

VOLUME II

SECTION VIII

BILLS OF QUANTITIES

Item	Description	Quantity	Unit	Rate	Amount
	<p>BILL No.1:-PRELIMINARIES AND GENERAL CONDITIONS</p> <p>Preamble Where the word "Consultant" occurs in this text it shall be construed to mean "Project Manager"</p> <p><u>Generally</u></p> <p>A The Contractor shall be deemed to have allowed against each item or rates for the cost of complying with all the requirements of the "Preliminaries." All the items contained in the "Preliminaries" shall apply to the whole of the works. The headings of the clauses in these Bills of Quantities shall not affect the interpretation thereof.</p> <p>The Contractor shall be required to prepare a detailed breakdown of his pricing of these "Preliminaries" items before the Contract is signed.</p> <p>B <u>Description of Site</u></p> <p>The site is situated at KNUST Campus, Kumasi</p> <p>The Contractor shall be deemed to have visited and examined the site and satisfied himself as to all local and existing conditions and to have made himself thoroughly acquainted with the positions and accessibility of the purposed Works and the conditions under which they will be carried out.</p> <p>No extra charge made in consequence of any misunderstanding or incorrect information of any of these points or on the grounds of insufficient description will be allowed.</p> <p>C <u>Description of the Works</u></p> <p>The works comprise of: The construction of 2-storey Block of Classroom Auditoriums</p> <p>The construction generally is of reinforced concrete frame with sandcrete blocks infillings sitting on strip foundations, roofed over with pre-painted long span aluzinc sheet fixed onto structural timber</p> <p>The floors are finished with porcelain tiles whilst the walls are plastered and painted.</p> <p>The externals of the blocks shall be landscaped with pavement blocks for walkways and road works, grassed in between</p>				
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>Names of Parties</u></p> <p>The names of parties referred to in these Bills of Quantities and in the Conditions of Contract are as follows:</p> <p>Employer: KWAME NKURUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KNUST-KUMASI</p> <p>Consultant for the Project: Director of Works & Physical Development KNUST, Kumasi</p>		Item		
B	<p><u>Drawings used for Preparation of Bills of Quantities</u></p> <p>Drawing used for preparation of Bills of Quantities are in the list found elsewhere in the document</p> <p>The drawings may be inspected by appointment at the office of the Director of Works and Physical Development at the above address.</p>		Item		
C	<p><u>Setting Out of the Works</u></p> <p>Allow for providing all necessary stakes, templates, rods instrument and the like for the proper execution of the Works and make such available to the Director of Works and Physical Development for checking.</p> <p>Figured dimensions shall be taken in all cases in preference to scaled dimensions and large scale details in preference to small scale drawings.</p> <p>The site of the building, the building line, the direction of frontage and floor levels will be defined by the Consultant.</p>		Item		
D	<p><u>Access to Site</u></p> <p>Access to the site is via the Komfo Anokye Teaching Teaching Hospital road</p> <p>The Contractor must keep all areas outside the Site free from obstructions at all times.</p>		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Order of Works</u> The order in which the Works are carried out shall, generally, be at the discretion of the Contractor, but he shall be deemed to have carefully examined all the drawings available for inspection and to have ascertained from them the full extent and character of the Works and what restrictions are imposed on his freedom of choice of methods that he would otherwise consider to be the most appropriate.		Item		
B	<u>Form and Conditions of Contract</u> The form of Contract will be similar to the 2003 Edition of Procurement of Works for Medium Contracts (Lump Sum Contracts) as published by the Public Procurement Board, Ghana. The Contractor should read the Schedule of Conditions, (Section III), the full description of which will be found in the before mentioned conditions and allow, against the Clause Titles listed below, or in his prices, for anything in these Conditions considered to have a monetary value:		Item		
C	<u>Clause No.</u>				
	1. Definition of Clause		Item		
	2. Interpretation		Item		
	3. Language and Law		Item		
	4. Project Manager's Decision		Item		
	5. Delegation		Item		
	6. Communication		Item		
	7. Sub Contracting		Item		
	8. Other Contractors		Item		
	9. Personnel		Item		
	10. Employer's and Contractor's Risks		Item		
	11. Employer's Risks		Item		
	12. Contractor's Risk		Item		
	13. Insurance		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
	14. Site Investigations Reports		Item		
	15. Queries about the Contract		Item		
	16. Contractor to Construct the Works		Item		
	17. The Works to be Completed		Item		
	18. Approval by the Project Manager		Item		
	19. Safety		Item		
	20. Discoveries		Item		
	21. Possession of Site		Item		
	22. Access to Site		Item		
	23. Instructions		Item		
	24. Disputes		Item		
	25. Procedure for Disputes		Item		
	26. Replacement of Adjudicator		Item		
	27. Programme		Item		
	28. Extension of the Intended Completion Date		Item		
	29. Acceleration		Item		
	30. Delays Ordered by the Project Manager		Item		
	31. Management Meetings		Item		
	32. Early Warnings		Item		
	33. Identifying Defects		Item		
	34. Tests		Item		
	35. Correction of Defects		Item		
	36. Uncorrected Defects		Item		
	37. Activity Schedule		Item		
	38. Changes in the Activity Schedule		Item		
	39. Variations		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
	40. Payment for Variations		Item		
	41. Cash Flow Forecast		Item		
	42. Payment Certificates		Item		
	43. Payments		Item		
	44. Compensation Events		Item		
	45. Tax		Item		
	46. Currencies		Item		
	47. Price Adjustments-		Item		
	48. Retention		Item		
	49. Liquidated Damages		Item		
	50. Bonus		Item		
	51. Advance Payment		Item		
	52. Securities		Item		
	53. Dayworks		Item		
	54. Cost of Repairs		Item		
	55. Completion		Item		
	56. Taking Over		Item		
	57. Final account		Item		
	58. Operating and Maintenance Manuals		Item		
	59. Termination		Item		
	60. Payment upon Termination		Item		
	61. Property		Item		
	62. Release from Performance		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Co-ordination of the Works</u> The Contractor shall be wholly responsible for the administration and general co-ordination and proper execution and completion of works and for the protection of the site. The Contractor shall obtain builder's work details and all drawings from specialist Sub-contractors and suppliers whether nominated or not, in accordance with an agreed programme (refer item 24/B) and submit them to the Consultant for approval. The Consultant has co-ordinated the design of the various services installations to ensure that proper allocation of space is allowed for each with adequate access available to all such services and equivalent for their proper functioning and maintenance. Notwithstanding foregoing the Contractor shall be fully responsible for the co-ordinations of the whole of the various installations to conform to the drawings and specifications. The Contractor shall with all Sub-contractors and suppliers and responsible for the positions of their work or materials including trunking and pipe runs, positions holes, chases, recesses, fixes and the like before work is put in hand in other to ensure that they do not conflict with other works. In other to effect proper co-ordination of the engineering with other work, the Contractor shall constantly keep upon the Works a competent services engineer, and shall allow here or in his prices for doing so. Unless otherwise described, all holes through concrete walls, floors, beams, columns and the like shall be formed with form work when the concrete is poured.				
B	<u>Assistance to Consultant</u> Allow for providing all reasonable information, labour and facilities required by the Consultant in carrying out their duties in connection with this contract.				
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Bills of Quantities</u>				
	The Contractor shall not alter the these Bills of Quantities		Item		
	A price or rate shall be entered against each item in these Bills of Quantities. Any item not priced shall be deemed to be allowed in other prices or rates in these bills. The prices or rates inserted shall be the fully inclusive value of the work described under the several items including all costs and expenses which shall be required in and for the execution of the work described.				
	The Contractor shall submit his priced Bills of Quantities for examination prior to the signing of the Contract.		Item		
B	<u>Obscurities</u>				
	Should there be any doubt or obscurity as to the meaning of any portion of the bills of quantities, the Contractor shall submit in writing, particulars of such doubt or obscurity as possible in order that the doubt or obscurity may be removed prior to the submission of his tender.		Item		
C	<u>Specification</u>				
	The whole of the Works are to be executed generally in accordance with the "General Specification" published by the Government of Ghana, except where otherwise described in these Bills of Quantities.		Item		
D	<u>Alternatives etc to the Contract Documents</u>				
	Any alteration, amendment, addition to or deletion from the printed text of these Contract Documents or the Form of Tender by the Contractor without the express authorization of the Consultant will be invalid and not recognised or taken into account in interpreting the obligations and requirements of the Contract Documents.		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>Pricing Bills of Quantities</u></p> <p>The pricing of these Bills of Quantities is to be in Ghana currency (GHS) and is to be in ink throughout. Should the priced Bills of Quantities of the Tender considered for acceptance show (after a complete arithmetical check) a difference between the tender and the arithmetically correct figure the difference will be brought to the relevant Contractor's notice and with his consent the prices of the "Builder's Work" (that is the arithmetically correct figure less all Prime Cost(P.C) and Provisional Sums and Contingencies shall be subject of adjustment so that the original tender figure remains unaltered. Variations of "Builder's Work" will be subject to adjustment. The Contractor will be deemed to have included in his tender for the obligations and requirements of all items in these Contract Documents whether or not he has placed a rate or price against the items. The rates and prices included against priced items are deemed to include for and to be sufficient to enable the Contractor to perform the obligations and requirements of those items not priced without further charge.</p>				
			Item		
B	<p><u>Programme and Progress Charts</u></p> <p>The Contractor shall, in collaboration with the Principal Nominated Sub-contractor and before the commencement of the Works submit a realistic programme and progress charts for the Consultant's approval and shall keep this chart as the Works Proceed.</p> <p>The Contractor should attach great importance to the preparation of realistic programmes and charts having regard to the damages for delays, and the fact that it would be impracticable for the Consultant to issue all drawings and to nominate all Sub-contractors and Suppliers during the early stages of the Works.</p> <p>In addition to his obligations under Clause (19) of the Conditions of Contract, the Contractor shall also be required to report in detail in the progress achieved at monthly intervals until completion, to give reasons for any delays that may have occurred, and to amend the programme for the work in the light of the progress so far achieved.</p>				
			Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Certificates and Valuations</u> When assessing the value of work executed for the purpose of interim certificates the "Preliminaries"(excluding any Prime Cost and Provisional Sums and values of Water and Insurances and "other items of expenditure" appearing in the General Summary will neither be expressed as a percentage addition to the balance of the Contract Sum nor the Contract Period, but each priced item will be assessed seperately depending upon its cost to the Contractor during the whole of the Contract Period.		Item		
B	<u>Overtime</u> The Contractor shall be held to have made all inquiries as to the source of his labour and to have made all provisions in his tender for every cost to him of providing and maintaining the labour necessary to complete the contract including all extra and additional works in the contract time, including all overtime and weekend working which he considers he shall require and supervisory costs associated therewith. No extra will be allowed on the Contract Sum for this Clause.		Item		
C	<u>Records of Temperature, Visitors, etc.</u> The Contractor shall keep accurate records of the temperature, visitors and any other occurrences affecting the progress or quality of the Works.		Item		
D	<u>Daily Records</u> The Contractor shall furnish the Consultant with statements showing the number of men employed in all trades daily and with delivery notes of all materials delivered to the Site.		Item		
E	<u>Drawings</u> All drawings and tracings, photoprints of drawings or writings(except letters) shall be considered by all parties concerned to be the sole property of the Consultant and they must be returned to him on the Completion of the Works. The drawings maintained on the site are to be carefully mounted on boards of correct sizes for the relative drawings and covered with a coat of approved varnish. They are to be protected from the ravages of termites, ants, silver fish and other insects.		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>Enforcement of Conditions</u></p> <p>It must be clearly understood that the whole of the Conditions are intended to be strictly enforced and that no extra charges in respect of extra work will be allowed unless they are clearly outside the spirit and meaning of the Conditions or unless such Works shall have been ordered in writing by the Consultant.</p>		Item		
B	<p><u>Dismissal of Persons from Site</u></p> <p>The Contractor shall on the written request of the Consultant or his representative on the site immediately dismiss from the Works any person employed by him thereon, who may in the opinion of the Consultant be incompetent or misconduct himself and such person shall not again be employed on the Works without the written permission of the Consultant.</p>		Item		
C	<p><u>Watching and Protecting the Works</u></p> <p>The Contractor shall allow for protecting the works and all sections of it from time to time from bad weather and other aspects that are necessary to ensure goodness of the works.</p>		Item		
D	<p><u>Proper Execution of the Works</u></p> <p>The Contractor shall provide and do everything necessary for the proper execution of the works according to the true intent and meaning of the drawings, whether the same may or may not be particularly shown on the drawings, provided that the same is reasonably to be inferred therefrom. Figured dimensions to be followed in preference to scale dimensions and particulars to be taken from the actual work.</p>		Item		
E	<p><u>Temporary Roads</u></p> <p>The Contractor shall make and maintain in good condition, alter and adapt existing roads, hard standing, ramps and the like on the site required for the execution of the Works.</p> <p>The positions of temporary roads and the like, shall be decided with the agreement of the Consultant who will require them to follow the lines of the permanent roads where possible.</p> <p>The hard core and other foundations of new permanent roads and the like may be used provided they are made good at the Contractor's own expense. The finished surface may not be used except with the permission of the Consultant.</p>		Item		
Carried to Collection					

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Availability of Materials</u> The Contractor shall make full inquiries and satisfy himself that the materials which are described in these Bills of Quantities and to which his prices relate will be available in sufficient quantities to enable him to complete the Works in the Contract time and no claim will be entertained on the grounds that the Contractor had to resort to alternative source of supply for materials specified.		Item		
B	<u>Water for the Works</u> Allow for providing the whole of the water required for the execution of the works including that required by Sub- Contractors whether nominated or not and including paying all fees and charges in connection, providing all temporary distribution pipework and storage tanks and make clear away when no longer required or on completion and make good all works disturbed.		Item		
C	<u>Temporary Electric Power and Lighting</u> Allow for providing all electric power and lighting required for the execution of the works to enable the Contractor and the Sub-Contractors whether nominated or not to complete the works, in a specified time, including that for the workmen of any Sub- Contractors or special treatment which must be provide by the Contractor as his own expense together with all temporary arrangement for distribution and clear away when no longer required or on completion and make good all work disturbed.		Item		
D	<u>Regulations and Bye Laws</u> The Contractor shall conform to the provision or any regulations and bye laws as interpreted and directed by the Kumasi Metropolitan Assembly. The Contractor shall give all notices required by the Acts, regulations or bye laws and shall provide for and pay all fees and charges in connection therewith to the appropriate authorities.		Item		
E	<u>Entry into Building Area</u> The Contractor shall restrict entry into the building area to his own and Sub-Contractors' workmen and persons duly authorized by the Employer. The Contractor shall not permit any workmen, materials or plant to encroach beyond the confines allotted.		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Plant, Tools and Vehicles</u> Allow for providing all scaffolding, cranes, hoists, vehicles tackle and other plant shuttering profiles, and apparatus generally required for the proper execution of the work. The Contractor shall provide without extra charge all labour and equipment or apparatus required by the Consultant for testing and measuring the Works and for weighing, proving or testing the efficiency of any portion of the work, and shall also at his own cost provide all planking, gangways, etc. necessary for affording access to every part of the works.		Item		
B	<u>Temporary Stores</u> Allow for providing and maintaining proper sheds for the storage and protection of materials etc. and other work that may be brought or executed at the site and remove on completion. Sheds for the storage of cement is to have floor raised from the ground.		Item		
C	<u>Materials on Site</u> The location of storage areas for materials on site shall be by arrangement with the Consultant.		Item		
D	<u>Shelters For The Workmen</u> The Contractor shall provide, erect and maintain shelters for the use of the workmen, furnished with tables, benches, etc. as may be reasonably required by the workmen for the preparation and consumption of their meals together with an adequate supply of clean drinking water and clear away and make good all work disturbed.		Item		
E	<u>Transport for Work People</u> Allow for paying costs in connection with the provision of transport for work people.		Item		
F	<u>Maintenance of Public and Private Roads</u> The Contractor shall take care in loading or unloading materials for the works to ensure that the public road ways and foot paths are not obstructed or that traffic is not impeded and that all rubbish arising from the works is stacked, trimmed and kept up as close and tidy as possible. The Contractor shall not be permitted to use the paved surface of any public road way or footpath for the mixing or storage of materials.				
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
	<p>(b) For the use of Employer's Representative.</p> <p>Allow for providing during the period of the Works, Well Air-Conditioned Offices with total floor area of not less than 25 square metres suitably divided, as directed by the Consultant so as to provide separate offices for the use of the Clerk of Works, the Resident Engineer, the Consultant, the lavatory and washing accomodation. Allow for furnishing these offices with suitable refridgerators, chairs, tables, plan chests, and shelving as required, also making good.</p> <p>The contract shall provide 1Nr. 6GB memory HP Laptop with 22" screen and 1Nr. HP designjet T1100 and 1Nr. HP laserjetP2025 for use of consultant's office.</p>		Item		
A	<p><u>Latrines</u></p> <p>The Contractor shall provide adequate latrine accommodation in a position approved by the Consultant and shall keep same in a clean and sanitary condition to the satisfaction of the Public Health Authorities. The Contractor shall cause such latrines and soil to be cleared away whenever necessary and make good all work disturbed by the conveniences.</p>		Item		
B	<p><u>Watchman's Hut</u></p> <p>Allow for providing a suitable temporary hut for the watchman and clear away when no longer required and provide all necessary attendance, lights, etc., required.</p>		Item		
C	<p><u>Artists and Tradesmen</u></p> <p>The Contractor shall at all times give access to workmen employed by the local or other authorities or any other parties employed on the building.</p>		Item		
D	<p><u>Religious Rites</u></p> <p>The performance of religious rites shall not be interfered with unnecessary.</p>		Item		
E	<p><u>Order Materials</u></p> <p>On the date of the signing of the Contract the Contractor is to make a review of the materials he will require for the execution of the Works and he is to place orders for such materials without delay in order that materials are delivered to the site as required. All materials which can be stored on site with the approval of the Consultant without deterioration or damage are to be purchased and stored as soon as possible.</p>		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Proprietary Articles or Materials</u> In the Contract Bills in all instances in which articles and materials of a proprietary manufacture and described, articles and materials of different manufacture may be substituted provided that such articles and materials are similar in design and detail, size, shape and quality to those described and are equally suitable for the purpose for which they are required and provided such substituted articles and materials have been approved in writing by the Consultant		Item		
B	<u>Prime Cost and Provisional Sums</u> All Prime Cost and Provisional Sums shall be expended as the Consultant may direct, or they shall be paid to the tradesmen selected by the Consultant, or they may be entirely deducted as the Consultant may decide, or the Employer may pay all or any portion of such net provisional and Prime Cost Sums direct and deduct the same (including profit, carriage or other charges which may have been added) from the Contract. The receipted vouchers for all articles for which Prime Cost amounts are specified and for work executed under Provisional Sums must be produced at the final settlement of account and the final certificate will not be issued until such receipts have been produced.		Item		
C	<u>Contract Bills and Method of Measurement</u> The method of measurement has been abridged to reduce and simplify the number of items. The Contractor's attention is drawn to these amendments which are set out under "Amendments to Standard Method of Measurement - Fifth Edition", and tender figures are to include for the labour and materials included therein. Any error in description or in quantity or in omission of items from the Contract Bill shall not vitiate this Contract but shall be corrected and deemed to be a variation required by the Consultant.		Item		
D	<u>Definitions of "General Attendance" and "Special Attendance"</u> (a) "General Attendance" on nominated Sub- Contractors shall be deemed to include only for allowing use of standing scaffolding, mess rooms sanitary accommodation and welfare facilities, providing space for office accommodation and for storage of plant and materials; providing water for their work; clearing away rubbish. providing space for office accommodation and (b) "Special Attendance" on Nominated Sub- Contractors has been given in the Bill as an item in each case.		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>Adjustment of Profit and Attendance</u></p> <p>The Contractor's attention is drawn to fact that where applicable after Prime Cost Sums, separate items have been given for:</p> <p>a) "Add for profit" b)"Add for general attendance" c)"Add for special attendance"</p> <p>The amount included by the Contractor under item a)above will be adjusted pro rata to the actual amount expended against the Prime Cost Sum.</p> <p>The amount included by the Contract under item (b)or (c) above will only be adjusted in the event that the scope of the work changes.</p>		Item		
B	<p><u>Checking Supplier's Estimate</u></p> <p>The Contractor is responsible for checking that the quantities and claims quoted in the Supplier's estimates are correct as shown on the drawings on or schedules and for the satisfactory completion of the works.Any difficulties encountered are to be referred immediately to the Consultant.</p>		Item		
C	<p><u>Definition of "Fix"</u></p> <p>The definition of the term "Fix" as used hereinafter in connection with goods or materials provided by a Nominated Supplier shall include on the part of the Contractor the following:</p> <p>Taking delivery of all goods and materials when received on the job, unloading, stacking or placing adjacent to the works or under cover where the nature of the goods or materials are such that they may be damaged by inclement weather, handling hoisting and placing or fixing in to position,</p>		Item		
D	<p><u>Examination of works</u></p> <p>No work shall be covered up until it has been examined and passed by the Consultant</p> <p>Allow for searching during a storm or rain for any leaks in the roofs or other parts of the building, repair and remedy all such defects. Leave the premises watertight at completion and free from damp in every respect.</p>		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<p><u>Operating and Maintenance Manual</u></p> <p>The Contractor shall arrange for and provide the Consultant at hand over of project, with an operating and maintenance manual containing manufacture's printed brochures covering all items of plant, equipment and controls used for the following:-</p> <p>Electrical Installation Cold and Hot Water Installation Drainage Installation</p> <p>The brochures shall also contain:</p> <p>i)Names and addresses of installation Sub-contractor together with all the required guarantees.</p> <p>ii)Names and addresses and telephone numbers for services department and places where spare parts may be obtained.</p> <p>iii)Complete typed detailed instruction sheet for identification of each item of equipment or control.</p> <p>iv)A general description of the scope, purpose and manner of working of each system of automatic control apparatus or monitoring instrument</p> <p>v)Data on general design parameters and associated normal operating temperatures, pressures etc. based on commissioning tests.</p> <p>vi)Clear and comprehensive instructions for the starting up, running or shut down of each system or apparatus.</p> <p>vii)Instructions in respect of the care of apparatus normally subject to seasonal disuse</p>		Item		
B	<p><u>Clear Away Rubbish</u></p> <p>All shavings,cuttings and other rubbish as it accumulates from time to time during the progress of the works and at completion, including that of Sub-Contractors and special tradesmen is to be cleared and carted away and all materials condemned by the consultant or his representative to be removed.</p>		Item		
C	<p><u>Disposal of Water</u></p> <p>Allow here for keeping the excavations and the works free from general water(i.e all water except spring or running water and water below the water level in the ground.</p>				
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
	Allow here also for keeping the excavation and works free from water in the ground below water level.		Item		
A	<u>Testing Material</u> The contractor will be required to carry out tests of materials on site to prepare, pack and dispatch materials and goods to a nominated Testing Laboratory when instructed to do so by the Consultant or Engineer, and he should allow here for all cost in connection therewith (including making concrete test cubes excluding only the charge of the Laboratory for testing materials which are not found to be faulty. The Contractor's attention is drawn to the requirements in the "Concrete Work" section of the Preambles.		Item		
B	<u>Progress Photographs</u> Allow for the provision of monthly photographs for the progress of works		Item		800.00
C	<u>Antiquities</u> All objects of value or quantity found on the site shall remain the property of the employer and such finds shall be immediately reported to the Consultants.		Item		
D	<u>Advertisements</u> The Contractor shall not affix or place any placards or advertisements of any description or permit the same to be affixed or placed in or upon any hoarding gantry, building or structure.		Item		
E	<u>Signboards</u> The Contractor is to allow for providing on the site a signboard size 1200 x 900mm overall in a position and of a designed and layout to be approved by the consultant bearing the names of the consultants, Contractor and any Sub-Contractor or suppliers whom the contractor may wish to advertise.		Item		
F	<u>Inclement Weather</u> During Inclement weather the contractor shall suspend concreting and plastering for such time as the consultant may direct and shall protect from injury all works done in the course of erection.		Item		
	Carried to Collection				

Item	Description	Quantity	Unit	Rate	Amount
A	<u>Cover up and Protect</u>				
	<p>The Contractor must allow for covering up and protecting from injury from any cause all new works, also for supplying all temporary doors, protection to windows and any other requisite protection for the whole of the works executed whether by himself or special tradesman or Sub-Contractors, and any damage caused must be made good by the Contractor at his own expense.</p>				
	<p>Allow for protecting all projecting chill and mouldings and all concrete steps from injury during the progress</p>				
	<p>Allow for protecting joinery and making good all damage to same from any cause whatsoever during the performance of the contract and leave perfect to the satisfaction the Consultant at completion. Before giving up possession, the Contractor must see that all doors, sashes, etc., work easily and shall make all necessary adjustment.</p>		Item		
	Carried to Collection				

Item No.	Description	Quantity	Unit	Rate	Amount
	COLLECTION				
	Total Brought Forward from Page No.		1/1		
			1/2		
			1/3		
			1/4		
			1/5		
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			1/20		
	Carried to General Summary				

Item	Description	Quantity	Unit	Rate	Amount
	<u>Filling to make up levels</u>				
	Approved imported 'laterite' filling material, average thickness exceeding 250mm, laid in layers not exceeding 150mm thick and compacted under floor bed	143	m ³	75.00	10,725.00
	E - IN SITU CONCRETE/LARGE PRECAST CONCRETE				
	<u>E10 - In-situ Concrete</u>				
	<u>Plain in-situ concrete grade C15 - 20mm aggregate as described in:</u>				
A	Blinding bed, thickness not exceeding 150mm	8	m ³	500.00	4,000.00
	<u>Plain in-situ concrete grade C20 - 20mm aggregate as described in:</u>				
B	Founadion	10	m ³	660.00	6,600.00
	<u>Reinforced in-situ concrete grade C25 - 20mm aggregate as described in:</u>				
C	Ground beams	6	m ³	700.00	4,200.00
D	Column and lift shaft bases	77	m ³	700.00	53,900.00
E	Isolated rectangular/square columns	5	m ³	700.00	3,500.00
F	Isolated circular columns	1	m ³	700.00	700.00
G	Lift shaft wall	3	m ³	700.00	2,100.00
	<u>E20 - Formwork for in situ concrete</u>				
	<u>Sawn formwork to:</u>				
H	Edges of floor bed, plain vertical height not exceeding 250mm	87	m	8.75	761.25
J	Sides of ground beam	81	m ²	35.00	2,835.00
	Carried to Collection				89,321.25

Item	Description	Quantity	Unit	Rate	Amount
	Isolated rectangular/square column	59	m ²	35.00	2,065.00
	Isolated circular column	7	m ²	35.00	245.00
	Vertical surfaces of lift shaft wall	33	m ²	35.00	1,155.00
	<u>E30 - Reinforcement for in-situ concrete</u>				
	<u>High tensile steel reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>				
A	16mm Diameter in column and lift shaft bases	5.804	t	7,500.00	43,530.00
B	25mm Diameter bars in rectangular/square columns	0.592	t	7,500.00	4,440.00
C	20mm Diameter bars ditto	1.768	t	7,500.00	13,260.00
D	25mm Diameter bars in circular columns	0.493	t	7,500.00	3,697.50
E	12mm Diameter bars in lift wall	0.159	t	7,500.00	1,192.50
	<u>Mild Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>				
F	12mm Diameter bars in ground beams	1.311	t	5,940.00	7,787.34
G	10mm Diameter bars as rings in ground beams	0.810	t	5,940.00	4,811.40
H	10mm Diameter bars as rings in rectangular/square columns	0.247	t	5,940.00	1,467.18
J	10mm Diameter bars as rings in circular columns	0.034	t	5,940.00	201.96
K	Fabric reinforcement BS4483 reference A193 mesh 150 x 150 x 3.02kg/m ² with 200mm side and end laps	318	m ²	30.00	9,540.00
	Carried to Collection				93,392.88

Item	Description	Quantity	Unit	Rate	Amount
F - MASONRY					
<u>F10 - Brick/Block walling</u>					
	Wall of thickness 150mm solid sandcrete block work vertical in cement and sand (1:4) mortar bonding to foundation concrete	248	m ²	85.00	21,080.00
M. SURFACE FINISHES					
<u>M20. Plastered/Rendered/Roughcast coatings</u>					
	Walls, 20mm thick, width exceeding 300mm in cement and sand (1:4) mix rendering in one coat	49	m ²	30.77	1,507.73
<u>M60 - Painting/Clear finishing</u>					
A	Prepare and apply three coats Coral weathrshield or approved equal emulsion on rendered surface	49	m ²	20.00	980.00
B	Include the provisional sum of One Hundred Thousand Ghana Cedis (Gh¢ 100,000.00) for additional works under this section		Item		100,000.00
	Carried to Collection				123,567.73
COLLECTION					
	Total Brought from Page No. 2/1				32,889.30
	Total Brought from Page No. 2/2				89,321.25
	Total Brought from Page No. 2/3				93,392.88
	Total Brought from Page No. 2/4				123,567.73
<u>SUBSTRUCTURE</u>					
	Carried to Summary				339,171.16

Item	Description	Quantity	Unit	Rate	Amount
	GROUND FLOOR				
	SUPERSTRUCTURE				
	E. IN SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10 - In-situ Concrete				
	<u>Reinforced situ concrete grade C25 - 20mm aggregate as described in:</u>				
A	Suspended slab, thickness not exceeding 150mm	63	m ³	720.00	45,360.00
B	Beams attached to suspended slabs	28	m ³	720.00	20,160.00
C	Landing beam	1	m ³	720.00	720.00
D	Square column	15	m ³	720.00	10,800.00
E	Circular column	9	m ³	720.00	6,480.00
F	Staircase	8	m ³	720.00	5,760.00
G	Lift shaft wall	11	m ³	720.00	7,920.00
	E20. Formwork for in situ concrete				
	<u>Sawn formwork to:</u>				
H	Edges of suspended slab, plain vertical height not exceeding 250mm	116	m	8.75	1,015.00
J	Ditto curved do	32	m	9.00	288.00
K	Edges of staircase riser, plain vertical height not exceeding 250mm	81	m	8.75	708.75
L	Soffits of suspended slabs, slab thickness not exceeding 200mm, horizontal, height to soffit exceeding 1.50m but not exceeding 3.00m	337	m ²	35.00	11,795.00
	Carried to Collection				111,006.75

Item	Description	Quantity	Unit	Rate	Amount
A	Sides and soffits of beam/linte! attached to slabs, regular shaped, rectangular, height to soffit exceeding 1.50m but not exceeding 3.00m	293	m ²	35.00	10,255.00
B	Sides and soffits of landing beam ditto height to soffit not exceeding 1.50m	9	m ²	35.00	315.00
C	Sides of columns attached to wall, regular shaped, rectangular, height exceeding 3.00m above floor level	178	m ²	35.00	6,230.00
D	Sides of circular columns attached to wall, regular shaped, circular, height exceeding 3.00m above floor level	21	m ²	35.00	735.00
E	Sloping soffit of staircase	26	m ²	35.00	910.00
F	Sides of staircase string	11	m ²	35.00	385.00
G	Internal and external surfaces of lift shaft wall	115	m ²	35.00	4,025.00
E30. Reinforcement for in situ concrete					
<u>High Tensile Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>					
H	25mm Diameter bars, horizontal in floor beams	2.506	t	7,500.00	18,795.00
J	20mm Diameter bars in ditto	3.321	t	7,500.00	24,907.50
K	8mm Diameter bars as link in ditto	1.150	t	7,500.00	8,625.00
L	25mm Diameter bars, vertical in square/rectangular column	0.916	t	7,500.00	6,870.00
M	16mm Diameter bars in ditto	0.125	t	7,500.00	937.50
N	12mm Diameter bars in ditto	2.540	t	7,500.00	19,050.00
O	25mm Diameter bars vertical in circular column	0.763	t	7,500.00	5,722.50
P	16mm Diameter bars, vertical on slope in staircases	0.874	t	7,500.00	6,555.00
Q	12mm Diameter bars, horizontal in staircases	0.448	t	7,500.00	3,360.00
Carried to Collection					117,677.50

Item	Description	Quantity	Unit	Rate	Amount
<u>High tensile steel bars Cont'd</u>					
A	12mm Diameter bars, horizontal and vertical in lift shaft wall	0.701	t	7,500.00	5,257.50
B	12mm Diameter bars, horizontal in suspended floor slab	8.505	t	7,500.00	63,787.50
<u>Mild Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>					
C	10mm Diameter bars as link in column	0.764	t	5,940.00	4,538.16
D	10mm Diameter bars as link in circular column	0.011	t	5,940.00	65.34
Carried to Collection					73,648.50
COLLECTION					
Total Brought From Page No 2/5					111,006.75
Total Brought From Page No 2/6					117,677.50
Total Brought From Page No 2/7					73,648.50
<u>E. IN SITU CONCRETE/LARGE PRECAST CONCRETE</u>					
Carried to Summary					302,332.75

Item	Description	Quantity	Unit	Rate	Amount
F. MASONRY					
F10. Brick/Block walling					
A	Wall, thickness 150mm solid sandcrete block work vertical in cement and sand (1:4) mortar bonding to other work	312	m ²	85.00	26,520.00
B	Ditto curved	271	m ²	85.00	23,035.00
E. MASONRY					
Carried to Summary					49,555.00
L. WINDOWS / DOORS/ STAIRS					
L11 Metal windows/roof lights/screens/louvres					
Windows					
B	<u>Aluminium Framed Glazed Window</u> <u>Supply, fabricate and fix aluminium windows with 25 microns anodized extruded aluminium powder coated sections fixed with double 5mm thick tinted float glass including fly screens and all necessary fixing accessories and hardware as described in:</u>				
C	4-Bays sliding window size 3850 x 2600mm high overall (Detailed as W2)	6	Nr	7,007.00	42,042.00
D	2-Bays sliding window size 1950 x 2600mm high overall (Detailed as W5)	2	Nr	3,549.00	7,098.00
E	1-Bays sliding window size 1000 x 1000mm high overall (Detailed as W1)	6	Nr	700.00	4,200.00
Carried to Collection					53,340.00

Item	Description	Quantity	Unit	Rate	Amount
<u>Window Burglar Proofing</u>					
<u>Supply and fix preformed metal unit as burglar proof comprising 25 x 25mm square pipes vertically positioned with 25 x 6mm thick flat plates cut into shapes as braces, welded and jointed as on unit and fixed into position</u>					
A	4-Bays sliding window size 3850 x 2600mm high overall (Detailed as W2)	6	Nr	2,652.65	15,915.90
B	2-Bays sliding window size 1950 x 2600mm high overall (Detailed as W5)	2	Nr	1,343.55	2,687.10
C	1-Bays sliding window size 1000 x 1000mm high overall (Detailed as W1)	6	Nr	265.00	1,590.00
<u>L20. Timber doors/Shutters/Hatches</u>					
<u>Composite Item</u>					
<u>44mm Thick continuous solid core block flush door comprising top and bottom rails, hardwood stiles with hinge and lock block on both sides and finished with hardwood face veneer complete with door frames, architraves, trims and hang on 100mm 1½ pair brass butt hinges and locks (Ironmongery as Assa Abloy or approved equal)</u>					
D	Door size 900 x 2050mm high overall	5	Nr	950.00	4,750.00
F	Single door size 650 x 2050mm high overall	5	Nr	880.00	4,400.00
<u>Glazed doors</u>					
<u>Aluminium Framed Glazed Window</u>					
<u>Supply, fabricate and fix aluminium windows with 25 microns anodized extruded aluminium powder coated sections fixed with double 5mm thick tinted float glass including fly screens and all necessary fixing accessories and hardware as described in:</u>					
F	Sliding door size 3000 x 3430mm	5	Nr	8,849.40	44,247.00
Carried to Collection					73,590.00

Item	Description	Quantity	Unit	Rate	Amount
	<u>L31. Metal Stairs/Walkways/Balustrades</u>				
A	Include the provisional sum of Forty Thousand Ghana Cedis (Gh¢ 40,000.00) for the supply and installation of steel pipe balustrade along corridors and staircases		Item		40,000.00
	Carried to Collection				40,000.00
COLLECTION					
	Total Brought From Page No 2/8				53,340.00
	Total Brought From Page No 2/9				73,590.00
	Total Brought From Page No 2/10				40,000.00
 <u>L. WINDOWS / DOORS / STAIRS</u>					
	Carried to Summary				166,930.00

Item	Description	Quantity	Unit	Rate	Amount
M. SURFACE FINISHES					
M10. Sand Cement/Concrete/Granolithic Screeds/Flooring					
A	Floors, level and to falls only not exceeding 15degrees from horizontal, 31mm thick in cement and sand (1:3) mix screeding to receive floor tiles	424	m ²	45.00	19,080.00
B	Ditto on staircase tread	23	m ²	45.00	1,035.00
C	Ditto on staircase riser 150mm high	81	m	6.75	546.75
M20. Plastered/Rendered/Roughcast coatings					
<u>Cement and sand (1:4) mix render in one coat finished smooth on:</u>					
D	Walls, 13mm thick render, width exceeding 300mm	1044	m ²	25.00	26,100.00
E	Walls, 13mm thick render to receive wall tiles, width exceeding 300mm	199	m ²	25.00	4,975.00
F	13mm Thick, Soffit of suspended floor slab	337	m ²	25.00	8,425.00
G	13mm Thick, sides and soffit of beams	264	m ²	25.00	6,600.00
H	Ditto to circular column	21	m ²	25.00	525.00
J	Ditto to square/rectangular column	134	m ²	25.00	3,350.00
M40. Stone/Concrete/Quarry/Ceramic Tiling/Mosaic					
<u>Wall</u>					
K	500 x 250 x 8mm Thick coloured glazed ceramic wall tiles, laid, jointed and pointed with cement grout on (1:4) cement and sand (1:4) backing measured separately	199	m ²	110.00	21,890.00
<u>Floor</u>					
L	600 x 600 x 10mm Thick Italian/Spanish porcelain polished floor tiles, laid to an approved pattern with tiles adhesive with joints grouted with cement grout	387	m ²	145.00	56,115.00
Carried to Collection					148,641.75

Item	Description	Quantity	Unit	Rate	Amount
A	600 x 250 x 10mm Thick Italian/Spanish porcelain non slip floor tiles, laid to an approved pattern with tiles adhesive with joints grouted with cement grout	37	m ²	130.00	4,810.00
	<u>M60. Painting/Clear finishing</u>				
	<u>Prepare and apply three coats of (Acrylic) emulsion paint as described on:</u>				
B	Walls, 13mm thick render, width exceeding 300mm	1044	m ²	20.00	20,880.00
C	13mm Thick, Soffit of suspended floor slab	337	m ²	20.00	6,740.00
D	13mm Thick, sides and soffit of beams	264	m ²	20.00	5,280.00
E	Ditto to circular column	21	m ²	20.00	420.00
F	Ditto to square/rectangular column	134	m ²	20.00	2,680.00
	Carried to Collection				40,810.00
	COLLECTION				
	Total Brought From Page No 2/11				148,641.75
	Total Brought From Page No 2/12				40,810.00
	<u>M. SURFACE FINISHES</u>				
	Carried to Summary				189,451.75

Item	Description	Quantity	Unit	Rate	Amount
	FIRST FLOOR				
	E. IN SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10 - In-situ Concrete				
	<u>Reinforced situ concrete grade C25 - 20mm aggregate as described in:</u>				
A	Suspended slab, thickness not exceeding 150mm	63	m ³		-
B	Beams attached to suspended slabs	32	m ³	700.00	22,400.00
C	Landing beam	1	m ³	700.00	700.00
D	Square column	15	m ³	700.00	10,500.00
E	Circular column	9	m ³	700.00	6,300.00
F	Staircase	7	m ³	700.00	4,900.00
G	Lift shaft wall	11	m ³	700.00	7,700.00
	E20. Formwork for in situ concrete				
	<u>Sawn formwork to:</u>				
H	Edges of suspended slab, plain vertical height not exceeding 250mm	107	m	8.75	936.25
J	Ditto curved do	32	m	8.75	280.00
K	Edges of staircase riser, plain vertical height not exceeding 250mm	81	m	35.00	2,835.00
L	Soffits of suspended slabs, slab thickness not exceeding 200mm, horizontal, height to soffit exceeding 1.50m but not exceeding 3.00m	386	m ²	35.00	13,510.00
M	Sides and soffits of beam/lintel attached to slabs, regular shaped, rectangular, height to soffit exceeding 1.50m but not exceeding 3.00m	338	m ²	35.00	11,830.00
	Carried to Collection				81,891.25

Item	Description	Quantity	Unit	Rate	Amount
A	Sides and soffits of landing beam ditto height to soffit not exceeding 1.50m	9	m ²	35.00	315.00
B	Sides of columns attached to wall, regular shaped, rectangular, height exceeding 3.00m above floor level	178	m ²	35.00	6,230.00
C	Sides of circular columns attached to wall, regular shaped, circular, height exceeding 3.00m above floor level	21	m ²	35.00	735.00
D	Sloping soffit of staircase	26	m ²	35.00	910.00
E	Sides of staircase string	11	m ²	35.00	385.00
F	Internal and external surfaces of lift shaft wall	115	m ²	35.00	4,025.00
	E30. Reinforcement for in situ concrete				
	<u>High Tensile Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>				
G	25mm Diameter bars, horizontal in floor beams	2.506	t	7,500.00	18,795.00
H	20mm Diameter bars in ditto	3.321	t	7,500.00	24,907.50
J	8mm Diameter bars as link in ditto	1.150	t	7,500.00	8,625.00
K	25mm Diameter bars, vertical in square/rectangular column	0.916	t	7,500.00	6,870.00
L	16mm Diameter bars in ditto	0.125	t	7,500.00	937.50
M	12mm Diameter bars in ditto	2.540	t	7,500.00	19,050.00
N	25mm Diameter bars vertical in circular column	0.763	t	7,500.00	5,722.50
O	16mm Diameter bars, vertical on slope in staircases	0.875	t	7,500.00	6,562.50
P	12mm Diameter bars, horizontal in staircases	0.199	t	7,500.00	1,492.50
Q	12mm Diameter bars, horizontal and vertical in lift shaft wall	0.701	t	7,500.00	5,257.50
R	12mm Diameter bars, horizontal in suspended floor slab	6.727	t	7,500.00	50,452.50
	Carried to Collection				161,272.50

Item	Description	Quantity	Unit	Rate	Amount
	<u>Mild Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>				
A	10mm Diameter bars as link in column	0.764	t	5,940.00	4,538.16
B	10mm Diameter bars as link in circular column	0.011	t	5,940.00	65.34
	Carried to Collection				4,603.50
COLLECTION					
	Total Brought From Page No 3/1				81,891.25
	Total Brought From Page No 3/2				161,272.50
	Total Brought From Page No 3/3				4,603.50
<u>E. IN SITU CONCRETE/LARGE PRECAST CONCRETE</u>					
	Carried to Summary				247,767.25

Item	Description	Quantity	Unit	Rate	Amount
F. MASONRY					
F10. Brick/Block walling					
A	Wall, thickness 150mm solid sandcrete block work vertical in cement and sand (1:4) mortar bonding to other work	389	m ²	85.00	33,065.00
B	Ditto curved	219	m ²	85.00	18,615.00
E. MASONRY					
Carried to Summary					51,680.00
L. WINDOWS / DOORS/ STAIRS					
L11 Metal windows/roof lights/screens/louvres					
Windows					
B	<u>Aluminium Framed Glazed Window</u> Supply, fabricate and fix aluminium windows with 25 microns anodized extruded aluminium powder coated sections fixed with double 5mm thick tinted float glass including fly screens and all necessary fixing accessories and hardware as described in:				
C	4-Bays sliding window size 3850 x 2600mm high overall (Detailed as W2)	6	Nr	7,007.00	42,042.00
D	2-Bays sliding window size 1950 x 2600mm high overall (Detailed as W5)	2	Nr	3,549.00	7,098.00
E	1-Bays sliding window size 1000 x 1000mm high overall (Detailed as W1)	6	Nr	700.00	4,200.00
Carried to Collection					53,340.00

Item	Description	Quantity	Unit	Rate	Amount
	<u>Window Burglar Proofing</u>				
	<u>Supply and fix preformed metal unit as burglar proof comprising 25 x 25mm square pipes vertically positioned with 25 x 6mm thick flat plates cut into shapes as braces, welded and jointed as on unit and fixed into position</u>				
A	4-Bays sliding window size 3850 x 2600mm high overall (Detailed as W2)	6	Nr	2,652.65	15,915.90
B	2-Bays sliding window size 1950 x 2600mm high overall (Detailed as W5)	2	Nr	1,343.55	2,687.10
C	1-Bays sliding window size 1000 x 1000mm high overall (Detailed as W1)	6	Nr	265.00	1,590.00
	<u>L20. Timber doors/Shutters/Hatches</u>				
	<u>Composite Item</u>				
	<u>44mm Thick continuous solid core block flush door comprising top and bottom rails, hardwood stiles with hinge and lock block on both sides and finished with hardwood face veneer complete with door frames, architraves, trims and hang on 100mm 1½ pair brass butt hinges and locks (Ironmongery as Assa Abloy or approved equal)</u>				
D	Door size 900 x 2050mm high overall	5	Nr	950.00	4,750.00
E	Single door size 650 x 2050mm high overall	6	Nr	880.00	5,280.00
	<u>Glazed doors</u>				
	<u>Aluminium Framed Glazed Window</u>				
	<u>Supply, fabricate and fix aluminium windows with 25 microns anodized extruded aluminium powder coated sections fixed with double 5mm thick tinted float glass including fly screens and all necessary fixing accessories and hardware as described in:</u>				
F	Sliding door size 3000 x 3430mm	3	Nr	8,849.40	26,548.20
	Carried to Collection				56,771.20

Item	Description	Quantity	Unit	Rate	Amount
	<u>L31. Metal Stairs/Walkways/Balustrades</u>				
A	Include the provisional sum of Forty Thousand Ghana Cedis (Gh¢ 40,000.00) for the supply and installation of steel pipe balustrade along corridors and staircases		Item		40,000.00
	Carried to Collection				40,000.00
COLLECTION					
	Total Brought From Page No 3/4				53,340.00
	Total Brought From Page No 3/5				56,771.20
	Total Brought From Page No 3/6				40,000.00
 <u>L. WINDOWS / DOORS / STAIRS</u>					
	Carried to Summary				150,111.20

Item	Description	Quantity	Unit	Rate	Amount
	M. SURFACE FINISHES				
	M10. Sand Cement/Concrete/Granolithic Screeds/Flooring				
A	Floors, level and to falls only not exceeding 15degrees from horizontal, 31mm thick in cement and sand (1:3) mix screeding to receive floor tiles	424	m ²	45.00	19,080.00
B	Ditto on staircase tread	23	m ²	45.00	1,035.00
C	Ditto on staircase riser 150mm high	81	m	6.75	546.75
	M20. Plastered/Rendered/Roughcast coatings				
	<u>Cement and sand (1:4) mix render in one coat finished smooth on:</u>				
D	Walls, 13mm thick render, width exceeding 300mm	1072	m ²	25.00	26,800.00
E	Walls, 13mm thick render to receive wall tiles, width exceeding 300mm	199	m ²	25.00	4,975.00
F	13mm Thick, Soffit of suspended floor slab	386	m ²	25.00	9,650.00
G	13mm Thick, sides and soffit of beams	264	m ²	25.00	6,600.00
H	Ditto to circular column	21	m ²	25.00	525.00
J	Ditto to square/rectangular column	134	m ²	25.00	3,350.00
	M40. Stone/Concrete/Quarry/Ceramic Tiling/Mosaic				
	<u>Wall</u>				
K	500 x 250 x 8mm Thick coloured glazed ceramic wall tiles, laid, jointed and pointed with cement grout on (1:4) cement and sand (1:4) backing measured separately	199	m ²	110.00	21,890.00
	<u>Floor</u>				
L	600 x 600 x 10mm Thick Italian/Spanish porcelain polished floor tiles, laid to an approved pattern with tiles adhesive with joints grouted with cement grout	387	m ²	145.00	56,115.00
	Carried to Collection				150,566.75

Item	Description	Quantity	Unit	Rate	Amount
A	600 x 250 x 10mm Thick Italian/Spanish porcelain non slip floor tiles, laid to an approved pattern with tiles adhesive with joints grouted with cement grout	37	m ²	130	4,810.00
	<u>M60. Painting/Clear finishing</u>				
	<u>Prepare and apply three coats of (Acrylic) emulsion paint as described on:</u>				
B	Walls, 13mm thick render, width exceeding 300mm	1166	m ²	20.00	23,320.00
C	13mm Thick, Soffit of suspended floor slab	386	m ²	20.00	7,720.00
D	13mm Thick, sides and soffit of beams	264	m ²	20.00	5,280.00
E	Ditto to circular column	21	m ²	20.00	420.00
F	Ditto to square/rectangular column	134	m ²	20.00	2,680.00
	Carried to Collection				44,230.00
	COLLECTION				
	Total Brought From Page No 3/7				150,566.75
	Total Brought From Page No 3/8				44,230.00
	<u>M. SURFACE FINISHES</u>				
	Carried to Summary				194,796.75

Item	Description	Quantity	Unit	Rate	Amount
	SECOND FLOOR				
	E. IN SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10 - In-situ Concrete				
	<u>Reinforced situ concrete grade C25 - 20mm aggregate as described in:</u>				
A	Suspended concrete roof slab, thickness not exceeding 150mm	24	m ³	700.00	16,800.00
B	Beams attached to suspended slabs	25	m ³	700.00	17,500.00
C	Upstand beam	20	m ³	700.00	14,000.00
D	Landing beam	1	m ³	700.00	700.00
E	Square column	15	m ³	700.00	10,500.00
F	Circular column	9	m ³	700.00	6,300.00
G	Staircase	14	m ³	700.00	9,800.00
H	Lift shaft wall	11	m ³	700.00	7,700.00
J	Concrete coping	4	m ³	700.00	2,800.00
	E20. Formwork for in situ concrete				
	<u>Sawn formwork to:</u>				
K	Edges of suspended roof slab, plain vertical height not exceeding 250mm	186	m	8.75	1,627.50
L	Ditto curved do	32	m	35.00	1,120.00
M	Edges of staircase riser, plain vertical height not exceeding 250mm	162	m	35.00	5,670.00
N	Soffits of suspended slabs, slab thickness not exceeding 200mm, horizontal, height to soffit exceeding 1.50m but not exceeding 3.00m	264	m ²	35.00	9,240.00
O	Side and soffit of coping	15	m ²	35.00	525.00
	Carried to Collection				104,282.50

Item	Description	Quantity	Unit	Rate	Amount
A	Sides and soffits of beam/lintel attached to slabs, regular shaped, rectangular, height to soffit exceeding 1.50m but not exceeding 3.00m	293	m ²	35.00	10,255.00
B	Sides of upstand beam ditto height to soffit not exceeding 1.50m	163	m ²	35.00	5,705.00
C	Sides and soffits of landing beam ditto height to soffit not exceeding 1.50m	18	m ²	35.00	630.00
D	Soffits of suspended roof slabs, slab thickness not exceeding 200mm, horizontal, height to soffit exceeding 1.50m but not exceeding 3.00m	264	m ²	35.00	9,240.00
E	Sides of columns attached to wall, regular shaped, rectangular, height exceeding 3.00m above floor level	178	m ²	35.00	6,230.00
F	Sides of circular columns attached to wall, regular shaped, circular, height exceeding 3.00m above floor level	21	m ²	35.00	735.00
G	Sloping soffit of staircase	52	m ²	35.00	1,820.00
H	Sides of staircase string	22	m ²	35.00	770.00
J	Internal and external surfaces of lift shaft wall	115	m ²	35.00	4,025.00
<u>E30. Reinforcement for in situ concrete</u>					
<u>High Tensile Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>					
K	25mm Diameter bars, horizontal in beams	2.506	t	7,500.00	18,795.00
L	20mm Diameter bars in ditto	3.321	t	7,500.00	24,907.50
M	8mm Diameter bars as link in ditto	1.150	t	7,500.00	8,625.00
N	20mm Diameter bars in upstand beam	4.866	t	7,500.00	36,495.00
O	8mm Diameter bars as link in ditto	1.620	t	7,500.00	12,150.00
P	25mm Diameter bars, vertical in square/rectangular column	0.916	t	7,500.00	6,870.00
Q	16mm Diameter bars in ditto	0.125	t	7,500.00	937.50
Carried to Collection					148,190.00

Item	Description	Quantity	Unit	Rate	Amount
<u>High Tensile Steel Reinforcement bar Cont'd</u>					
A	12mm Diameter bars in ditto	2.540	t	7,500.00	19,050.00
B	25mm Diameter bars vertical in circular column	0.763	t	7,500.00	5,722.50
C	16mm Diameter bars, vertical on slope in staircases	0.874	t	7,500.00	6,555.00
D	12mm Diameter bars, horizontal in staircases	0.448	t	7,500.00	3,360.00
E	12mm Diameter bars, horizontal and vertical in lift shaft wall	0.701	t	7,500.00	5,257.50
F	10mm Diameter bars, horizontal in coping	0.034	t	7,500.00	255.00
G	12mm Diameter bars, horizontal in suspended roof slab	3.950	t	7,500.00	29,625.00
<u>Mild Steel Reinforcement bar in cuts, bends, hooks, spacers, chairs and fixed into positions in accordance to specifications and schedule:</u>					
H	10mm Diameter bars as link in column	0.764	t	5,940.00	4,538.16
J	10mm Diameter bars as link in circular column	0.011	t	5,940.00	65.34
K	Include the provisional sum of Seventy Five Thousand Ghana Cedis (Gh¢75,000.00) for other works in this section		Item		75,000.00
Carried to Collection					149,428.50
COLLECTION					
Total Brought From Page No 4/1					104,282.50
Total Brought From Page No 4/2					148,190.00
Total Brought From Page No 4/3					149,428.50
<u>E. IN SITU CONCRETE/LARGE PRECAST CONCRETE</u>					
Carried to Summary					401,901.00

Item	Description	Quantity	Unit	Rate	Amount
F. MASONRY					
F10. Brick/Block walling					
A	Wall, thickness 150mm solid sandcrete block work vertical in cement and sand (1:4) mortar bonding to other work	497	m ²	85.00	42,245.00
B	150mm Thick ditto curved	198	m ²	85.00	16,830.00
C	150mm Thick ditto in parapet wall	169	m ²	85.00	14,365.00
E. MASONRY					
Carried to Summary					73,440.00
G. STRUCTURAL / CARCASSING METAL / TIMBER					
G20. Carpentry / Timber framing / First fixing					
<u>The following in cut, sawn hardwood, well seasoned and treated with approved creosote or other approved chemical compounds as in:</u>					
<u>Plates</u>					
D	100 x 50mm Wall plate	79	m	11.50	908.50
<u>Roof Members</u>					
E	Pitched roof member 50mm x 150mm	229	m	17.25	3,950.25
F	Ditto 100mm x 50mm	275	m	11.50	3,162.50
G	Ditto 75mm x 50mm	815	m	9.20	7,498.00
H	Ditto 50mm x 50mm	203	m	6.90	1,400.70
Carried to Collection					16,919.95

Item	Description	Quantity	Unit	Rate	Amount
	<u>Fascia boards</u>				
A	Fascia boards, width not exceeding to 300mm wrot hardwood 38mm x 300mm with splayed end at one side nailed to rafters, prime back and oil painted	19	m	23.00	437.00
	<u>Carpenter's Metalwork</u>				
B	Include the provisional sum of Fifty Thousand Ghana Cedis (Gh¢ 15,000.00) for carpenter`s metal works and other works in this section		Item		15,000.00
	Carried to Collection				15,437.00
	COLLECTION				
	Total Brought From Page No 4/4				16,919.95
	Total Brought From Page No 4/5				15,437.00
	<u>G. STRUCTURAL / CARCASSING METAL / TIMBER</u>				
	Carried to Summary				32,356.95

Item	Description	Quantity	Unit	Rate	Amount
	<u>H. CLADDING / COVERING</u>				
	H31. Metal profiled / flat sheet cladding / covering / siding				
A	0.40mm Thick self-lock pre-painted long span aluminium roof covering, 15 degrees pitch with two corrudation side lap fixed to timber purlins (measured separately) at 1000mm centres with roofing nails and washers in accordance to manufacturer's instruction	261	m ²	97.75	25,512.75
	<u>H. CLADDING / COVERING</u>				
	Carried to Summary				25,512.75
	<u>K. LININGS SHEATHING / DRY PARTITIONING</u>				
	K10. Plasterboard Dry Linings / Partitions / Ceilings				
	<u>Gypsum Board False Ceiling</u>				
B	Supply and fix 1200 x 2400 x 12mm thick plaster board on suspended framed ceiling grids with anodised aluminium 15 microns coating polyester pre-coated (50 microns), main runner T- sections 35 x 35 x 1.5mm thick suspended from ceiling with 6mm dia Ms adjustable hangers, fixed to ceiling with M.S cleat 25 x 25 x 5mm and 50mm long, fixed to RCC surface with expandable fasteners 12.5x 40mm, intermediate T section 23.5x 19x 1.5 mm thick fixed to main runner and perimeter angle 35 x 15x 1.5mm thick fixed to wall/ beam with cadmium plated steel screws with rawlplug@450mm,etc,all complete, for panel sizes .(include providing and making arrangements for fixing light, fixtures grills and diffusers in the frame work.)	246	m ²	81.65	20,085.90
	<u>K. LININGS SHEATHING / DRY PARTITIONING</u>				
	Carried to Summary				20,085.90

Item	Description	Quantity	Unit	Rate	Amount
	L. WINDOWS / DOORS/ STAIRS				
	L11 Metal windows/roof lights/screens/louvres				
	Windows				
	<u>Aluminium Framed Glazed Window</u>				
	<u>Supply, fabricate and fix aluminium windows with 25 microns anodized extruded aluminium powder coated sections fixed with double 5mm thick tinted float glass including fly screens and all necessary fixing accessories and hardware as described in:</u>				
A	4-Bays sliding window size 3850 x 2600mm high overall (Detailed as W2)	6	Nr	7,007.00	42,042.00
B	2-Bays sliding window size 1950 x 2600mm high overall (Detailed as W5)	2	Nr	3,549.00	7,098.00
C	1-Bays sliding window size 1000 x 1000mm high overall (Detailed as W1)	6	Nr	700.00	4,200.00
	<u>Window Burglar Proofing</u>				
	<u>Supply and fix preformed metal unit as burglar proof comprising 25 x 25mm square pipes vertically positioned with 25 x 6mm thick flat plates cut into shapes as braces, welded and jointed as on unit and fixed into position</u>				
D	4-Bays sliding window size 3850 x 2600mm high overall (Detailed as W2)	6	Nr	2,652.65	15,915.90
E	2-Bays sliding window size 1950 x 2600mm high overall (Detailed as W5)	2	Nr	1,343.55	2,687.10
F	1-Bays sliding window size 1000 x 1000mm high overall (Detailed as W1)	6	Nr	265.00	1,590.00
	Carried to Collection				73,533.00

Item	Description	Quantity	Unit	Rate	Amount
	<u>L20. Timber doors/Shutters/Hatches</u>				
	<u>Composite Item</u>				
	<u>44mm Thick continuous solid core block flush door comprising top and bottom rails, hardwood stiles with hinge and lock block on both sides and finished with hardwood face veneer complete with door frames, architraves, trims and hang on 100mm 1½ pair brass butt hinges and locks (Ironmongery as Assa Abloy or approved equal)</u>				
A	Door size 900 x 2050mm high overall	5	Nr	950.00	4,750.00
B	Single door size 650 x 2050mm high overall	6	Nr	880.00	5,280.00
	<u>Glazed doors</u>				
	<u>Aluminium Framed Glazed Window</u>				
	<u>Supply, fabricate and fix aluminium windows with 25 microns anodized extruded aluminium powder coated sections fixed with double 5mm thick tinted float glass including fly screens and all necessary fixing accessories and hardware as described in:</u>				
C	Sliding door size 3000 x 3430mm	2	Nr	8,849.40	17,698.80
	<u>L31. Metal Stairs/Walkways/Balustrades</u>				
D	Include the provisional sum of Eighty Thousand Ghana Cedis (Gh¢ 80,000.00) for the supply and installation of steel pipe balustrade along corridors and staircases		Item		80,000.00
	Carried to Collection				107,728.80
	COLLECTION				
	Total Brought From Page No 4/7				73,533.00
	Total Brought From Page No 4/8				107,728.80
	<u>L. WINDOWS / DOORS / STAIRS</u>				
	Carried to Summary				181,261.80

Item	Description	Quantity	Unit	Rate	Amount
M. SURFACE FINISHES					
M10. Sand Cement/Concrete/Granolithic Screeds/Flooring					
A	Floors, level and to falls only not exceeding 15degrees from horizontal, 31mm thick in cement and sand (1:3) mix screeding to receive floor tiles	424	m ²	45.00	19,080.00
B	Ditto on staircase tread	46	m ²	45.00	2,070.00
C	Ditto on staircase riser 150mm high	162	m	6.75	1,093.50
M20. Plastered/Rendered/Roughcast coatings					
<u>Cement and sand (1:4) mix render in one coat finished smooth on:</u>					
D	Walls, 13mm thick render, width exceeding 300mm	1529	m ²	25.00	38,225.00
E	Walls, 13mm thick render to receive wall tiles, width exceeding 300mm	199	m ²	25.00	4,975.00
F	13mm Thick, Soffit of suspended roof slab	264	m ²	25.00	6,600.00
G	13mm Thick, sides and soffit of beams	264	m ²	25.00	6,600.00
H	Ditto to circular column	21	m ²	25.00	525.00
J	Ditto to square/rectangular column	134	m ²	25.00	3,350.00
M40. Stone/Concrete/Quarry/Ceramic Tiling/Mosaic					
<u>Wall</u>					
K	500 x 250 x 8mm Thick coloured glazed ceramic wall tiles, laid, jointed and pointed with cement grout on (1:4) cement and sand (1:4) backing measured separately	199	m ²	110.00	21,890.00
<u>Floor</u>					
L	600 x 600 x 10mm Thick Italian/Spanish porcelain polished floor tiles, laid to an approved pattern with tiles adhesive with joints grouted with cement grout	387	m ²	145.00	56,115.00
Carried to Collection					160,523.50

Item	Description	Quantity	Unit	Rate	Amount
A	600 x 250 x 10mm Thick Italian/Spanish porcelain non slip floor tiles, laid to an approved pattern with tiles adhesive with joints grouted with cement grout	37	m ²	130.00	4,810.00
	<u>M60. Painting/Clear finishing</u>				
	<u>Prepare and apply three coats of (Acrylic) emulsion paint as described on:</u>				
B	Walls, 13mm thick render, width exceeding 300mm	1166	m ²	20.00	23,320.00
C	13mm Thick, Soffit of suspended roof floor slab	264	m ²	20.00	5,280.00
D	13mm Thick, sides and soffit of beams	264	m ²	20.00	5,280.00
E	Ditto to circular column	21	m ²	20.00	420.00
F	Ditto to square/rectangular column	134	m ²	20.00	2,680.00
	Carried to Collection				41,790.00
	COLLECTION				
	Total Brought From Page No 4/9				160,523.50
	Total Brought From Page No 4/10				41,790.00
	<u>M. SURFACE FINISHES</u>				
	Carried to Summary				202,313.50

Item	Description	Quantity	Unit	Rate	Amount
	SECOND FLOOR				
	SUMMARY				
	E. IN SITU CONCRETE/LARGE PRECAST CONCRETE				401,901.00
	F. MASONRY				73,440.00
	G. STRUCTURAL / CARCASSING METAL / TIMBER				32,356.95
	H. CLADDING / COVERING				25,512.75
	K. LININGS SHEATHING / DRY PARTITIONING				20,085.90
	L. WINDOWS / DOORS/ STAIRS				181,261.80
	M. SURFACE FINISHES				202,313.50
	<u>SECOND FLOOR</u>				
	Carried to General Summary				936,871.90

Item	Description	Quantity	Unit	Rate	Amount
	BILL No.5 - SERVICES				
	ELECTRICAL INSTALLATION				
	<u>Supply and fix the following fixtures</u>				
A	6A Sp 1 way 1 gang flush switch, as volex or approved equivalent	33	No	18.48	609.84
B	6A Sp 1 way 2 gang flush switch, as volex or approved equivalent	8	No	21.56	172.48
C	6A Sp 1 way 3 gang flush switch, as volex or approved equivalent	5	No	30.80	154.00
D	6A Sp 2 way 1 gang flush switch, as volex or approved equivalent	8	No	26.18	209.44
E	6A Sp 2 way 2 gang flush switch, as volex or approved equivalent	12	No	26.18	314.16
F	2 - Pole Switch 20A	36	No	130.90	4,712.40
G	13A wall flush SSO, 2 gang 2 Pole. As MEM or approved equivalent	200	No	42.90	8,580.00
H	15A wall flush SSO, 2 gang 4 Pole. As MEM or approved equivalent	10	No	49.50	495.00
J	63A Industrial plug, TPN+E	4	No	330.00	1,320.00
K	Street Light, Wall mounted LED lamp, 150watts	16	No	1,100.00	17,600.00
L	Surface mounted LED lamp, 18watts	102	No	116.60	11,893.20
M	Recessed LED lamp, 18watts	46	No	137.50	6,325.00
N	Photo switch (photocell) 1000watts	8	No	132.00	1,056.00
	<u>Supply, fix and connect the following complete with all accessories</u>				
O	1.4m Sweep 3-blade ceiling fan complete with multi-speed regulator as Crompton Greaves or approved equivalent	32	No	261.80	8,377.60
	Carried to Collection				61,819.12

Item	Description	Quantity	Unit	Rate	Amount
A	150mm x 90mm Flush box, galvanized type	50	No	8.80	440.00
B	90mm x 90mm Flush box, galvanized type	50	No	6.60	330.00
C	150mm x 90mm Flush box, flame retardant plastic	50	No	16.50	825.00
D	90mm x 90mm Flush box, flame retardant plastic	50	No	13.20	660.00
E	20mm Circular boxes assorted	200	No	3.85	770.00
F	250mm x 200mm Junction boxes	50	No	77.00	3,850.00
G	75 x 125mm Buttress box galvanised type	220	No	5.50	1,210.00
H	75 x 125mm Buttress box pvc type	40	No	5.50	220.00
J	75 x 75mm Buttress box galvanised type	110	No	3.85	423.50
	<u>Supply and draw into conduits the following cables of 600V grade</u>				
K	1.5mm ² NCY cable (black, blue & red)	6000	m	1.80	10,824.00
L	2.5mm ² NCY cable (black, red & green/yellow)	3800	m	2.92	11,077.00
M	4mm ² NCY cable (red, blue, yellow, black, & green/yellow)	2200	m	4.95	10,890.00
N	6mm ² NCY cable (red, blue, yellow, black, & green/yellow)	270	m	6.93	1,871.10
O	10mm ² NCY cable (red, blue, yellow, black, & green/yellow)	270	m	11.88	3,207.60
P	16mm ² NCY cable (red, blue, yellow, black, & green/yellow)	500	m	16.50	8,250.00
	<u>Supply and lay in concreted/block work the following pvc conduits and accessories</u>				
Q	20mm PVC conduits pipe	3,500	No	6.93	24,255.00
R	25mm PVC conduits pipe	2,700	No	13.86	37,422.00
S	PVC conduits bends 20mm diameter	1400	No	2.77	3,880.80
T	Circular junction cover	200	No	3.08	616.00
	Carried to Collection				121,022.00

Item	Description	Quantity	Unit	Rate	Amount
A	4C x 120mm ² PVC/SWA/PVC Copper cable	300	m	511.28	153,384.00
B	12-Way 3-Phase neutral DB	5	No	2,618.00	13,090.00
C	12-Way 1Phase DB for security devices and alarm system	1	No	1,509.20	1,509.20
D	300 x 75mm cable tray with screws, coupler, bolts, nuts and ties complete fixed to wall	12	m	165.00	1,980.00
E	Clamping system complete	5	No	110.00	550.00
F	Bolts and nuts for panel board	10	set	154.00	1,540.00
<u>Supply and fix/lay the following</u>					
G	MCCB Panel board 300A MCB Incomer and 6-Way 50A outgoing as Havells or approved equal	1	No	21,175.00	21,175.00
H	400A Change over switch	1	No	5,159.00	5,159.00
<u>Lightening</u>					
J	Taper pointed Air rod with locknuts copper material 1m long and 15mm rod diameter and 16 diameter thread	4	Set	753.50	3,014.00
K	25 x 3mm HC soft copper tape to BS 1432-C101	80	m	77.00	6,160.00
L	25 x 3mm DC clip (BS 1400 grade LG2)	12	No	6.16	73.92
M	25 x 3mm Gunmetal square tape clamp	8	No	120.12	960.96
N	Copper test clamp size 26 x 8mm	4	No	207.90	831.60
O	Air terminal base with fixing-countersuck center hole of 16mm thread copper material	4	No	165.00	660.00
P	Earthing system using 30m copper earth rod	12	No	165.00	1,980.00
Q	Earthing system using 2m earth rod buried in mixture of salt and charcoal	8	No	132.00	1,056.00
Carried to Collection					213,123.68

Item	Description	Quantity	Unit	Rate	Amount
	<u>Main Power Supply</u>				
	<u>Supply and fix/lay the following</u>				
A	120 mm ² Cable lugs	20	No	16.94	338.80
L	Excavate trench 500 x 1000mm and backfill.	300	m	16.50	4,950.00
M	ACP Protective concrete tiles	300	m	11.00	3,300.00
	<u>Supply and fix/lay the following</u>				
	Concrete identification marker	5	No	11.00	55.00
	Carried to Collection				8,643.80
	COLLECTION				
	Total Brought From Page No 5/1				61,819.12
	Total Brought From Page No 5/2				121,022.00
	Total Brought From Page No 5/3				213,123.68
	Total Brought From Page No 5/4				8,643.80
	<u>ELECTRICAL INSTALLATION</u>				
	Carried to Services Summary				404,608.60

Item	Description	Quantity	Unit	Rate	Amount
<u>PLUMBING INSTALLATION</u>					
A	8000Ltr water storage tank	8	No	5,651.80	45,214.40
B	0.5Horse power booster pump (373 W)	4	No	770.00	3,080.00
C	25mm Booster pump controller	4	No	462.00	1,848.00
D	Lift pump minimum head 45m	2	No	3,080.00	6,160.00
E	Float switch	6	No	165.00	990.00
<u>Supply and install the following uPVC pipes and fittings jointed with solvent cement</u>					
F	12mm Diameter PVC pipe	100	m	3.85	385.00
G	20mm Diameter PVC pipe	140	m	4.62	646.80
H	25mm Diameter PVC pipe	200	m	6.93	1,386.00
J	31mm Diameter PVC pipe	50	m	7.19	359.70
K	38mm Diameter PVC pipe	50	m	10.27	513.70
L	50mm Diameter PVC pipe, Class B	200	No	25.67	5,134.80
M	75mm Diameter PVC pipe,Class B	140	m	38.50	5,390.00
N	100mm Diameter PVC pipe, Class B	80	m	51.33	4,106.08
O	150mm Diameter PVC pipe, Class B	150	m	102.67	15,401.10
P	100mm Diameter Pressure pipe Class C for rain water	180	m	77.00	13,860.00
Q	12mm Diameter PVC Tee joint	30	No	1.54	46.20
R	20mm Diameter PVC Tee joint	40	No	1.54	61.60
Carried to Collection					104,583.38

Item	Description	Quantity	Unit	Rate	Amount
<u>Supply and install the following uPVC pipes and fittings jointed with solvent cement</u>					
A	25mm Diameter PVC Tee joint	50	No	3.08	154.00
B	50mm Diameter PVC Tee joint	16	No	7.70	123.20
C	75mm Diameter PVC Tee joint	8	No	10.78	86.24
D	100mm Diameter PVC Tee joint	14	No	12.32	172.48
E	50mm Diameter PVC sanitary Tee joint	30	No	13.86	415.80
F	75mm Diameter PVC sanitary Tee joint	10	No	18.48	184.80
G	100mm Diameter PVC sanitary Tee joint	24	No	23.10	554.40
H	150mm Diameter PVC sanitary Tee joint	5	No	53.90	269.50
J	75mm Diameter PVC Y joint	8	No	23.10	184.80
K	100mm Diameter PVC Y joint	8	No	30.80	246.40
L	150mm Diameter PVC Y joint	6	No	61.60	369.60
<u>Supply and install the following uPVC pipes and fittings jointed with solvent cement</u>					
M	12mm Diameter PVC 90° bend	30	No	1.54	46.20
N	20mm Diameter PVC 90° bend	20	No	1.54	30.80
O	25mm Diameter PVC 90° bend	20	No	3.08	61.60
P	50mm Diameter PVC 90° bend	25	No	7.70	192.50
Q	75mm Diameter PVC 90° bend	15	No	10.78	161.70
R	100mm Diameter PVC 90° bend	15	No	12.32	184.80
Carried to Collection					3,438.82

Item	Description	Quantity	Unit	Rate	Amount
A	150mm Diameter PVC 90° bend	10	No	53.90	539.00
B	25mm Diameter PVC clip	40	No	4.62	184.80
C	75mm Diameter PVC clip	30	No	7.70	231.00
D	100mm Diameter PVC clip	15	No	7.70	115.50
E	25mm Diameter PVC end cap & plug	10	No	3.08	30.80
F	31mm Diameter PVC end cap & plug	25	No	7.70	192.50
G	100mm Diameter PVC end cap & plug	20	No	18.48	369.60
H	12mm Diameter PVC plug for pressure testing	40	No	1.54	61.60
J	20mm to 12mm Diameter PVC reducer	40	No	3.08	123.20
K	25mm to 20mm Diameter PVC reducer	15	No	4.62	69.30
L	31mm to 50mm Diameter PVC reducer	25	No	12.32	308.00
M	50mm to 75mm Diameter PVC reducer	40	No	23.10	924.00
N	75mm to 100mm Diameter PVC reducer	6	No	23.10	138.60
O	100mm to 150mm Diameter PVC reducer	12	No	46.20	554.40
P	50mm Diameter PVC cleanouts	25	No	12.32	308.00
Q	75mm Diameter PVC cleanouts	10	No	18.48	184.80
R	100mm Diameter PVC cleanouts	18	No	23.10	415.80
S	150mm Diameter PVC cleanouts	6	No	53.90	323.40
Carried to Collection					5,074.30

Item	Description	Quantity	Unit	Rate	Amount
	<u>Sanitary Fixtures</u>				
A	Twyford or approved equivalent, white vitreous china WC suite comprising the following: i) WC pot with P or S trap. ii) Cistern, 7.5 litre capacity iii) Valve fitting with plastic syphon and support iv) Inlet & outlet connections. v) Plastic seat and cover.	9	No	1,573.00	14,157.00
B	Twyford or approved equivalent, white vitreous china WC suite comprising the following: i) Elongated WC pot with P or S trap for Handicap use. ii) Cistern, 7.5 litre capacity iii) Valve fitting with plastic syphon and support iv) Inlet & outlet connections. v) Plastic seat and cover.	6	No	2,750.00	16,500.00
C	Twyford's semi-oval vitreous china white wash hand basin with the following: i) Plastic bottle trap ii) 12mm chromium plated taps. iii) 32mm chain waste with overflow slot iv) Size approx. 560 x 400mm semi oval, fixed to wall with concealed brackets.	12	No	572.00	6,864.00
D	100mm to 75mm PVC Bushing reducer	12	No	21.45	257.40
E	75mm to 50mm PVC Bushing reducer	12	No	17.16	205.92
F	25mm Ball Valve brass	20	No	71.50	1,430.00
G	Urinal bowl complete, manual push flushing Jaquar type	9	No	1,540.00	13,860.00
H	12mm Shut-off valve (in-wall Chrome type)	40	No	100.10	4,004.00
J	20mm Shut-off valve (in-wall Chrome type)	10	No	214.50	2,145.00
	Carried to Collection				59,423.32

Item	Description	Quantity	Unit	Rate	Amount
<u>Sanitary Fixtures</u>					
A	Toilet roll holder in stainless steel screwed to wall near WC suite	15	Nos	55.00	825.00
B	Bathroom mirror, plate glass mirror. Size 600 x 460mm screwed	12	Nos	85.80	1,029.60
C	Soap Dispenser unit. Battery operated	12	Nos	330.00	3,960.00
D	Electric Hand drier	8	Nos	429.00	3,432.00
<u>Supply and install the following fittings</u>					
E	12mm Flexible connector	42	No	21.45	900.90
F	12mm K2	42	No	17.16	720.72
G	12mm K28	42	No	17.16	720.72
H	20mm K28	42	No	35.75	1,501.50
J	12mm Valve socket	100	No	1.43	143.00
K	20mm Valve socket	30	No	2.86	85.80
L	25mm Valve socket	30	No	3.58	107.25
M	Urinal trap	6	No	21.45	128.70
N	Wash hand trap	12	No	21.45	257.40
O	Wash hand faucet	12	No	114.40	1,372.80
<u>Supply and install the following fittings</u>					
P	Wash hand basin drain	12	No	28.6	343.20
Q	31mm Floor drain	48	No	14.3	686.40
R	100mm PVC Valoon drain with grating in roof slab	12	No	243.1	2,917.20
Carried to Collection					19,132.19

Item	Description	Quantity	Unit	Rate	Amount
	<u>Borehole</u>				
A	Site, Drill and line borehole, 100mm pipe diameter, minimum Head 80m	1	No	11,000.00	11,000.00
B	Submissible Pump, Minimum Head 80m	1	No	2,860.00	2,860.00
C	PE pipe 32mm dia	100	m	21.45	2,145.00
D	PE adoptor, 32mm	3	No	71.50	214.50
E	Well head, 32mm	1	No	214.50	214.50
F	Excavate trench 500 x 450 and back fill	60	m	16.50	990.00
G	20mm dia pvc pipe for cable entry	30	m	25.74	772.20
H	4C x 4mm ² pvc/swa/pvc cable	130	m	14.01	1,821.82
J	32A SPN Breaker	2	No	121.55	243.10
	Carried to Collection				20,261.12
	<u>COLLECTION</u>				
	Total Brought From Page No 5/5				104,583.38
	Total Brought From Page No 5/6				3,438.82
	Total Brought From Page No 5/7				5,074.30
	Total Brought From Page No 5/8				59,423.32
	Total Brought From Page No 5/9				19,132.19
	Total Brought From Page No 5/10				20,261.12
	<u>PLUMBING INSTALLATION</u>				
	Carried to Services Summary				211,913.13

Item	Description	Quantity	Unit	Rate	Amount
<u>AIR CONDITION INSTALLATION</u>					
A	Ditto.. 1.5HP Split A/C Wall Mount 1-Ph 220-240V 50 Hz Minimum star rating 3 complete with (i) Indoor and Outdoor units (ii) Infrared remote control (iii)Refrigrant 410 precharge (iv) at least 5m pipping (v) Mounting brackets and all other accessories	6	No	4,389.00	26,334.00
B	Ditto.. 2.0 HP Split A/C Wall Mount 1-Ph 220-240V 50 Hz Minimum star rating 3 complete with (i) Indoor and Outdoor units (ii) Infrared remote control (iii)Refrigrant 410 precharge (iv) at least 5m pipping (v) Mounting brackets and all other accessories	19	No	5,775.00	109,725.00
C	Ditto.. 2.5HP Split A/C Wall Mount 1-Ph 220-240V 50 Hz Minimum star rating 3 complete with (i) Indoor and Outdoor units (ii) Infrared remote control (iii)Refrigrant 410 precharge (iv) at least 5m pipping (v) Mounting brackets and all other accessories	4	No	6,699.00	26,796.00
<u>Condensate Drainage</u>					
<u>Supply and fix pvc condensate drainage pipe at position as per the contract drawings</u>					
D	25mm Diameter pvc condensate drainage pipe	240	m	6.60	1,584.00
E	20mm Diameter pvc condensate drainage pipe	198	m	5.50	1,089.00
F	25 x 20mm Diameter pvc reducer	30	No	2.31	69.30
G	Extra over for 25mm diameter, 90° pvc Deg bend	10	No	3.85	38.50
H	Extra over for 20mm diameter, 90° pvc Deg bend	15	No	2.31	34.65
J	Extra over for 25mm diameter pvc Tee	20	No	4.62	92.40
Carried to Collection					165,762.85

Item	Description	Quantity	Unit	Rate	Amount
A	Extra over for 20mm diameter, pvc Tee	5	No	2.31	11.55
B	Adaptor for flexible pipe, link between supply pipe or outdoor unit and 20mm diameter pipe	29	No	55.00	1,595.00
<u>Refrigerant Piping</u>					
<u>Supply and fix the following refrigerant copper pipes insulated with 25mm armaflex insulation as per the contract drawings to the specification and workmanship</u>					
C	16mm Diameter gas side copper pipe	450	m	30.80	13,860.00
D	12mm Diameter gas side copper pipe	450	m	24.64	11,088.00
<u>Supply and install the following electrical items. Cost to include pvc conduit pipes and all accessories to complete installations to a good workmanlike and shall be executed by a licensed electrical engineer.</u>					
E	4C x 2.5mm ² Flexible cable	100	m	10.78	1,078.00
F	4C x 4mm ² Flexible cable	100	m	16.94	1,694.00
G	Supply and connect all connecting cables linking condensing units to the various indoor units	100	No	11.00	1,100.00
H	Brackets for outdoor units	29	No	77.00	2,233.00
Carried to Collection					32,659.55
COLLECTION					
Total Brought From Page No 5/11					165,762.85
Total Brought From Page No 5/12					32,659.55
AIR CONDITION					
Carried to Services Summary					198,422.40

Item	Description	Quantity	Unit	Rate	Amount
<u>FIRE ALARM SYSTEM</u>					
A	Optical smoke detector(addressable) C/w mounting base. BSS 5415 Part 7 1984, IP 65	42	No	585.20	24,578.40
B	Addressable Control Panel compliance with EN 54 part 2 & 4. C/w battery back up. 230 VAC 50 Hz	1	No	19,250.00	19,250.00
D	Smoke and fire detector	42	No	585.20	24,578.40
E	5Kg Co2 Fire extinguisher (class 89B)	12	No	693.00	8,316.00
F	6Kg Power fire extinguisher (Class C)	6	No	308.00	1,848.00
G	Fire hose reel	3	No	1,694.00	5,082.00
H	Warning and direction sign	12	No	46.20	554.40
J	Addressable call point break glass with cover	12	No	431.20	5,174.40
K	Additional call point break glass cover compactible with supplied call point break glass	50	No	385.00	19,250.00
L	Addressable fire alarm bell sounder	6	No	693.00	4,158.00
M	2-Core 2.5mm ² fire resistance copper cable	150	m	18.48	2,772.00
N	90 x 90mm Flush box, galvanised type	50	No	6.60	330.00
O	20mm Circular boxes assorted	100	No	3.85	385.00
P	20mm PVC conduit pipe	120	m	2.31	277.20
Q	Extra over 20mm diameter Bend	70	No	3.85	269.50
R	31mm Diameter galvanised pipe	40	m	64.35	2,574.00
S	31mm Galvanised bend	5	No	46.20	231.00
T	31mm Galvanised tee	5	No	53.90	269.50
Carried to Collection					119,897.80

Item	Description	Quantity	Unit	Rate	Amount
A	31mm Galvanised nipple	4	No	38.50	154.00
B	31mm Galvanised air valve	5	No	92.40	462.00
C	31mm Galvanised metal clips	30	No	7.70	231.00
	Carried to Collection				847.00
COLLECTION					
	Total Brought From Page No 5/13				119,897.80
	Total Brought From Page No 5/14				847.00
FIRE ALARM SYSTEM					
	Carried to Services Summary				120,744.80
LIFT INSTALLATION					
	Include the provisional sum of Four Hundred and Fifty Thousand Ghana Cedis (Gh¢ 450,000.00) for the supply and installation of approved passenger lift (13 No capacity)		Item		450,000.00
LIFT INSTALLATION					
	Carried to Services Summary				450,000.00

Item	Description	Quantity	Unit	Rate	Amount
<u>MISCELLANEOUS</u>					
<u>Phone and Internet</u>					
A	Phone jack	7	No	46.20	323.40
B	Phone cable	150	m	4.62	693.00
C	Single port set (keystone and faceplate)	40	No	53.90	2,156.00
D	Duplex internet port set (keystone and faceplate)	25	No	89.32	2,233.00
E	24-Port switch	7	No	6,875.00	48,125.00
F	Interconnect phone system with at least 50 ports	1	No	9,625.00	9,625.00
G	Telephone handsets, Panasonic TS 840MX	7	No	275.00	1,925.00
<u>External Works</u>					
H	Excavate trench 500 x 1000mm and backfill	300	m	16.50	4,950.00
J	Plastic inspection chambers and manholes	2	No	2,062.50	4,125.00
K	Fibre optic cable 48 Core	300	m	20.63	6,187.50
L	Optical Distribution Frame (ODF) 48 core	1	No	1,100.00	1,100.00
M	Optical Distribution Frame (ODF) 12 core	1	No	1,100.00	1,100.00
<u>AUDIO VISUAL</u>					
N	Spcakcr cable NNS 1802	430	m	8.67	3,727.24
O	8-ohm surround speakers	29	No	495.00	14,355.00
P	Projector screen	8	No	1,650.00	13,200.00
Q	Microphone	6	No	893.75	5,362.50
Carried to Collection					119,187.64

Item	Description	Quantity	Unit	Rate	Amount
A	Cordless microphone system with double antennae and remote control complete with headset cordless microphone	6	No	1,244.10	7,464.60
B	Microphone face plate	6	No	41.25	247.50
C	HDMI cable with ends (10m Length)	8	No	137.50	1,100.00
D	HDMI cable with ends (15m Length)	1	No	206.25	206.25
E	HDMI face plate	8	No	123.75	990.00
F	Projector 3000 lumens 1-Ph 220-240V 50Hz wireless and HDMI accessible	8	No	5,018.75	40,150.00
G	Projector ceiling mount / stand, adjustable & Kissington lock	8	No	412.50	3,300.00
H	Projector face plate for HDMI	8	No	137.50	1,100.00
<u>SECURITY</u>					
J	High definition Camera-indoor doom type with at least 5m night vision ceiling mount	8	No	1,100.00	8,800.00
K	High definition Camera Robust outdoor with at least 10m night vision complete adjustable wall mountings	8	No	1,375.00	11,000.00
L	16-Channel DVR Internet accessible	1	No	2,818.75	2,818.75
M	24-Hour UPS power supply for DVR and cameras	2	No	1,650.00	3,300.00
N	305m Coil video and power coaxial cable	250	m	13.20	3,300.00
O	BNC connector	32	No	15.13	484.00
P	One power adaptor and connector for cameras	16	No	110.00	1,760.00
Q	2400 x 1200mm High white marker board compactible with magnetic base duster	8	No	2,268.75	18,150.00
Carried to Collection					104,171.10

Item	Description	Quantity	Unit	Rate	Amount
A	50mm Diameter PVC pipe, Class C	100	m	41.25	4,125.00
B	50mmPVC tee	10	No	6.88	68.75
	Carried to Collection				4,193.75
<u>COLLECTION</u>					
	Total Brought From Page No 5/15				119,187.64
	Total Brought From Page No 5/16				104,171.10
	Total Brought From Page No 5/17				4,193.75
<u>MISCELLANEOUS</u>					
	Carried to Services Summary				227,552.49
<u>SERVICES SUMMARY</u>					
	ELECTRICAL INSTALLATION				404,608.60
	PLUMBING INSTALLATION				211,913.13
	AIR CONDITION INSTALLATION				198,422.40
	FIRE ALARM SYSTEM				120,744.80
	LIFT INSTALLATION				450,000.00
	MISCELLANEOUS				227,552.49
<u>SERVICES</u>					
	Carried to General Summary				1,613,241.42

Item	Description	Quantity	Unit	Rate	Amount
BILL NO. 6 - EXTERNAL WORKS					
<u>KERBS AND PAVEMENT BLOCKS</u>					
<u>Approved laterite or hardcore filling as described</u>					
A	Approved imported gravel base laterite filling to make up levels under beds well compacted and consolidated in layers not exceeding 200mm thick	600	m ³	52.80	31,680.00
B	75mm Thick quarry dust bedding on polythene sheet damp proof membrane	2000	m ²	6.60	13,200.00
C	5 Micron heavy duty polythene sheet damp proof membrane spread on prepared ground	2000	m ²	2.20	4,400.00
<u>Precast concrete (20N/mm² aggregate) standard unit on 100mm insitu concrete base with haunching to side set and bonded in cement mortar (1:3) finished flush as work proceeds</u>					
D	150 x 150 x 1000mm Kerb splayed	420	m	38.50	16,170.00
<u>Precast concrete (1:2:4-19mm aggregate) paving blocks</u>					
E	200 x 100 x 80mm Paving to falls and crossfalls	2000	m ²	78.10	156,200.00
<u>KERBS AND PAVEMENT BLOCKS</u>					
Carried to Summary					221,650.00
<u>INSPECTION CHAMBERS</u>					
F	Excavate pit commencing at ground level and not exceeding 1.50m deep	12	m ³	38.50	462.00
G	Remove from site surplus excavated material	12	m ³	11.00	132.00
Carried to Collection					594.00

Item	Description	Quantity	Unit	Rate	Amount
	<u>Concrete 1:2:4- 20mm aggregate) to attain a minimum crushing strength of 25N/mm2 in 28days</u>				
A	Base	2	m ³	550.00	1,100.00
B	100mm Thick cover slab reinforced with 12mm diameter bars at 150mm centres including all necessary formwork	12	No	55.00	660.00
	<u>Solid sandcrete blockwork in cement and sand (1:4) mortar as described in:</u>				
C	150mm Blockwalls	35	m ²	78.10	2,733.50
	<u>Rendering Cement and sand (1:4) 19mm thickness one coat smooth rendering finish with a wood float on:</u>				
D	Internal and external wall surfaces of chambers	43	m ²	22.00	946.00
	Carried to Collection				5,439.50
COLLECTION					
	Total Brought From Page No 6/1				594.00
	Total Brought From Page No 6/2				5,439.50
	<u>INSPECTION CHAMBERS</u>				
	Carried to Summary				6,033.50

Item	Description	Quantity	Unit	Rate	Amount
<u>SOFT LANDSCAPPING</u>					
<u>Planted Areas</u>					
A	75mm (Average) Loamy vegetable soil spread and levelled and mixed with one part of animal manure to ten parts on bed	420	m ²	14.50	6,090.00
B	Selected "LOVE" grassing on bed, well watered till established and maintaining for three (3) months	400	m ²	25.00	10,000.00
<u>SOFT LANDSCAPPING</u>					
Carried to Summary					16,090.00
<u>CONCRETE U-SECTION DRAINS</u>					
<u>The following in 750mm diameter internal dimension concrete U-section drain comprising 150mm thick walls and 150 base concrete (Approx. 270m)</u>					
<u>Excavation & Earth Works</u>					
C	Excavate trench for concrete U-section drain not exceeding 1.50m deep commencing at stripped level	334	m ³	35.00	11,690.00
D	Backfill selected excavated and consolidate around drain	107	m ³	18.00	1,926.00
E	Remove surplus excavated material from site	227	m ³	22.00	4,994.00
<u>Plain in-situ vibrated concrete grade C20-20mm aggregate as described in:</u>					
F	Concrete U- section drain	117	m ³	660.00	77,220.00
<u>Formwork</u>					
<u>Sawn formwork to:</u>					
G	Formwork rough finish to vertical surface of drain (Externals)	486	m ²	35.00	17,010.00
Carried to Collection					112,840.00

Item	Description	Quantity	Unit	Rate	Amount
A	Formwork, fair finish, curved to one radius in one plane (Internal)	528	m ²	40.00	21,120.00
	<u>Metal gratings</u>				
B	Metal grating 750mm wide comprising 50 x 50mm angle iron horizontal runners, welded to 25mm diameter iron rod vertical stiffeners spaced at 25mm including painting with red anti rust paint	195	m	270.00	52,650.00
	Carried to Collection				73,770.00
	COLLECTION				
	Total Brought From Page No 6/3				112,840.00
	Total Brought From Page No 6/4				73,770.00
	<u>CONCRETE U-SECTION DRAINS</u>				
	Carried to Summary				186,610.00
	<u>APRON</u>				
C	Excavate trenches, width exceeding 0.30m, and maximum depth not exceeding 1.00m commencing at stripped level	43	m ³	35.00	1,505.00
D	Back fill selected excavated material around foundation	20	m ³	22.00	440.00
E	Dispose off site surplus excavated material as directed by the Project Manager	23	m ³	18.00	414.00
F	Approved imported laterite or hardcore filling to make up levels, spread and well compacted under apron	29	m ³	75.00	2,175.00
	Carried to Collection				4,534.00

Item	Description	Quantity	Unit	Rate	Amount
	<u>In situ concrete grade C20/-20mm aggregate as described in</u>				
A	Foundation	11	m ³	660.00	7,260.00
B	Slab	12	m ³	660.00	7,920.00
C	Formwork to edges of apron 100mm wide average	160	m	3.50	560.00
	<u>F10 - Brick/Block walling</u>				
D	Wall of thickness 150mm solid sandcrete block work vertical in cement and sand (1:4) mortar bonding to foundation concrete	80	m ²	85.00	6,800.00
	Carried to Collection				22,540.00
	COLLECTION				
	Total Brought From Page No 6/4				4,534.00
	Total Brought From Page No 6/5				22,540.00
	<u>APRON</u>				
	Carried to Summary				27,074.00
	SUMMARY				
	KERBS AND PAVEMENT BLOCKS				221,650.00
	INSPECTION CHAMBERS				6,033.50
	SOFT LANDSCAPPING				16,090.00
	CONCRETE U-SECTION DRAINS				186,610.00
	APRON				27,074.00
	<u>EXTERNAL WORKS</u>				
	Carried to General Summary				457,457.50

Item	Description	Quantity	Unit	Rate	Amount
	BILL No. 7				
	DAYWORK SCHEDULE				
	<u>All provisional</u>				
A	The contractor shall be paid at day works rates for extra work that cannot properly be measured and valued and the contractor is to insert in the space provided below the basic rates and cost of labour, materials and plant as detailed hereunder.		Item		
B	The contractor shall deliver weekly to the consultants office on a day to be fixed by he consultant fully detailed account in triplicate of all labour and materials employed or used respectively on any portion of the works for which an order has been issued that it shall be carried out at day work rates.		Item		
C	This returns shall cover the work done during the previous contractor 's work. One copy of these accounts if found correct, will be certified by the consultant and returned to the contractor and must be produced by him if required before payment can be made. The contractor shall afford every facility for checking by agreement on the grounds of the time and materials for which they have charged.		Item		
D	All day works sheet shall be checked and signed by the consultant or his representative. No day works shall be shared as such as any work outside the site.		Item		
	<u>The contractor is reminded that his rates in this part shall be complete and entire</u>				
	<u>LABOUR</u>				
	Mason	5	days	65.00	325.00
	Carpenter	5	days	65.00	325.00
	Plasterer	5	days	65.00	325.00
	Carried to Collection				975.00

Item	Description	Quantity	Unit	Rate	Amount
DAYWORK SCHEDULE (Contd.)					
D	Plumber	5	days	65.00	325.00
E	Electrician	5	days	65.00	325.00
F	Painter	5	days	65.00	325.00
G	Labourer(unskilled)	5	days	50.00	250.00
H	Labourer(skilled, headman)	2	days	55.00	110.00
<u>MATERIALS</u>					
J	Include the provisional sum of Eighty Thousand Ghana cedis (GH¢ 80,000.00) for materials for day works				80,000.00
K	Add profit%				
<u>PLANT</u>					
<u>All rates shall be entire comprising the provision of garage accommodation and the supply of spare parts, fuel, oil, greese, repairs, overtime, breakdowns overheads etc.</u>					
	Pickup	8	hrs	75.00	600.00
	Hoisting type concrete mixer 10/7	8	hrs	50.00	400.00
	D10 Dozer	8	hrs	250.00	2,000.00
	10m ³ Tipper Truck	8	hrs	85.00	680.00
	Low bed Truck	8	hrs	120.00	960.00
	Payloader	8	hrs	120.00	960.00
	Compactor	8	hrs	60.00	480.00
	Carried to Collection				87,415.00

Item No.	Description	Quantity	Unit	Rate	Amount
	DAYWORK SCHEDULE (Contd.)				
	<u>COLLECTION</u>				
	Total Brought from Page No. 7/1				975.00
	Total Brought from Page No. 7/2				87,415.00
	<u>BILL No.7 - DAYWORK SCHEDULE</u>				
	Carried to General Summary				88,390.00

Item No.	Description	Amount GH¢
	<u>CONSTRUCTION OF TWO-STOREY AFRICA CENTRE OF EXCELLENCE BUILDING FOR COLLEGE OF ENGINEERING AT KNUST-KUMASI</u>	
	<u>GENERAL SUMMARY</u>	
	BILL No. 1- PRELIMINARIES	427,900.00
	BILL No. 2 - SUBSTRUCTURE & GROUND FLOOR	1,047,440.66
	BILL No.3 - FIRST FLOOR	644,355.20
	BILL No.4 - SECOND FLOOR	936,871.90
	BILL No.5 - SERVICES	1,613,241.42
	BILL No.6 - EXTERNAL WORKS	457,457.50
	BILL No.7 - DAYWORKS	88,390.00
	SUB-TOTAL I	5,215,656.68
	<u>ADD:</u>	
	For Temporary lighting and power	30,000.00
	For Water for the Works (Mechanized borehole)	18,000.00
	For Insurance against injury to persons and property	20,000.00
	SUB-TOTAL II	5,283,656.68
	<u>ADD:</u>	
	Contingencies	1,100,000.00
	CARRIED TO FORM OF TENDER	6,383,656.68
	GH¢	
	Signature:.....	
	Designatory:.....	
	For and on behalf of:.....	
	
	Date:.....	
	To be Completed in (months)	

VOLUME III

SECTION IX

**SPECIFICATIONS AND PERFORMANCE
REQUIREMENTS**

Specifications

The Specifications are provided in Volume III of the Tender Documents.