>				
A	40mm diameter in complete with all necessary pipe fittings and accessories.	L.M.	12		
B	Ditto but 50mm Dia	L.M.	12		
C	Ditto but 100mm Dia	L.M.	18		
D	110mm diameter W.C connector complete.	L.M.	3		
E	Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm blockwork with cement mortar joints, on 150mm thick mass concrete slab and plastered inside for 100mm trap and hopper. 40mm thick, 250 x 250mm P.C.C cover to gully trap chamber and provided with 40mm ventilating hole.	NO.	2		
F	Inspection chambers not to exceed 1070 x 910mm and depth not to exceed 2000mm below finished floor or ground level. Wall thickness should be 150mm blockwork and it should have concrete base and rendered concrete benching 1:3:6 mix. The cover to be cast iron Grade "B" medium duty to BS 497 with double seal.	NO.	3		
G	Floor cleanouts including cover and well sealed screw chrome plated cover .All according to drawings and engineering approval. Size Dia 150mm	NO.	2		
	Total For Element No 4: Drainage Installation Carried To Summary				

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Item	Description	Unit	Qty	Rate	Amount (USD)
	<p style="text-align: center;">ELEMENT NO 6: HOSE REEL SYSTEM</p> <p>Supply, deliver, and install galvanized mild steel tubing to BS 1387 Class C with socketed joints to BS 21 and galvanized malleable iron fittings including fixing and jointing. Tenderers must allow in their pipework prices for all the couplings, connectors, joints, etc., required in the running lengths of pipework and also, where necessary, for pipe fixing clips, holderbats plugged and screwed, brackets, and pipe sleeves through structural members.</p>				
A	25 mm diameter galvanised mild steel tubing Class C	L.M.	12		
B	32 mm ditto	L.M.	40		
	Valve				
C	25 mm diameter approved high-pressure screw-down bronze gate valve BS 5154 PN 16 for Series B Rating with wheel head including jointing to steel tubing. As CRANE Model 156 or equal and approved	NO.	2		
D	32mm diameter approved high pressure check valve as CRANE or equal and approved	NO.	4		
	Hose reels				
E	Swinging type hose reel unit complete with 30m of 20mm internal diameter rubber fire hose with nylon spray/jet shut off nozzle, and mounting bracket conforming to BS EN 671-1: 1995 as ANGUS or equal and approved	NO.	2		
F	Allow for priming and finish painting of installation with 3 No. coats of paint to the Engineers approval.	ITEM	1		
G	Providing and fixing automatic air relief valve complete for flange connection to 32mm diameter fire hosereel line.	NO.	1		
H	Providing and fixing drain/washout valve complete for flange connection to 63mm diameter fire hose reel mains at the building entry/connection point.	NO.	1		
	Total Amount Caried Forward To Next Page				

Item	Description	Unit	Qty	Rate	Amount (USD)
	Total Amount Brought Forward From Prevoius Page				
A	Pumps Fire hose reel booster pump set (duty and stand-by) complete with the following: - Duplicate automatic electric motor-driven fire water pumps of capacity 5.4 m3/hr (1.5 litres/second) against a pressure of 2.5 bar complete with diaphragm pressure tank, base, and pumps. -Automatic electric control panel for a duplicate, duty and standby control system -Controls and control wiring -Base frame with antivibration mountings -Electrode for stopping above pumps should the level in the tank is too low -100mm dial pressure gauge (0-10 bar) -100 litres air pressure vessel of the diaphragm type or equal and approved and to be installed in series with the above pumps -Pressure switch including necessary valves and fittings -line strainer -necessary accessories Booster set to be manufactured by Davis & Shirliff or approved equivalent	SET	1		
B	Electrical connections from isolator to control panel and from control panel to pump, including all necessary cabling and conduiting.	ITEM	1		
	Total For Element No 6: Hose Reel System Carried To Summary				

Item	Description	Unit	Qty	Rate	Amount (USD)
<p style="text-align: center;">ELEMENT NO 7: WASHROOMS EXTRACTION SYSTEM</p>					
A	Inline duct centrifugal extract Fan with minimum airflow of 860m ³ /Hr. @250Pa as S&P TD-1000/200 SILENT 3V, or similar of equal or better quality and approved, complete with all brackets, hangers and fixings, anti-vibration mounting supports, rectangular flexible connectors, duct connection clamps, Louvre Back Draft Shutter with steel frame and aluminium shutter blades at duct terminal and all fixings and accessories necessary for proper mounting of the equipment to required standards. (For the washrooms)	Nos.	4		
B	Duct work 22 SWG Galvanized Ducting complete with necessary bends, reducers, transformations, support brackets, hangers/fixtures etc as per HVAC specifications DW/ 142 (latest edition) with all joint on length being sealed with 3M scotch seal No. 750c c/w to engineers approval.	Sqm	28		
C	Balancing Air-flow Dampers Regulating damper and connection to UPVC duct (VCD), Size 150mm x 150mm	Nos.	8		
D	Allow automatic voltage stabiliser, AVS, as Sollatek	Nos.	4		
E	160mm flexible Aluminium ducting with spiral steel wire frame as Soler&Palau GSA 160 MO, complete with hangers and fixings.	Sum	Item		
F	Allow for electrical Cabling.	Sum	Item		
G	Wall Louvres Provide and fix a wall louvre at the exit to the main extract duct. To be painted to match the external finish. Size 200mm x 200mm (neck size)	Nos.	4		
H	Extract Ceiling Grille 160mm diameter air Disc valve as Soler&Palau Ref# BOR 160 complete with fixing clamps as S&P COF 150, for securing extract duct onto the valve.	Nos.	13		
I	Motion Detector Switch for automatically turning the fans on when a change in motion is sensed.	Nos.	4		
J	Testing & Commissioning Allow for Setting to work, Testing & Commissioning of the whole Installation to the satisfaction of the Mechanical Engineer.	Sum.	Item		
Total For Element No 7: Mechanical Ventilation Carried To Summary					

WAREHOUSE BLOCK WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	GENERAL ITEMS	Page 10	
2	SANITARYWARE & EQUIPMENT	Page 12	
3	COLD WATER SUPPLY INSTALLATION	Page 13	
4	DRAINAGE INSTALLATIONS	Page 14	
5	PORTABLE FIRE EXTINGUISHERS	Page 15	
6	HOSE REEL SYSTEM	Page 17	
7	MECHANICAL VENTILATION	Page 18	
	WAREHOUSE WORKS SUMMARY CARRIED TO MAIN SUMMARY		

WAREHOUSE WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	DEMOLITIONS & ALTERATIONS	Page 4	
2	SUBSTRUCTURES	Page 5	
3	ROOFING	Page 6	
4	DOORS	Page 7	
5	FINISHES	Page 9	
6	MECHANICAL WORKS	MECHANICAL SUM	
	WAREHOUSE WORKS SUMMARY CARRIED TO MAIN SUMMARY		

WASHROOM

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 1; SUBSTRUCTURES (All Provisional)</u>				
A	Clear site of all vegetation including small trees, scrubs and bushes, excavate to remove top vegetable soil and heap as directed on site; average depth of 150mm	sm	110		
B	Top soil excavation; average 150mm thick depth to reduced levels	sm	110		
C	Excavate for column bases commencing from strip level: not exceeding 1.5m	cm	18		
D	Excavate for strip foundation trenches commencing from bulk excavated level: not exceeding 1.5m deep	cm	54		
E	Extra over all kinds of excavation irrespective of depth for rock	cm	12		
F	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
G	Allow for keep excavations free of water including any necessary pumping	Item			
H	Return, fill and ram selected soil in foundations	cm	13		
J	Remove surplus soil from site to a place approved by local authority	cm	76		
	<u>Mass concrete mix (1:3:6):in</u>				
K	50mm thick blinding under strip foundations	sm	36		
L	Ditto under column bases	sm	12		
	<u>Vibrated reinforced insitu concrete class 20/25; with minimum cube crushing strength of 25N/mm² at 28 days; in</u>				
M	Strip foundations	cm	8		
N	Column bases	cm	3		
P	Columns	cm	1		
Q	150mm thick ground floor slab	sm	110		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Mesh fabric reinforcement</u>				
A	Mesh reinforcement No. A98 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	110		
	<u>Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 460N/mm², in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all position</u>				
B	D8	Kg	50		
C	D10	Kg	322		
D	D12	Kg	152		
	<u>Formwork: Marine ply boards reinforced with steel frames to in-situ concrete to:-</u>				
E	Column bases	sm	10		
F	Columns	sm	12		
G	Strips	sm	24		
H	Edges: ground floor slab 75mm - 150 mm girth	m	50		
	<u>Walling</u>				
J	Chisel dressed natural stone walling bedded in cement and sand mortar (1:4) with reinforced hoop iron gauge 500 in every course and a minimum stone crushing strength of 14N/mm ²	sm	75		
	<u>Fill</u>				
K	Imported hardcore bed well compacted in layers not exceeding 150mm thick	cm	33		
L	200mm thick compacted approved granular gravel material (murrum), well watered and compacted in 100mm thick (maximum) layers	sm	98		
M	200mm thick hardcore of approved inert material: hand packed, well watered and compacted in 200mm thick (maximum) layers	sm	98		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Blinding</u>				
A	50mm thick approved quality murrum blinding to surfaces of hardcore	sm	98		
	<u>Anti-termite treatment</u>				
B	Termidor 25EC anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	110		
	<u>Damp proof membrane</u>				
C	Gauge 1000 polythene damp proof membrane	sm	110		
	<u>25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to</u>				
D	Plinths: externally	sm	18		
	<u>Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to</u>				
E	Plinths: externally	sm	18		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From Page 19				
	From Page 20				
	From Page 21 (Above)				
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 2; CONCRETE WORKS</u>				
	<u>Formwork: Marine ply boards reinforced with steel frames to in-situ concrete to:-</u>				
A	Sides and soffits: beams	sm	66		
B	Sides of columns	sm	25		
C	Soffits of worktops	sm	8		
D	Edges of suspended worktop slabs 75mm - 150mm girth	m	10		
E	Edges of plinth; 75mm - 150mm girth	m	23		
	<u>Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 460N/mm², in structural concrete work including cutting, bending, hoisting, tying wire, spacing tots and support all postion</u>				
F	D8	kg	168		
G	D12	kg	355		
	<u>Vibrated reinforced insitu concrete class 20/20; with minimum cube crushing strength of 20N/mm² at 28 days; in</u>				
H	Beams	cm	6		
J	Columns	cm	2		
K	100mm thick work top	sm	8		
L	100mm thick plinth	sm	9		
	R. C SUPERSTRUCTURE CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p>ELEMENT NO. 3; WALLS</p> <p><u>External walls</u></p> <p><u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm²</u></p> <p>200mm thick masonry walls with hoop iron laid after every alternate course.</p>	sm	98		
B	<p><u>Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u></p> <p>200mm wide</p> <p><u>Internal</u></p> <p><u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm²</u></p>	m	50		
C	<p>200mm thick masonry walls with hoop iron laid after every alternate course.</p>	sm	10		
D	<p>Ditto; 100mm thick masonry walls</p> <p><u>Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u></p>	sm	115		
E	<p>200mm wide</p>	m	10		
F	<p>100mm wide</p>	m	48		
	WALLS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 4; ROOFING</u>				
	<u>"ALL PROVISIONAL"</u>				
	<u>Sawn cypress second grade; pressure impregnated; hoisted to a height of 3000mm above ground level; all nails, hoop iron, splice plates and other jointing accessories</u>				
A	150mm x 50mm rafters in trusses	m	103		
B	100mm x 50mm ties/bracings	m	85		
C	50mm x 50mm purlins	m	251		
D	150mm x 50mm tie beam	m	65		
E	150mm x 50mm king post	m	18		
F	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	60		
G	250mm x 25 mm Fascia/ verge board	m	55		
	<u>Sundry items</u>				
H	12mm diameter rawl bolts: 150mm long; nuts and washers: including drilling holes through timber members as necessary	No	60		
	<u>Roof Covering</u>				
	<u>24 Gauge box profile G.C.I roofing sheets covering including edging trim, fixing to purlins, complete with approved lap sealant, washers, caps etc, including all necessary curvatures, hoisting, placing and connections; to Engineer's details</u>				
J	Roof covering	sm	166		
K	Ridge	m	31		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Galvanised iron metal sheet: gauge 24: pre-painted</u>				
A	100mm diameter grey rainwater down pipe.	m	11		
B	150mm x 150mm Box gutter: fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres: holes for down pipes as necessary: closed ends	m	55		
C	Extra over ditto for 800mm swan neck offset	No	4		
D	Ditto for shoe	No	4		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From Page 24				
	From Page 25 (Above)				
	ROOFING CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 5; DOORS</u>				
	<u>Timber doors</u>				
	<u>Post Formed Doors</u>				
A	50mm thick double leaf timber post formed door; with decorative carvings overall size 900mm x 2400mm high; to Architect's door schedule	No	2		
B	Ditto 800mm x 2100mm	No	17		
	<u>Wrot mahogany: prime grade</u>				
C	150mm x 50mm door frames	m	97		
D	Ditto transome	m	16		
E	50mm x 25mm architrave: splayed	m	97		
F	12mm diameter hardwood quadrant	m	97		
	<u>Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry</u>				
G	Over 100mm but not exceeding 200mm girth	m	97		
H	Not exceeding 100mm girth	m	97		
	<u>Prepare surfaces: apply three coats polyurethane clear lacquer or other equal approved: on timber surfaces: to</u>				
J	Over 100mm but not exceeding 200mm girth	m	113		
K	Not exceeding 100mm girth	m	113		
L	General timber surfaces: doors	sm	66		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Supply and fix: 'UNION' or other equal approved ironmongery: matching screws: locks to include a set of 3 keys: available from their authorised local dealers; brass finish to architects approval</u>				
A	100mm fire rated grade 13 heavy duty brass butt hinges	Prs	28.5		
B	Three lever mortice sashlock with 45mm back seat and approved handle	No	2		
C	Master keyed thumb turn cylinder lock	No	17		
D	Satin anodized aluminium oval door stopper fixed to wall or floor	No	19		
E	Buffer brass coat hook	No	17		
F	Stainless steel heavy duty hydraulic overhead door closer	No	19		
G	850mm x 250mm satin stainless steel kick plate screwed to door surfaces	No	17		
H	300mm x 150mm satin stainless steel push plate screwed to door surfaces	No	19		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From Page 26				
	From Page 27 (Above)				
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p>ELEMENT NO. 6; WINDOWS</p> <p><u>Approved concrete cill; twice throated, twice weathered; bedded and jointed in cement (sand (1:3) mortar; pointed in matching coloured cement</u></p> <p>250mm x 100mm thick cill</p> <p><u>12 mm thick one coat bed; wood floated to receive Precast window cills (m/s) ; to concrete or block work base ; generally to</u></p>	m	44		
B	<p>Window cills ; 200 mm to 300 mm wide</p> <p><u>Supply and fix aluminium framed window with approved powder coated aluminium framing in sections of size 100mm x 50mm x 2mm thick fixed to wall / beam / column around openings; glazing with 12mm thick toughened glass; secured to the framing using approved glazing strips and glazing beading including waterproofing all joints using approved silicon sealing compounds; all to Architect's window schedules' detail and approval</u></p>	m	44		
C	5800mm x 600mm overall height	No	2		
D	6400mm x 600mm overall height	No	1		
E	7600mm x 600mm overall height	No	1		
F	7900mm x 600mm overall height	No	1		
G	9100mm x 600mm overall height	No	1		
WINDOWS CARRIED TO SUMMARY					

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 7; FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Screed: cement and sand (1:4) on concrete: wood floated finished</u>				
A	32mm thick finished to receive porcelain tiles (m.s)	sm	110		
	<u>In situ 20mm thick terrazzo including divided strip and polished smooth laid on prepared screed (m/s)</u>				
B	Floor	sm	110		
C	150mm high tiles skirting	m	123		
	<u>WALL FINISHES:</u>				
	<u>Internal wall finishes</u>				
	<u>Plaster: 12 mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to</u>				
D	Walls	sm	37		
	<u>Backing: minimum 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to</u>				
E	Walls to receive ceramic tiles (m.s.)	sm	644		
F	Vanity tops to receive granite (m.s.)	sm	8		
	<u>Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement. Rates to include for plastic corner strip.</u>				
G	300mm x 300mm x 10mm thick tiles to pattern	sm	644		
	<u>Supply and fix approved granite with adhesive; to regular pattern; bedding and jointing in cement mortar (1:4) grouting joints with proprietary grouting laid on cement sand base (m/s)</u>				
H	18mm thick granite to vanity tops	sm	8		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p><u>Prepare wall and apply first quality silk vinyl/ vinyl mat/ soft satin as per Architects requirement and approval; two coats of supamatt emulsion or other approved as undercoat; one coat of skimming as walltex filler or other approved between the undercoats; and two final coats of first quality silk vinyl/ vinyl mat/ soft satin all as per Architect's instruction</u></p> <p>Walls</p> <p><u>EXTERNAL WALL FINISHES</u></p> <p><u>External cement and sand(1:3) render: steel trowelled: on masonry or concrete: to</u></p>	sm	37		
B	Walls and concrete surfaces	sm	128		
C	Extra over wall for keying externally (Horizontal Key and flush vertical Joints)	sm	128		
D	<p><u>Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications</u></p> <p>Externally to walls and concrete surfaces</p> <p><u>CEILING FINISHES</u></p> <p><u>12.5mm thick gypsum plasterboard fixed with screws to galvanised light weight steel frame work suspended from concrete above with mild steel angle sections, perimeter channels, primary support channels, strap hangers connecting clips etc with joints skimmed with gypsum plaster including forming and curved cuttings</u></p>	sm	128		
E	<p>Ceiling: patterns to Architect's approval and detail</p> <p><u>Wrot cypress: prime grade</u></p>	sm	110		
F	125mm x 125mm moulded cornice	m	166		
<i>Carried to Collection</i>					

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Knot prime stop and apply three coats of approved first quality plastic emulsion paint: on timber surfaces: to</u>				
A	Softboard ceiling internally	sm	110		
B	Surfaces 0 - 100mm girth; cornice	m	166		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u> <div style="text-align: right;">From Page 29</div> <div style="text-align: right;">From Page 30</div> <div style="text-align: right;">From Page 31 (above)</div>				
	FINISHES CARRIED TO SUMMARY				

MECHANICAL WORKS

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p>ELEMENT NO 2: SANITARYWARE & EQUIPMENT SUPPLY & INSTALLATION.</p> <p>Supply deliver and install the following appliances including their support brackets , screws etc where necessary items such as mastic, silicon, grouting etc must be included in the rates. All connectins to water supply/waste soil drainage and electrical power supply are to be the responsibility of the contractor and must be priced for.</p> <p>NOTE: TRADE NAMES Where Trade Names are mentioned below, it is only intended to indicate the level of quality anticipated. The contractor MAY supply alternatives which must be approved by the Engineers/Architect.</p> <p>WC Squatting Water Closet white vitrous China comprising: WC squatting pan ; P trap loose water closet connector suitable for squatting pan; High level ceramic cistern and fittings and chain pull; Plastic flushpipe and clip, Cistern supporting brackets; . Hand spray with 15mm diameter tap and fleible hose.</p> <p>Wash Hand Basins- Wall Mounted Semi Pedestal Wall Mounted wash hand basin as Armitage Shanks', Model:Basino, size '480*420', 1 tap hole in vitreous china complete with Ø40mm PVC Bottle 'P trap', chain waste, Ø75mm water seal and Ø63mm flange</p> <p>WHB Accessories Watertech, 1/2" chrome plated, pillar tap with star handle as Cobra or equal and approved -</p> <p>GROHE' pop up waste for typical duravit basins 1 ½ sink grid waste, 70mm diameter flange, 45mm long shank, unslotted with plug, chain and backnut,model name as Tolento.</p> <p>PVC 1¼' bottle trap with 75mm deep seal and 200mm long tail pipe, cap-nut and wall flange</p> <p>Disabled Toilet Suite Disabled toilet suite comprising: WC with horozontal outlet, wash hand basin, with no overflow and no chain waste fitting, 5 No. Doc M support rails, Doc M hinged support rail, toilet roll holder, pair wall hanger, grid waste, Doc M cistern and fittings, Doc M seat ring, stainless steel seat hinges, No. 1240WH P-trap connector. Or qual and approved.</p>				
A		Nos.	7		
B		Nos.	10		
C		Nos.	10		
D		Nos.	10		
E		Nos.	10		
F		Nos.	2		
	Total Amount Caried Forward To Next Page				

Item	Description	Unit	Qty	Rate	Amount (USD)
	Total Amount Brought Forward From Prevoius Page				
	Mirrors 6mm thick polished plate glass, silver backed mirror with bevelled edges, size 600x500mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.	Nos.	10		
A					
	Robe hook Robe hook in vitreous china and in white colour mounted onto a concealed screw to wall wedges, to be as Twyford's OC 6858 1998 or aCPV equivalent.	Nos.	7		
B					
	Shower Fittings Hansgrohe: 3-way shower consisting of finish Set #31686 With Concealed Shower Body #13620180 with Croma 100 Multi 0.90m Shower Kit & Rail # 27774 and Wall Outlet # 27414	Nos.	10		
C					
	Bathroom accessories Chrome plated toilet roll holder	Nos.	10		
D					
	20mm diameter x 650mm long chrome plated towel rail screwed to wall	Nos.	10		
E					
	Chrome Plated, wall mounted soap dish	Nos.	10		
F					
	Arabian Shower And Fittings Hand shower (Arabian Shower) unit. Complete with flexible hose, angle valve, shower head and any other necessary fittings for complete installation, As Docol Or equal and approved.	Nos.	9		
G					
	Liquid Soap Dispenser Mediclinics DJOO30 liquid soap dispenser in stainless steel AISI 304 body. With top filling lid and push button. With epoxy finish. Or equal and approved.	Nos.	8		
H					
	Hand Dryer Mediclinics M099A Sensor operated hand drier, steel 1.9mm thick one piece cover, chrome bright finish. Size 213 x 170 x 330mm. Effective air flow 330m ³ /hr Electrical power supply 2.25kW, single phase 240V 50 Hz. Or equal and approved.	Nos.	2		
I					
	Total Amount Caried Forward To Next Page				

Item	Description	Unit	Qty	Rate	Amount (USD)
	Total Amount Brought Forward From Prevoius Page				
A	Bowl Urinal Bowl urinal in white vitreous china complete fixture with comprising pair bowl supports, CP 40mm chrome plated bottle P- trap 40 mm outlet grating. Division and division hangers OR equal and approved.	Nos.	4		
B	Bowl Urinal Sensor DOCOLTRONIC - Pressmatic Vandal-proof Low Pressure Urinal Valve, concealed, Code 17015006 , Bi-nickel chrome plated, providing long-lasting durability and higher resistance to corrosion, maintaining the product beautiful and glossy much longer. Diameter: 1/2" and 3/4", Operates perfectly in high and low pressure, from 0,2 to 4 kgf/cm ² or from 3 to 57 psi.. Or equal and approved.	Nos.	4		
C	Angle Regulating Valves 1/2" Chrome plated angle regulating valve with 350 mm long service connection as "COBRA"	Nos.	14		
D	Testing and Commisioning Allow for setting to work, testing and commissioning of the whole sanitary fittings installation to the satisfaction of the Engineer	Item	1		
	Total For Element No 2: Sanitaryware & Equipment Carried To Summary				
	ELEMENT NO 3:				

Item	Description	Unit	Qty	Rate	Amount (USD)
	COLD AND HOT WATER SUPPLY INSTALLATION Providing, Fixing, Jointing & Testing of PN-25 PP-R Pipes and Fittings (or similar equal and approved) to be used. Pipes shall be joined using Poly-fusion welding fitting i.e. Tees, Elbows, Couplers, Unions, Reducers, Brushing etc. including transition fittings (connection between PPR & metal pipe / GI) i.e Brass Adaptors (both male & female threaded). Exposed pipes to be provided with 13mm nitrile rubber insulation, including painting of legends with direction arrow on insulation, contains the quantity for Cold Water Supply through Shafts, Looping & Supply Pipe upto the Taps.				
A	25 mm PP-R Pipe (PN-25) fixed to wall surface/ wall chase	L.M.	48		
B	32 mm PP-R Pipe (PN-25) fixed to wall surface/ wall chase	L.M.	38		
C	40 mm PP-R Pipe (PN-25) fixed to wall surface/ wall chase	L.M.	28		
D	50 mm PP-R Pipe (PN-25) fixed to wall surface/ wall chase	L.M.	28		
F	25mm internal diameter High pressure screw-down full way non-rising stem gate valve as Pegler or equal and approved.	NO.	4		
G	32 mm internal diameter ditto	NO.	4		
H	50 mm internal diameter ditto	NO.	2		
I	50 mm diameter Non- Return valve ditto	NO.	2		
J	Flexible hose pipe, 300mm x $\frac{1}{2}$ " as Cobra C-15-350 complete with angle valve as Cobra 832-10.	NO.	14		
L	Flexible hose pipe, 300mm x $\frac{3}{4}$ " as Cobra C-20/300 and set of angle regulating valve as Cobra 832-10	NO.	14		
	Total For Element No 3: Cold Water Supply Carried To Summary				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p align="center">ELEMENT NO 4:</p> <p align="center">DRAINAGE INSTALLATIONS</p> <p>Supply, install, test and commission the following:- PIPEWORK AND FITTINGS Prices for pipework shall include the cost for couplings, sockets, nipples, fixing brackets and plugs, (timber plugs not accepted) and jointing to fittings etc., including jointing's tapes, compounds etc., together with fixing pipe sleeves and the necessary builders work, all as required in the pipework installation.</p> <p>Allow in the rates for all necessary pipe fittings and accessories of the same manufacture including but not limited to adaptors, connectors, Tees, reducers, elbows, rodding access points, plugs and all pipe brackets, hangers and fixings as required for the satisfactory execution of the work and efficient completion and operation of the waste drainage system.</p>				
A	40mm diameter in complete with all necessary pipe fittings and accessories.	L.M.	24		
B	Ditto but 50mm Dia	L.M.	24		
C	Ditto but 100mm Dia	L.M.	36		
D	110mm diameter W.C connector complete.	L.M.	7		
E	<p>Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm blockwork with cement mortar joints, on 150mm thick mass concrete slab and plastered inside for 100mm trap and hopper. 40mm thick, 250 x 250mm P.C.C cover to gully trap chamber and provided with 40mm ventilating hole.</p>	NO.	3		
F	<p>Inspection chambers not to exceed 1070 x 910mm and depth not to exceed 2000mm below finished floor or ground level. Wall thickness should be 150mm blockwork and it should have concrete base and rendered concrete benching 1:3:6 mix. The cover to be cast iron Grade "B" medium duty to BS 497 with double seal.</p>	NO.	4		
G	Floor cleanouts including cover and well sealed screw chrome plated cover .All according to drawings and engineering approval. Size Dia 150mm	NO.	4		
H	Ditto Size 100mm Dia	NO.	7		
K	WEATHERING APRON TERRAIN No. 131	NO.	2		
L	VENT COWL TERRAIN No. 150.2	NO.	2		
	Total For Element No 4: Drainage Installation Carried To Summary				

[illegible]

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p align="center">ELEMENT NO 6: HOT WATER HEATING</p> <p>Supply, deliver and install the following for Items as specified: -</p> <p>Allow for supply and installation of solar water heating indirect system as follows:</p> <p>A set of 2No solar collectors on the main house flat roof as Chameleon Solutions Limited, on slanting structure c/w Hot Water Cylinder shall store a capacity of 300litre hot water on roof level. Collector rated pressure is 10 (Bar) which shall be connected via coupled nuts type. Tank case material: PCM, color: White, 50mm thick insulation material: PUF, with 20mm diameter inlet and outlet. Solar contractor shall mount the cylinder on roof level c/w gate valves, non-return valve, pressure valve, thermostatic valve and 1.5kW electric emersion heater. Other fittings as air purger and safety valve shall be extended to roof top. The solar contractor to allow for insulated hot water pipework and controllers c/w all necessary fittings.</p>	Nos.	2		
B	Allow for painting and colour coding of pipes	Item	1		
C	Allow for painting and colour coding of pipes	Item	1		
Total For Element No 6: Solar Water Heating Installation Carried To Summary					

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p align="center">ELEMENT NO 7:</p> <p align="center">WASHROOMS EXTRACTION SYSTEM</p> <p>Inline duct centrifugal extract Fan with minimum airflow of 1440m³/Hr. @250Pa as S&P , or similar of equal or better quality and approved, complete with all brackets, hangers and fixings, anti-vibration mounting supports, rectangular flexible connectors, duct connection clamps, Louvre Back Draft Shutter with steel frame and aluminium shutter blades at duct terminal and all fixings and accessories necessary for proper mounting of the equipment to required standards.(For the washrooms)</p>				
A		Nos.	2		
B	<p>Duct work 22 SWG Galvanized Ducting complete with necessary bends, reducers, transformations, support brackets, hangers/fixtures etc as per HVAC specifications DW/ 142 (latest edition) with all joint on length being sealed with 3M scotch seal No. 750c c/w to engineers approval.</p>	Sqm	36		
C	<p>Balancing Air-flow Dampers Regulating damper and connection to UPVC duct (VCD), Size 150mm x 150mm</p>	Nos.	10		
D	Allow automatic voltage stabiliser, AVS, as Sollatek	Nos.	2		
E	160mm flexible Aluminium ducting with spiral steel wire frame as Soler&Palau GSA 160 MO, complete with hangers and fixings.	Sum	Item		
F	Allow for electrical Cabling.	Sum	Item		
G	<p>Wall Louvres Provide and fix a wall louvre at the exit to the main extract duct. To be painted to match the external finish. Size 200mm x 200mm (neck size)</p>	Nos.	2		
H	<p>Extract Ceiling Grille 160mm diameter air Disc valve as Soler&Palau Ref# BOR 160 complete with fixing clamps as S&P COF 150, for securing extract duct onto the valve.</p>	Nos.	13		
I	Motion Detector Switch for automatically turning the fans on when a change in motion is sensed.	Nos.	2		
J	<p>Testing & Commissioning Allow for Setting to work, Testing & Commissioning of the whole Installation to the satisfaction of the Mechanical Engineer.</p>	Sum.	Item		
	Total For Element No 7: Mechanical Ventilation Carried To Summary				

WASHROOM WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	GENERAL ITEMS	Page 32	
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3	COLD WATER SUPPLY INSTALLATION	Page 36	
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6	SOLAR WATER HEATING INSTALLATIONS	Page 39	
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	WASHROOM WORKS SUMMARY CARRIED TO MAIN SUMMARY		

WASHROOM WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	SUBSTRUCTURES	Page 21	
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3	WALLING	Page 23	
4	ROOFING	Page 25	
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7	FINISHES	Page 31	
8	MECHANICAL WORKS	MECHANICAL SUM	
	WASHROOM WORKS SUMMARY CARRIED TO MAIN SUMMARY		

GATE HOUSE

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p><u>ELEMENT NO. 1: DEMOLITIONS</u></p> <p><u>Pricing Notes</u></p> <p><u>The Tenderer is advised to visit the site and seek all clarification from the design team before pricing and ascertain the nature of any existing buildings and services. NO claims arising from the Tenderer's omission from their tender, underpricing or lack of understanding of the nature and scope of demolition work will be entertained</u></p> <p><u>Tenderers are strongly advised to read and understand the following notes before pricing this section. Any query on the notes should be referred to the Quantity Surveyor or Project Architect</u></p> <p><u>Description</u></p> <p><u>Descriptions and scope of demolition work contained herein after are intended as a GUIDE ONLY to the Tenderer and no liability will be accepted for any discrepancies or inadequacies in these descriptions. The whole of the work shall be carried out in accordance with and to the entire satisfaction of the Architect. The Contractor shall, before commencing work, obtain all necessary authorizations for carrying out the work, give all necessary notices and pay all fees and charges in connection therewith. He shall arrange for and pay all fees and charges, if any, for disconnecting of electrical supplies, etc</u></p> <p><u>Prices</u></p> <p><u>Prices for the demolition of any portion of the structure, shall include for its demolition complete, with all surface finishes such as plaster, tiles, screeds, etc. All attached items of joinery such as skirtings, etc. and all reinforcement, conduits, pipes, lintols, etc. built into that portion of the structure.</u></p>				
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p><u>Prices for the removal of partitioning, etc. shall include for the removal of door frames, fanlights, ironmongery, architraves and other associated trim</u></p> <p><u>Prices for the removal of door and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim</u></p> <p><u>Prices for the removal of ceilings shall include for removal of all electrical and mechanical services and fittings in the ceiling void including partitioning etc. within the ceiling void</u></p>				
1	The unit of billing in this section is "item"				
2	<p>Amounts for demolitions shall include the following in addition to what is described in the particular item:</p> <p>a) Making good i.e. re-instatement of any finishes and structures affected by the demolition work to the original state</p> <p>b) Clearing debris with speed on a daily basis as they arise, cleaning of affected surfaces, and removal of the debris from site to local authority approved dumping sites. Accumulation of debris within the site premises shall not be allowed</p>				
3	Demolition work shall be carefully executed with the particular aim of minimizing damage to adjacent finishes, structure, or components				
4	The Contractor is to allow for all temporary protection required during the demolition works including ordinary and special dust screens, shoring and strutting, hoardings, scaffolding, barriers, warning signs, etc, as directed by the Architect				
5	The amounts quoted shall be deemed to be inclusive of all handling of the removed items and their removal from site				
6	Amounts given should include for adequate temporary support and protection for the remaining elements of the buildings being demolished and to adjacent buildings and services				
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
7	All materials, components and fittings arising from the demolitions work shall become the property of the Contractor. The tenderer is therefore expected to give realistic credit in the appropriate column for items which have salvage value.				
8	<p>Amount indicated will be adjusted against the approximate quantities to reflect the actual quantity of demolition work executed on site as shown in the layouts or directed by the architect.</p> <p><u>Temporary Protection</u></p> <p><u>All existing structures shall be propped, strutted and prepared as necessary for the demolition work. All debris and surplus material arising from demolitions shall be removed from the site and all existing site conditions disturbed made good to match new or existing works all to the Architects' satisfaction. Materials for re-use shall be carefully removed, cleaned, stored where directed by the Architect on site and afterwards fixed to the satisfaction of the Architect. Materials arising from demolitions reserved for the Employer shall be carefully cleaned and stacked on site where directed and the Architect shall at his sole discretion take possession of same on or before the date of practical completion, otherwise clearing away will imply that they become the property of the contractor who will allow credit in his rates accordingly</u></p> <p><u>Provide, erect and remove when directed, all incidental shoring, needling, strutting, etc. that may be necessary while carrying out any portion of the works, to ensure stability of the premises with suitable and substantial timber and other materials. Prices for all items of demolition to form openings shall include for the provision of such support</u></p> <p><u>Carefully demolish existing structures: including excavating for and removing all foundations; temporary disconnecting and capping all electrical and plumbing services</u></p> <p><u>All timber flooring, wardrobes, sanitary fittings, roofing tiles windows and doors, panel doors, masonry block, water tanks and accessories shall be reserved for the Employer</u></p>				
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Gate House demolition</u> <u>Carefully demolish existing building comprising of 200mm thick masonry walls on reinforced concrete foundations, well compacted hardcore filling, murrum blinding, concrete floor beds, floor finishes, corrugated iron sheets roof covering on timber trusses, ring beams, masonry walling, windows, doors, disconnection of all services; load and cart away debris from site; set aside all salvage material for re-use; make good all affected areas</u>				
A	Gate House (Plinth Area; approx. 10m ²)	Item			
	DEMOLITIONS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 2; SUBSTRUCTURES (All Provisional)</u>				
A	Excavate for column bases commencing from strip level: not exceeding 1.5m	cm	6		
B	Excavate for strip foundation trenches commencing from bulk excavated level: not exceeding 1.5m deep	cm	14		
C	Extra over all kinds of excavation irrespective of depth for rock	cm	3		
D	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
E	Allow for keep excavations free of water including any necessary pumping	Item			
F	Return, fill and ram selected soil in foundations	cm	3		
G	Remove surplus soil from site to a place approved by local authority	cm	17		
	<u>Mass concrete mix (1:3:6):in</u>				
H	50mm thick blinding under strip foundations	sm	9		
J	Ditto under column bases	sm	4		
	<u>Vibrated reinforced insitu concrete class 20/20; with minimum cube crushing strength of 20N/mm² at 28 days; in</u>				
K	Strip foundations	cm	2		
L	Column bases	cm	1		
M	Columns	cm	1		
N	150mm thick ground floor slab	sm	10		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Mesh fabric reinforcement</u>				
A	Mesh reinforcement No. A98 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	10		
	<u>Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 460N/mm², in structural concrete work including cutting, bending, hoisting, tying wire, spacing rods and support all position</u>				
B	D8	Kg	23		
C	D10	Kg	148		
D	D12	Kg	70		
	<u>Formwork: Marine ply boards reinforced with steel frames to in-situ concrete to:-</u>				
E	Column bases	sm	4		
F	Columns	sm	4		
G	Strips	sm	6		
H	Edges: ground floor slab 75mm - 150 mm girth	m	13		
	<u>Walling</u>				
J	Chisel dressed natural stone walling bedded in cement and sand mortar (1:4) with reinforced hoop iron gauge 500 in every course and a minimum stone crushing strength of 14N/mm ²	sm	19		
	<u>Fill</u>				
K	Imported hardcore bed well compacted in layers not exceeding 150mm thick	cm	10		
L	200mm thick compacted approved granular gravel material (murrum), well watered and compacted in 100mm thick (maximum) layers	sm	7		
M	200mm thick hardcore of approved inert material: hand packed, well watered and compacted in 200mm thick (maximum) layers	sm	7		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Blinding</u>				
A	50mm thick approved quality murram blinding to surfaces of hardcore	sm	7		
	<u>Anti-termite treatment</u>				
B	Termidor 25EC anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	10		
	<u>Damp proof membrane</u>				
C	Gauge 1000 polythene damp proof membrane	sm	10		
	<u>25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to</u>				
D	Plinths: externally	sm	5		
	<u>Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to</u>				
E	Plinths: externally	sm	5		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From Page 45				
	From Page 46				
	From Page 47 (Above)				

Item	Description	Unit	Qty	Rate	Amount (USD)
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 3; CONCRETE WORKS</u>				
	<u>Formwork: Marine ply boards reinforced with steel frames to in-situ concrete to:-</u>				
A	Sides and soffits: beams	sm	17		
B	Sides of columns	sm	9		
C	Soffits of worktops	sm	2		
D	Edges of suspended worktop slabs 75mm - 150mm girth	m	3		
E	Edges of plinth; 75mm - 150mm girth	m	6		
	<u>Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 460N/mm², in structural concrete work including cutting, bending, hoisting, tying wire, spacing tots and support all position</u>				
F	D8	kg	75		
G	D12	kg	159		
	<u>Vibrated reinforced insitu concrete class 20/20; with minimum cube crushing strength of 20N/mm² at 28 days; in</u>				
H	Beams	cm	2		
J	Columns	cm	1		
K	100mm thick work top	sm	1		
L	100mm thick plinth	sm	2		
	R. C SUPERSTRUCTURE CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p>ELEMENT NO. 4; WALLS</p> <p><u>External walls</u></p> <p><u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm²</u></p> <p>200mm thick masonry walls with hoop iron laid after every alternate course.</p>	sm	27		
B	<p><u>Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u></p> <p>200mm wide</p>	m	13		
C	<p><u>Internal</u></p> <p><u>Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm²</u></p> <p>200mm thick masonry walls with hoop iron laid after every alternate course.</p>	sm	5		
D	<p><u>Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar</u></p> <p>200mm wide</p>	m	3		
WALLS CARRIED TO SUMMARY					

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 5; ROOFING</u>				
	<u>"ALL PROVISIONAL"</u>				
	<u>Sawn cypress second grade; pressure impregnated; hoisted to a height of 3000mm above ground level; all nails, hoop iron, splise plates and other jointing accessories</u>				
A	150mm x 50mm rafters in trusses	m	16		
B	100mm x 50mm ties/bracings	m	14		
C	50mm x 50mm purlins	m	29		
D	150mm x 50mm tie beam	m	15		
E	150mm x 50mm king post	m	5		
F	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	15		
G	250mm x 25 mm Fascia/ verge board	m	18		
	<u>Sundry items</u>				
H	12mm diameter rawl bolts: 150mm long; nuts and washers: including drilling holes through timber members as necessary	No	15		
	<u>Roof Covering</u>				
	<u>24 Gauge box profile G.C.I roofing sheets covering including edging trim, fixing to purlins, complete with approved lap sealant, washers, caps etc, including all necessary curvatures, hoisting, placing and connections; to Engineer's details</u>				
J	Roof covering	sm	21		
K	Ridge	m	5		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Galvanised iron metal sheet: gauge 24: pre-painted</u>				
A	100mm diameter grey rainwater down pipe.	m	6		
B	150mm x 150mm Box gutter: fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres: holes for down pipes as necessary: closed ends	m	18		
C	Extra over ditto for 800mm swan neck offset	No	2		
D	Ditto for shoe	No	2		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u> From Page 50 From Page 51 (Above)				
	ROOFING CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 6; DOORS</u>				
	<u>Timber doors</u>				
	<u>Post Formed Doors</u>				
A	50mm thick double leaf timber post formed door; with decorative carvings overall size 900mm x 2400mm high; to Architect's door schedule	No	1		
B	Ditto 800mm x 2100mm	No	1		
	<u>Wrot mahogany: prime grade</u>				
C	150mm x 50mm door frames	m	11		
D	Ditto transome	m	2		
E	50mm x 25mm architrave: splayed	m	11		
F	12mm diameter hardwood quadrant	m	11		
	<u>Prepare and apply one coat of aluminium wood primer on timber surfaces in contact with concrete or masonry</u>				
G	Over 100mm but not exceeding 200mm girth	m	11		
H	Not exceeding 100mm girth	m	11		
	<u>Prepare surfaces: apply three coats polyurethane clear lacquer or other equal approved: on timber surfaces: to</u>				
J	Over 100mm but not exceeding 200mm girth	m	13		
K	Not exceeding 100mm girth	m	13		
L	General timber surfaces: doors	sm	8		

Item	Description	Unit	Qty	Rate	Amount (USD)
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Supply and fix: 'UNION' or other equal approved ironmongery: matching screws: locks to include a set of 3 keys: available from their authorised local dealers: brass finish to architects approval</u>				
A	100mm fire rated grade 13 heavy duty brass butt hinges	Prs	3		
B	Three lever mortice sashlock with 45mm back seat and approved handle	No	1		
C	Master keyed thumb turn cylinder lock	No	1		
D	Satin anodized aluminium oval door stopper fixed to wall or floor	No	2		
E	Buffer brass coat hook	No	1		
F	Stainless steel heavy duty hydraulic overhead door closer	No	2		
G	850mm x 250mm satin stainless steel kick plate screwed to door surfaces	No	2		
H	300mm x 150mm satin stainless steel push plate screwed to door surfaces	No	1		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From Page 52				
	From Page 53 (Above)				
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p>ELEMENT NO. 7; WINDOWS</p> <p><u>Approved concrete cill; twice throated, twice weathered; bedded and jointed in cement (sand (1:3) mortar; pointed in matching coloured cement</u></p> <p>250mm x 100mm thick cill</p> <p><u>12 mm thick one coat bed; wood floated to receive Precast window cills (m/s) ; to concrete or block work base ; generally to</u></p>	m	3		
B	<p>Window cills ; 200 mm to 300 mm wide</p> <p><u>Supply and fix aluminium framed window with approved powder coated aluminium framing in sections of size 100mm x 50mm x 2mm thick fixed to wall / beam / column around openings; glazing with 12mm thick toughened glass; secured to the framing using approved glazing strips and glazing beading including waterproofing all joints using approved silicon sealing compounds; all to Architect's window schedules' detail and approval</u></p>	m	3		
C	1200mm x 1200mm overall height	No	2		
WINDOWS CARRIED TO SUMMARY					

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>ELEMENT NO. 8; FINISHES</u>				
	<u>FLOOR FINISHES</u>				
	<u>Screed: cement and sand (1:4) on concrete: wood floated finished</u>				
A	32mm thick finished to receive porcelain tiles (m.s)	sm	10		
	<u>In situ 20mm thick terrazzo including divided strip and polished smooth laid on prepared screed (m/s)</u>				
B	Floor	sm	10		
C	150mm high tiles skirting	m	14		
	<u>WALL FINISHES:</u>				
	<u>Internal wall finishes</u>				
	<u>Plaster: 12 mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to</u>				
D	Walls	sm	33		
	<u>Backing: minimum 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to</u>				
E	Walls to receive ceramic tiles (m.s.)	sm	14		
F	Vanity tops to receive granite (m.s.)	sm	2		
	<u>Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement. Rates to include for plastic corner strip.</u>				
G	300mm x 300mm x 10mm thick tiles to pattern	sm	14		
	<u>Supply and fix approved granite with adhesive; to regular pattern; bedding and jointing in cement mortar (1:4) grouting joints with proprietary grouting laid on cement sand base (m/s)</u>				
H	18mm thick granite to vanity tops	sm	2		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
A	<p><u>Prepare wall and apply first quality silk vinyl/ vinyl mat/ soft satin as per Architects requirement and approval; two coats of supamatt emulsion or other approved as undercoat; one coat of skimming as walltex filler or other approved between the undercoats; and two final coats of first quality silk vinyl/ vinyl mat/ soft satin all as per Architect's instruction</u></p> <p>Walls</p> <p><u>EXTERNAL WALL FINISHES</u></p> <p><u>External cement and sand(1:3) render: steel trowelled: on masonry or concrete: to</u></p>	sm	33		
B	Walls and concrete surfaces	sm	35		
C	Extra over wall for keying externally (Horizontal Key and flush vertical Joints)	sm	35		
D	<p><u>Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications</u></p> <p>Externally to walls and concrete surfaces</p> <p><u>CEILING FINISHES</u></p> <p><u>12.5mm thick gypsum plasterboard fixed with screws to galvanised light weight steel frame work suspended from concrete above with mild steel angle sections, perimeter channels, primary support channels, strap hangers connecting clips etc with joints skimmed with gypsum plaster including forming and curved cuttings</u></p>	sm	35		
E	<p>Ceiling: patterns to Architect's approval and detail</p> <p><u>Wrot cypress: prime grade</u></p>	sm	10		
F	125mm x 125mm moulded cornice	m	17		
	<i>Carried to Collection</i>				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>Knot prime stop and apply three coats of approved first quality plastic emulsion paint: on timber surfaces: to</u>				
A	Softboard ceiling internally	sm	10		
B	Surfaces 0 - 100mm girth; cornice	m	17		
	<i>Carried to Collection</i>				
	<u>COLLECTION</u>				
	From Page 55				
	From Page 56				
	From Page 57 (above)				
	FINISHES CARRIED TO SUMMARY				

MECHANICAL WORKS

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p>ELEMENT NO 1:</p> <p>SANITARYWARE & EQUIPMENT SUPPLY & INSTALLATION.</p> <p>Supply deliver and install the following appliances including their support brackets , screws etc where necessary items such as mastic, silicon, grouting etc must be included in the rates. All connectins to water supply/waste soil drainage and electrical power supply are to be the responsibility of the contractor and must be priced for.</p> <p>NOTE: TRADE NAMES</p> <p>Where Trade Names are mentioned below, it is only intended to indicate the level of quality anticipated. The contractor MAY supply alternatives which must be approved by the Engineers/Architect.</p> <p>Close Coupled Water Closet (Wc) Suite Low level water closet suite (WC) in white vitreous china comprising:- bowl with Horizontal Outlet; Low level 6 litre cistern and fittings with side inlet and overflow, Chrome Plated Lever. Heavy duty seat and cover , 'S' or turned 'P' trap outlet connector. To be as "Twyfords, Model - Classic" or equal and approved.</p> <p>Wash Hand Basins - Pedestal Duravit D-code Pedestal mounted Wash hand basin,size 550mm basin with 1no centre taphole C/w pedestal</p> <p>WHB Accessories Watertech, 1/2" chrome plated, pillar tap with star handle as Cobra or equal and approved -</p> <p>GROHE' pop up waste for typical duravit basins 1 ½ sink grid waste, 70mm diameter flange, 45mm long shank, unslotted with plug, chain and backnut,model name as Tolento.</p> <p>PVC 1¼' bottle trap with 75mm deep seal and 200mm long tail pipe, cap-nut and wall flange</p> <p>Mirrors 6mm thick polished plate glass, silver backed mirror with bevelled edges, size 600x500mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back rest.</p>				
A		Nos.	1		
B		Nos.	1		
C		Nos.	1		
D		Nos.	1		
E		Nos.	1		
F		Nos.	1		
	Total Amount Caried Forward To Next Page				

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Item	Description	Unit	Qty	Rate	Amount (USD)
	<p>ELEMENT NO 3:</p> <p>DRAINAGE INSTALLATIONS</p> <p>Supply, install, test and commission the following:- PIPEWORK AND FITTINGS Prices for pipework shall include the cost for couplings, sockets, nipples, fixing brackets and plugs, (timber plugs not accepted) and jointing to fittings etc., including jointing's tapes, compounds etc., together with fixing pipe sleeves and the necessary builders work, all as required in the pipework installation.</p> <p>Allow in the rates for all necessary pipe fittings and accessories of the same manufacture including but not limited to adaptors, connectors, Tees, reducers, elbows, rodding access points, plugs and all pipe brackets, hangers and fixings as required for the satisfactory execution of the work and efficient completion and operation of the waste drainage system.</p>				
A	40mm diameter in complete with all necessary pipe fittings and accessories.	L.M.	6		
B	Ditto but 50mm Dia	L.M.	12		
C	Ditto but 100mm Dia	L.M.	12		
D	110mm diameter W.C connector complete.	NO.	1		
E	Gully trap chamber size 250 x 250mm, approximately 400mm deep in 150mm blockwork with cement mortar joints, on 150mm thick mass concrete slab and plastered inside for 100mm trap and hopper. 40mm thick, 250 x 250mm P.C.C cover to gully trap chamber and provided with 40mm ventilating hole.	NO.	1		
F	Inspection chambers not to exceed 1070 x 910mm and depth not to exceed 2000mm below finished floor or ground level. Wall thickness should be 150mm blockwork and it should have concrete base and rendered concrete benching 1:3:6 mix. The cover to be cast iron Grade "B" medium duty to BS 497 with double seal.	NO.	1		
G	Floor cleanouts including cover and well sealed screw chrome plated cover. All according to drawings and engineering approval. Size Dia 150mm	NO.	1		
	Total For Element No 3: Drainage Installation Carried To Summary				

GATE HOUSE WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	SANITARYWARE & EQUIPMENT	Page 59	
2	COLD WATER SUPPLY INSTALLATION	Page 60	
3	DRAINAGE INSTALLATIONS	Page 61	
	GATE HOUSE WORKS SUMMARY CARRIED TO MAIN SUMMARY		

GATE HOUSE WORKS SUMMARY			
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1	DEMOLITIONS	Page 44	
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9	MECHANICAL WORKS	MECHANICAL SUM	
	GATE HOUSE WORKS SUMMARY CARRIED TO MAIN SUMMARY		

BUILDERS WORKS

[illegible]

BUILDERS WORKS SUMMARY			
Item	Description		Amount (USD)
1	WARE HOUSE		-
2	WASHROOMS		-
3	GATE HOUSE		-
4	BUILDERS WORKS		-
	BUILDERS WORKS SUMMARY CARRIED TO MAIN SUMMARY		-

ELECTRICAL WORKS

Item	Description	Unit	Qty	Rate	Amount (USD)
1.0	SCHEDULE 1: PRELIMINARIES				
1.1	Mobilization/Demobilization. The contractor to individually and Individually List the price for the items	Ls	1		
1.2	Allow for contractors submission of drawings for conduit layout in both soft and 3 sets of hard copies in A1	Item	1		
1.3	Insurance, Bond and stamp duty, Protective Wear, Program of works, storage and attendance to meetings. The items MUST be separatetly listed and priced. The estimated project duration must be captured and attendance to site meetings based on per vist basis	Item	1		
1.4	Allow for production of working and as built drawings in both soft and hard copies in A1- 7No	Item	1		
1.5	Allow for sub contractors liaison with the following				
a	Kenya Power	Item	1		
b	Standby Generator Sub Contractor	Item	1		
c	CCTV Surveillance Subcontrcator	Item	1		
e	Plumbing and Drainage Subcontractor	Item	1		
f	Air conditioning Subcontractor	Item	1		
i	Borehole Subcontractor	Item	1		
j	Other Specialist Subcontractors requiring their input	Item	1		
1.5	Provisional Sum for removal of Rust and Reainting of the following				
a)	Distribution Board for Cold Sore	item	1		
b)	Switch Box for Sunction Fans	item	1		
c)	All Boards	item	1		
	Total Carried to summary page				

Item	Description	Unit	Qty	Rate	Amount (USD)
5.0:	SCHEDULE 5: LIGHT FITTINGS -SUPPLY ONLY				
5.1	Lighting fittings complete with lamps of appropriate wattage:-				
5.1.1	1400mm 36W Twin louvre fluorescent fitting with reflector as Philips or equivalent and to approval	No	35		
5.1.2	Solar Street Lighting Pole and Fittings	No	0		
5.1.3	Security Light Fitting	No	15		
5.1.4	Ball Fittings complete with 9 W energy savings lamp	No	30		
5.1.5	Maintained Double Sided LED Exit Light fittings Type EX with program complete with 6W lamp and minimum 3 hours emergency battery Kit as Philips or equivalent and approved	No	5		
5.1.6	18W LED downlight	No.	0		
5.1.7	300mm Strip Mirror Light with own switch	No	15		
5.1.8	Recessed Energy efficient high output , non corrosive polycarbonate housing and reflector Emergency Light fittings Type E complete with 3W lamp and minimum 3 hours emergency battery Kit as Philips or equivalent and approved	No	15		
5.1.9	Gate Lighs	No	4		
5.1.10	Outdoor pendant Light fitting	No	10		
5.1.11	40m High Mast Pole complete with Distribution, Control Panels, Wiring ,				
	LED 8 No 140W LED lights	No	2		
5.0	Garden Sport Light	No	5		
5.1,13	100W LED high bay luminaire made from extruded anodised aluminium as ECOLITE.	No	0		
5.2	5A white molded switch plate as CLIPSAL or equivalent and approved				
8.2.1	One gang one way	No	1		
8.2.2	One gang two way	No	1		
8.2.3	Two gang one way	No	2		
8.2.4	Two gang two way	No	1		
8.2.5	Three gang one way	No	2		
8.2.6	Three gang two way	No	3		
8.2.7	Four gang one way	No	2		
8.2.8	Four gang two way	No	2		
	Total Carried to summary page				

Item	Description	Unit	Qty	Rate	Amount (USD)
6.0	SCHEDULE 6.0: LIGHT FITTING - FIX ONLY				
6.1	Lighting fittings complete with lamps of appropriate wattage:-				
6.1.1	1400mm 36W Twin louvre fluorescent fitting with reflector as Philips or equivalent and to approval	No	35		
6.1.2	Solar Street Lighting Pole and Fittings	No	0		
6.1.3	Security Light Fitting	No	15		
6.1.4	Ball Fittings complete with 9 W energy savings lamp	No	30		
6.1.5	Maintained Double Sided LED Exit Light fittings Type EX with program complete with 6W lamp and minimum 3 hours emergency battery Kit as Philips or equivalent and approved	No	5		
6.1.6	18W LED downlight	No	0		
6.1.7	300mm Strip Mirror Light with own switch	No	15		
6.1.8	Recessed Energy efficient high output , non corrosive polycarbonate housing and reflector Emergency Light fittings Type E complete with 3W lamp and minimum 3 hours emergency battery Kit as Philips or equivalent and approved	No	15		
6.1.9	Gate Lights	No	4		
6.1.10	Outdoor pendant Light fitting	No	10		
6.1.11	40m High Mast Pole complete with Distribution, Control Panels, Wiring , LED 8 No 140W LED lights	No	2		
6.1.12	Garden Sport Light	No	5		
6.1.13	100W LED high bay luminaire made from extruded anodised aluminium as ECOLITE.	No	0		
6.2	5A white molded switch plate as CLIPSAL or equivalent and approved				
6.2.1	One gang one way	No	1		
6.2.2	One gang two way	No	1		
6.2.3	Two gang one way	No	2		
6.2.4	Two gang two way	No	1		
6.2.5	Three gang one way	No	2		
6.2.6	Three gang two way	No	3		
6.2.7	Four gang one way	No	2		
6.2.8	Four gang two way	No	2		
	Total Carried to summary page				

Item	Description	Unit	Qty	Rate	Amount (USD)
7.0	SCHEDULE 7: POWER WIRING - SUPPLY AND FIX				
7.1	Socket outlet points comprising of 2x2.5mm ² + 2.5mm ² e.c.c PVC/SC cu cables drawn in concealed 20mm diameter HG PVC conduit.	No	8		
7.2	Fan final sub-circuit comprising of 3x1.5mm ² + 2.5mm ² PVC/SC cu cables drawn in concealed 20mm diameter HG PVC conduit.	No	0		
7.3	Automatic hand drier sub-circuit comprising of 2x2.5mm ² PVC/SC cu cables drawn in concealed 25mm diameter HG PVC conduit.	No	4		
7.4	Air condition final sub-circuit comprising of 3x4.0mm ² single core PVC cu cables drawn in concealed 25mm diameter HG PVC conduit.	M	0		
7.5	Extract, exhaust and Industrial fans final subcircuit in 3x2.5mm ² PVC/SC cu. cables drawn in concealed 20mm diameter HG PVC conduit.	No	4		
7.6	Undersink kitchen water heaters sub-circuit comprising of 3x2.5mm ² PVC/SC cu cables drawn in concealed 20mm diameter HG PVC conduit.	No	0		
7.7	Telephone outlet point comprising of 25mm diameter HG PVC conduit and draw wire	No	4		
7.8	Data outlet point comprising of 25mm diameter HG PVC conduit and draw wire	No	4		
7.9	Television outlet points comprising of concealed 20mm diameter HG PVC conduit and draw wire.	No	2		
7.10	Solar heater sub-circuit comprising of 2x2.5mm ² + 2.5mm ² e.c.c PVC/SC cu cables drawn in concealed 20mm diameter HG PVC conduit.	No	2		
7.11	Dish Washer final sub-circuit comprising of 4x2.5mm ² + 2.5mm ² PVC/SC cu cables drawn in concealed 20mm diameter HG PVC conduit.	No	0		
7.12	Lift Motor final sub-circuit comprising of 16.0mm ² 4Core PVC cu cables drawn in concealed 25mm diameter HG PVC conduit.	M	0		
7.13	Cooker final sub-circuit comprising of 2x6.0mm ² +6.00mm ² e.c.c PVC/SC Cu. Cables drawn in 25mm diameter HG PVC conduit	M	0		

Item	Description	Unit	Qty	Rate	Amount (USD)
8.0	SCHEDULE NO. 8.0 - POWER FITTING - SUPPLY ONLY				
8.1	13A switched socket outlet as Schneider range or equivalent and approved				
8.1.1	Single	No	2		
8.1.2	Single but water proof	No	2		
8.1.2	Twin(Raw)	No	2		
8.1.3	Twin (Clean)	No	2		
8.2	Automatic hand drier as starmix or equivalent and approved	No	4		
8.3	20A DP switch complete with indicator as Schneider or equivalent and approved including for water pumps	No	4		
8.4	Extract fan as Xplair or equivalent and approved	No	4		
8.5	1400mm diameter fine speed fan compete with regulator as ORIENT or equivalent and approved	No	0		
8.6	45A Cooker control Unit as Clipsal or equivalent and approved compete with cooker connector.	No	0		
8.7	15A single switched socket outlet as Clipsal range or equivalent and approved.	No	0		
8.8	20A 2 gang double pole switch neon marked "Air Conditioner" as MEM or equivalent and approved	No	0		
8.9	Telephone outlet unit as Clipsal or equivalent and approved	No	4		
8.1	Television outlet unit as Clipsal or equivalent and approved	No	4		
8.11	Data outlet unit as Clipsal or equivalent and approved	No	4		
8.12	32A, 415V , 50HZ Isolator as Clipsal or Equivalent and approved	No	0		
8.13	63A, 415V , 50HZ Isolator as Clipsal or Equivalent and approved	No	0		
8.14	63A, 240V , 50HZ Isolator as Clipsal or Equivalent and approved	No	0		
8.2	Exhaust fan as Xplair or equivalent and approved	No	0		
8.2	Industrial fan as Xplair or equivalent and approved	No	0		
8.2	Wall fan as Xplair or equivalent and approved	No.	0		
8.2	Kitchen Hood as Von or equivalent and approved	No.	0		
8.19	50 x 200mm 3Compartment Galvanized Steel Trunking	M	0		
Total Carried to summary page					

Item	Description	Unit	Qty	Rate	Amount (USD)
9.0	SCHEDULE NO. 9.0 - POWER FITTING -FIX ONLY				
9.1	13A switched socket outlet as Schneider range or equivalent and approved				
9.1.1	Single	No	2		
9.1.2	Single but water proof	No	2		
9.1.2	Twin(Raw)	No	2		
9.1.3	Twin (Clean)	No	2		
9.2	Automatic hand drier as starmix or equivalent and approved	No	4		
9.3	20A DP switch complete with indicator as Schneider or equivalent and approved including for water pumps	No	4		
9.4	Extract fan as Xplair or equivalent and approved	No	4		
9.5	1400mm diameter fine speed fan compete with regulator as ORIENT or equivalent and approved	No	0		
9.6	45A Cooker control Unit as Clipsal or equivalent and approved compete with cooker connector.	No	0		
9.7	15A single switched socket outlet as Clipsal range or equivalent and approved.	No	0		
9.8	20A 2 gang double pole switch neon marked "Air Conditioner" as MEM or equivalent and approved	No	0		
9.9	Telephone outlet unit as Clipsal or equivalent and approved	No	4		
9.10	Television outlet unit as Clipsal or equivalent and approved	No	4		
9.11	Data outlet unit as Clipsal or equivalent and approved	No	4		
9.12	32A, 415V , 50HZ Isolator as Clipsal or Equivalent and approved	No	0		
9.13	63A, 415V , 50HZ Isolator as Clipsal or Equivalent and approved	No	0		
9.14	63A, 240V , 50HZ Isolator as Clipsal or Equivalent and approved	No	0		
9.15	Exhaust fan as Xplair or equivalent and approved	No	0		
9.16	Industrial fan as Xplair or equivalent and approved	No	0		
9.17	Wall fan as Xplair or equivalent and approved	No.	0		
9.18	Kitchen Hood as Von or equivalent and approved	No.	0		
9.19	50 x 200mm 3Compartment Galvanized Steel Trunking		0		
Total Carried to summary page					

Item	Description	Unit	Qty	Rate	Amount (USD)
10.0	SCHEDULE NO. 10.0 - FIRE ALARM				
10.1	DETECTION AND MONITORING -SULLY &FIX				
	WIRING				
10.1.1	Provisional Sum for testing and repairing Fire Alarm break glass (call), smoke and heatdetectors points wired in 1.5mm2 two core +screen fire retardant cable. To be measured and approved by the Engineer	Lot	1		
10.1.2	Ditto for Fire Alarm Sounder (Bell) points wired in 2.5mm2 two core +screen fire retardant cable	Lot	1		
	Total Carried to collection page				
10.2	EQUIPMENT				
10.2.3	Ditto for Analogue Addressable fire alarm control panel complete with standby batteries and printer	Lot	1		
10.2.4	Repeater Fire Alarm Control Panel	Lot	1		
10.3	Total Carried to collection page				
	FITTINGS				
10.3.1	Ditto for Addressable optical smoke detectors	Lot	1		
10.3.2	Ditto for Addressable Heat Detectors	Lot	1		
10.3.3	Ditto for Addressable resettable manual call (breakglass) points				
10.3.4	Addressable Electronic Sounder	No	1		
	Subtotal C/F to Collection Page				
	Subtotal C/F Wiring page 73A				
	Subtotal C/F Equipment page 73B				
	Subtotal C/F Fittings page 73C				
	Total Carried Forward to collection page				
11	SCHEDULE NO. 11.0 SIGNAGE				
15.1	Provide for all necessary labelling	Ls	1		
	Total Carried to summary page				
	Total Carried to summary page				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<u>SUMMARY OF PRICES</u>				
1.0	Schedule No. 1-PreliminariesPage 63				
2.0	Schedule No. 2 -Distribution Sub-Circuits - (Supply & Fix) -Page 64				
3.0	Schedule No. 3 - DB & (Supply and Fix) Page 65				
4.0	Schedule No. 4 -Lighting Wiring (Supply and Fix)Page 66				
5.0:	Schedule No. 5 :Lighting fitting - (Supply only).....Page 67				
6	Schedule No. 6 :Lighting fitting - (Fix only).....Page 68				
7.0	Schedule No. 7 Power Wiring -Supply and Fix.....Page 70				
8	Schedule No. 8.0 - Power Fitting -Supply Only.....Page 71				
9	Schedule No. 9.0 - Power Fitting -Fx Only.....Page 72				
10	Schedule No. 10- Wiring For Fire Alarm,Detection & Monitoring SystemPage 73				
11	Schedule No. 11 - Signage Page 74				
12.0	SUB-TOTAL 1				
13.0	Add Contingencies @ 5%				
19.0	Sub Total 2				
20	Add 16% VAT				
21	Total				

MECHANICAL WORKS

Item	Description	Unit	Qty	Rate	Amount (USD)
	ELEMENT NO 2: CHILLER ROOM				
	Supply, Install, Test and Commission the following Items as specified:				
A	Polyurethane Foam (PUF) Wall and Ceiling Panels Monolithic sandwich construction which is the most advanced, ensures best insulation and uniform structure. Cladding material inside and outside is Pre-painted Galvanized Iron (PPGI). Injected Density 42 Kg/m ³ Thermal conductivity 0.18 – 0.28 W/m ² k Modulus of Elasticity Kg/cm ² 40 – 70 Kg/cm ² Compression Strength Kg/cm ² 1.7 – 2.2 Kg/cm ² Breaking Elongation 5 – 10% Water Absorption 1.7 – 2.3 Δp/V Operation Temp -60 - +90C Overall size 6000X4000X3000mm	72	Sqm		
B	Tile /Epoxy Flooring Type (6000*400mm) civil screed and floor works	0	Sqm		
C	Insulated Sliding Door Type 80 mm thick Polyurethane Foam Heavy duty hardware, Gasket to seal off air leaks Safety Release Handle from inside for safety Size: 1800*900mm	1	No.		
2.0	Cooling Units				
	Condensing Unit				
D	Condensing Unit with open type compressor as BITZER model type LH84/4CC-6.2Y or equal and approved. Electrical power: 4.8 Kw, single phase, 240v 50Hz. Refrigerant to be R404A or any other non ozone depleting refrigerant.	2	No.		
E	Ceiling Mounted Evaporator Unit Evaporating Unit as SEARLE model DSR116-3 with Capacity 15.09 kW Fitted with 4No. number fans, size: 2320 x 1015x 266mm. Electrical power supply 0.64kW, single phase 240V 50Hz., single phase 240V 50Hz or equal and approved. Defrost power requirements 7.67kW, single phase 240V 50Hz., single phase 240V 50Hz	2	No.		
F	Control Panel Temperature Controls for Positive temperature applications with LED Indicator lights. Phase failure Prevention mechanism, High pressure\Low pressure control mechanisms Over current protection, Auto Defrost mechanism, Delay timer, Solenoid valves, Standard Control Panel equipped with Microprocessor based controller cum indicator along with required electrical / electronic components.	2	No.		
	Total Carried To Next Page				

Item	Description	Unit	Qty	Rate	Amount (USD)
	Total Brought Forward from Previous				
A	Thermostatic expansion valve complete with thermal bulb type "Danfoss"	1	No.		
B	Danfoss thermometer -400C - 500C	1	No.		
C	Danfoss drier.	1	No.		
D	Sight glass – Danfoss	1	No.		
E	Danfoss solenoid valve	1	No.		
F	Interconnecting pipework, insulation and fittings.	Item	Sum		
G	Lubricating oil for the compressor	Item	Sum		
H	Charge the system with R404A	Item	Sum		
E	Allow for application of an approved vapour barrier on the walls and water proofing of the floor to the satisfaction of the Engineer.	Item	Sum		
F	Supply and install a vapour-sealed bulkhead incandescent lighting fitting with suitably sized door operated switch complete with the associated wiring.	1	No.		
G	Allow for supports to the evaporator units using steel plates.	Item	Sum		
H	Allow for making and mounting the condensing unit on 100mm thick concrete plinth to Architects details.	Item	Sum		
I	Allow for the connection to electrical power supply from a local isolator.	Item	Sum		
J	Allow for any other item necessary for the installation	Item	Sum		
K	Allow for testing, commissioning and leaving it in good working condition.	Item	Sum		
	Total For Element No 2: Chiller Room Carried To Summary				

Item	Description	Unit	Qty	Rate	Amount (USD)
	<p align="center">ELEMENT NO 3: WATER RETICULATION</p> <p>Install, Test and Commission the following items complete as specified:PN-25 PP-R Pipes and Fittings (or similar equal and approved) to be used.</p> <p>PIPEWORK</p> <p>A 50mm diameter pipe L.M. 140</p> <p>B 32mm diameter pipe L.M. 80</p> <p>C 25mm diameter pipe L.M. 86</p> <p>D 50mm diameter high pressure screw-down full way non-rising stem solid wedge disc gate valve to BS 5154 PN 16 NO. 2</p> <p>E Ditto but 25mm NO. 3</p> <p>F Allow for Hose tap as Pegler OR equal and approved NO. 24</p> <p>G 100mm diameter (PVC Sleeve) L.M. 44</p> <p>H Excavate trench, including levelling, ramming bootoms, backfilling average 600mm deep L.M. 306</p> <p>IRRIGATION PUMP Head : 19M and Flow rate : 2.5m³/hr Complete with thermal cut out, isolating valves, automatic voltage stabilizer as Sollatek AVS13. Power supply 0.75kW, 1 phase 240v, 50hz, and " Pedrollo CPM 158" Easy small controller.</p> <p>I NO. 1</p> <p>J Allow for electrical works wiring and fitting to pumps, controls from Isolator provided by others. NO. 1</p> <p>Elevated Water Storage Tank Supply and install Glass Reinforced Plastic (GRP) sectional water tank to BS EN 13121-3 Tank size 3000 x 2000 x 2000mm nominal capacity 12,000 litres weighing and approximately 10500kg when empty complete with Tank plates, cover, plates flanges, cleats, stays, jointing compound, bolts washers internal and external tank ladders, perforations all internal and external connections to be instainless steel (No galvanize element will be accepted) and connections to:</p> <p>K a. 1No.32mm diameter inlet pipe connection. b. 1 No. 50 diameter outlet pipe connection. c. 100mm diameter wash-out pipe connection. d. 100mm diameter overflow pipe connection. Bolted insect and dust proofed all primed and Stainless steel cover having 500 x 500 lockable hinged access doors over water supply pipe entries and cat ladder position and placing in position.</p> <p>NO. 1</p>				
	Total For Element No 3: Water Reticulations Carried To Summary Page				

GENERAL MECHANICAL WORKS SUMMARY			
Item	Description	Page No	Amount (USD)
1	GENERAL ITEMS	Page 75	
2	CHILLER ROOM INSTALLATIONS	Page 77	
3	WATER RETICULATION	Page 78	
	GENERAL MECHANICAL WORKS SUMMARY CARRIED TO MAIN SUMMARY		

PRIME COSTS
&
PROVISIONAL SUMS

Item	Description	Unit	Rate	Amount (USD)
	<u>PRIME COST & PROVISIONAL SUMS</u>			
	<u>PRIME COST SUMS</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>The following Provisional Sums are to be measured on completion and priced accordance with the rates contained in these Bills of Quantities or pro-rata thereto or deducted in the whole if not required</u>			
A	Joinery fixture	sum		1,000.00
B	Biodigester	sum		3,300.00
C	External works upgrades	sum		15,500.00
1	Road Works. i. Identify all areas in the existing tarmac which are not consistent. ii. Cut into the tarmac in regular shapes to expose the subbases of the areas defined in item 1 above. iii. Recompact the subbase with cement and sand stabilization to make up levels iv. Application of K-160 v. Apply Asphalt concrete to a thickness similar to one at site to bond with existing vi. Once all areas have been patched up, you can road mark to demarcate parking and driveways vii. Repairing of all damaged road kerbs.			
2	Landscaping i. Importation of red soil ii. Importation of manure iii. Planting of weather resistant appropriate grass and other plants as will be described iv. Maintenance			
3	Boundary wall i. Wire brushing of existing boundary wall			
4	Storm drainage i. repairing and or enhancement of existing drainages			
	PRIME COST AND PROVISIONAL SUMS CARRIED TO SUMMARY			19,800.00

PROPOSED ALTERATIONS AND UPGRADES AT HCD KIBWEZI, MAKUENI COUNTY

GRAND SUMMARY



BILL	DESCRIPTION	AMOUNT (USD)
1	PRELIMINARIES	
2	BUILDERS WORKS	-
3	PRIME COST AND PROVISIONAL SUMS	
4	ELECTRICAL INSTALLATIONS	
5	MECHANICAL INSTALLATIONS	
	TOTAL	
	Add 10% contingency	
	TOTAL ESTIMATED COST (INCLUSIVE VAT)	