ITEM	DESCRIPTION	AMOUNT (GH₵)
	BILL NO. 1- GENERAL CONDITIONS AND PRELIMINARIES	
A	**THE SITE** The site is located at **ASSIN NORTH** The Contractor shall be deemed to have visited the site and satisfied himself as to: The nature of the site and ground to be excavated The nature, proximity and size of adjoining properties and buildings The nature of existing communication by road or otherwise The means of access to the site The availability of land for the erection and positioning of all structures, plant and materials necessary to the execution of the works. Where trial holes have not been dug or where the Contractor wishes to excavate additional trial holes submitting his tender, he may do so in positions	
B	Any sand, aggregate or other building materials (except) those arising from demolition (if there should be) shall be the property of the Employer and shall not be used in the construction of the works without written consent of the Consultant. The value of any material so used shall be assessed based on current market prices of such materials and allowed by the Contractor as a credit under this contract to the Employer. The contractor is to satisfy himself as to any difficulties that the situation may present and to make all necessary enquiries on any point which in his opinion require further elucidation as no claim for lack of information on any of the above will be entertained.	

ITEM	DESCRIPTION	AMOUNT (GH₵)
A	**DESCRIPTION OF THE WORKS** The works shall comprise the **CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AS INDICATED IN THE BOQ AND DRAWINGS**	
B	**Definition of Terms** The following terms, wherever they occur shall be interpreted as hereunder: The term "Employer" or "Client" shall be **THE ASSIN NORTH DISTRICT ASSEMBLY** The term " Project Manager " shall be **THE HEAD OF WORKS DEPARTMENT OF THE DISTRICT ASSEMBLY** The term "Approved", "Directed" or "Selected" shall mean the approval, direction or selection by the Consultant. Wherever the word "Allow" occurs the cost of the term is at the risk of the Contractor. The Contractor shall provide all materials unless otherwise specified and wherever the terms "Supply". "Provide" or "Fix" occur they shall be held to mean provide and fix. The Contractor shall provide all materials in accordance with agreed quantities and schedules.	
	To Collection	

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Drawings used for Preparation of Bills of Quantities** The drawings may be inspected by appointment at the offices of the **HEAD OF WORKS.**	
B	**Setting Out of the Works** Allow for providing all necessary stakes templates rods instruments and the like for the proper setting out and execution of the works and make such available to the Consultant for checking. Figured dimensions shall be taken in all cases in preference to scaled dimensions and large scale details in preference to small drawings. The site of the building, the building line direction of frontage and floor level will be defined by the Project Manager.	
C	**Order of Works** The whole of the works must be proceeded with dispatch and in such sections and at such times as directed by the Project Manager.	
D	**Conditions of Contract** The Articles of Agreement and Conditions of Contract will be those issued by the Ghana Government for building works sixth edition (1988), (applicable where quantities form part of the contract. The contractor is referred to the main contract conditions with such additional information as is required. All clauses carrying a monetary value are to be price out opposite to the number and tile of each clause. A copy of the conditions of contract can be obtained by appointment at the office of the Project Manager.	
E	**Clause No.** 1. Definition of terms 2. Consultant's Instructions 3. Drawing and Bills of Quantities, Etc. 4. Statutory obligations, notices and fees 5. Setting out of works 6. Materials and workmanship to conform to description 7. Agent or foreman-in-charge 8. Access for Consultant to work 9. Assignment of sub-letting 10. Ascertainment of prices for variations 11. Bills of quantities 12. Unfixed Materials	
	To Collection	**0.00**

ITEM	DESCRIPTION	AMOUNT (GH₵)
	13. Practical completion and defects liability 14. Rates of wages, etc. 15. Injury to persons and property 16. Insurance 17. Date for possession and completion and progress of works 18. Damages for non-completion 19. Delay and extension of time 20. Determination by Employer 21. Determination by Contractor 22. Nominated sub-contractors 23. Nominated supplies. **Notes:** The contractor shall include in his prices for Bank Charges for obtaining import licenses opening letters of credit postage port Authority charges, handling charges agent's fees and other similar charges incurred in connection with nominated supplier's accounts general and special attendance. 24. Artists and Tradesmen 25. Certificates and payments 26. Sectional completion 27. Loss and expense caused by disturbance of regular progress of the works 28. Fluctuations 29. Not Applicable 30. Gifts, inducement rewards 31. Antiquities 32. Arbitration	
	To Collection	**0.00**

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Bond** The Contractor will be required to provide a written signed and witnessed bond on the standard form provided and to submit same to the Consultant within FOURTEEN DAYS of receiving notification that his tender has been accepted.	
B	**Assistance to Consultant, Etc.** Allow for providing all reasonable information labour and facilities required by the Consultant or Quantity Surveyor or Engineer in carrying out their duties in connection with this Contract.	
C	**Bills of Quantities** The Contractor shall not alter text of these Bills of Quantities. A price or rate shall be entered against each item in these Bills of Quantities. Any item not priced shall be deemed to have been allowed for in the other prices or rates in these Bills. The price or rates inserted shall be the full inclusive value of the work described under the several items including all costs and expenses which shall be required for the execution of the work described. The contractor shall submit his price Bills of Quantities for examination prior to the signing of the Contract.	
D	**Specification** The whole of the works are to be executed generally in accordance with standards otherwise described in these Bills of Quantities.	
E	**Alteration, Etc. to the Contract Documents** Any alteration, amendment, addition to or deletion from the printed text of these Contract Documents by the contractor without the express authorization of the Consultant will be invalid and not recognized or taken into account in interpreting and obligations and requirements of the Contract Document.	
F	**Pricing the Bills of Quantities** The pricing of these Bills of Quantities is to be in Ghana Cedis and is to be in ink throughout.	
	To Collection	**0.00**

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Pricing the Bills of Quantities** Should the priced Bills of Quantities of the Tender considered for acceptance show (after a complete arithmetical check) a difference between the tender figure and the arithmetically corrected figure, the difference will be brought to the relevant Contractors notice and with his consent the prices of the "Builder's work" (that is the arithmetically corrected figure less all Prime Cost (P.C) and Provisional Sums and Contingencies shall be subject to adjustment so that the original tender figure shall remain unaltered. Variations of "Builder's work" shall 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 had placed a rate or price against the items. The rates and prices including 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.	
B	**Progress Schedule and Working Programme** The Contractor shall in collaboration which the principal sub-contractors submit a working programme for the Consultant's approval immediately after signing the contract and shall keep this chart as the Works proceed and shall supply to the Consultant four copies of a monthly progress report to the satisfaction of the Consultant. The programme must be reviewed and submitted for approval at site meetings.	
C	**Overtime** The Contractor shall be held to have made all enquiries as to the cost of this and to make all provisions in his tender for every cost of him providing and maintaining the labour force necessary to complete the contract including all extra and additional works in the Contract Time including all overtime and week-end working which he considers he shall require and supervisory costs associated therewith. No extra will be allowed on the Contract sum for this clause.	
D	**Records of Temperature, Visitors, etc.** The Contractor shall keep accurate records of the temperature, visitors, and any other occurrences affecting the progress or quality of the works.	.
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Daily Records** The Contractor shall furnish the Consultant with statements showing the number of men employed in all trades daily and with delivery notes of all material and plant delivery to the site. Records of resources output shall be submitted to facilitate checking of effective use.	
B	**Drawings, etc** All drawings, tracing, photo prints and writings, excepts 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 size for the relative drawings and covered with a coat approved varnish. They are to be protected from the ravages of termites, ants, silver fish and other insects.	
C	**Enforcement of Conditions** 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 would have been ordered in writing by the Consultant.	
D	**Dismissal of Persons from Site** 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 works without written permission of the Consultant.	
E	**Watching and Protecting** The Contractor from time of taking possession of the site must include for watching, lighting and protecting the works, the site and surrounding property by day and by night including Sundays and Holidays.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Proper Execution of the works** 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 not be particularly shown on the drawings provided that the same is reasonably to be inferred thereof from figure dimensions and particulars to be taken from the actual work.	
B	**Temporary Roads** The Contractor shall make and maintain in good condition any temporary roads, trucks, hard standing ramps and the like on the site, required for the execution of the works. Any temporary roads and the like not required are to be cleared away on completion and the surface made good to the satisfaction of the Consultant.	
C	**Availability of Materials** The Contractor shall make full enquiries 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 on time and no claim will be entertained on the grounds that the Contractor had to resort to alternative of supply for materials specified.	
D	**Holes, etc, for Nominated Sub-Contractors** The Contractor shall obtain from Nominated Sub-Contractors their requirements for recess, chases, holes and the like so that these may be formed correctly as the work proceeds. In the even of the Contractor failing to obtain and/or use this information, no extra charges shall be allowed for cutting recesses, chases, holes and the like after completion of the works.	
E	**Water for the Works** Include for providing the whole of the water required for the execution of the works including paying all fees and charges in connection providing all temporary distribution pipework and storage tanks and clear away when no longer required or on completion and make good all work disturbed.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Temporary Electrical Power and Lighting** Include for providing all electrical power and lighting required for the execution of the works to enable the contractor and sub-contractors to complete the works in the specified time including that for the workmen of any sub-contractors or special tradesmen which must be provided by the Contractor at his own cost together with all temporary arrangements for distribution and clear way when no longer required or on completion and make good all works disturbed.	
B	**Regulations and By-laws** The Contractor shall conform to the provision or any regulations and By-laws for any water or lighting companies with whose system the structure is, proposed to be connected, and shall before making any variations form the drawings or specification that may be necessitated by so conforming give the Consultant or his representative on site, written notice specifying the variations proposed to be made and the reason for making it and apply for instructions thereon. In case the contractors shall not in the due course receive instructions he shall proceed with the works, conforming to the provisions regulations or by-laws in question. The Contractor shall give all notices required by the Act, regulations or by-laws to the Supply Companies and shall provide for and pay all fees and charges in connection therewith.	
C	**Entry into Building Area** The Contractor shall restrict entry into the building area to his own and sub-contractor ' s workmen and persons duly authorized by the employer. The contractor shall not permit any workmen, materials or plant to encroach beyond the confines allotted to him.	
D	**Plant, Tools and Vehicles** Including for providing all scaffolding, joists 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 things required by the Consultant for testing and measuring the works and for weighing, measuring, proving or testing the efficiency of any portion of the works and shall also at hi sown cost provide all planking, gangways, etc, necessary for affording access to every part of the works.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Temporary Stores** Include for providing and maintaining proper sheds for the storage and protection of materials, etc, and other work that may be brought or executed on the site including the tools and materials on Sub-contractors and remove on completion. Sheds for storage of cement to have floors raised from the ground.	
B	**Materials on Site** The location of storage areas for materials on site will be by arrangement with the Consultant.	
C	**Shelters and Canteen for the Workmen, etc.** The Contractor shall provide, erect and maintain shelters, for the use of workmen, furnished with tables, benches, etc. as may reasonably required by the workmen for the preparation and consumption for their meals together with an adequate supply or clean drinking water and clear away at completion and make good all work disturbed.	
D	**Transport for work People** The Contractor shall allow for all cost in connection with the provision of transport for work people.	
E	**Maintenance of Public and Private Roads** The Contractor shall take care in loading or unloading materials for the works to ensure that the public roadways 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 or any public roadway or foot path for the mixing or storage of materials. The Contractor shall keep all permanent paved public and private roadways or footpaths in the vicinity of the site free of all droppings form his Sub-contractor's or Supplier's vehicles. The Contractor shall make good all public or private roads, paths etc, that may be disturbed or damaged through the execution of these works or other Authorities charges for doing the work. The contractor shall allow for complying with all Police Regulations affecting the execution of the works.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Explosives and Petroleum** All explosives or petroleum shall be stored in strict compliance with the regulation laid down by the competent Statutory Authority. Explosive shall not be used without the written permission of the Consultant.	
B	**Existing Services** The Contractor shall allow for all temporary protection and or maintaining all existing water mains, electric and telephone cables, etc. operations make good all work disturbed at completion and pay all fees legally demandable.	
C	**Temporary Fencing and Gates** The Contractor shall allow for providing all necessary gates and other provisions as shall be necessary for the protection of the public and occupants of adjoining property for the execution of the Works, for the prevention of trespass and injury, for the preservation of existing structures and amenities and for meeting requirement of any local or other Authority and clear away on completion (**to Assembly stores**).	
D	**First Aid Equipment** The Contractor shall provide adequate First Aid Equipment which shall be available for the use of the workmen during working hours.	
E	**Offices** The Contractor shall include for providing an office for the Foreman's use with desk, drawers, etc. and remove at completion. The Contractor shall provide and maintain a suitable separate office on the site for the use of the Consultant, or Surveyor with a minimum floor area of 10 square metres in a position approved by the Consultant, with all necessary finishing fittings, artificial lighting and separate latrine accommodation and clear away at completion.	
F	**Telephone** The Contractor shall allow for providing a telephone for the Contractor's and Sub-contractor's and Consultant's use including paying all charges, the cost of such calls to be the subject to a provisional sum.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Latrines** The Contractor shall provide adequate latrine accommodation and keep same in a clean and sanitary condition to the satisfaction of the Public Health Authorities, and shall cause such latrines and soil to be cleared away whenever necessary and shall make good all work disturbed by the conveniences.	
B	**Watchman's Hut** The Contractor shall include for providing a suitable temporary hut for the watchman and clear away when no longer required and provide all necessary attendance, lights, etc. required.	
C	**Artists and Tradesmen** The Contractor shall at all times give access to workmen employed by the local or other Authorities or any other parties employed on the buildings.	
D	**Religious Rites** Religious rites shall not be interfered with unnecessarily.	
E	**Materials** The whole of the materials (except where otherwise described) stores and equipment required for the performance of the Contract by the Contractor must be provided through normal trade channels and must be the best of their kind available at the time and the Contractor must be entirely responsible for the proper and efficient carrying out of the work. The work samples of all materials to be used must be submitted to the Consultant or his representatives on the site.	
F	**Order Materials** 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 they are 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.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH₵)
A	**Proprietary Articles or Materials** In all stances in which articles and materials of proprietary manufacture are 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 provided such substituted articles and materials have been approved in writing by the Consultant.	
B	**Prime Cost and Provisional Sum** 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 met 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.	
C	**Contract Bills and Method of Measurement** The quality and quantity of the work included in the Contract Bills which bills unless otherwise expressly stated in respect of any specified item or items shall be deemed to have been prepared in general accordance but not in every detail with the Standard Method of Measurement of Buildings Works. (Seventh Edition) issued by Royal Institution of Chartered Surveyors, 12 Great George Street, London, S.W.1, but save as aforesaid nothing contained in the Contract Bills shall override, modify or affect in any way whatsoever the application or interpretation of that which is contained in these Conditions. The Methods of Measurement has been abridged to reduce and simplify the number of items. The Contractor's attention is drawn to these amendments 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 Bills shall not violate this Contract but shall be corrected and deemed to be a variation required by the Consultant.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**"General and Special Attendance"** "General and Special Attendance" as used hereinafter shall include on the part of the Contractor taking delivery of all materials, plant equipment and tools when received in the job, unloading, stacking or placing in a position adjacent to the works for under cover where the nature of the materials, plant, equipment and tools are such that they may not be damaged by inclement whether, handling and hoisting materials into position free use of standing scaffolding messrooms, sanitary accommodation and welfare facilities, provision of all electric light and power and unskilled labour for generally attending upon the Nominated Sub-Contractor's workmen and for clearing away all rubbish.	
B	**Checking Supplier's Estimates** The Contractor is responsible for checking that the Quantities and Claims quoted in the Supplier's Estimates are correct as shown on the Drawings or on Schedules and for satisfactory completion of the Works. Any difficulties encountered are to be referred immediately to the Consultant.	
C	**Definition of "Fix"** The definition of the term "Fix" as defined hereinafter in connection with goods or materials provided by a Nominated Supplier shall include on the part of the Contractor taking delivery of all goods and materials when received on the job, unloading, stacking or placing in a position 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, placing or fixing into position.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Examination of Works** No work shall be covered by the Contractor until it has been examined and passed by the Consultant. 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 premise water-tight at completion and free from damp in every respect. The Contractor shall at the request of the Consultant within such time as the Consultant shall name, open up for inspection any work covered up, and should the Contractor refuse or fail to comply with such request the Consultant may employ other workmen to open the same. If the said work has been covered up in contravention of the Consultant ' s instructions and if on being opened up it, be found not in accordance with the drawings or instructions of the Consultant the expenses of opening up and covering up again whether done by the Contractor or other workers shall be borne by or recovered from the Contractor or may be deducted as aforesaid. If the work has not been covered up in contravention of such instructions and be found in accordance with the said drawings etc. then the expenses aforesaid shall be borne by the Employer and be added to the Contract Sum.	
B	**Antiquities** All objects of value of antiquity found on the site shall remain the property of the Employer and such funds shall be immediately reported to the Consultant.	
C	**Advertisements** 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 on the site.	
D	**Signboards** The Contractor is to allow for providing 1 No.metal notice board size 2.4 x 1.2m overall in a prominent position on the site bearing the names of the Client, the Consultant, the Contractor and project details	
E	**Inclement Weather** 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 then in the course of erection.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Cover Up and Protect** The Contractor must include for covering up and protecting from damage all new works and any other requisite protection for the whole of the works executed whether by himself or special tradesmen or sub-contractor, and any damage caused must be made good by the Contractor at his own expense. The Contractor shall allow for protecting joinery and making good all damage to same from any cause whatsoever during performance of the Contract and leave perfect to the satisfaction of the Consultant at completion. Before giving up possession, the Contractor must see that all doors, and ironmongery operate easily and shall make all necessary adjustments.	
B	**Clear Away Rubbish** All sheavings, 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 are to be cleared and carried away and all materials recommended by the Consultant or his representative to be removed.	
C	**Basic Rates** Adjustments for Fluctuations in Basic labour rates will be based on the Local Price Adjustment Formula Developed By The Construction Industry Efficiency Improvement Group Of Ghana (CIEIC-GH), Kumasi. Should the Contractor desires to make any of the prices of materials subject to adjustments under the "Fluctuations" (Clause 28 of the Conditions of Contract) he may fill in such materials with their price, in the space provided, the Appendix providing that all such prices are supported by a current quotation from a reputable firm. The Contractor shall not be entitled to any additional payment for an excess of the prices paid over the basic price where such excess is due to his failure in delay in purchasing the materials or in completion of the whole or any portion of the work provided that such delay was due to causes within his control.	
	To Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Disposal of Water** The Contractor shall allow here for keeping the excavations and the works free from water (i.e. all water including spring, running, water and water below the level, in the ground.	
B	**Testing Materials** The contractor will be required to carry out test of materials on site and to prepare, pack and dispatch when instructed to do so by the Consultant.	
C	**Progress Photographs** The Contractor shall allow for supplying five (5) copies of progress photographs per month to the Consultant throughout the currency of the Contract and in plate size 125 x 175mm.	
	To Collection	

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	AMOUNT (GH¢)
	COLLECTION	
	PAGE NO. 1	
	PAGE NO. 2	
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	PAGE NO. 17	
	GENERAL CONDITIONS AND PRELIMINARIES CARRIED TO GENERAL SUMMARY	

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	BILL NO: 2				
	SUBSTRUCTURE (All Provisional)				
	EXCAVATION AND EARTHWORKS				
A	Clear site of all vegetation, shrubs, grub up roots and burn	558	m2		
B	Remove topsoil 150mm deep and dspose in spoil heaps	296	m2		
C	Excavate trench not exceeding 1.0 meters deep commencing 150mm below existing ground level	74	m3		
D	Excavate pit not exceeding 1.50m deep commencing 150mm below existing ground level	15	m3		
E	Extra over excavation for excavating in rocks	1	m3		
F	Backfill selected excavate material around foundations	37	m3		
G	Disposal of selected excavated material from site	37	m3		
H	Earthwork support to excavations beyond 0.25mm depth	150	m2		
J	Hardcore filling, spread, leveled, well rammed and consolidated in making up levels	237	m3		
	Compacting bottoms of excavation	89	m2		
	CONCRETE WORKS				
K	medium grained sand as described in blinding.	89	m2		
	Plain in-situ concrete (1:3:6-38mm aggregate) as described in:				
L	foundation in trenches	20	m3		
M	Ditto 150mm bed	44	m3		
	Reinforced insitu concrete (1:2:4/20mm agg.) as described poured into formwork and around reinforcement (both measured separately) in:				
N	Column base	4	m3		
P	Ground beam	0	m3		
Q	Column	2	m3		
	Mild steel round bar reinforcement and fixing as described				
R	14mm diameter bar column base	368	Kg		
S	14mm diameter bar in ground beam	0	Kg		
T	14mm diameter bar in column	279	kg		
	TO COLLECTION 1				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
A	10mm diameter bar as links	85	Kg		
	Sawn formwork as described to:				
B	Vertical side of column	32	m2		
B	ground beam		m2		
C	Edge of bed 150mm wide	78	m		
	BLOCKWORK				
D	150mm solid sandcrete block wall in cement and sand mortar	237	m2		
	Plasterwork etc				
E	25mm thick cement and sand render (1:4) to wall	47	m2		
	Painting				
F	Prepare and apply three coat of emulsion paint as approved on rendered wall	47	m2		
	TO COLLECTION 2				
	COLLECTIONS				
	COLLECTION 1				
	COLLECTION 2				
	SUBSTRUCTURE CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	SUPERSTRUCTURE				
	CONCRETE WORKS				
	Reinforced insitu concrete (1:2:4/20mm agg.) as described poured into formwork and around reinforcement (both measured separately) in:				
A	Beam	6	m3		
B	Column	3	m3		
	Mild steel round bar reinforcement and fixing as described to:				
C	14mm diameter bars in columns	573	Kg		
D	14mm diameter bars in beams	1006	Kg		
E	8mm diameter as described in links	440	Kg		
	Sawn formwork as described to:				
F	Vertical side of columns	67	m2		
G	Side and soffit of beam	38	m2		
	CONCRETE WORKS CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	BLOCKWORK				
	Solid sandcrete block work in(1:4) cement and sand mortar:				
A	125mm wall	288	m2		
	BLOCKWORK CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	ROOFING				
	0.4mm aluzinc roofing sheets fixed to hardwood purlins (measured separately) 1050mm centre with nails and diamond shaped felt washers				
A	roofing sheets	358	m2		
B	600mm girth ridge capping	30	m		
	ROOFING CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	CARPENTARY				
	Structural timber				
	Sawn treated hardwood as described				
A	50 x 150mm Rafters	190	m		
B	50 x 50mm ceiling joist	60	m		
C	Ditto hangers	24	m		
D	15 x 25mm ceiling battens	60	m		
E	50 x 100mm Purlins	419	m		
F	50 X 150mm Plates, Ties and struts	250	m		
G	Ditto wall Joist	35	m		
H	Duo pitched roof trusses in sawn hardwood comprising; 50mm x 150mm top and bottom chords, web members, braces overall size 12m span x 2.2m rise.	9	m		
	CARPENTARY CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	JOINERY				
	Doors				
	Wrought hardwood as described:				
	44mm thick panel door comprising 150mm stile, top, middle and bottom rails, both panels filled in with 20mm solid, bevelled, raised and fielded hardwood boarding **(sample available for inspection)**				
A	800 x 2050mm Do.	2	No.		
B	600 x 2050mm Do.	12	No.		
C	Rebated meeting stiles	78	m		
	Windows				
	formed windows, comprising 100mm stiles, top, bottom middle with aluminium infill panels as specified **(sample available for inspection)**				
D	700x1200mm high	30	No.		
	Fascia Board				
	Wrought hardwood as describe				
E	25 x 300mm	83	m		
	Frames				
	Wrought hardwood frames plugged to blockwork as described to:				
F	50x150mm doors	42	m		
G	50x150mm windows	123	m		
	Fillets, stops etc				
	Wrought hardwood as described				
H	12 x 44mm door and window stops	165	m		
	JOINERY TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	IRONMONGERY				
	Supply and fix the following ironmongery to hardwood with screws to match:				
A	Pair 100mm Brass butt hinge	26	No.		
B	75mm Brass butt hinges	36	No.		
D	150mm brass tower bolts	12	No.		
E	100mm barrel bolts	60	No.		
F	100mm Hasp & staples	6	No.		
G	Mortice locks	2	No.		
H	Heavy duty brass/chrome padlock with set of keys	6	No.		
	IRONMONGERY TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	METAL WORKS				
	Mild steel Burglar Proof				
	Mild steel burglar proof rods rods cut to size and threaded through window frames and blockwork				
A	16mm diameter	41	kg		
	Standard Units				
	Metal Maaco' louvre carriers with clips, original screwed to hardwood frames with screws to match				
B	Pair louvre carriers with 3 No clips for 150mm wide blades	2	No.		
C	Pair louvre carriers with 8 No clips for 150mm wide bades	4	No.		
D	50 x50mm squared welded mesh cut to required sides and fixed to window openings as burglar proof Galvanised	5	m2		
E	Aluminium mosquito proof net ditto	5	m2		
	METAL WORK CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	PLASTERWORK, FLOOR, WALL AND CEILING FINISHING				
	Insitu Finishings				
	25mm cement and sand render(1:4) as described on blockwork and concrete				
A	Wall	576	m2		
B	Ditto exceeding 300mm	99	m2		
	Screeding				
C	screed 50mm thick, cement and sand (1:4)mix trowelled smooth on 150mm concrete bed (measured separately)	282	m2		
D	**Ceiling Finish**				
	3mm thick plywood (whrought) fixed to soffits of ceiling joist (m/s)	23	m2		
	PLASTERWORK,FLOOR WALL AND CEILING FINISHINGS CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	GLAZING				
A	150 wide obscure glass louvres 800mm long fixed to clips in louvre carriers(measured separately)	38	No.		
	GLAZING CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	PAINTING AND DECORATION				
A	Prepare and apply one coat of wood primer on hardwood surface not exceeding 300mm before fixing (fascia)	19	m		
	Prepare and apply three coats of emulsion paint as described:				
B	Rendered wall	576	m2		
C	Ditto surfaces exceeding 300mm	99	m2		
D	Teracotta, 2-coats	99	m2		
E	soffits of ceilings (plywood)	23	m2		
	Knot prime and apply two coats of gloss finishing paint on hardwood surfcace as described				
F	Ditto General surface door and windows	36	m2		
G	Ditto Surface not exceeding 300mm girth	42	m2		
	PAINTING AND DECORATION CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	ELECTRICAL WORKS				
	CONDUIT AND CABLE TRUNKING				
	Conduit, straight, 25mm diameter PVC pipe				
A	Running in ceiling	90	m		
	HV/LV CABLES AND WIRING				
	Low voltage cables, PVC insulated , colour coded drawn into conduits				
B	1.50mm^2 single core lighting and fan points	350	M		
C	2.50mm^2 3- core to SSO's	350	M		
D	Ditto 16mm2 for main switch connections	80	M		
E	cut-out	1	nr		
	Main switch as havells or approved equal				
F	8-way main switch	1	nr		
	LUMINAIRES AND LAMPS				
	Supply and install the following to manufacturers standards				
G	26W LED energy Saving bulbs with luminance enhancing glass	2	Nr		
H	85W LED ESB in classrooms	6	Nr		
J	Ditto in verandah	6	Nr		
	LIGHTING ACCESSORIES				
	Switch socket outlet, shuttered flush, ivory plastic pattern steel knockout box plugged and screwed to masonry				
K	13A 3pin Double switch socket	8	Nr		
	Lighting switches, 6A single pole silent action flush ivory plastic plate and steel knock out box plugged and screwed to masonry				
L	1-gang 1-way switch	2	Nr		
M	2-gang 1-way switch	5	Nr		
N	3-gang 1-way switch	2	Nr		
P	Supply and fix 1.4m sweep ceiling fan, complete with regulator, as 'focus' or equal.	1	Nr		
Q	Allow for the provision of junction boxes, MK boxes, ceiling roses and lamp holders of all type necessary, earth electrode and burrying		Item		
R	Allow a provisional sum for works by the ECG for bringing mains cable to building, installing a meter and connection to switch gears		Item		
	ELECTRICAL INSTALLATIONS CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	AMOUNT (GH¢)
	SUMMARY OF BILL NO. 2	
	SUBSTRUCTURE	
	CONCRETE WORK	
	BLOCK WORK	
	ROOFING	
	CARPENTRY	
	JOINERY	
	IRONMONGERY	
	METAL WORKS	
	PLASTER AND OTHER FLOOR WALLS AND CEILING FINISHINGS	
	GLAZING	
	PAINTING AND DECORATION	
	ELECTRICAL INSTALLATION	
	3-UNIT CLASSROOM BLOCK	
	CARRIED TO GENERAL SUMMARY	

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	QTY	UNIT	RATE (GH¢)	AMOUNT (GH¢)
	BILL NO: 3 EXTERNAL WORKS				
	a) Aprons, steps and Ramps				
A	Excavate trench for kerb or dwarf wall not exceeding 1.50m deep commencing at ground level	25	CM		
B	Remove excavated material from site	15	CM		
C	Backfill around foundations with selected excavated material	15	CM		
D	225mm thick Laterite filling to make up levels under aprons, ramps & steps	20	CM		
E	Insitu Concrete, 1:3:6/38mm agg. in kerb footing or dwarf wall foundation	8	CM		
F	Ditto in 100mm thick apron	4	CM		
G	50mm cement:sand (1:3) screed, trowelled smooth on apron	47	SM		
H	25mm thick cement and sand render (1:4) to sides of dwarf wall	23	SM		
J	Blockwork, 150mm thick in apron, steps and ramps	35	CM		
	EXTERNAL WORKS AND DRAINAGE CARRIED TO SUMMARY				

CONSTRUCTION OF A 3-UNIT CLASSROOM BLOCK DUAL VERANDAH WITH OFFICE & STORE AT NINGO

ITEM	DESCRIPTION	AMOUNT (GH¢)
	GENERAL SUMMARY	
	BILL NO.1 PRELIMINARIES	
	BILL NO.2 3-UNIT CLASSROOM BLOCK	
	BILL NO.3 EXTERNAL WORKS (Aprons/Steps/Ramps)	
	SUB-TOTAL 1	
	ADD FOR PHYSICAL CONTINGENCIES 5%	
	TOTAL COST OF PROJECT CARRIED TO FORM OF TENDER	