

**PROJECT: PROPOSED MZEE HENRY MEMORIAL
HOSPITAL**

EMPLOYER: MHMH LTD P.O BOX 106-10200 MURANG'A

**LOCATION: MAKUYU/ KIMORORI/ BLOCK IV/ 522,
MURANG'A COUNTY, KENYA**

DATE: 24TH APRIL, 2022

BILLS OF QUANTITIES

**PROJECT MANAGERS/
ARCHITECTS: CONCISE ARCHITECTS, P.O. BOX 66433-00800, TEL.: 254 020 3747152, NAIROBI, KENYA.**

**QUANTITY SURVEYORS: FINITE PROJECTS CONSULT LTD, P.O. BOX 14646-00100, TEL.: 254 725 242726 NAIROBI,
KENYA.**

**STRUCTURAL/CIVIL
ENGINEERS: COBEAM DESIGNS, P.O. BOX 657-00100, TEL.: 254 722 755142, NAIROBI, KENYA.**

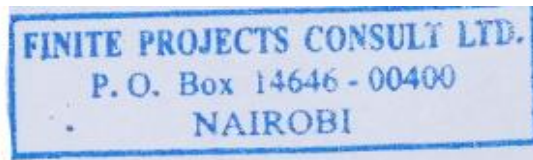
**ELECTRICAL/MECHANICAL
ENGINEERS: MECHATRONICS SYSTEMS LTD, P.O. BOX 14163-00100, TEL.: 254 729 624513, NAIROBI,
KENYA.**

MAIN SUMMARY

PROJECT: PROPOSED MZEE HENRY MEMORIAL HOSPITAL
EMPLOYER: MHMH LTD P.O BOX 106-10200 MURANG'A
LOCATION: MAKUYU/ KIMORORI/ BLOCK IV/ 522, MURANG'A COUNTY, KENYA
DATE: 24TH APRIL, 2022

MAIN SUMMARY

BILL NO.	DESCRIPTION	PAGE NO.	AMOUNT (KES.)
1	PRELIMINARIES	1/27	1,626,500
2	HOSPITAL BUILDING	2/S	71,298,236
3	EXTERNAL WORKS	5/S	6,985,950
TOTAL AMOUNT (INCLUSIVE OF VAT)			79,910,686

Signature of Employer

Signature of the Contractor

Witness: _____

Witness: _____

Date:

Date:

G/S

BILL NO.1
PRELIMINARIES

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p><u>BILL NO.1</u></p> <p><u>GENERAL PRELIMINARIES</u></p> <p><u>PRICING OF ITEMS OF GENERAL PRELIMINARIES</u></p> <p>A Whenever in this Bill No.1, the contractor does not insert his price against an item, the value of such items will be held to be included in his rates for all items in the following Bills of Quantities</p> <p>B Sufficiency of Tender 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 Bills of Quantities which rates and prices shall cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.</p> <p>PRELIMINARY PARTICULARS</p> <p>C Definition of Terms Whenever used hereinafter and in all contract documents the following definitions of terms shall apply:- Employer: The term "Employer" shall mean MHMH LTD, P.O BOX 106-10200, NAIROBI - KENYA.</p> <p>Project Managers: The term "Project Managers" shall mean</p> <p>Quantity Surveyor: The term "Quantity Surveyor" or "Surveyor" shall mean</p> <p>Civil/Structural Engineer: The term "the Civil/Structural Engineer" shall mean who will be deemed vested with the authority of the Architect in respect of the quality and sufficiency of materials and workmanship in connection with reinforcement concrete and other structural matters but not in respect of variations or any other matters which in any way affect the Contract Sum</p> <p>Mechanical Engineer: The term "Mechanical Engineer" shall meanwho will be deemed vested with the authority of the Architect in respect of the quality and sufficiency of materials and workmanship in connection with mechanical installations but not in respect of variations or any other matters which in any way affect the Contract Sum.</p> <p>Electrical Engineer: The term "Electrical Engineer" shall mean who will be deemed vested with the authority of the Architect in respect of the quality and sufficiency of materials and workmanship in connection with electrical installations but not in respect of variations or any other matters which in any way affect the Contract Sum.</p> <p>Works: The term "the works" shall mean all or any portions of the work, materials and articles whether the same are being manufactured or prepared, which are to be used in the execution of this Contract and whether the same be on the Site of the building or not.</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)																																				
	<p>Contract: The term "The Contract," shall mean the Tender, Articles of Agreement and Conditions of Contract, Form of Bond, Drawings and prices and signed Tender Document.</p> <p>Contract Drawings: The term "the Contract Drawings" shall be deemed to imply the Drawings referred to in these Bills of Quantities.</p> <p>Site: The term "the Site" shall mean the lands and other places on, under or through which the works are to be executed or carried out and any other lands or places provided by the Employer for the purposes of the Contract.</p> <p>Approved, Directed and Selected: The terms "approved", "directed" and "selected" shall mean the approval, direction and selection of or by the Project Manager.</p> <p>Singular and Plural: Words importing the singular shall also include the plural and vice versa where the context requires.</p> <p>A Meaning of Abbreviation</p> <p>The Terms and Abbreviations used in this Bills of Quantities shall be interpreted as follows:-</p> <table border="0" data-bbox="248 808 1258 1648"> <tr> <td data-bbox="248 808 406 913">"B.S"</td> <td data-bbox="406 808 617 913">shall mean</td> <td data-bbox="617 808 1258 913">The current British Standard of Specification published by the British Standard Institution, Park Street, London, W.1 England</td> </tr> <tr> <td data-bbox="248 913 406 966">"NO."</td> <td data-bbox="406 913 617 966">shall mean</td> <td data-bbox="617 913 1258 966">Number</td> </tr> <tr> <td data-bbox="248 966 406 1018">"L.M"</td> <td data-bbox="406 966 617 1018">shall mean</td> <td data-bbox="617 966 1258 1018">Linear Meter</td> </tr> <tr> <td data-bbox="248 1018 406 1071">"KG"</td> <td data-bbox="406 1018 617 1071">shall mean</td> <td data-bbox="617 1018 1258 1071">Kilogram</td> </tr> <tr> <td data-bbox="248 1071 406 1123">"M"</td> <td data-bbox="406 1071 617 1123">shall mean</td> <td data-bbox="617 1071 1258 1123">Linear Meter</td> </tr> <tr> <td data-bbox="248 1123 406 1176">"S.M"</td> <td data-bbox="406 1123 617 1176">shall mean</td> <td data-bbox="617 1123 1258 1176">Square Meter</td> </tr> <tr> <td data-bbox="248 1176 406 1228">"C.M"</td> <td data-bbox="406 1176 617 1228">shall mean</td> <td data-bbox="617 1176 1258 1228">Cubic Meter</td> </tr> <tr> <td data-bbox="248 1228 406 1417">"Ditto"</td> <td data-bbox="406 1228 617 1417">shall mean</td> <td data-bbox="617 1228 1258 1417">The whole of the preceding description except as qualified in the section in which it occurs. Where it occurs in brackets, it shall mean the whole of the proceeding description which is contained within the appropriate.</td> </tr> <tr> <td data-bbox="248 1417 406 1470">"M.S"</td> <td data-bbox="406 1417 617 1470">shall mean</td> <td data-bbox="617 1417 1258 1470">Measured separately</td> </tr> <tr> <td data-bbox="248 1470 406 1522">"BSM"</td> <td data-bbox="406 1470 617 1522">shall mean</td> <td data-bbox="617 1470 1258 1522">Both sides measured</td> </tr> <tr> <td data-bbox="248 1522 406 1575">"P.C"</td> <td data-bbox="406 1522 617 1575">shall mean</td> <td data-bbox="617 1522 1258 1575">Prime Cost</td> </tr> <tr> <td data-bbox="248 1575 406 1648">"P.S"</td> <td data-bbox="406 1575 617 1648">shall mean</td> <td data-bbox="617 1575 1258 1648">Provisional Sums</td> </tr> </table>	"B.S"	shall mean	The current British Standard of Specification published by the British Standard Institution, Park Street, London, W.1 England	"NO."	shall mean	Number	"L.M"	shall mean	Linear Meter	"KG"	shall mean	Kilogram	"M"	shall mean	Linear Meter	"S.M"	shall mean	Square Meter	"C.M"	shall mean	Cubic Meter	"Ditto"	shall mean	The whole of the preceding description except as qualified in the section in which it occurs. Where it occurs in brackets, it shall mean the whole of the proceeding description which is contained within the appropriate.	"M.S"	shall mean	Measured separately	"BSM"	shall mean	Both sides measured	"P.C"	shall mean	Prime Cost	"P.S"	shall mean	Provisional Sums	
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ITEM	DESCRIPTION	AMOUNT (KES.)
<p>A</p>	<p>Standard Measurements</p> <p>The whole of the Works contained in these Bills of Quantities is measured on the basis of the Standard Method of Measurements of the Building and Associated Civil Works for East Africa, prepared by the Architectural Association of Kenya, Second Edition, Metric, printed in June 2008.</p> <p>All dimensions and measurements, etc., shown on the Drawings and given in the Bills of Quantities are in metric.</p>	
<p>B</p>	<p>Bills of Quantities</p> <p>The Bills of Quantities shall be read in conjunction with the Instructions to Bidders, General Conditions of Contract and Special Conditions of Contract, Technical Technical Specifications, and Drawings.</p> <p>The quantities given in the Bills of Quantities are estimated and provisional, and are given so as to provide a common basis for bidding. The basis of payment shall be the actual quantities of works ordered and carried out, as measured by the Contractor and verified by the Project Manager and valued at the rates and prices bid in the priced Bills of Quantities, where applicable and otherwise at such rates and prices as the Project Manager may fix within the terms of the Contract.</p> <p>The rates and prices in the priced Bills of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials,erection, maintenance, insurance, profit, taxes, and duties, together with all general risks, liabilities,and obligations set out or implied in the Contract.</p> <p>A rate or price shall be entered against each item in the priced Bills of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bills of Quantities.</p> <p>The whole cost of complying with the provisions of the Contract shall be included in the Items provided in the priced Bills of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.</p> <p>General directions or descriptions of works and materials are not necessarily repeated nor summarized in the Bills of Quantities. References to the relevant sections of the Contract documentation shall be made before entering prices against each item in the priced Bills of Quantities.</p> <p>Provisional Sums, Contingency and Provisions for Dayworks included and so designated in the Bills of Quantities shall be expended in whole, in part or not at all at the direction and discretion of the Project Manager in accordance with the relevant provisions in the Contract.</p> <p>Errors in the priced Bills of Quantities will be corrected by the Employer for any arithmetic errors in computation or summation as follows:</p> <p>(a) where there is a discrepancy between amounts in figures and in words, the amount in words will govern; and</p>	<p>TO SUMMARY</p>

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>(b) where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit price and the quantity, the unit rate quoted shall govern unless if in the opinion of the Employer, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected</p> <p>Rock is defined as all materials that, in the opinion of the Project Manager, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal and that cannot be extracted by ripping with a tractor of at least 150 brake hp with a single, rear-mounted, heavy-duty ripper.</p> <p>A Correction of Errors</p> <p>Tenders determined to be substantially responsive will be checked by the Client for any arithmetic errors. Errors will be corrected by the Client as follows:</p> <ul style="list-style-type: none"> (a) where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and (b) where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Client there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern, and the unit rate will be corrected. <p>The amounts stated in the Tender will be adjusted by the Client in accordance with the above procedure for the correction of errors and with the concurrence of the Tenderer, shall be considered as binding upon the Tenders. If the Tenderer does not accept the corrected amount, the Tender will be rejected, and the Tender Security may be forfeited.</p> <p>B Location of and access to the site: The site is situated on LR. NO. MAKUYU/ KIMORORI/ BLOCK IV/522, MURANG'A COUNTY, KENYA.</p> <p>The Contractor is recommended to visit the Site and shall be deemed to have acquainted himself therewith as to its nature and position and means of access, etc. and no claim in this connection shall be allowed.</p> <p>No claim will be allowed for traveling or other expenses which may be incurred by the Contractor in visiting the Site for the Tender for the Works.</p> <p>C Limitations of the site:</p> <p>The site of the works shall be used solely for the purposes of executing and completing the Contract to the satisfaction of the Project Manager.</p> <p>The Contractor shall make every effort to avoid, and in any event shall be liable for, any undue disturbance amounting to nuisance to the occupiers of the contiguous properties by reasons of noise, dust, traffic and the like or by neglect to control his workmen or materials.</p> <p>Normal working hours shall be within the period 0730 to 1700 hours daily.</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>The Contractor shall prevent disturbance and nuisance by himself, his sub contractors or his agents and employees, to any persons using any areas of the nearby structures which are not specifically a part of the Contractor's working area, and shall be liable for any damage caused by such disturbance and nuisance. In this regard the Project Manager shall have the power to order the removal from the site of any employee of the Contractor and his sub contractors, causing any disturbance or nuisance, provided such order is not vexatious.</p> <p>The Contractor shall comply with all reasonable instruction of the Project Manager with regard to restriction of movement of himself, his sub contractors, agents and employees in areas of the site other than those areas necessary for the carrying out of the works.</p> <p>A Preliminary investigation of the site</p> <p>The Contractor shall visit the site and carry out an inspection of the site and its surroundings prior to submission of tenders. No claim for extra payment whatsoever shall be entertained as a result of the Contractor's failure to make allowance in his tender for costs arising in connection with site conditions of which the Contractor ought reasonably to be aware following the site visit and inspection.</p> <p>B Materials excavated from the site</p> <p>All sand ballast and other building materials and any other objects found on the site or produced as a result of the building operations shall remain the property of the Employer. Such materials may be utilized in the execution of the Contract only with the written consent of the Project Manager. The quantities so used shall be measured and the value assessed by the Quantity Surveyor and deducted from the Contract Sum.</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)
A	General description of the works	
	The Works to be carried out under this contract comprises PROPOSED MZEE HENRY MEMORIAL HOSPITAL . The work comprises the following:-	
		TO SUMMARY

ITEM	DESCRIPTION	AMOUNT (KES.)
CONTRACT PARTICULARS		
A	Form of Agreement and Conditions of Contract	
	The form of contract under which terms the Contractor will be required to enter into a contract with the Employer is contained in, Part 3, Section 7 - 9 of the Standard Bidding Documents.	
B	Conditions of Contract	
	If the Contractor considers that compliance with any of the Conditions of Contract as particularly amended or qualified by the Special Conditions of Contract and of which headings are set out hereunder involve expenses to him which are not included elsewhere in his prices, he shall set down opposite any such condition the value he attaches thereto:	
	GENERAL CONDITIONS OF CONTRACT	
	A. General	
	1 Definitions	
	2 Contract Documents	
	3 Interpretation	
	4 Language	
	5 Joint Venture, Consortium or Association	
	6 Eligibility	
	7 Notices	
	8 Governing Law	
	9 Scope of the works	
	10 Project Manager's Decisions	
	11 Delegation	
	12 Subcontracting	
	13 Other Contractors	
	14 Contractor's Personnel	
	15 PDE's & Contractor's Risks	
	16 PDE's Risks	
	17 Contractor's Risks	
	18 Insurance	
	19 Site Investigation Reports	
	20 Queries About the Special Conditions of Contract	
	21 Contractor to Construct the Works	
	22 Works to be Completed by the Intended Completion Date	
	23 Approval by the Project Manager	
	24 Safety & Safety Procedures	
	25 Discoveries	
	26 Possession of the site	
	27 Access to the Site	
TO SUMMARY		

ITEM	DESCRIPTION	AMOUNT (KES.)
	28 Contractor's Equipment	
	29 Protection of the Environment	
	30 Prohibition of Harnful Child Labour	
	31 Health & Safety	
	32 Instructions, Inspection & Audits	
	33 Disputes	
	34 Procedures for settling Disputes	
	35 Replacement of Adjudicator	
	B. Time Control	
	36 Program	
	37 Extension of the Intended Completion Date	
	38 Acceleration	
	39 Delays Ordered by the Project Manager	
	40 Management Meetings	
	41 Early Warning	
	C. Quality Control	
	42 Identifying Defects	
	43 Tests	
	44 Correction of Defects	
	45 Uncorrected Defects	
	D. Cost Control	
	46 Bill of Quantities or Activity Schedule	
	Option 1: Admeasurement Contracts - Bill of Quantities	
	Option 2: Lumpsum Contracts - Activity Schedule	
	47 Changes in the Bill of Quantities or Activity Schedule	
	Option 1: Admeasurement Contracts - Changes in the Bill of Quantities	
	Option 2: Lumpsum Contracts - Changes in the Activity Schedule	
	48 Variations	
	Option 1: Admeasurement Contracts - Variations	
	Option 2: Lumpsum Contracts - Variations	
	49 Payment for Variations	
	Option 1: Admeasurement Contracts - Payment for Variations	
	Option 2: Lumpsum Contracts - Payment for Variations	
	49 Payment for Variations	
	50 Payment Certificates	
	51 Issue of Interim Payment Certificates	
	52 Payments	
	53 Compensation Events	
	54 Tax	
	55 Currencies	
		TO SUMMARY

ITEM	DESCRIPTION	AMOUNT (KES.)
	56 Price Adjustment 57 Retention 58 Liquidated Damages 59 Bonus 60 Advance Payment 61 Performance Security & ES Performance Security 62 Day Works 63 Cost of Repairs E. Finishing the Contract 64 Completion 65 Taking Over 66 Final Account 67 Operating and Maintenance Manuals 68 Termination 69 Payment upon Termination 70 Release from Performance GENERAL MATTERS A Plant, Tools and Vehicles The Contractor shall be responsible for the provision of all plant, tools and vehicles and workmen required for the Works except in so far as may be stated otherwise herein or except for such items specifically and only required for the use and provided by Nominated Subcontractors as described herein. No timber used for scaffolding, formwork or similar purposes shall be used afterwards in the permanent work. B Safety, health and Welfare of the work people The Contractor shall be responsible for and shall ensure the safety and welfare of his work people, and those of his Subcontractors, Nominated Subcontractors, Nominated Suppliers and persons employed directly by the Employer. Allow for providing and maintaining on the site adequate medical facilities and approved first aid equipment kept fully replenished and in an accessible position.	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Notices and Fees</p> <p>The Contractor shall give all notices in accordance with Clause 6 of the Conditions of Contract.</p> <p>The Contractor shall pay all fees and charges required under Clause 6 of the Conditions of Contract. The amount of all such fees and charge shall be deemed to be included in the Contract Sum.</p> <p>Those in respect of the following items are included elsewhere in this Document if applicable to the Works.</p> <p>Rates on temporary buildings hoardings temporary telephones water for the works works to be carried out by Local Authorities or Statutory Undertakings.</p>	
B	<p>Setting out the works</p> <p>The Contractor shall set out the Works in accordance with the dimensions and levels shown on the Drawings and shall be responsible for the correctness of all dimensions and levels so set out by him and will be required to amend all errors arising from inaccurate setting out at his own cost and expense. In the event of any error or discrepancy in the dimensions or levels marked on the Drawings being discovered such errors or discrepancies must be reported by the Contractor to the Project Manager for his immediate attention.</p> <p>No work shall be commenced by the Contractor until he has received written instructions from the Project Manager to adjust such discrepancies which may be proved. Upon receipt of such instructions the Contractor shall there upon be responsible for the accurate setting out of the works, giving effect to the adjustments necessary to comply with such instructions, and no claim for extra expense or relief from the provision of the Conditions of Contract based on any discrepancy or error in the dimensions or levels shown on the Drawings may be made thereafter.</p>	
C	<p>Contractor's Supervision and Site Administration</p> <p>The Contractor shall provide full and adequate supervision during the progress of the works and shall keep a competent and authorized Agent or General Foreman, approved by the Project Manager (which approval may be withdrawn at any time) constantly on the works. Such authorized Agent or General Foreman shall give his whole time to the supervision of the works and must be able to receive and act upon (on behalf of the Contractor) all instructions, directions, or orders issued by the Project Manager or his representative.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Working Hours</p> <p>The Works shall be executed under the direction and to the entire satisfaction of the Project Manager, who shall at all times during normal working hours have access to the Works and to the yards and the workshops of the Contractor and Sub-Contractors or other places where work is being prepared for the Contract.</p> <p>The working hours shall be those generally worked by good employers in the Building and Civil Engineering Trade in Uganda. No work shall be carried out at night or on the gazetted holidays unless the Engineer shall so direct.</p> <p>No work shall be covered up nor shall any concreting be carried out in the absence of the Clerk of Works without the prior approval of the Project Manager in writing.</p>	
B	<p>Employer's Supervision</p> <p>The said Works shall be executed under the direction and to the entire satisfaction of the Architect, who shall at all times during normal working hours have access to the Works and to the yards and the workshops of the Contractor and Sub-Contractors or other places where work is being prepared for the Contract.</p> <p>No work shall be 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.</p>	
C	<p>Labour and fair wages</p> <p>The Contractor shall provide all labour and shall include for all costs arising from the current Government regulations regarding annual leave and passages, medical facilities, public holidays, overtime, training levy, income tax, housing, travelling allowances, wages and salaries, and any other statutory requirement current at the date of tender.</p> <p>The Contractor shall pay rates of wages and observe hours and conditions of labour not less favourable than the minimum rates of remuneration and minimum conditions of employment applicable in the district in which the work is carried out as laid down by the Regulations of Wages and Conditions of Employment Act, Building and Construction Industry Wages Council. The relevant notice must be kept posted upon the site where it can be conveniently read by the employees concerned.</p>	
D	<p>Training Levy</p> <p>The Contractor's attention is called to the requirement for payment by the Contractor of a training Levy and the Contractor should allow in the Preliminaries of this Contract for all costs arising or resulting therefrom.</p>	
E	<p>Watching and Lighting</p> <p>The Contractor shall provide all watching and lighting and everything else necessary by day and night for the due protection and Security of the Works and the public and other persons.</p> <p>He shall provide all barriers, notices, watchman to prevent access of unauthorized persons into the site.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>The Contractor will be liable for all consequences of theft from the site of his own or Subcontractors or Suppliers materials or equipment. Any such theft will not relieve the Contractor of his liability for completion time.</p> <p>A Maintenance of public and private roads and services</p> <p>The Contractor shall be, responsible for all damage to roads, (whether public or private), crossover, services and the like arising out of, or in the course of, or by reason of, the execution of the works and shall be responsible for observing any by laws or other regulations imposed by a competent authority regarding the keeping of such roads free from mud, filth, etc, arising as aforesaid.</p> <p>Prior to the commencement of any Work, the Contractor is to ascertain from the relevant Authorities the exact position, depth and levels of all existing electric cables, water pipes or other services in the area and he shall make whatever provisions that may be required by the Authorities concerned for the support and protection of such services. Any damage or disturbance caused to any service shall be reported immediately to the Project Manager and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.</p> <p>B Police regulations</p> <p>The Contractor shall at all times observe any police regulations including those regarding the loading or unloading or any waiting by vehicles on the public highway and the Contract Sum shall be deemed to include for strictly compliance therewith.</p> <p>C Progress chart and progress reports</p> <p>Immediately after signing the Contract, the Contractor is to prepare a time and progress chart showing the time and order in which he proposes to carry out the works within the total construction time stated in the Contract. The chart shall show in detail the construction time and order in which each section of the work is to be carried out and be subdivided into trades or tasks. Where the Contract is made up of individual buildings a separate chart shall be provided for each.</p> <p>Upon the letting of Subcontracts the Contractor is to incorporate similar times and details of each separate Subcontractor's work (which information is to be provided by the Subcontractor) and the chart shall be so designed to accommodate this information.</p> <p>At the end of each week, the Contractor is to mark on the chart, in a different colour, the actual time taken to complete the respective stages and sections of the work.</p> <p>The Contractor shall also show upon the chart the anticipated weekly labour strength required upon the site (divided into labourers and craftsmen) and shall similarly mark up the actual numbers employed.</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>Copies of the completed chart are to be supplied to the Project Manager and Quantity Surveyor.</p> <p>If the Project Manager decides that progress does not match the programme, he may order the Contractor to revise the programme. The Contractor shall thereafter revise the programme to show the modifications necessary to ensure completion of the works by the Date of Practical Completion.</p> <p>The Project Manager shall notify the Contractor if the Project Manager decides that the rate of progress of the works or any section, is too slow to meet the Date of Practical Completion and that this is not due to a circumstance for which the Contractor is entitled to an extension of the time under the Contract.</p> <p>Following receipt of such a notice, the Contractor shall take such steps as may be necessary, and as the Project Manager may approve, to remedy or mitigate the likely delay, including revision of the programme. The Contractor shall not be entitled to any additional payment for taking such steps.</p> <p>Before the 25th day of each month the Contractor shall submit a monthly progress report in triplicate to the Project Manager indicating the months progress and giving details of any delays caused by inclement weather or other reasons beyond his control. The report must include information on labour employed, and the progress of all trades, including Nominated Subcontractors.</p> <p>A Site Progress Photographs</p> <p>The Contractor shall take and develop (in both digital and still form) site progress photographs every two weeks.</p> <p>Adequate copies shall be made for distribution to the Employer (1 No.) and the Consultants (1 No.)</p> <p>B Checking schedules, drawings, etc.</p> <p>The Contractor shall be responsible for checking all schedules and drawings supplied by the Project Manager and all shop drawings approved by the Project Manager. In the event of any discrepancy being found between such schedules and drawings or if the contractor considers that additional detailed drawings are required, then in either case the Contractor shall report such discrepancy to the Project Manager for instruction or apply in writing for such detail at least 28 days before the works concerned are to be executed. The Contractor shall ascertain from the drawings or otherwise any holes, recesses, plugs, etc, which may be required in time to form these as the works proceed. No extra payment will be allowed for cutting or forming such holes, recesses, or plugging, subsequently.</p> <p>The Contractor's attention is drawn to the requirements for the submission of samples, shop drawings, certificates and guarantees contained in previous or subsequent items of this document.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
<p>A</p> <p>Samples</p> <p>Samples of proposed materials and workmanship shall, if required by the Project Manager, be submitted for approval, and those samples will be left on site. The Project Manager shall have power to reject all such materials and condemn such workmanship that does not correspond with the approved sample.</p> <p>B</p> <p>Tests</p> <p>The Project Manager may, whenever he considers it desirable, test any materials before they leave the maker's premises as well as after delivery on the site, and the Project Manager shall be at liberty to reject any materials after delivery should he consider them unsatisfactory, notwithstanding the preliminary test and approval of the materials at the maker's premises. The costs of these tests are to be borne by the Contractor.</p> <p>When directed by the Project Manager, samples of materials (the samples being taken by approved sampling methods) are to be supplied by the Contractor for laboratory tests and shall be delivered by the Contractor at his own cost to the Project Manager's office or as otherwise directed.</p> <p>The Contractor shall, whenever so instructed by the Project Manager, cut out sections of work executed or samples of materials incorporated therein and shall deliver them where directed for purpose of testing.</p> <p>All work disturbed shall be made good forthwith by the Contractor. All costs incurred in cutting out, making good and delivering as aforesaid, shall be borne by the Contractor unless the result of the test shows that the materials etc., are in accordance with the Contract.</p> <p>C</p> <p>Geotechnical and Structural Integrity tests</p> <p>Allow for geotechnical and structural integrity tests to be carried out after demolition and striping of the building.</p> <p>D</p> <p>Proprietary Articles</p> <p>Where proprietary articles are specified herein, the Contractor may propose the use of materials of equal quality but from the other manufacturers with the approval of the Project Manager, but the decision of the Project Manager will be final.</p> <p>E</p> <p>Disposal of water for all sections of the works</p> <p>Allow for keeping the site and buildings free from water arising from whatsoever cause.</p> <p>The Contractor shall notify the Project Manager as soon as water percolation or water-logging becomes apparent and he shall obtain the written permission of the Project Manager before carrying out any continuous pumping or other method of removal of water which may lower the water level on adjoining sites.</p> <p>The Contractor shall ensure that no nuisance is caused by the outfall of pumped water and shall obtain the necessary permission before connecting temporary drainage to existing drains and/or sewers. Any fees and charges in connection with such work shall be deemed to be included in the Contract Sum.</p>		
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Site levels</p> <p>Before commencing work the Contractor must arrange for and agree with the Project Manager and Quantity Surveyor the existing site levels and similarly establish and agree a bench mark.</p> <p>The levels and bench mark thus agreed will then be used for the duration of works for all purposes.</p>	
B	<p>Interruption of work</p> <p>The Contractor shall allow herein for all costs incurred by the interruption of work owing to public parades, processions and the like.</p>	
C	<p>Overtime</p> <p>The Contractor shall allow in his tender for any extra costs for overtime working he considers will be necessary in order to complete the work by the Contract Date for Completion.</p> <p>If during the course of the Contract overtime is worked for a specific purpose in accordance with a written instruction issued by the Project Manager, the Contractor will be reimbursed in respect of such overtime to the extent only of the additional net cost of unproductive time payable over and above the basic hourly rates as laid down in the regulations affecting the wages and conditions of employment, etc. in the construction industry but excluding any bonuses, profit and overheads.</p>	
D	<p>Housing labour on the site and transport</p> <p>No labour, with the exception of watchmen, may be housed on the site and the Contractor must allow for all costs in moving labour to and from the site at such times and by routes approved by the Police and Local Authorities.</p>	
E	<p>Area to be occupied by the Contractor</p> <p>The area of the site which may be occupied by the Contractor for use as storage and for the purpose of erecting workshops, etc., shall be agreed between the Project Manager and the Contractor.</p>	
F	<p>Stamp Charges</p> <p>Allow for paying all stamp charges in connection with the Surety Bond and the Contract Agreement</p>	
G	<p>Details to be private and Confidential</p> <p>The Drawings, Bills of Quantities and Contract Documents applicable to this contract are restricted by copyright.</p> <p>The Contractor shall treat the details of this Contract as private and confidential for his own information only and shall not publish or disclose the details of the Contract in any trade or technical paper or elsewhere (except as necessary for the purpose hereof) without the previous consent in writing of the Employer.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>TEMPORARY WORKS</p> <p>A Water for the Work The Contractor shall at his own expense provide on the site a plentiful supply of piped clean water for use of the works.</p> <p>The Contractor shall also provide and install all necessary temporary services, pipe runs, cocks, storage, etc, that may be required and connect up the temporary services at such point or points and in such a manner as may be approved by the Project Manager. The Contract Sum shall be deemed to include for all fees and charges and for all temporary services and clearing away on completion, and for the cost of all water used for the works.</p> <p>B Temporary lighting and power for the works The Contractor shall provide all artificial lighting, electric power and the energy required for the execution of the work. The provision of light and where appropriate, power for Nominated Subcontractors, Local Authorities is included in the items of general and special attendance in Provisional and P.C. Sums.</p> <p>The Contract sum shall be deemed to include for all fees and charges for all temporary services and clearing away on completion, and for the cost of electricity consumed for the works.</p> <p>C Protection of Persons and Property The Contractor shall provide for the efficient protection of the public, the Employer's servants and property and all other persons occupying or using the premises, also of adjoining or neighbouring property during the progress of the works included in or required to be done in connection with the Contract.</p> <p>The Contractor shall take all precaution to eliminate as far as possible the danger to the public and other persons arising from the entry and exist of vehicles to and from the site.</p> <p>D Trespass and nuisance All reasonable means shall be used to avoid inconveniencing adjoining owners and occupiers. No workmen or plant employed on the works shall be allowed to trespass upon adjoining properties. If the execution of the works requires that workmen or plant must enter upon adjoining property, the necessary permission shall be first obtained by the Contractor who shall see that these instructions are carried out. The Contractor shall indemnify the Employer against any claim or action for damages on account of any trespass or other misconduct of the Contractor's employees.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>The Contractor shall not obstruct any public way or otherwise do or suffer to be done anything which may amount to a nuisance or annoyance, and shall not interfere with any right of way or right to adjoining property, and any notice received by him or left upon the site requiring the discontinuance or suspension of any part of the works shall at once be forwarded by him to the Project Manager or, if given verbally, shall at once be communicated by him to the Project Manager in writing, and the Contractor shall keep the Employer indemnified against any claim or loss consequent upon any act, neglect or omission of the Contractor, his agents, servants or workmen in this respect.</p>	
A	<p>Visitors to the site</p> <p>The Contractor is required to control all visitors to the Site and to keep out unauthorized visitors and to provide a visitor's book and ensure that all the unauthorized visitors sign therein.</p>	
B	<p>Temporary works generally</p> <p>The Contractor shall provide all temporary roads, tracks, hard standings, crossing and the like to ensure satisfactory and efficient access to the works. The cost of such temporary works shall be deemed to be included in the Contract Sum.</p>	
C	<p>Temporary roads</p> <p>Prior to execution of such temporary works the Contractor shall submit his proposals to the Project Manager for approval.</p>	
D	<p>Temporary buildings for use by the Contractor</p> <p>The contractor shall, at his own cost, supply and erect all temporary buildings, sheds, mess rooms and stores with floors at least 150mm about ground level. No office, stores or other temporary buildings shall be erected on the site without first obtaining the consent of the Project Manager as to the type of temporary building to be supplied and the position in which they are to be erected.</p> <p>The contractor shall provide and maintain on the Site, ample weatherproof sheds for storage of cement and other perishable materials and shall clear the same away on completion and make good any disturbed surfaces.</p>	
E	<p>Temporary latrines</p> <p>Temporary latrines shall be provided, maintained and removed on completion by the Contractor to the satisfaction of the Project Manager and Local Authorities.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Temporary facilities for use by persons acting on behalf of the Employer</p> <p>The Contractor shall provide, erect and maintain where directed on Site approved weatherproof lockup offices for the sole use of the Project Manager and support staff comprising of the following: Project Manager's office floor area not less than 10 square metres, Employer Site Representative office floor area not less than 10 square metres, Project Manager support staff and clerk of works offices of not less than 24sm, a meeting room of not less than 12SM. The office shall be constructed with concrete or wooden floor while the walls shall either be in timber lined internally with fibreboard or in plastered and painted masonry. The ceiling shall be lined with fibre board. Glazed windows shall be provided of not less than 1 metre square area in each room and the doors shall have a strong lock or fastening. The office shall be provided with artificial lighting and electric power. The Contractor shall also provide Five (5No) desks with lockable drawers and furniture for the Project Manager and employer Representative, 2No. desks and Furniture for the Project Manager support staff and clerk of works and 1No. office table of sufficient size to carry drawings, and adequate to sit at least 20 people for the meeting room. The contractor shall allow for regular cleaning of the office.</p> <p>Copies of the Drawings, Specifications and Bills of Quantities shall be kept in this office at all times.</p> <p>The contractor shall also supply and maintain the following for the full contract duration, with and including all consumables and maintenance, to the Project Manager's Approval:-</p> <ul style="list-style-type: none"> (i) 1No. Plain paper photocopier, desktop type with variable magnification that can take A3 full size copies, minimum capacity 10copies/minute, including 3kg toner and regular service by agent (ii) 2No. fully connected Personal laptop computer and Licensed software (Microsoft Windows 10 professional or better equivalence, HP Spectre x360 convertible Laptop 11th Generation 64 Intel® Core™ i7-1135G7 (up to 4.2 GHz, 8 MB L3 cache, 4 cores) + Intel® Iris® Xe Graphics + 8 GB (Onboard) (OLED) 13.3" diagonal, FHD (1920 x 1080), OLED, touch, UWVA, edge-to-edge glass, micro-edge, BrightView, anti-reflection, 400 nits) complete with and including 1TB HD Drive, mouse and mouse pad and accessories as manufactured by HP or equal approved. This is the minimum to be provided and the Contractor is expected to supply the latest version of both the equipment and software (iii) 1No. A3 colour printer for the Project Manager (iv) 1No. A4 colour printer for the Employer Representative (v) Full time internet connection to all offices (vi) Fully Connected Mobile Telephone Line including payment of all Bills for the Project Manager and Client Representative. 	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>(vii) 2No. 14.1 mega pixel digital camera with minimum 30-bit colour depth and 8GB memory card as manufactured by Sony or equal approved</p> <p>(viii) 2No. Lockable 4-chest drawers metal filing cabinet</p> <p>(ix) 1No. dumpy or quickset level and levelling staff and 1No. 30 metres steel/linen tape in good working condition for the use of the Project Manager.</p> <p>(x) The contractor shall provide stationery for use by the Project Manager and Client's Representative</p> <p>ALL EQUIPMENT WILL BE HANDED OVER TO THE EMPLOYER ON COMPLETION OF THE CONTRACT.</p> <p>(xi) He shall provide, erect and maintain 2NO. lockup pedestal type water closet for the sole use of the Project Manager including making temporary connection to drain where applicable to the satisfaction of the project manager/client as follow: 1No. linked to Office for the client, 1No. for use by the Project Managers support staff. The contractor shall provide the services of a cleaner and pay all conservancy charges and keep both office and closet clean and in sanitary condition from the commencement to the completion of the Works and dismantle and make good disturbed surfaces to the satisfaction of the Project Manager on completion of the Works.</p> <p>(xii) The office and the closet shall be completed before the Contractor is permitted to commence the Works.</p> <p>(xiii) The Contractor shall arrange for Site Meetings to be held and provide refreshments and meals as shall be directed by the Project Manager.</p>	
A	<p>Rates on temporary buildings</p> <p>The Contractor shall be responsible for the payment of all rates and taxes in respect of huts or other temporary buildings erected on the site for the purpose of the works. The Contractor shall also be responsible for agreeing or otherwise dealing with notice of assessment, demand note or other like documents which may be received in respect of such huts or temporary buildings. The Contract Sum shall be deemed to include for the aforesaid and for payment of any expenses incurred by the Contractor in connection with such assessment.</p>	
B	<p>Temporary telephone</p> <p>The Contractor shall arrange for, provide and maintain a telephone connection to the Site from the commencement to completion of the Contract and shall pay all charges in connection therewith including local calls made by the Consultants.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Sign Board</p> <p>The contractor shall provide and erect where directed and maintain during the whole period of building operations and remove at completion, an approved temporary 18 gauge galvanised mild steel sign board overall size 7500mm long x 4700mm high to the Architect's standard design and giving the title of the Works and showing the names of the Employer, Project manager, Architect, Quantity Surveyor, Engineers and the Contractor with sufficient space to add the names of the Nominated Sub-Contractors and Suppliers. The lettering size concerning the Project manager, Architect, Quantity Surveyor and the Engineer should not to be more than 75mm high. No other signboards or advertising will be permitted</p> <p>The Contractor shall unless otherwise directed, obtain any necessary consent or license from the Local Authority and immediately upon commencement of the works the Contractor shall, in accordance with the details supplied by the Project Manager, make and erect a sign board showing the name of the Employer and such other information as shall be directed and approved by the Project Manager.</p>	
B	<p>Temporary hoarding</p> <p>The works shall be enclosed by the Contractor with a fence not less than 2.40m high, neat and uniform in appearance to the approval of the Project Manager. The fence shall be a sufficient obstacle to prevent the ingress of unauthorized persons or children and shall be complete with all necessary padlocked entrance gates, fans and screens as may be requisite to ensure the safety of the public or adjoining owners and of the works.</p> <p>The contractor shall maintain the fence, gates, fans and screens, obtain all necessary licenses and pay all fees in connection therewith, the amounts of which shall be deemed to be included in the Contract Sum. The Contractor shall allow for moving or adapting the fencing as and when required during the progress of the works and shall dismantle and remove at completion of the work, but not until all danger to the public has passed and shall make good all works disturbed.</p>	
C	<p>General Scaffolding</p> <p>Provide all scaffolding, (tubular steel or similar), that may be required for the works.</p> <p>The use of standing scaffolding by Nominated Subcontractors and the provision of special scaffolding for them are included in the items of general and special attendance in Provisional and P.C. Sums.</p> <p>WORK BY PUBLIC BODIES OR NOMINATED SUBCONTRACTORS OR GOODS AND MATERIALS FROM NOMINATE SUPPLIERS</p>	
D	<p>Prime cost (P.C) items</p> <p>The words "Prime Cost" (or the initials ("P.C") wherever appearing in these Bills of Quantities, shall mean net cost exclusive of any trade, cash or other discount whatsoever but inclusive of the cost of packing, carriage and delivery. Such cost shall be the sum due to the Subcontractor or Supplier after adjustment where applicable in respect of measurements or rates.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>Any increases or decreases in these Prime Cost sums resulting from the adjustment and properly paid by the Contractor, shall be added to or deducted from the Contract Sum in the final account. In substantiation the Contractor will be required to produce to the Quantity Surveyor all quotations, invoices and receipted accounts as shall be necessary to show the details of the sums actually paid.</p> <p>Any sum added by the Contractor in these Bills of Quantities in respect of profit upon any Prime Cost will be deducted at the final settlement of accounts and a sum will be added, the amount of which will bear the same proportions to the sum added as the net amount properly expended bears to the original P.C sums.</p> <p>A Particulars to be supplied when inviting quotations under P.C Sums</p> <p>When inviting quotations for the supply of goods or the execution of work described under P.C Sums, full particulars as contained herein (except the sums provided), and shown on the drawings in respect of the goods or work in question shall in all cases be supplied by the contractor to the persons, firms or companies quoting.</p> <p>All such invitations shall contain a stipulation that the quotations must state a guaranteed time for delivery of fixing, as the case may be, from the date when the particulars are supplied, in the case of materials to be delivered on the site in bulk, the person, firm or company quoting must guarantee the delivery of the quantity required, (uniform with the approved samples), by and at the time required to suit the progress of the building operations. The Contractor shall, with such invitations, supply full details of the times at which such delivery and/or fixing will be required in order that such guaranteed times may be stated.</p> <p>B Nominated Subcontractors</p> <p>The Contractor shall be responsible for supplying all Nominated Subcontractors with sufficient information to enable them to prepare their schemes and working drawings, (if any), and shall also be responsible for ensuring that any work carried out by him in connection with sub-contracted work shall conform with this information including such dimensions as may be agreed with Nominated Subcontractors.</p> <p>The Contractor shall place all orders with Nominated Subcontractors clearly on his own behalf and shall not pledge the credit of the Employer either directly or indirectly. In no case shall the Contractor be deemed to be the agent of the Employer nor shall there be created any privities of Contract as between the Employer and the Nominated Subcontractor.</p> <p>The Contractor must enter into a written Sub-Contract using an approved form and must deposit with the Project Manager signed copies thereof.</p> <p>Nominated Subcontractors shall be responsible for (unless specifically mentioned under Special attendance):-</p> <p>(a) The cost of any necessary alterations to or re-erection of the Contractor's ordinary scaffolding which may be required by them to carry out their work.</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>(b) Special scaffolding</p> <p>(c) Provision, erection and removal of workshop, sheds, etc., for the storage of materials or plant where the nature of the material or plant are such that they may be damaged by inclement weather, or other building for their employees, workmen and materials.</p> <p>(d) Provision of all necessary labour plant, tools, materials and equipment, etc., necessary to carry out and complete their work.</p>	
A	<p>Nominated Suppliers</p> <p>The Contractor shall be responsible for placing all orders for materials or goods with Nominated Suppliers clearly on his own behalf and shall not pledge the credit of the Employer either directly or indirectly. He shall arrange for delivery of all materials or goods at the proper time for ordered progress of the works.</p> <p>The Contractor shall take delivery on site of all materials or goods supplied by Nominated Suppliers and shall sign a receipt or goods supplied by Nominated Suppliers and shall sign a receipt as having received them in good order and condition. He shall load, transport to site, unload, return any packing material if required, hoist, provide safe storage and be responsible for any loss or replacement of any such lost or damaged articles at his own expense.</p> <p>Provision is made in these Bills of Quantities following each appropriate P.C sums for the cost of the foregoing services against items reading "Take delivery and fix only".</p>	
B	<p>General attendance on Nominal Subcontractors, local authorities and public undertakings</p> <p>The Contractor shall provide "general attendance" which shall be deemed to include arranging with Local Authorities, Public Undertakings, Nominated Subcontractors and Nominated Suppliers as from the time of commencement of their work on the site or manufacture and delivery of their goods and materials as appropriate, obtaining from them particulars of holes, mortices, chases, recesses, fixings and the like, the supplying them with all dimensions and other information so that respective works should and can proceed without interruption for the proper execution of the works. They shall also include the following:-</p> <p>Welfare facilities</p> <p>Sanitary accommodation</p> <p>General Scaffolding</p> <p>and for providing the following:-</p> <p>Space for offices, workshops and storage</p> <p>Light</p> <p>Water</p> <p>and clearing away rubbish arising from their work</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Special attendance on nominated subcontractors, local authorities and public undertakings</p> <p>The Contractor shall allow for all costs arising from the items of special attendance which have been included where required, after the items of general attendance. The meaning of certain terms used in the description of such items, in this Document, shall be as stated below:-</p> <p>Unloading and hoisting shall included for unloading all materials and plant, hoisting or lowering to various floor levels where required and depositing. Unless otherwise stated, the handling and moving of plant and materials to their positions after depositing at the require floor level will be carried out by the Subcontractor, Authority or Public Undertaking.</p> <p>Special scaffolding shall include for providing, erecting and dismantling scaffolding, or the equivalent beyond that required for the Contractor's own use to enable Subcontractors to execute their work. Special scaffolding has been referred to only where there is no contiguous work by the Contractor for which scaffolding would generally be used. Notwithstanding the absence of a reference to special scaffolding, the Contractor is to allow in the item for attendance for the provision of scaffolding for the Subcontractor if the method of scaffolding he proposes to use for contiguous work would not provide adequate scaffolding for the Subcontractors work described, due consideration being give to the period of the contract at which the Subcontractors work will be carried out.</p> <p>Power shall include for the provision of a single phase electric power supply, with socket outlets reasonable adjacent to the work and the cost of all current.</p> <p>Other facilities shall be as described in the items.</p> <p>The Profit, overheads & General attendance under provisional and prime cost sum or related items shall be limited to percentage of 10%</p>	
B	<p>Cutting away and making good, etc.</p> <p>Cutting away and making good, etc. in connection with Subcontractor's work and the taking delivery and fixing of materials delivered to site by Nominated Suppliers have been included in this Document as Provisional Sums of measured work.</p>	
C	<p>Fixing only</p> <p>Fixing only items to be supplied under Provisional of P.C. Sums of items to be supplied by the Client shall include for taking delivery at site, unloading, storing in weather protected storage, taking from store and moving to final positions and fixing by methods required for each particular item.</p>	
	TO SUMMARY	

ITEM	DESCRIPTION	AMOUNT (KES.)
	<p>PROTECTION AND CLEANING THE WORKS</p> <p>A Protection of works The Contractor shall allow for and provide and/maintain during the execution of the Works all shoring, strutting, needling and other supports and shall take all other precautions and adopt such expedients as may be necessary to preserve the stability of all buildings, structures, fences, walls, land and property, roads and footpaths, sewers, drains, gullies and other services (including those of adjoining owners) that may in any way be affected by the work to be executed under the Contract immediately he has taken possession of the Site and until completion of the Works. The Contractor shall hold the Employer completely indemnified against all or any claim for damage or losses accruing from any settlement resulting from such shoring and strutting or lack thereof and the striking and removal of the same.</p> <p>Any damage and/or settlement that may be caused arising out of or directly or indirectly consequent upon the aforesaid protective measures of the lack thereof or the carrying out of the Works is to be made good by the Contractor at his own expense to the satisfaction of the Project Manager and all other parties concerned.</p> <p>The Contractor shall cover up and protect all finished work liable to damage including provision of temporary roofs, gutters, drains, etc. until the completion of the Works.</p> <p>The entire responsibility in respect of all matters mentioned or referred to in this clause shall rest with the Contractor notwithstanding any approval given by the Project Manager to, or concurrence in, the action taken or proposed to be taken by the Contractor, in pursuance of his obligations.</p> <p>B Removal of plant, rubbish, etc. The Contractor shall, upon completion of the Works remove and clear away all temporary buildings, plant, rubbish and unused materials, and shall leave the whole of the Site of the Works in a clean and tidy state to the Satisfaction of the Project Manager. He shall also remove all rubbish and dirt from the Site at weekly intervals or as directed by the Project Manager.</p> <p>C Final Cleaning of building and site Before handing over any building, the Contractor shall properly clean all floors and finished surfaces, clean glass inside and outside and leave all sanitary and other appliances in full working order. He shall also cut out and weed all grassed areas clean down external steps, paths and roads and leave the whole in perfect condition ready for occupation.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
A	<p>Occupational Health and Safety, HIV/AIDS and Gender</p> <p>The Contract shall provide a qualified safety officer to deal with OHS, HIV/AIDS and Gender Management and provide all necessary facilities including transport. HIV/AIDS and STD prevention and counseling shall include information, education and counseling campaigns including regular distribution of condoms. The Contractor shall provide, maintain and operate a HIV/AIDS and STD clinic or make alternative arrangements with an existing facility to the approval of the Project Manager. The Contractor shall also carry out Gender sensitisation and awareness raising meetings and workshops and provide gender sensitive monitoring and reporting.</p>	
B	<p>Compliance with NEMA Regulations and the Environment Impact Assessment Report Recommendations</p> <p>The Contractor shall allow for and provide the Contractor's Environmental and Social Management plan (CESMP) which will have to comply with all the regulations set out by the National Environmental Management Authority (NEMA). The contractor should familiarize himself with the Recommendations of the Environmental Impact Assessment and comply with them during execution of the work.</p>	
C	<p>Compliance with COVID -19 Standard Operating Procedures (SOP's) and Regulations</p> <p>The Contractor shall allow for all costs arising from maintaining the COVID - 19 Standard Operating Procedures and regulations on construction sites as guided by the Ministry of Health (MOH) and World Health Organisation (WHO). The contractor will have to comply with the regulations and Standard Operating Procedures (SOP's) during execution of works as set out by the MOH and WHO.</p>	
D	<p>As built Drawings</p> <p>The Contractor shall prepare and submit as built drawings for all the works executed to their details in 3 copies to the Project Manager within a period of 3 weeks after issuing of a practical completion certificate.</p>	
	TO SUMMARY	0

ITEM	DESCRIPTION	AMOUNT (KES.)
SUMMARY		
1	Total carried forward from Page 1/1	
2	Total carried forward from Page 1/2	
3	Total carried forward from Page 1/3	
4	Total carried forward from Page 1/4	
5	Total carried forward from Page 1/5	
6	Total carried forward from Page 1/6	
7	Total carried forward from Page 1/7	
8	Total carried forward from Page 1/8	
9	Total carried forward from Page 1/9	0
10	Total carried forward from Page 1/10	0
11	Total carried forward from Page 1/11	0
12	Total carried forward from Page 1/12	0
13	Total carried forward from Page 1/13	0
14	Total carried forward from Page 1/14	0
15	Total carried forward from Page 1/15	0
16	Total carried forward from Page 1/16	0
17	Total carried forward from Page 1/17	0
18	Total carried forward from Page 1/18	0
19	Total carried forward from Page 1/19	0
20	Total carried forward from Page 1/20	0
21	Total carried forward from Page 1/21	0
22	Total carried forward from Page 1/22	0
23	Total carried forward from Page 1/23	0
24	Total carried forward from Page 1/24	0
25	Total carried forward from Page 1/25	0
26	Total carried forward from Page 1/26	
TO MAIN SUMMARY		1,626,500

**BILL NO.2
HOSPITAL BUILDING**

ELEMENT	DESCRIPTION	PAGE NO.	AMOUNT (KES.)
	<u>BILL NO.2</u>		
	<u>HOSPITAL BUILDING</u>		
	<u>SUMMARY</u>		
1	SUBSTRUCTURES	2/1/3	6,060,819
2	R.C. FRAME	2/2/2	8,990,958
3	STAIRCASES AND BALUSTRADING	2/3/2	755,707
4	RAMPS AND BALUSTRADING	2/4/2	689,759
5	WALLING	2/5/1	5,568,313
6	ROOF STRUCTURE, COVERING & WATER PROOFING	2/6/2	5,195,734
7	DOORS	2/7/4	6,792,622
8	WINDOWS	2/8/4	4,996,814
9	CEILING FINISHES	2/9/1	1,979,214
10	WALL FINISHES	2/10/2	6,778,364
11	FLOOR FINISHES	2/11/2	5,489,933
12	ELECTRICAL INSTALLATIONS	2/12/1	8,000,000
13	MECHANICAL INSTALLATIONS	2/13/1	10,000,000
	TOTAL BILL NO.2 CARRIED TO MAIN SUMMARY		71,298,236

2/S

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.1				
	SUBSTRUCTURES				
	ALL PROVISIONAL				
	<i>The work in this element includes all works up to and including the ground floor slab</i>				
A	Allow for maintaining and upholding sides of excavation : clear off all fallen material, rubbish.	1	ITEM	INCLUDED	
B	Allow for keeping the whole of the excavation free from general water.	1	ITEM	INCLUDED	
C	Excavate for column bases commencing at reduced level but not exceeding 1.5m deep.	182	CM	159	28,940
D	Ditto but 1.5 to 3.0m deep	61	CM	194	11,855
E	Excavate for strip footing commencing at reduced level but not exceeding 1.5 meters deep.	502	CM	159	79,824
D	Ditto but 1.5 to 3.0m deep	30	CM	194	5,830
G	Return fill and ram selected excavated material around foundations.	475	CM	177	83,923
H	Load and remove from site surplus excavated materials	300	CM	221	66,255
I	Approved murrum fill : well compacted in 150mm thick layers.	364	CM	353	128,623
J	150mm Thick Bed of handpacked stone base, well rolled and compacted	1,015	SM	353	358,660
K	50mm thick dust blinding over surfaces of hardcore	1,015	SM	106	107,598
L	Insecticide treatment to surfaces of hardcore, top of foundation walling and bottom of excavation.	1,596	SM	27	42,297
	CONCRETE WORK				
	PLAIN CONCRETE CLASS 15 (Minimum compressive strength of 15Mpa with 20mm max. nominal aggregate size)				
M	50mm Thick blinding layer under column bases	121	SM	398	48,101
	MASS CONCRETE CLASS 20 (Minimum compressive strength of 20Mpa with 20mm max. nominal aggregate size)				
N	Strip foundations	67	CM	9,276	621,472
	TO COLLECTION				1,583,380

2/1/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	VIBRATED REINFORCED CONCRETE CLASS 25; 20mm aggregate size: in				
A	Column bases	46	CM	10,159	467,319
B	Columns	9	CM	10,159	91,432
C	Ground Beams	13	CM	10,159	132,068
D	100mm thick ground floor slab	1,041	SM	1,016	1,057,562
	STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks				
	RIBBED BARS to BS 4461				
E	8mm diameter bars	660	KG	119	78,711
F	10mm diameter bars	1,320	KG	119	157,422
G	12mm diameter bars	1,981	KG	119	236,252
H	20mm diameter bars	2,641	KG	119	314,963
	SUB - WALLING				
	Natural Stones, Machine Cut dressed, load bearing 5N/mm² to BS 5628 part 1 1978; jointed and pointed in cement sand (1:3) mortar : with and including mild steel hoop iron wall ties every two course to BS 1243, 1978 : in				
I	200mm Thick walls	630	SM	1,590	1,001,776
	STEEL FABRIC REINFORCEMENT TO BS 4483 as described				
J	No. A 142 Fabric Mesh reinforcement weighing 2.22 Kg. per square meter fixed in slab;	1,041	SM	398	413,829
	FORMWORK to;				
K	Vertical sides of column bases	111	SM	398	44,126
L	Vertical sides of columns	118	SM	398	46,909
M	Vertical sides of Ground Beams	126	SM	398	50,089
N	Vertical sides of strip foundations	223	SM	398	88,649
O	Edges of floor bed 75 - 150mm high	152	LM	100	15,200
	DAMP PROOF MEMBRANE				
P	1000 Gauge polythene sheeting laid on blinded hardcore	1,041	SM	124	128,747
	TO COLLECTION				4,325,052

2/1/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
SUNDRIES					
A	20 SWG Hoop Iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into joint of blockwalling. TWO COATS EXTERNAL CEMENT RENDER (1:4) finished with wood float	435	NO	18	7,686
B	25mm thick to exposed plinth surfaces TWO COATS OF BLACK BITUMASTIC paint onto:	252	SM	309	77,916
C	Rendered surfaces	252	SM	265	66,785
TO COLLECTION					152,387
<u>COLLECTION</u>					
Total carried forward from Page 2/1/1					1,583,380
Total carried forward from Page 2/1/2					4,325,052
Total carried forward from Page 2/1/3					152,387
TO SUMMARY					6,060,819

2/1/3

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	<u>BILL NO.2</u>				
	<u>HOSPITAL BUILDING</u>				
	<u>ELEMENT NO. 2</u>				
	<u>R.C. FRAME</u>				
	CONCRETE WORK				
	VIBRATED REINFORCED CONCRETE CLASS 25; 20mm aggregate size: in				
A	Columns	40	CM	10,159	406,364
B	Beams	60	CM	10,159	609,546
C	Ring Beams	59	CM	10,159	599,387
D	Concrete Gutters	21	CM	10,159	213,341
E	150mm Thick horizontal solid suspended slab	1,533	SM	1,524	2,336,085
F	Ditto; to Tank slabs	69	SM	1,524	105,147
	STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks				
	MILD STEEL ROUND BARS TO BS 4449				
G	8mm diameter bars	3,934	KG	119	469,165
	RIBBED BARS to BS 5950				
H	10mm diameter bars	3,234	KG	119	385,684
I	12mm diameter bars	4,871	KG	119	580,911
J	16mm diameter bars	6,740	KG	119	803,806
K	20mm diameter bars	5,576	KG	119	664,988
L	25mm diameter bars	1,280	KG	119	152,652
	SUNDRIES				
M	20 SWG Hoop Iron wall tie 25mm wide x 450mm long cast 75mm into concrete and built into joint of blockwalling.	1,985	NO	18	35,071
	TO COLLECTION				7,362,145

2/2/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
FORMWORK TO:-					
A	Vertical sides of columns	658	SM	353	232,511
B	Ditto but; to circular columns average radius of 150mm	26	SM	353	9,187
C	Soffittes of horizontal suspended solid slabs	1,602	SM	353	566,083
D	Sides and soffittes of beams	1,093	SM	353	386,222
E	Sides and soffittes of Ring beams	920	SM	353	325,091
F	Sides and soffittes of Concrete Gutters	178	SM	353	62,898
G	Edges of slab 75 - 150mm high	530	LM	88	46,820
TO COLLECTION					1,628,813
<u>COLLECTION</u>					
Total carried forward from Page 2/2/1					7,362,145
Total carried forward from Page 2/2/2					1,628,813
TO SUMMARY					8,990,958

2/2/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.3				
	STAIRCASES AND BALUSTRADING				
	CONCRETE WORK				
	VIBRATED REINFORCED CONCRETE CLASS 25; 20mm aggregate size: in				
A	Staircases	10	CM	10,159	101,591
B	Beams	1	CM	10,159	10,159
C	175mm thick Landing	21	SM	1,778	37,335
	STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks				
	RIBBED BARS to BS 5950				
D	12mm diameter bars	454	KG	119	54,144
E	16mm diameter bars	240	KG	119	28,622
	FORMWORK to:-				
F	Soffittes of suspended landing	21	SM	353	7,421
G	Sloping soffittes of staircase	46	SM	353	16,255
H	Open string edge of staircase 350mm (extreme) including cutting to profile of treads and risers	18	SM	353	6,360
I	Sides and soffits of beams	11	SM	353	3,887
J	Risers of steps 150 to 225mm high	147	LM	221	32,465
K	Ditto to edges of landing	28	LM	221	6,184
	POLISHED TERRAZO : FIRST COAT OF 35MM THICK WATER PROOF CEMENT AND SAND (1:3) second coat of 15mm thick coloured cement and marble aggregate (1:2:5) including 15 x 3mm plastic dividing strips at 1200mm centers : in				
L	Landing	21	SM	1,590	33,393
M	Treads 300mm wide; with anti-slip grooves	42	SM	1,590	66,785
N	Risers 150mm high	21	SM	1,590	33,393
O	150 x 10mm sloping skirting; cut to profile	60	LM	442	26,502
	TO COLLECTION				464,494

2/3/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	INTERNAL LIME PLASTER first coat of cement, lime putty and sand (1:2:9), second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth				
A	25mm thick two coat work to soffittes of suspended landing	21	SM	309	6,493
B	Ditto but sloping soffittes of staircase	46	SM	309	14,223
C	Ditto but waist of staircases	18	SM	309	5,565
	PREPARE AND APPLY ONE MIST COAT AND THREE COATS of epoxy paint internally on:				
D	Steel trowelled plastered soffittes of landing	21	SM	265	5,565
E	Ditto but sloping soffittes of staircase	46	SM	265	12,191
F	Ditto but waist of staircases	18	SM	265	4,770
	BALUSTRADING - MILD STEEL				
	SUPPLY AND FIX 50mm dia 3mm thick Mild Steel hollow section handrail set on rake secretly welded to top of Balusters; including closed rounded ends and mitres; 25mm dia 3mm thick Mild Steel hollow sections raked middle and bottom rails welded to balusters; with 40mm dia 3mm Mild steel 900mm high Balusters welded to hand, middle and bottom rails at 900mm centres with the bottom end anchored in concrete; including all fixing accessories, painting and decorations as per Architect's detailed Drawing; to				
G	Staircase balustrading	60	LM	2,474	148,411
H	Voids & Balcony balustrading	38	LM	2,474	93,994
	TO COLLECTION				291,213
	COLLECTION				
	Total carried forward from Page 2/3/1				464,494
	Total carried forward from Page 2/3/2				291,213
	TO SUMMARY				755,707

2/3/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.4				
	RAMPS AND BALUSTRADING				
	CONCRETE WORK				
	VIBRATED REINFORCED CONCRETE CLASS 25; 20mm aggregate size: in				
A	150mm thick ramp; sloping; broom swept finish	53	SM	1,524	80,765
B	Beams	7	CM	10,159	71,114
	STEEL REINFORCEMENT as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks				
	RIBBED BARS to BS 5950				
C	12mm diameter bars	595	KG	119	70,959
	FORMWORK to:-				
D	Sloping soffittes of ramps	53	SM	353	18,728
E	Sides and soffittes of beams	82	SM	353	28,976
F	Open string edge of ramps 75mm - 150mm high	62	LM	88	5,477
	Solid concrete blockwork of minimum compressive strength of 2.8N/mm² and mortar designation of (iii) jointed and pointed in cement sand (1:3) mortar : with and including hoop iron wall ties every two courses to BS 1243,				
G	200mm Thick walls.	26	SM	1,590	41,343
	FINISHES				
	POLISHED TERRAZO : FIRST COAT OF 35MM THICK WATER PROOF CEMENT AND SAND (1:3) second coat of 15mm thick coloured cement and marble aggregate (1:2:5) including 15 x 3mm plastic dividing strips at 1200mm centers : in				
H	Ramps; complete with non-slip grooves	53	SM	1,590	84,276
I	Edges of ramps min. 130mm high	62	LM	442	27,385
	TO COLLECTION				429,023

2/4/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	INTERNAL LIME PLASTER				
	<i>INTERNAL LIME PLASTER first coat of cement, lime putty and sand (1:2:9), second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth</i>				
A	25mm Thick two coat work to sloping soffittes	53	SM	309	16,387
B	Ditto; but to beam sides	82	SM	309	25,354
C	Ditto; but to baluster wall	52	SM	309	16,078
	PAINTING AND DECORATING				
	PREPARE AND APPLY ONE MIST COAT AND THREE COATS of latex paint internally on:				
D	Steel trowelled plastered sloping soffittes	53	SM	265	14,046
E	Ditto; but to Landing	82	SM	265	21,732
F	Ditto; but to Baluster wall	52	SM	265	13,781
	HANDRAIL				
G	50mm diameter x 4mm thick stainless steel tube hand rail welded to 40mm dia. stainless steel tube fixed by 4 no. 5mm dia. screw holes & screws onto 40 x 10mm mild steel flat bar welded with angle bracket: including all fixing accessories and decorations; as per manufacturer's specification and Architect's detail drawing; in	62	LM	2,474	153,358
	TO COLLECTION				260,736
	<u>COLLECTION</u>				
	Total carried forward from Page 2/4/1				429,023
	Total carried forward from Page 2/4/2				260,736
	TO SUMMARY				689,759

2/4/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.5				
	WALLING				
	PRECAST CONCRETE CLASS 20; finished fair on all exposed surfaces including bedding and jointing in cement sand (1:3) mortar				
A	275 x 50mm Weathered and throated window cill	323	LM	958	309,592
B	275 x 50mm Weathered and throated coping	230	LM	958	220,452
C	200 x 200mm lintols	403	LM	1,095	441,453
D	150 x 200mm lintols	227	LM	972	220,585
	BLOCK WORK				
	Natural Stones, Machine Cut dressed, load bearing 5N/mm² to BS 5628 part 1 1978; jointed and pointed in cement sand (1:3) mortar : with and including mild steel hoop iron wall ties every two course to BS 1243, 1978 : in				
E	200mm Thick walls.	1,051	SM	1,502	1,578,371
F	200mm Thick Parapet walls.	212	SM	1,502	318,377
G	150mm Thick walls.	1,856	SM	1,237	2,295,427
H	100mm Thick walls.	121	SM	1,060	128,270
	DAMP PROOF COURSE OF BITUMEN FELT TO B.S 743 Type A with 150mm laps including cement and sand (1:3) levelling bed				
I	200mm Wide	281	LM	97	27,306
J	150mm Wide	378	LM	71	26,714
K	100mm Wide	40	LM	44	1,767
	TO SUMMARY				5,568,313

2/5/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.6				
	ROOF STRUCTURE, COVERING & WATER PROOFING				
	STRUCTURAL STEELWORK				
	THE RATES FOR STRUCTURAL STEEL WORK SHOULD INCLUDE ALL PLATES, STIFFENERS, BOLTS, WELDED JOINTS, ALL CONNECTIONS & ACCESSORIES; PAINTING & DECORATIONS; AS PER THE ARCHITECT'S & STRUCTURAL ENGINEERS DRAWINGS; THE CONTRACTOR MUST STUDY THE DRAWINGS & ENSURE THAT HIS PRICE INCLUDES ALL ITEMS AS SHOWN ON THE DRAWINGS				
	Framed Structural Steel Work; including one coat of red oxide primer before erection				
A	50 x 50 x 3mm SHS Top & Bottom Chords	3,806	KG	265	1,008,666
B	30 x 30 x 3mm SHS Ties and Struts	1,880	KG	265	498,238
C	12mm dia. anti-sag rods	340	KG	265	90,107
D	100 x 50 x 2mm Z-Purlins weighing 3.75Kg. per meter; fixed onto and including 50 x 50 x 3mm CFA cleat welded to top chords with 12mm diameter bolts; with joints reinforced with and including 80 x 400 x 6mm mild steel plate bolted with 4No. 12mm diameter bolts	2,738	KG	265	725,625
	Touch-up primer : prepare and apply three coats oil paint : to				
E	Structural steel work	8,764	KG	18	154,842
	ROOF COVERING				
	26-Gauge IT4 Galvanized pre-painted roofing sheets : fixed to Z-purlins with and including J-Bolts complete with washers: in				
F	Sheet laid sloping not exceeding 10degrees from the horizontal.	882	SM	1,060	934,991
G	Ditto; but Ridge	61	LM	751	45,804
H	Ditto; Hip/Valley cap	173	LM	751	129,904
	TRANSLUCENT ROOFING SHEETS				
	26-Gauge clear perspex sheets ; fixed to steel purlins: in				
I	Roof lights	109	SM	1,200	130,800
	TO COLLECTION				3,718,976

2/6/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
METAL WORK					
MILD STEEL GRADE GJ					
A	500mm wide Gauge 24 wall flashing bent to shape : overlapping roof covering and dressed into block work; Architect's detailed	28	LM	574	16,078
WATERPROOFING					
CEMENT SAND SCREED (1:4) finished to receive waterproofing material					
B	40mm Thick to slab; laid to falls	456	SM	707	322,264
C	Ditto but; to gutters	155	SM	707	109,542
3mm thick (each) polyflame APP modified bituminous water proofing membrane, reinforced with polyester, fully bonded and torch applied onto solvent base primer conforming to ASTM D- 41 applied in accordance with manufacturers instructions; to					
D	Slabs and gutters; laid to falls	456	SM	883	402,830
E	Ditto but to; lining of 110mm diameter fulbora outlets	15	NO	685	10,270
RAIN WATER DISPOSAL					
PVC Key terrain fixed in accordance with manufacturer's instructions					
F	100mm diameter Upvc down pipe on wall with steel clip holder bars	150	LM	221	33,128
G	Extra over down pipe for 90 degree bends	45	NO	221	9,938
SUPPLY AND FIX 10mm Thick approved Quarry floor tiles : bedded and jointed in approved water proof adhesive : pointed with approved water proof coloured cement : to					
H	Roof Terrace & Tank Slabs	490	SM	1,104	541,083
I	150 x 10mm Skirting	179	LM	177	31,626
TO COLLECTION					1,476,758
<u>COLLECTION</u>					
Total carried forward from Page 2/6/1					3,718,976
Total carried forward from Page 2/6/2					1,476,758
TO SUMMARY					5,195,734

2/6/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.7				
	DOORS				
	ALUMINIUM DOORS				
	SUPPLY & FIXING OF PURPOSE MADE ALUMINIUM CASEMENT DOORS: with powder coated 100 x 50mm aluminium frame sections, 300mm high powder coated aluminium louvers and 6.5mm thick clear laminated sheet glass and glazing with and including weather striping and all necessary; accessories and approved door hardware set, iron mongery to to "Union Manufacture or approved equal"; as per Architect's drawings				
A	Double leaf Door D01 size 4700 x 3000mm high overall	1	NO	137,015	137,015
B	Double leaf Door D09 overall size 1800 x 3000mm high	8	NO	52,474	419,792
C	Double leaf door D13 overall size 1350 x 3000mm high	1	NO	39,355	39,355
D	Double leaf Door D15 size 1200 x 3000mm high overall	5	NO	34,983	174,913
E	Double leaf Door D16 size 2200 x 3000mm high overall	1	NO	64,135	64,135
	STEEL DOORS				
	PURPOSE MADE DOOR: STANDARD STEEL LOUVERED DOORCOMPRIING OF; 100 x 50 x 3mm top, bottom and vertical rails; 1.5mm thick mild steel louvre plate; one coat red oxide primer; as per Architect's Drawing				
F	Double leaf Door D06 overall size 1200 x 3000mm high	5	NO	15,901	79,506
G	Duct Doors size 600 x 1500mm high overall	6	NO	3,975	23,852
	PREPARE SURFACE AND APPLY ETCHING PRIMER; apply one coat primer one undercoat and two gloss finishing coats; on metal work to;				
H	Steel door surfaces	46	SM	265	12,191
	TO COLLECTION				950,759

2/7/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	50mm THICK SOLID CORED FLUSH DOORS faced both sides with internal quality plywood mahogany veneered for polishing and hardwood lipped all round, 300mm high 5mm glazing fixed panel above transome, complete with all necessary accessories and approved door hardware set, iron mongery (M/S); as per Architect's drawings				
A	Single leaf Door D02 overall size 1000 x 3000mm high with and including 300mm high galvanised steel door protection plate	48	NO	9,276	445,234
B	Single leaf Door D03 overall size 700 x 3000mm high	10	NO	6,493	64,930
C	Single leaf Door D04 overall size 675 x 3000mm high	1	NO	6,261	6,261
D	Single leaf Door D05 overall size 800 x 3000mm high with and including 300mm high galvanised steel door protection plate	33	NO	7,421	244,878
E	Single leaf Door D07 overall size 900 x 3000mm high with and including 300mm high galvanised steel door protection plate	13	NO	8,348	108,526
F	Double leaf Door D08 overall size 1375 x 3000mm high	1	NO	12,754	12,754
G	Single leaf Door D10 overall size 900 x 3000mm high	47	NO	8,348	392,362
H	Single leaf Door D11 overall size 750 x 3000mm high	2	NO	6,957	13,914
I	Single leaf Door D12 overall size 900 x 3000mm high	1	NO	8,348	8,348
J	Single leaf Door D14 overall size 800 x 2100mm high	24	NO	5,194	124,665
K	Single leaf Door D17 overall size 1000 x 3000mm high	4	NO	9,276	37,103
L	Single leaf Door D18 overall size 1100 x 3000mm high	1	NO	10,203	10,203
M	Single leaf Door D19 overall size 750 x 3000mm high	3	NO	6,957	20,870
N	Double leaf Door D20 overall size 1700 x 3000mm high	1	NO	15,769	15,769
O	Single leaf Door D21 overall size 700 x 2100mm high	4	NO	4,545	18,180
P	Double leaf door D27 overall size 1500 x 3000mm high with and including 300mm high galvanised steel door protection plate	17	NO	13,914	236,530
Q	Single leaf Door D28 overall size 1000 x 2100mm high	8	NO	6,493	51,944
R	Double leaf Door D29 overall size 1300 x 3000mm high	1	NO	12,058	12,058
	TO COLLECTION				1,824,530

27/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	50mm THICK SOLID CORED FLUSH DOORS faced both sides with internal quality plywood mahogany veneered for polishing and hardwood lipped all round; 3mm Thick lead equivalent protection; complete with all necessary accessories; approved door hardware set/iron mongery (M/S) to "ASSA ABLOY Manufacture or approved equal"; one coat red oxide; as per Architect's drawings				
A	Single leaf Door D30 overall size 800 x 3000mm high	1	NO	7,421	7,421
B	Sliding Door D31 overall size 1500 x 3000mm high	2	NO	13,914	27,827
C	Single leaf Door D32 overall size 900 x 3000mm high	2	NO	8,348	16,696
	Hardware set to Lead doors				
D	Headboard 3mX.2m to Sliding Doors	2	NO	1,767	3,534
E	Door hardware set for 400kg, 1Top Track - Aluminum - 2000mm, 1 Take-out Piece - 400A Track, 1 Aluminum Channel - 1200mm, 1 Pelmet - Aluminum - 2000mm, 4 Side Fix Bracket - Natural, 2 Top Fix Adjustable Hanger – Galv. 2 Track Stop - 400TA, 1 Nylon Guide for 19A Channel – Galv. 2 Flush Pull Handle Natural, 1 Flush Bolt 150mm - Natural, 2 600A-PC Charge - NAPC, as per Manufacture or approved equal	2	NO	17,668	35,336
	WROT MAHOGANY FRAMES AND LININGS, selected, treated and kept clean: to Architects detail.				
F	225 x 50mm Frames; two labours, plugged.	584	LM	883	515,906
G	225 x 50mm Transomes; two labours, plugged.	102	LM	883	90,107
H	175 x 50mm Frames; two labours, plugged.	976	LM	839	819,088
I	50 x 25mm Architrave : splayed	1,560	LM	283	440,993
J	25mm Quadrant : ditto	1,560	LM	212	330,745
	TO COLLECTION				2,287,653

2/7/3

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	IRON MONGERY				
	<i>Supply and fix the following iron mongery : locks and furniture where applicable are to be equal to those manufactured by "UNION" and approved by the Architect</i>				
	HINGES				
A	100mm long stainless steel 2Ball Bearing Butt hinges complete with screws	330	PRS	221	72,881
	HANDLES				
B	Stainless steel Lever handles with and including 1 pair of short CB backplates	137	PRS	1,325	181,539
C	Stainless steel Lever handles with and including 1 pair of short WC backplates and an indicator disc	83	PRS	1,325	109,983
	DOOR STOPS				
D	Wall or Floor mounted Rubber door stop	220	NO	88	19,435
	LOCKSETS				
E	3-turn Mortise lock complete with and including a euro profile cylinder, flanged striking plate and deadbolt pocket	137	NO	1,325	181,539
F	1-turn WC Mortise lock complete with and including a thumbturn profile cylinder comprising of a turning knob inside and indicator bolt outside, flanged striking plate and deadbolt pocket	83	NO	1,325	109,983
	PUSH PLATE				
G	Brush stainless steel push plate on the outside overall size 300 x 150 x 1.2mm thick with rounded edges	65	NO	442	28,711
	DOOR CLOSER				
H	Heavy duty adjustable power parallel arm overhead door closer	65	NO	2,209	143,553
	SYMBOLS				
I	Gents/ Ladies toilet signage and other rooms	220	NO	707	155,478
	PREPARE AND APPLY THREE coats of polyurathane varnish: in accordance with manufacturer's instructions : on wood: to				
J	General surfaces	1,186	SM	265	314,314
K	Surfaces 100 - 300mm	1,662	LM	124	205,550
L	Surfaces not exceeding 100mm girth	3,120	LM	53	165,372
M	Prime back of frame before fixing 100 - 300mm girth	1,560	LM	27	41,343
	TO COLLECTION				1,729,680

2/7/4

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	<u>COLLECTION</u>				
	Total carried forward from Page 2/7/1				950,759
	Total carried forward from Page 2/7/2				1,824,530
	Total carried forward from Page 2/7/3				2,287,653
	Total carried forward from Page 2/7/4				1,729,680
	TO SUMMARY				6,792,622

2/7/4

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.8				
	WINDOWS				
	ALUMINIUM WINDOWS				
	PURPOSE MADE WINDOWS: POWDER COATED ALUMINIUM WINDOWS COMPRISING OF; 100 x 50mm ALUMINIUM FRAME, TRANSOME AND MULLIONS; 300mm high powder coated aluminium louvers; INCLUDING THREE TRUCK SLIDING SECTIONS to accomodate 2/4No. Sliding glazed window shutters in 50 x 20mm frame and 1No. 50 x 20mm Sliding Mosquito Shutters with aluminium mosquito proof gauze; 6.5mm thick laminated clear sheet glass and glazing panels, complete with and including all iron mongery comprising hinges, locks, stays and fasteners as per iron mongery schedule, and all necessary accessories to "Union Manufacture or approved equal"; as per Architect's Drawings				
A	Window W01 size 4000 x 1200mm high overall	2	NO	46,644	93,287
B	Window W02 size 3188 x 1200mm high overall	1	NO	37,175	37,175
C	Window W03 size 2725 x 1200mm high overall	1	NO	31,776	31,776
D	Window W04 size 2825 x 1200mm high overall	2	NO	32,942	65,884
E	Window W05 size 1650 x 1500mm high overall	3	NO	24,051	72,152
F	Window W06 size 900 x 750mm high overall	1	NO	6,559	6,559
G	Window W07 size 5700 x 1500mm high overall	1	NO	83,084	83,084
H	Window W08 size 1175 x 1500mm high overall	1	NO	17,127	17,127
I	Window W09 size 2900 x 1500mm high overall	2	NO	42,271	84,541
J	Window W10 size 2725 x 1500mm high overall	1	NO	39,720	39,720
K	Window W11 size 1325 x 1500mm high overall	2	NO	19,313	38,627
L	Window W12 size 2300 x 1500mm high overall	3	NO	26,820	80,460
M	Window W13 size 3400 x 900mm high overall	2	NO	39,647	79,294
N	Window W14 size 3200 x 900mm high overall	1	NO	27,986	27,986
O	Window W15 size 900 x 900mm high overall	5	NO	7,871	39,355
	TO COLLECTION				797,027

2/8/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
A	Window W16 size 2350 x 900mm high overall	1	NO	20,552	20,552
B	Window W17 size 4225 x 900mm high overall	1	NO	36,950	36,950
C	Window W18 size 1325 x 900mm high overall	1	NO	11,588	11,588
D	Window W19 size 725 x 900mm high overall	1	NO	6,341	6,341
E	Window W20 size 3875 x 1800mm high overall	1	NO	67,779	67,779
F	Window W21 size 2600 x 1200mm high overall	1	NO	30,318	30,318
G	Window W22 size 2300 x 4800mm high overall	1	NO	107,280	107,280
H	Window W23 size 1500 x 1200mm high overall	1	NO	17,491	17,491
I	Window W24 size 3450 x 1200mm high overall	1	NO	40,230	40,230
J	Window W25 size 5600 x 1200mm high overall	1	NO	65,301	65,301
K	Window W26 size 5000 x 1200mm high overall	1	NO	58,304	58,304
L	Window W27 size 1775 x 1200mm high overall	1	NO	20,698	20,698
M	Window W28 size 950 x 1200mm high overall	7	NO	11,078	77,545
N	Window W29 size 1800 x 1350mm high overall	1	NO	23,613	23,613
O	Window W30 size 1500 x 1500mm high overall	4	NO	21,864	87,457
P	Window W31 size 775 x 1350mm high overall	1	NO	10,167	10,167
Q	Window W32 size 2275 x 1350mm high overall	1	NO	29,845	29,845
R	Window W33 size 1500 x 1350mm high overall	2	NO	19,678	39,355
S	Window W34 size 2100 x 1350mm high overall	1	NO	27,549	27,549
T	Window W35 size 850 x 1300mm high overall	2	NO	10,738	21,475
U	Window W36 size 600 x 1350mm high overall	2	NO	7,871	15,742
V	Window W37 size 2400 x 1500mm high overall	1	NO	34,983	34,983
W	Window W38 size 1000 x 1500mm high overall	2	NO	14,576	29,152
X	Window W39 size 825 x 1500mm high overall	1	NO	12,025	12,025
Q	Window W40 size 1850 x 1500mm high overall	1	NO	26,966	26,966
Z	Window W41 size 1600 x 1350mm high overall	1	NO	20,990	20,990
AA	Window W47 size 4800 x 900mm high overall	4	NO	41,979	167,917
AB	Window W48 size 5800 x 900mm high overall	2	NO	50,725	101,450
AC	Window W49 size 5600 x 900mm high overall	1	NO	48,976	48,976
AD	Window W50 size 2900 x 900mm high overall	2	NO	25,362	50,725
TO COLLECTION					1,308,764

2/8/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
A	Window W51 size 2600 x 900mm high overall	8	NO	25,362	202,899
B	Window W52 size 5700 x 900mm high overall	2	NO	49,850	99,701
C	Window W53 size 5100 x 900mm high overall	2	NO	44,603	89,206
D	Window W54 size 2250 x 900mm high overall	2	NO	19,678	39,355
E	Window W55 size 3300 x 900mm high overall	1	NO	28,861	28,861
F	Window W56 size 3175 x 2100mm high overall	1	NO	64,791	64,791
G	Window W57 size 1500 x 900mm high overall	2	NO	13,118	26,237
H	Window W58 size 5100 x 600mm high overall	1	NO	29,735	29,735
I	Window W59 size 6800 x 600mm high overall	1	NO	39,647	39,647
J	Window W60 size 7200 x 900mm high overall	1	NO	62,969	62,969
K	Window W61 size 6800 x 900mm high overall	1	NO	59,470	59,470
L	Window W62 size 5900 x 900mm high overall	1	NO	51,599	51,599
M	Window W63 size 3600 x 900mm high overall	1	NO	31,484	31,484
N	Window W64 size 2000 x 900mm high overall	2	NO	17,491	34,983
O	Window W65 size 4175 x 600mm high overall	1	NO	24,342	24,342
P	Window W66 size 1650 x 600mm high overall	1	NO	9,620	9,620
Q	Window W67 size 3800 x 600mm high overall	1	NO	22,156	22,156
R	Window W68 size 4900 x 600mm high overall	1	NO	28,569	28,569
S	Window W69 size 2550 x 1800mm high overall	1	NO	44,603	44,603
T	Window W70 size 1200 x 900mm high overall	2	NO	10,495	20,990
U	Window W71 size 5600 x 1650mm high overall	1	NO	89,789	89,789
V	Window W72 size 6500 x 1650mm high overall	1	NO	104,219	104,219
W	Window W73 size 1800 x 900mm high overall	8	NO	15,742	125,938
X	Window W74 size 1300 x 1200mm high overall	4	NO	15,159	60,637
Z	Window W75 size 2500 x 900mm high overall	2	NO	21,864	43,728
AA	Window W76 size 875 x 900mm high overall	1	NO	7,652	7,652
AB	Window W77 size 2200 x 900mm high overall	1	NO	19,240	19,240
AC	Window W78 size 5800 x 2250mm high overall	2	NO	126,812	253,624
AD	Window W79 size 4600 x 900mm high overall	1	NO	40,230	40,230
AE	Window W80 size 6000 x 2250mm high overall	1	NO	131,185	131,185
TO COLLECTION					1,887,459

2/8/3

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
A	Window W81 size 5700 x 2250mm high overall	1	NO	124,626	124,626
B	Window W82 size 6650 x 2250mm high overall	2	NO	145,397	290,793
C	Window W83 size 3625 x 2250mm high overall	1	NO	79,258	79,258
D	Window W84 size 2910 x 2250mm high overall	1	NO	63,406	63,406
E	Window W85 size 2200 x 1200mm high overall	2	NO	25,654	51,308
F	Window W86 size 2400 x 6400mm high overall	1	NO	149,259	149,259
G	Window W87 size 3250 x 2250mm high overall	2	NO	71,058	142,117
H	Window W88 size 750 x 2250mm high overall	1	NO	16,398	16,398
I	Window W89 size 2725 x 2250mm high overall	1	NO	59,580	59,580
J	Window W90 size 2300 x 1200mm high overall	1	NO	26,820	26,820
TO COLLECTION					1,003,564
<u>COLLECTION</u>					
Total carried forward from Page 2/8/1					797,027
Total carried forward from Page 2/8/2					1,308,764
Total carried forward from Page 2/8/3					1,887,459
Total carried forward from Page 2/8/4					1,003,564
TO SUMMARY					4,996,814

2/8/4

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO. 9				
	CEILING FINISHES				
	<i>INTERNAL LIME PLASTER first coat of cement lime and sand (1:2:9) second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth</i>				
A	25mm Thick two coat work to slab soffites	2,659	SM	309	822,136
B	75 x 75mm cornice	32	LM	124	3,958
	<i>12mm THICK SUSPENDED MOISTURE PROOF GYPSUM ceiling boards on and including 100 x 50mm aluminium channels framing plugged onto wall; 100 x 50mm aluminium channels joists at 600mm centers both ways supported by and including metallic hangers from roof trusses: to Architect's detailed drawing; in</i>				
C	Ceiling	114	SM	1,767	201,415
D	Extra over ceiling for trap door	5	NO	1,060	5,300
	<i>USGBORAL MINABOARD ACCESSIBLE TILE SYSTEM SUSPENDED CEILINGS comprising of; 600 x 600 x 15mm thick fissured mineral fibre tiles : 20mm x 7mm x 25mm gauge epoxy acrylic protected tee clips at 600mm centers located by pipped tabs into 38mm x 26mm x 23 gauge epoxy acrylic protected snab tee runners at 600 mm centers in three meter lengths : jointed with 29mm x 20mm x 170mm x 20 gauge hot dipped galvanised splice plates with 20mm expansion edge trim of 20mm x 25 gauge two coat vinyl white painted channel edge trim : fixed with screws to background requiring plugging.</i>				
E	Ceiling	95	SM	2,209	209,808
	<i>PREPARE AND APPLY ONE MIST COAT AND THREE COATS ceiling matt emulsion paint internally on:</i>				
F	Plastered surfaces	2,659	SM	265	704,688
G	Plaster board surfaces	114	SM	265	30,212
H	Surfaces not exceeding 100mm girth	32	LM	53	1,696
	TO SUMMARY				1,979,214

2/9/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.10				
	WALL FINISHES				
	EXTERNAL WALL FINISHES				
	CEMENT AND WASHED SAND (1:3) render trowelled smooth to receive "mamoran" coating				
A	25mm Thick three layer work to walls	1,346	SM	309	416,170
B	Ditto; but to concrete surfaces	524	SM	309	162,016
	PAINTING AND DECORATING				
	PREPARE AND APPLY THREE COATS first grade weather guard emulsion paint : externally; on				
C	Rendered wall surfaces	1,720	SM	265	455,834
	INTERNAL WALL FINISHES				
	CEMENT AND SAND (1:4) SCREEDS FINISHED to receive wall tiles				
D	15mm Thick wall screed to receive tiles	1,590	SM	309	491,612
	INTERNAL LIME PLASTER first coat of cement, lime putty and sand, (1:2:9) second coat of cement, lime putty and sand (1:1:6) Steel trowelled smooth				
E	25mm Thick two coat work to walls	3,765	SM	309	1,164,100
F	Ditto but; to concrete surfaces	1,223	SM	309	378,139
G	Ditto but; to reveals: average 200-300mm wide	852	LM	88	75,266
	SUPPLY AND FIX 6mm thick COLOURED GLAZED CERAMIC WALL TILES; bedded and jointed with approved adhesive; pointed in approved waterproof grout : to				
H	Wall surfaces	1,590	SM	1,325	2,106,909
I	Extra over for PVC corner strip	398	LM	424	168,765
	TO COLLECTION				5,418,811

2/10/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	PAINTING AND DECORATING				
	PREPARE AND APPLY ONE MIST COAT AND THREE COATS silk vinyl emulsion paint internally on:				
A	Plastered wall and concrete surfaces	4,988	SM	265	1,321,920
B	Ditto but; to reveals: average 200 - 300mm wide	852	SM	44	37,633
	TO COLLECTION				1,359,553
	<u>COLLECTION</u>				
	Total carried forward from Page 2/10/1				5,418,811
	Total carried forward from Page 2/10/2				1,359,553
	TO SUMMARY				6,778,364

2/10/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
	BILL NO.2				
	HOSPITAL BUILDING				
	ELEMENT NO.11				
	FLOOR FINISHES				
	CEMENT SAND (1:4) SCREED finished smooth				
A	40mm thick floor screed to receive floor tiles	209	SM	398	83,084
B	Ditto; but to receive epoxy screed	210	SM	398	83,481
C	Extra over screed for 150 x 150mm coved junction for skirting	203	LM	133	26,900
	WATER PROOFING				
	Crystalline Waterproofing applied to wall plaster Prior to Tiling				
D	Wet Area Floors	209	SM	883	184,631
	SUPPLY AND FIX 10mm THICK APPROVED NON-SLIP CERAMIC FLOOR TILES with and including nosings, dividing strips and all accessories; bedded and jointed in and including approved adhesive : pointed with and including approved coloured grout : to				
E	Floors	209	SM	1,590	332,335
	POLISHED TERRAZO : FIRST COAT OF 35MM THICK WATER PROOF CEMENT AND SAND (1:3) second coat of 15mm thick coloured cement and marble aggregate (1:2:5) including 15 x 3mm plastic dividing strips at 1200mm centers : in				
F	Floors	1,980	SM	1,590	3,148,438
G	150 x 10mm skirting	1,924	LM	442	849,831
	EPOXY SCREED				
	SUPPLY AND APPLY SEAMLESS, 3MM THICK MASTER TOP 1230 Plus or other equal approved EPOXY RESIN FLOORING applied in accordance with manufacturer's printed instructions; Including all fixing accessories; to				
H	Cured concrete Floors	210	SM	1,590	333,925
I	Extra over for forming 150mm high skirting detail complete with coved junctions with and including PVC packing piece	203	LM	221	44,833
	TO COLLECTION				5,087,456

2/11/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
SPLASH APRON					
A	100mm thick concrete block edge downstand 450mm deep laid in cement and sand (1:4) mortar and rendered in cement and sand (1:3) including all necessary excavations, earth works and formwork on a 75mm thick concrete (1:4:8) base.	152	LM	1,590	241,698
B	50mm Paving slabs in 600 x 600mm panels laid with straight broken joints in both directions on and including a 20mm thick cement sand bed and a 75mm hardcore base well rammed.	91	SM	1,767	160,779
TO COLLECTION					402,477
<u>COLLECTION</u>					
Total carried forward from Page 2/11/1					5,087,456
Total carried forward from Page 2/11/2					402,477
TO SUMMARY					5,489,933

2/11/2

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
<u>BILL NO.2</u>	<u>HOSPITAL BUILDING</u>				
	<u>ELEMENT NO.12</u>				
	<u>ELECTRICAL INSTALLATIONS</u>				
A	Allow a provisional sum of Kes.8,000,000 (Kenya Shillings Eight Million Only) for Electrical Installations	1	SUM	8,000,000	8,000,000
	TO SUMMARY				8,000,000

2/12/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES.)
<u>BILL NO.2</u>	<u>HOSPITAL BUILDING</u>				
	<u>ELEMENT NO.13</u>				
	<u>MECHANICAL INSTALLATIONS</u>				
A	Allow a provisional sum of Kes.10,000,000 (Kenya Shillings Ten Million Only) for Mechanical Installations	1	SUM	10,000,000	10,000,000
	TO SUMMARY				10,000,000

2/13/1

BILL NO.3
EXTERNAL WORKS

ELEMENT	DESCRIPTION	PAGE NO.	AMOUNT (KES.)
	<u>BILL NO.3</u>		
	<u>EXTERNAL WORKS</u>		
	<u>SUMMARY</u>		
1	SITE CLEARANCE AND EARTHWORKS	3/1/1	996,300
2	BOUNDARY WALL, GATES & AUTOMATED BOOM BARRIERS	3/2/1	2,578,000
3	ACCESS ROADS, CAR PARKING AND PAVED AREAS	3/3/1	2,878,250
4	LANDSCAPING	3/4/1	150,000
5	STORM WATER DRAIN CHANNEL	3/5/1	383,400
	TOTAL BILL NO.5 CARRIED TO MAIN SUMMARY		6,985,950

5/S

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES)
	<u>BILL NO.3</u>				
	<u>EXTERNAL WORKS</u>				
	<u>ELEMENT NO.1</u>				
	<u>SITE CLEARANCE AND EARTHWORKS</u>				
	<u>SITE CLEARANCE</u>				
A	Clear site of all small trees, bushes, shrubs under growth and the like including grubbing up roots and removing away from site	3,435	SM	20	68,700
	<u>EARTHWORKS</u>				
B	Mechanical excavation to reduce levels from 0.0-1.0m deep; average 0.45m deep commencing from stripped level; remove from site all excavated materials	1,546	CM	120	185,520
	<u>CART AWAY AND FILLING</u>				
C	Imported quarry dust, well laid and compacted in layers not exceeding 300mm thick	1,546	CM	480	742,080
	TO SUMMARY				996,300

3/1/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES)
	BILL NO.3				
	EXTERNAL WORKS				
	ELEMENT NO.2				
	BOUNDARY WALL, GATES & AUTOMATED BOOM BARRIERS				
A	Allow for labour and material for construction of boundary walling 2100mm high overall above existing ground level comprising of: 200mm Thick solid concrete block walls, 1000mm high minimum below ground level; 1100mm high above ground level with 300 x 50mm thick weathered and throated coping, tyrolean rendered to all exposed sides of walls and columns painted with "MAMORAN MASONRY PRIMER", one coat "MARMOCOTE M200; with and including 600 x 200mm reinforced concrete class 20 strip footing : 300 x 300mm thick x 2300mm high above the ground reinforced concrete columns with 1000 x 1000 x 250mm footing at 3500mm centres with 500 x 500 x 50mm thick weathered and throated coping; mild steel palisade comprising of: 2No. 75 x 25 x 3mm SHS horizontal rails, 25 x 25 x 2mm SHS vertical sections at 200mm centers average 1000mm high; all painting and decorations; to Architect's detailed drawing	300	LM	8,000	2,400,000
	GATES				
	Mild Steel Sections: welded connections: one coat red oxide primer: three coats oil paint				
B	Supply and install 6000 x 2300mm wide vehicle access double leaf gate in two equal leaves comprising of: vertical stiles; 25 x 25 x 3mm SHS vertical members at 110mm centers welded onto 60 x 40 x 1.5mm Frame; including accessories; all necessary painting and decorations; to Architect's detailed drawing	1	NO	140,000	140,000
C	Ditto but; Pedestrian gate overall size 1000 x 2300mm high	1	NO	38,000	38,000
	TO SUMMARY				2,578,000

3/2/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES)
	BILL NO.3				
	EXTERNAL WORKS				
	ELEMENT NO.3				
	ACCESS ROADS, CAR PARKING AND PAVED AREAS				
C	Compact existing subgrade to 93% MDD, (MOD AASHTO), CBR>15%	1,665	SM	70	116,550
E	200mm thick graded crushed stones, laid to falls and camber, well rolled and compacted to 98% MDD (Modified AASHTO)	1,400	SM	560	784,000
F	100mm thick ditto	265	SM	280	74,200
	PRE-CAST CONCRETE "CABROWWORKS" heavy duty paving blocks or any other equal and approved : quadblock pattern.				
G	80mm Thick concrete block size 205 x 110mm laid to falls on and including 50mm thick sand bed, allow for compaction, rolling and vibration, spread and brush into joints and compact.	1,400	SM	1,000	1,400,000
	WALKWAYS				
	PRECAST CONCRETE CLASS 30 finished fair on all exposed surfaces including bedding, jointing and pointing in cement and sand (1:4)				
H	50mm Paving slabs in 600 x 600mm panels laid with straight broken joints in both directions on and including a 50mm thick sand bed on 100mm thick well compacted murrum bed	265	SM	800	212,000
	Pre-cast concrete Class "D" as described finished fair on all exposed surfaces including bedding, jointing and pointing in cement and sand (1:3) mortar				
I	125 x 250 mm Splayed kerb to BS 340 including concrete Class 'E' foundation and 100 mm haunching to back of a kerb including all necessary excavation, formwork and disposal.	583	LM	500	291,500
	TO SUMMARY				2,878,250

3/3/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES)
	<u>BILL NO.3</u> <u>EXTERNAL WORKS</u> <u>ELEMENT NO.4</u> <u>LANDSCAPING</u> <u>PLANTING</u>				
A	Dig out to break existing ground and all weeds and roots, supply, spread and level 300mm red imported soil and mix with manure and general fertilizer including planting approved grass tufts at 100mm centres in each direction and flower hedges including watering until established.	250	SM	600	150,000
	TO SUMMARY				150,000

3/4/1

ITEM	DESCRIPTION	QTY	UNIT	RATE (KES.)	AMOUNT (KES)
	<u>BILL NO.3</u> <u>EXTERNAL WORKS</u> <u>ELEMENT NO.5</u> <u>STORM WATER DRAIN CHANNEL</u> <i>CONCRETE CLASS 20 INVERT Block drains to B.S 368 : finished fair on all exposed surfaces</i>				
A	300mm wide with varying depth min. 300mm deep (internal) drainage channel comprising : 600 x 150mm Thick reinforced concrete Class 20 base with 50mm concrete blinding: 150mm Thick VRC Class 20 sides : 400mm wide grating in 1000mm lengths comprising 50 x 50 x 6mm RSA cast into concrete walls : 50 x 50 x 5mm with 40 x 10mm flats welded on angles at 75mm centers with all painting and decoration : including excavation, disposal and formwork as per Engineer's detailed drawing.	45	LM	4,120	185,400
B	450mm wide with varying depth min. 450mm deep (internal) drainage channel comprising : 750 x 150mm Thick reinforced concrete Class 20 base with 50mm concrete blinding: 150mm Thick VRC Class 20 sides : 550mm wide grating in 1000mm lengths comprising 50 x 50 x 6mm RSA cast into concrete walls : 50 x 50 x 5mm with 40 x 10mm flats welded on angles at 75mm centers with all painting and decoration : including excavation, disposal and formwork as per Engineer's detailed drawing.	30	LM	6,600	198,000
	TO SUMMARY				383,400

3/5/1