ITEM	DESCRIPTION	AMOUNT (GH¢)
	BILL NO. 1 - PRELIMINARIES PRELIMINARY PARTICULARS *Names of Parties*	
A	The following terms, wherever they occur shall be interpreted as hereunder: - a) The term **Employer** shall be held to mean ActionAid Ghana b) The term **Consultant** shall be held to mean Messrs LASJOE Consult Company Limited P. O. Box 9, Zebila c) The term **approve, directed or selected** shall mean the approval, direction or selection of the Consultant. d) Wherever the word **allow** occurs the cost of the item is at the risk of the Contractor	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	Description of Site	
A	The site is situated at …….	
B	The Contractor shall be deemed to have visited the Site and satisfied himself as to: a) The nature of the Site b) The amount of bush, rubbish or debris to be cleared away before commencement. c) The nature, proximity and size of adjoining property and building. d) The nature of existing communication by road or otherwise. e) The means of access to the Site. f) The availability of land for the erection and positioning of all structures, plant and materials necessary for the execution of the works. g) The conditions of the Sub-soil strata, water levels and climate likely to affect the execution of the works. h) The nature of the ground to be excavated. g) The sources of adequate supplies of labour, plant and materials for the completion of the work.	
C	Where trial holes have not been dug or where the Contractor wishes to excavate additional trial holes before submitting his tender, he may do so in positions to be agreed with the Consultant and at his sole expense, including the reinstatement of the ground if so required by the Consultant, the Contractor is to satisfy himself as to any difficulties that may present and to make all necessary enquiries to any points which in my opinion require further elucidation as no claim for lack of information on any of the above will be entertained.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	Description of Works	
A	The Works to be executed comprise the following; - The work comprises the Construction of the substructure and superstructure of various infrastructure types of varying dimensions as shown on the drawings. The construction is a reinforced concrete frame of pitched timber roofs, beams and columns. The external walls are rendered and painted sandcrete blockwork construction with a combination of aluminium windows and doors and louvred windows and hardwood panel and flush doors. The roof is corrugated aluminium fixed to mainly hardwood purlins and rafters	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	GENERAL MATTERS	
A	**Pricing Preliminaries** The Consultant shall price out individually and in detail all the items in this and any other sections of the Bills of Quantities as required and under no circumstance will lump sums be allowed.	
B	**Plant Tools and Vehicles** **Small Plant and Tools** The Contractor shall provide for all necessary small plant such as barrows, planks, picks, shovel, etc. and small tools required in the execution of the works.	
C	**Cranes** The Contractor shall allow for the costs of the provision and use of all necessary cranes for lifting materials and components on the site.	
D	**Hoists** The Contractor shall allow for the costs of the provision and use of all necessary hoits for lifting materials and components on the site.	
E	**Transport** The Contractor shall provide for the cost of all necessary transport required for the conveyance of materials, components and equipment to be used for the execution of the works.	
F	**Earthmoving Plant** The Contractor shall allow for the costs of the provision and use of all earthmoving plant required for the execution of the works.	
G	**Concrete Plant** The Contractor shall allow for the costs of the provision and use of all concrete plant required for the execution of the works.	
H	**Paving and Surfacing Plant** The Contractor shall allow for the costs of the provision and use of all necessary paving and surfacing plant required for the construction of the building and external works.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Safety, Health and Welfare of Workpeople** The Contractor shall provide for all the costs incurred by and comply with all safety, health and welfare regulation appertaining to all operatives on the site, including the provision of protective clothing. Any accommodation required shall be cleared away on completion and the area made good.	
B	**Notices and Fees to Local Authorities and Public Undertakings** A provisional sum for the fees and charges, including rates upon temporary buildings which the contractor is required to pay to local authorities is included elsewhere in the bill of quantities.	
C	**Setting Out of the Works** The Contractor shall provide all necessary surveying instruments and ancilliary items required for setting out.	
D	**General Foreman** The Contractor shall provide all site administration costs including the cost of the person-in-charge in accordance with clause 7 of the conditions of contract.	
E	**Transport for Workpeople** The Contractor shall provide for all cost in respect of transport personnel to and from the site.	
F	**Safeguarding the Works, Materials and Plant against Damage and Theft** The Contractor shall safeguard the works, materials and plant against damage or theft, including the provision of all necessary watching and lighting	
G	**Maintenance of Public and Private Roads** The Contractor shall maintain public and private roads, footpaths kerbs and channels and shall keep the approaches to the site clear of mud and dirt. The Contractor shall make good at his own expense any damage caused by his own or any sub-contractor's or supplier's transport and shall pay any necessary costs and charges.	
H	**Police Regulation** The Contractor shall at all times observe any police regulations particularly those relating to the loading and unloading of vehicles shall provide any necessary traffic control.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Attendance on Site** The Contractor shall provide for the provision of a Chairman and special attendance required by the Consultant or the Clerk of Works.	
	Obligation imposed by the Employer	
B	**Sufficiency of Tender** The Contractor shall be deemed to have satisfied himself before tendering as to correctness and sufficiency of his tender for the works and of the prices inserted in the bills of quantities to cover all his obligations under the contract and everything necessary for the proper completion of the works.	
C	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 of Quantities. The prices or rate 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 work described.	
D	**Supply of Materials and Goods** The Contractor shall ensure that all necessary materials and goods shall be delivered to the site in the correct quantities and quality and at the required time.	
E	The whole of the material (except where otherwise described) and equipment required for the performance of the contract by the Contractor must be provided through normal trade channels and shall include for the payment of all necessary bank charges, opening letters of credit establishing import licensing agent's fees and other similar charges delivered to site 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.	
F	Sample of all material to be used must be submitted to the Consultant or his representative on the site.	

G	On the date of the signing of the contract the Contractor is to make it 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.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Supply of material and Goods (Cont'd)** In the Bills of Quantities and in all instances in which articles and material of a propriety manufacture the described articles and materials of a propriety manufacture may be substituted provided that such articles and materials are similar in design and details, 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 Consultant.	
B	**Upkeep of documents on the Site** All loose copies of documents which are required to be maintained by the Contractor on the site, such as one reference set of drawings with any revisions, site instructions and delivery notes shall be kept fastened in suitable covers/files in the site office, for protection against loss or damage and for easy accessibility. Any document removed from these files shall be recorded therein so that it can be traced when required. At practical completion the Contractor shall request the Consultant's instructions regarding the further treatment of the collected documents.	
C	**Confidentiality of Documents** The Contractor shall treat the Contract and everything within it as private and confidential. In particular the Contractor shall not publish any information, drawing or photograph relating to the works except with the written consents of the Consultant and subject to such conditions as he may prescribe.	
D	**Contract Bills and Method of Measurement**	

E	The quality and quantity of the work included in the Contract sum shall be deemed to be that which is set out in the contract Bills which Bills unless otherwise expressly stated in respect of any specified item of items shall be deemed to have been prepared in general accordance but not in every detail with the Standard Method of Measurement of Building works Fifth Edition metric issued by the Royal Institution of Chartered Surveyors, 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 method of measurement has been abridged to reduce and simplify the number or items. The Contractor's attention is drawn to these amendments which are set out under "General Notes on Method of Measurement" and the tener figures are to include for the labour and materials included therein.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Contract Bills and Method of Measurement (Cont'd)** Any error in description or in quantity or in omission of items from the contract bills shall nor vitate this contract but shall be corrected and deemed to be a variation required by the Consultant.	
B	**Materials and Workmanship** Materials, components and workmanship shall be of good quality and in accordance with the British Standards and codes of Practice Prescribed.	
C	**Quality Control** The Contractor shall carry out the carious Quality Control procedures described in the specifications to ensure that the required quality standards are achieved.	
D	**Tests** The Consultant may, when he considers advisable test any materials before they leave the maker's premises as well as on site and the Consultant shall be at liberty to reject any materials after delivery should he consider them unsatisfactory notwithstanding the Preliminary test and approval of the materials at the maker's premises. The costs of these tests are to be borne by the Contractor.	
E	**Noise and Pollution Control** The Contractor's attention is drawn to the control of noise in relation to any demolition and contribution works and to the obtaining of any necessary prior consents from the responsible authority. The contrator shall comply with all requiements and restrictions that may be imposed and shall cover any costs involved. No instruction issued to the Contractor by the Consultant shall relieve the Contractor from his responsibility for compliance. The Contractor shall provide for taking all reasonable precautions to ensure the efficient protection of all streams and waterways against pollution arising out of or by reason of the execution of the works. The Contractor shall provide for taking all necessary precautions to prevent nuisance from water, smoke, dust, rubbish and other cases.	
F	**Maintain Adjoining Building** The Contractor shall allow for taking all necessary precautions to prevent any damage occurring to adjoining building and boundary walls and to reinstate any damaged parts from works at his own expense.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Maintain Live Services** The Contractor shall establish the position of, protect, unhold and maintain all pipes, ducts, sewers. Service mains, overhead cables and the like during the execution of the works. The Contractor shall make good any damage due to any cause within his control at his expense or pay all resultant costs and charges. Where it is necessary to interrupt any such mains or services for the purpose of making permission shall be obtained from the Consultant and where appropriate, from the Local Authority or Statutory undertaking and the duration of any interruption kept to a minimum.	
B	**Security** The Contractor shall provide for carrying out adequate security arrangements designed to prevent vandalism and theft and all materials and goods on the site	
C	**Method and Sequence of Work** The Contractor, upon acceptance of his offer shall proceed immediately with the preparation of a programme or statement clearly identifying the sequence of all operations and the time limit within which the Contractor proposes that each operation shall be commenced and completed. The Contractor in preparing the works embraced in this contract including the work of nominated sub-contractors, local authorities and statutory undertakings, whether engaged by him or directly by the employer. The Consultant shall supply the Contractor with adequate details of all work to be carried out by other engaged directly by the employer where such work is to be integrated with the work under this contract. Upon the agreement or negotiated amendment of the programme by the Contractor shall be responsible for executing the works in conformity with it.	
D	Two copies of the agreed programme are to be supplied to the Consultant within seven days of agreement being reached. At the same time the Contractor shall issue to the Consultant a statement setting out the the dates by which drawings and other instructions are required by him for the implementation of the agreed programme.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Use of Site** The whole of the site as shown is available to the contractor. No operations shall trespass beyond the limits of the working area other than to carry out works in connection with the contract. All temporary buildings, plant, spoil heaps are to be sited in positions approved by the Consultant.	
B	**Use or disposal of materials found** The Contractor shall not excavate on the site for sand or grave, but any obtained from the excavations shall remain the property of the Employer and may if approved by the Consultant be used in the work. The quantity so used shall be measured and the value assessed and deduted from the contract sum.	
C	All objects value or antiquity found on the site shall remain the property of the Employer and such finds shall be immediately reported to the Consultant.	
D	**Name Board** The Contractor shall, immediately upon the commencement of the works and in accordance with details supplied by the Consultant, make and erect a sign board showing the name and the crest of the Employer and such other information and shall be directed by the Consultant. The cost of the sign board including erection, taking down, removing and making good all work disturbed is covered by a provisional sum included elsewhere in the Bill of Quantities.	
E	The Contractor may erect his name board in a position approved by the Consultant bearing his name and address and those of his sub-contractors. This board shall be supplied and erected at the Contractor's expense. No other notices on advertisements shall be permitted upon any of the site.	
F	**Daily Returns** The Contractor shall furnish the Consultant with statements showing the number of men employed in all trades daily and with delivery notes of the materials delivered to the site.	
G	**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.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Replacement of Contractor's Employees** The Consultant or his agents shall have power to require the Contractor's immediately to cease to employ in connection with the contract and to replace any person whose continued employment there is in the opinion of the Consultant undesirable.	
B	**Explosives and Protection** All explosives or petroleum shall be stored in strict compliance with the regulations laid down by the competent statutory authority. Explosives shall not be used without the written permission of the Consultant.	
C	**Religious Rights** Religious rights shall not be interfered with unnecessarily.	
D	**Examination of Works** No work shall be covered up till it has been examined and passed by the Consultant.	
E	The Consultant may at any time up to the end of the Defects liability period instruct the Contractor to open up, pull down, test or expose any part of the works in order to satisfy himself as to the quality of materials or workmanship used. If in the opinion of the Consultant, such parts are not in strict accordance with the contract documents he may order the Contractor to repair and reinstate any such part of the works at the Contractor's own expense and to the entire satisfaction of the Consultant. If any such part of the works are found to be in accordance with the Contract Documents the Contractor will be reimbursed the net cost of his expense in this connection.	
F	**Water for the Works** The Contractor shall provide clean, fresh water for use on the works, pay all necessary charges, provide all temporary connections, leads and fittings and shall clear away and make good on completion.	
G	**Lighting and Power for the Works** The Contractor shall provide all artificial lighting and power for use on the works, pay all necessary charges, provide all temporary connections leads and fittings and shall clear away and make good on completion.	
H	**Contractor's Liability** The Contractor shall be solely responsible for safeguarding damage and theft and he is advised to effect such additional insurance as is necessary adequately to cover such risks.	

	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	TEMPORARY WORKS	
A	**Temporary Roads** The Contractor shall provide for and maintain all necessary temporary roads, tracks, hard-standings, crossings and shall clear the like away and makegood on completion	
B	**Temporary Buildings** The Contractor shall provide and maintain, in position to be agreed with the Consultant, temporary office accommodation for the Contractor's staff and water-tight sheds for the storage of materials.	
C	The Contractor shall provide and maintain a secure, weather proof office for the Clerk of Works with a floor area of not less than 20m² and not less 2.10m high, with adequate insulated floor, walls and roof, the floor covered with Linoleum. He shall provide a desk or table with lockable drawers, clothes locker, ample plan chests or racks, sloping plan bench chairs, lockable steel filling cabinet, drawing board, tee-square and lockable equipment cupboard. He shall also provide artificial lighting attendance and cleaning.	
D	The Contractor is to provide and maintain separate temporary toilet accommodation for the use of the Clerk of Works and other Employer's representatives and to maintain it in a clean and odour-free condition. Wherever possible such accommodation shall be of the flushing type and temporary connected to a suitable drain. The Contractor shall provide a wash hand basin with an adequate supply of soap and clean towels.	
E	The Contractor shall alter, move and adapt the foregoing temporary buildings as necessary and finally clear away and make good all surfaces and services disturbed.	
F	**Temporary Telephones** The Contractor shall provide and maintain a telephone service to the office of the person-in-charge and to the offices of such other of the Contractor's staff as may be necessary for the full period of the works and shall pay all appropriate charges and expenses.	

G	The Contractor is responsible for the installation of a separate telephone for the use of the employer and for the cost of telephone calls made on his behalf. A provisional sum for installation and payment of calls for the employer is included elsewhere in the Bill of Quantities.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Temporary Screens, Hoarding and Cantries** The Contractor shall provide and maintain all necessary temporary screens, hoarding, fans, fencing and the like for the proper execution of the works for the protection of the public occupants of adjoining premises and for meeting the requirements of any local or other authority and shall alter remove, adapt as necessary and final clear away when no longer required and shall reinstate all surfaces and services disturbed.	
B	Where drain or service trenches are to be excavated outside the working area, such trenches shall be fenced or enclosed at all times	
C	**General Scaffolding** The Contractor shall provide all necessary and standing scaffolding for the execution of the works.	
D	**Works by Public Bodies** A provisional sum for works undertaken by public bodies is included elsewhere in this bill of quantities.	
E	**Testing** The Contractor shall allow for all testing to all installations necessary for this purpose and leave the whole in perfect working order to the satisfaction of the Consultant and Local Authority.	
F	**Works by Nominated Sub-contractors** The Contract shall obtain from nominated sub-contractors their requirement for recesses, chases, holes and the like so that these may be formed correctly as the work proceeds. In the event of the Contractor failing to obtain and/or use this information no extra charge shall be allowed for cutting recesses, chases, holes and the like after completion of the works.	
G	**Definition of "General and Special Attendance"** General attendance is deemed to include the use of the Contractor's temporary roads, pavings and paths, standing scaffolding not required to be altered or retained, standing power operated hoisting plant, the provision of temporary lighting and water supplies, clearing away rubbish, provision of space for the Sub-contractor's own offices and the storage of his plant and materials and the use of mess rooms, sanitary accommodation and welfare facilities provided by the Contractor for his own use.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
A	**Definition of "General and Special Attendance" (Cont'd)**	
B	Special Attendance shall be other attendances on the nominated Sub-contractors such as special scaffolding or scaffolding additional to Contractor's standing scaffolding or standing scaffolding required to be altered or retained the provision of temporary access roads and hand standings in connection with structural steelwork, precast concrete components pilling heavy items of plant and the like; unloading, distributing, hoisting and placing in position the provision of covered storage and accommodation including lighting and power thereto, power supplies, maintenance of specific temperature or humidity levels and any other specified attendance.	
	Protection drying and Cleaning the Works **Protection** The Contractor is required to protect the works in all section as required by the Standard Method of Measurement, Fifth Edition.	
C	**Protection from the Weather** The Contractor shall, without compensation, delay or suspend the progress of the works or any part thereof, during inclement weather for such periods as may be required by the Consultant. The Consultant shall determine what extension of time (if any) shall be allowed to the Contractor for such suspension.	
D	**Drying the Works** The Contractor shall provide for adequate drying out of the building during the execution of the works both for the Contractor's own work and for the work of all nominated sub-contractor's and shall allow for providing all necessary labour, appliances and fuel.	
E	**Removing Rubbish and Clearing** The Contractor shall provide for the removal of all rubbish from the site both as it accumulates from time to time and on completion.	
F	The Contractor shall provide for keeping the site tidy throughout the construction period, for cleaning the building inside and out touching up paint work and for leaving the whole of the works clean on completion to the satisfaction of the Consultant.	
G	**Contingencies** Allow the provisional sum of ( ) for notices and fees to Local Authorities and Public undertakings name boards; installation and payment of telephone calls by the Employer, works by Public Bodies and Contingencies.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	DAYWORKS **DEFINITIONS OF PRIME COST OF DAYWORK** The following definitions of cost of labour, materials and plant shall apply: **Section (1) - Labour**	
A	The amount of wages at the standard time rates applicable when the dayworks are carried out and such extra payments or differentials as are fixed in respect of skill, responsibility, discomfort, inconvenience and risk paid in accordance with the rules and awards of the recognised wage-fixing bodies of the rate concerned in force in the area in which the work is carried out.	
B	The amount of wages paid at the standard rates of workmen engaged on dayworks and operating mechanically operated plant and transport, except where otherwise provided in the Contract Bills and erecting and dismantling other plant.	
C	The time of principals, foremen, gangers and leading hands at the time rates for the trades practiced when actually working with their hands, unless previously otherwise authorised.	
D	The cost of overtime, where specifically ordered or subsequently sanctioned in writing by the Consultant to be worked on daywork.	
	Section (2) - Materials	
E	The cost of materials, including delivery to site, materials supplied form the Contractor's stock at current prices plus justifiable charges for handling and delivery to the site.	
	Section (3) - Plant	
F	Use of mechanically operated plant and transport for the time engaged in dayworks.	
G	Use of scaffolding, staging, trestles, tarpaulins and other non-mechanical plant, excluding hand tools, specially provided for daywork operation for such time as the Consultant considers reasonable.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	Section (4) - Overheads Where the above definition of Prime Cost is used, overheads as defined below and profit may be dealt with by means of percentages on the totals of Prime Cost in each of the Sections (1), (2) and (3) above at rates stated in the Contract Bills. (a) Head Office Charges (b) Site-Supervision and Site Staff (c) Overtime other than that allowed under section (1) Item D (d) Time lost due to inclement weather (e) Bonuses and all other incentive payments (f) Apprentices study time (g) Social Security Fund (h) Contributions annual and public holidays (i) Fares and time allowance for travelling (j) Substance and periodic leave allowance (k) Safety and Welfare facilities (l) Third party and Employer's liability insurances (m) Sick pay or insurance in respect thereof (n) Redundancy Payments (o) Tool allowance (p) Use, repair and sharpening of small tools (q) All non-mechanically operated plant, erected scaffolding and staging trestles, protective clothing, artificial lighting, storage facilities and the like that may be general use on the site (r) All other liabilities and obligations whatsoever	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT (GH¢)
	COLLECTION Page No. 1/1 ……... Page No. 1/2 …… Page No. 1/3 …… Page No. 1/4 …… Page No. 1/5 …… Page No. 1/6 …… Page No. 1/7 …… Page No. 1/8 …… Page No. 1/9 …… Page No. 1/10 ……. Page No. 1/11 ……. Page No. 1/12 ……. Page No. 1/13 ……. Page No. 1/14 ……. Page No. 1/15 ……. Page No. 1/16 …….	
	BILL NO. 1 **PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT** **Carried to General Summary**	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	BILLS OF QUANTITIES FOR THE CONSTRUCTION OF A PROPOSED IRCC FARMERS TRAINING CENTER.				
	BILL NO.2: SUBSTRUCTURE				
	(ALL PROVISIONAL)				
	GROUNDWORK				
	Site Clearance				
A	Clear site of vegetative matter average 150mm deep and the like and wheel a distance not exceeding 200 metres and deposit in spoil heaps where directed	240	m^2	5.00	
	Cutting of Trees				
B	Cut down trees not exceeding 600mm girth; grub up roots, dispose offsite and fill void with laterite as directed	0	nr	600.00	
C	Ditto; exceeding 600mm girth; but not exceeding 900mm	0	nr	900.00	
D	Ditto; exceeding 1800mm girth; but not exceeding 2100mm	0	nr	1,250.00	
	D20 Excavating and Hydraulic filling				
E	Excavate top soil and cart away from site to a distance not exceeding 100m, average depth 150mm	240	m^2	7.00	
F	Excavate trenches, width exceeding 0.30m, maximum depth not exceeding 1.00m.	35	m^3	75.00	
G	Excavate trenches for planter, ramp and steps, width 0.30m, maximum depth 0.25m	0	m^3	75.00	
H	Excavate pits; maximum depth; not exceeding 1.50m	34	m^3	85.00	
	Breaking out existing materials; extra over any types of of excavation irrespective of depth				
J	Rock; (provisional)	5	m^3	350.00	
K	Fused Laterite; (provisional)	5	m^3	190.00	
L	Disposal of excavated materials off site	35	m^3	35.00	
M	Load excavated materials and store in temporary heaps at site	0	m^3	35.00	-
N	Hydraulic filling to excavations, materials arising from excavations excavations	35	m^3	35.00	
				C/F	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
				B/F	
A	Hydraulic filling using sieved sand to make up levels, with selected laterite gravel obtained off site and compacted in layers not exceeding 225mm thick, average thickness exceeding 0.25m	142	m^3	210.00	
B	Hydraulic filling using sieved to make up levels, with selected laterite gravel obtained from temporary heaps at site and compacted in layers not exceeding 225mm thick, average thickness exceeding 0.25m	0	m^3	120.00	
C	Allow for Treatment of Foundation works with Anti Termite Treatment with "Aldrex 40" emulsion.		sum		
	GROUNDWORK TOTAL CARRIED TO SUMMARY				
	E - IN SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10 In situ concrete				
	Plain in situ concrete (1:3:6-40mm aggregates) in:				
D	Blinding in column bases; 50mm thick	1	m^3	1,600.00	
E	Foundation trenches; 300mm thick	12	m^3	1,600.00	
F	Plain in situ concrete, (1:2:5-20mm aggregates) in entrance steps and ramp	3	m^3	1,800.00	
G	Reinforced in situ concrete, (1:2:5-20mm aggregates) in columns bases	8	m^3	1,800.00	
H	Ditto, in columns	2	m^3	1,800.00	
J	Ditto; Ground Beams	5	m^3	1,800.00	
K	Ditto, in 150mm Thick floor bed	28	m^3	1,800.00	
	E20 Formwork for in situ concrete				
L	Sawn formwork to edges of beds; plain; vertical, height not exceeding 250mm	57	m	23.75	
M	Ditto, to sides of columns	28	m^2	95.00	
N	Ditto; Ground Beams	94	m	47.50	

			C/F		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
			B/F		
	E30 Reinforcement for insitu concrete				
	Reinforcement bars, B.S. 4449, mild steel round bars				
A	16mm diameter; ditto in column bases	0.60	t	12,350.00	
B	20mm diameter; columns in foundation	0.60	t	12,350.00	
C	10mm diameter links, in columns	0.12	t	12,350.00	
D	12mm diameter; ditto; in all ground beams	0.43	t	12,350.00	
E	10mm diameter stirrups, in ground beams	0.59	t	12,350.00	
	BRC - 8mm thick Steel fabric mesh reinforcement as 'BRC mesh No. A393 with 300mm minimum lap both ways (measured net), described in:				
F	Floor bed - 150mm thick	184	m^2	96.00	
	E40 Designed joints in concrete				
G	25mm "Flexcel" or other bitumen impregnated expansion joint material set vertically in walls	0	m^2	50.00	
H	Ditto 450mm wide and set vertically in columns	0	m	22.50	
J	Ditto 200mm wide in ground beams	0	m	10.00	
K	Ditto 150mm wide in floor bed	0	m	75.00	
	IN SITU CONCRETE/LARGE PRECAST CONCRETE TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	F - MASONRY				
	F10 Brick/Block walling				
A	150mm thick solid sandcrete blockwork; in cement and sand mortar (1:4) in stretcher bond in **foundation walls**	89	m^2	240.00	
	MASONRY TOTAL CARRIED TO SUMMARY				
	J: WATER PROOFING				
	J40: Damp proof membrane				
B	Single layer polythene damp proof membrane laid on laterite hardcore material with all joints properly sealed	184	m^2	16.00	
	WATER PROOFING CARRIED TO SUMMARY				
	M -SURFACE FINISHES				
	M10 Sand cement/Concrete/Granolithic screeds/ flooring				
C	42mm thick screeded bed (1:4) to receive floor tiles	6	m^2	75.00	
	M20 Plastered/Rendered/Rougcast coatings				
D	12mm thick cement and sand rendering (1:4) on plinth **externally**	34	m^2	52.00	
	M60: Painting/Clear Finishings				
	Painting; Prepare and apply two thinned undercoats and one full finishing coat of acrylic paint on:				
E	Rendered Surfaces; Girth exceeding 300mm	34	m^2	36.00	
F	Include the provisional sum of **50,000.00 Ghana Cedis** for additional works in substructure.	1	Items	50,000.00	
	SURFACE FINISHES TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	SUMMARY				
A	GROUNDWORK				
B	IN SITU CONCRETE/LARGE PRECAST CONCRETE				
C	MASONRY				
D	WATER PROOFING				
E	SURFACE FINISHES				
	SUBSTRUCTURE Carried to General Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	BILL OF QUANTITIES FOR THE CONSTRUCTION OF A PROPOSE IRCC FARMERS TRAINING CENTER BILL NO.3: SUPERSTRUCTURE				
	E - IN SITU CONCRETE/LARGE PRECAST CONCRETE				
	E10 In situ concrete				
A	Reinforced in situ concrete, (1:2:5-20mm aggregates) in columns	4	m^3	1,800.00	
B	Ditto, in roof beam	10	m^3	1,800.00	
C	Ditto, in gable tie beam	0	m^3	1,800.00	
D	Ditto, in suspended roof slab and gutters		m^3	1,800.00	
E	Ditto, in parapet walls	0	m^3	1,800.00	
F	Ditto, in 225mm Thick lift well walls (provisional)		m^3	1,800.00	
G	Ditto, 75mm Thick walls		m^3	1,800.00	
	E20 Formwork for in situ concrete				
	Sawn formwork				
H	Ditto, to sides of columns	54	m^2	95.00	
J	Sawn formwork, to circular of sides of columns		m^2	95.00	
K	Ditto, to sides and soffits of roof beams	98	m^2	95.00	
L	Ditto, to soffits of roof slab / gutter		m^2	95.00	
M	Ditto, to sides and soffits of gable beam	0	m^2	95.00	
N	Ditto, to vertical sides of parapet walls	0	m^2	95.00	
O	Ditto, to vertical sides of lift well walls (provisional)		m^2	95.00	
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	E30 Reinforcement for insitu concrete				
A	5-20mm diameter; in columns	0.67	t	12,350.00	
B	10mm diameter links, in columns	0.23	t	12,350.00	
C	5-20mm diameter; ditto; in roof beams	1.96	t	12,350.00	
D	16mm diameter; ditto; in roof beams		t	12,350.00	
E	12mm diameter links in roof beams	0.16	t	12,350.00	
F	10mm diameter links in roof beams	0.57	t	12,350.00	
G	12mm diameter; ditto; in gable tie beams	0.00	t	12,350.00	
H	10mm diameter links in gable tie beams	0.00	t	12,350.00	
J	12mm diameter; ditto; in roof slab / gutter		t	12,350.00	
K	12mm diameter; ditto; in lift well walls (provisional)		t	12,350.00	
L	10mm diameter; links ditto (provisional)		t	12,350.00	
	Carried to collection				
	COLLECTIONS				
	Page No. 1				
	Page No. 2				
	IN SITU CONCRETE/LARGE PRECAST CONCRETE TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	F - MASONRY				
	F10 Brick/Block walling				
A	225mm thick sandcrete blockwork; in cement and sand mortar (1:4) in stretcher bond in **walls**		m^2	145.00	
B	150mm thick hollow sandcrete blockwork; in cement and sand mortar (1:4 in stretcher bond in **walls**	218	m^2	240.00	
C	125mm thick hollow sandcrete blockwork; in cement and sand mortar (1:4) in stretcher bond in **Parapet**		m^2	240.00	
	F31: Precast concrete				
D	Coping, 50 x 194mm wide reinforced with BRC mesh and finished fair on all surfaces, twice weathered including all necessary mouldings and painting		m	75.00	
	MASONRY TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	G - STRUCTURAL/CARCASSING METAL/TIMBER				
	G 10 Structural Steel Framing				
A	Prefabricated steel framing trusses size 11,900mm x 3000mm high built to Engineers instructions	3	no	15,000.00	
B	Ditto; size 5400mm x 3000mm high	2	no	8,000.00	
	G20 Carpentry/Timber framing/First fixing				
	Structural Timbers (All in sawn and well-seasoned "Dahoma" or other approved hardwood impregnated with "solignum" or other approved wood preservative)				
A	50 x 100mm Rafters	70	m	20.00	
B	50 x 150mm Trimmer joist		m	28.00	
C	50 x 100mm Wall plate	56	m	20.00	
D	50 x 75mm Purlins	375	m	15.00	
E	50 x 150mm Hip rafter	48	m	28.00	
F	50 x 75mm Ceiling joist	932	m	15.00	
G	50 x 75mm Ceiling hangers	360	m	10.00	
	Wrought hardwood				
H	300mm x 25mm thick; fascia board	66	m	36.00	
	Metal work				
	Carpenter's Metalwork				
J	16mm Diameter x 250mm long fish tailed rag bolt	90	no.	10.00	
K	20mm Diameter x 250mm long fish tailed rag bolt	45	no.	15.00	
	STRUCTURAL/ CARCASSING METAL/TIMBER TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	H - CLADDING/COVERING				
	H72 Aluminium sheet coverings/flashings				
A	**0.5mm** Gauge Long Span Aluminium roofing sheets; (standing seam) including approved drive screw nails, felt and Aluminium caps as per manufacturer's specification	280	m^2	360.00	
B	Ditto pre-formed ridge caps, 457mm girth	10	m	170.00	
C	Ditto pre-formed hip cap, 457mm girth	28	m	170.00	
	Sundries				
D	2 layers of felt 450mm wide under ridge, hip and valley caps	38	m	70.00	
	CLADDING/COVERING TOTAL CARRIED TO SUMMARY				
	K - LININGS/SHEATHINGS/DRY PARTITIONINGS				
	K40: SUSPENDED CEILINGS Plasterboard Ceilings as false ceiling;				
	12mm Thick green moisture resistant Plasterboard Ceilings, with 100 x 100mm Cornices to under soffit of hardwood (measured seperately), surface prepared sanded and white-painted to smooth finish as described				
E	Soffit of Ceiling Lining	223	m²	350.00	
F	Accoustic ceiling panels on aluminium grids fixed strictly in accordance with manucfacturers instructions		m²	250.00	
	LININGS/SHEATHINGS/DRY PARTITIONINGS TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	L - WINDOWS/DOORS/STAIRS				
	L11 Metal windows/rooflights/screens/louvres				
	Supply and fix the following aluminium insulated sliding windows 6mm thick clear glass framed in aluminium on double track with a third track for mosquito screen complete with and including all fixings, weatherproof locks as detailed on drawings				
A	Sliding window, overall size 2600 x 1300mm	6	nr	6,760.00	
B	Sliding window, overall size 1750 x 1300mm	2	nr	4,550.00	
C	Sliding window, overall size 1750 x 600mm	2	nr	2,100.00	
D	Sliding window, overall size 800 x 600mm	2	nr	960.00	
E	Sliding window, overall size 915 x 1830mm		nr	3,348.00	
F	Sliding window, overall size 1200 x 1830mm		nr	4,392.00	
G	Oval aluminium framed window, overall size 5200 x 600mm complete with insect-proof netting as detailed on drawings	0	nr	6,249.00	
	Supply and fix the following aluminium insulated fixed glass windows 6mm thick clear glass on a single track as detailed on drawings				
H	Fixed window, overall size 2790 x 2700mm		nr	15,000.00	-
J	Fixed window, overall size 2950 x 2700mm		nr	15,000.00	-
K	Fixed window, overall size 3150 x 2700mm		nr	17,010.00	-
L	Fixed window, overall size 4250 x 2700mm		nr	22,950.00	-
M	Fixed window, overall size 8360 x 2700mm		nr	45,144.00	-
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT (¢)
	L20 Timber doors/shutters/hatches				
A	Door frames; 50 x 150mm specified hardwood	40	m	105.00	
B	Door Sub-frames; 25mm x 150mm specified hardwood		m	105.00	
	Doorsets finished in clear varnish paint (spray paint finish); general purpose 25 x 150mm hardwood frame rebated around 44mm thick (Finished) "Redwood" factory-made panel door with architraves and stops pieces; stainless steel butt hinges; mortice locks; as directed and described in:				
C	Door size 900mm x 2050mm	4	nr	3,400.00	
D	Door size 600mm x 2050mm	2	nr	2,800.00	
E	Door size 800mm x 2100mm		nr		
F	Door size 915mm x 2030mm high		nr		
G	Door size 900mm x 2100mm		nr		
H	Door size 1010mm x 2100mm		nr		
J	Door size 900mm x 2900mm		nr		
K	Door size 1400mm x 2050mm in double leaf	2	nr	6,400.00	
L	Door size 2400mm x 2250mm high in double leaf		nr		
M	Flush door (hardwood) size 750mm x 2050mm		nr		
	Carried to collection				
	COLLECTION				
	Page No. 6				
	Page No. 7				
	WINDOWS/DOORS/STAIRS TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	BUILDING FABRIC				
	Wrot hardwood				
A	12mm x 50mm planted door stops	40	m	8.00	
	Ironmogry				
	Supply and fix the following in ironmongry to hardwood with matching screws				
B	Pair 100mm brass butt hinges	10	No	75.00	
C	150mm brass barrel bolt	4	No	60.00	
D	Indicator 'victorian' lock with set of lever handle complete	2	No	150.00	
E	**Approved imported mortice lock with set of lever handle furniture**	6	No.	600.00	
	BUILDING FABRIC CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	M -SURFACE FINISHES				
	M10 Sand cement/Concrete/Granolithic screeds/ flooring				
A	40mm thick screeded bed (1:4) to receive floor tiles	170	m^2	95.00	
B	12mm thick screeded bed (1:4) to receive wall tiles	43	m^2	56.00	
C	12mm thick screeded bed (1:4) to receive Skirting; 100mm	112	m	56.00	
D	50mm thick Sand and cement screed (1:4) mixed with Xypex solution and laid to fall on roof slab and bottom of eaves gutter		m^2	230.00	
	M20 Plastered/Rendered/Rougcast coatings				
E	13mm thick cement and sand plastering (1:4) on blockwork or concrete surfaces.	495	m^2	56.00	
	13mm thick cement and sand rendering (1:3) on :				
F	Ditto, to sides of columns	54	m^2	56.00	
G	Ditto, to sides of circular columns		m^2	56.00	
H	Ditto, to sides and soffit of roof beams	98	m^2	56.00	
J	Ditto, to sides and soffit of gable beams	0	m^2	56.00	
K	Ditto, to soffits of roof slab / gutter		m^2	56.00	
L	Ditto, to vertical sides of parapet walls		m^2	56.00	
M	Ditto, to vertical sides of lift well walls (provisional)		m^2	56.00	
	M40 Stone/ Concrete/ Quarry/ Ceramic tiling, etc				
N	Floors; 600mm x 600mm x 10mm thick polished porcelain tiles; bedded and jointed in approved material	170	m²	360.00	
P	Floors; 600mm x 600mm x10mm thick semi-porcelain tiles; bedded and jointed in approved material		m2		
Q	Ditto; Skirting; 100mm high	112	m	36.00	
	Carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
A	Floors; 300mm x 300mm x10mm thick unporcelain tiles; bedded and jointed in approved material		m2		
B	Wall; 250mm x 370mm x 7mm thick polished Ceramic; bedded and jointed in approved material	43	m²	280.00	
	M60 Painting/Clear finishing				
	Painting; Prepare and apply two thinned undercoats and one full finishing coat of acrylic paint on:				
C	Plastered wall surfaces	495	m^2	42.00	
D	Ditto, to sides of columns	54	m^2	42.00	
E	Ditto, to sides of circular columns	0	m^2	42.00	
F	Ditto, to soffits of roof slab / gutter		m^2	42.00	
G	Ditto, to sides and soffit of roof beams	98	m^2	42.00	
H	Ditto, to vertical sides of parapet walls	0	m^2	42.00	
J	Ditto **three coats** of Azar Emulsion paint on ceiling	223	m^2	42.00	
	Painting wood; Prepare and apply one coat of aluminium wood primer on back of wood				
K	General surfaces; not exceeding 300mm girth; frames; on site prior to fixing	6	m^2	20.00	
	Prepare knot, prime, stop, and apply **one coat wood primer** and **two final coats** gloss paint on hardwood;				
L	Girth not exceeding 300mm		m^2	60.00	
M	Girth not exceeding 300mm, on metal burglar bars (provisional)		m^2	60.00	
	Painting wood; Knot, prime, stop and apply two thinned undercoats and one full finishing coat of Polyurethane Lacquer on				
M	General surfaces, over 300mm girth; doors	31	m²	60.00	
P	Not exceeding 300mm girth; frames	10	m²	60.00	
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	COLLECTION Page No. 10 Page No. 11				
	SURFACE FINISHES TOTAL CARRIED TO SUMMARY				
	ELECTRICAL INSTALLATION				
A	**Include the provisional sum of GH 170,000.00 for electrical and its related installation**		Item		
	ELECTRICAL INSTALLATION				
	CARRIED TO SUMMARY				
B	**MECHANICAL INSTALLATION**				
	Include the provisional sum of GH 160,000.00 for Water Point/borehole, Overhead Tank, rainwater harvesting system and general plumbing installation		Item		
	MECHANICAL INSTALLATION				
	CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	SUMMARY				
A	IN SITU CONCRETE/LARGE PRECAST CONCRETE				
B	MASONRY				
C	STRUCTURAL/CARCASSING METAL/TIMBER				
D	CLADDING/COVERING				
E	LININGS/SHEATHINGS/DRY PARTITIONINGS				
F	WINDOWS/DOORS/STAIRS				
G	BUILDING FABRIC				
H	SURFACE FINISHES				
J	ELECTRICAL INSTALLATION				
K	MECHANICAL INSTALLATION				
	BILL NO.3: SUPERSTRUCTURE **Carried To General Summary**				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	BILL NO. IV: EXTERNAL WORKS				
	CONSTRUCTION OF PERIMETER FENCE WALL				
	GROUND WORK				
A	Clear site of small trees, shrubs and bushes etc.	150	m^2	5.00	
B	Cut down trees not exceeding 600mm girth, grub up root, dispose off site	8	no	900.00	
C	Ditto; exceeding 600mm girth but not exceeding 900mm.	5	no	900.00	
	D20 Excavating and filling				
D	Excavate top soil and cart away from site, average depth 150mm	150	m^3	7.00	
E	Excavate trench for foundation, width exceeding 0.30mm, maximum depth exceeding not 1.0m	34	m^3	75.00	
F	Excavate pit; maximum depth; not exceeding 1.50m	20	m^3	85.00	
G	Filling to excavation, materials arising from excavation.	41		35.00	
H	Disposal of excavated materials off site.	13	m^3	35.00	
	E-IN SITU CONCRETE /LARGE PRECAST CONCRETE				
	E 10 In situ concrete				
	Plain in situ concrete (1:3:6- 38mm aggregates) as describe in				
J	Foundation trench; 150mm thick.	7	m^3	1,600.00	
K	Blinding in column bases; 50mm thick.	1	m^3	1,600.00	
L	Reinforced in situ concrete (1:2:5- 20mm aggregate) in column bases	4	m^3	1,800.00	
M	Ditto; in colums.	5	m^3	1,800.00	
N	Ditto; in copping size 350mm x 75mm thick.	3	m^3	1,800.00	
				C/F	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
	E20 Formwork for in situ concrete			B/F	
A	Sawn formwork to verticals of column.	88	m^2	95.00	
B	Ditt0; to sides and soffit of copping.	34	m^2	95.00	
	E 30 Reinforcement for in situ concrete Reinforcement bars, B.S 4449, mild steel round bars				
C	12mm diameter bars in column bases	0.35	ton	12,350.00	
D	12mm diameter; in column	0.45	ton	12,350.00	
E	10mm diameter stirrups in column	0.37	ton	12,350.00	
F	10mm diameter bars in copping	0.16	ton	12,350.00	
	F - MASONRY				
	F10 Brick/ Block walling				
G	150mm thick solid sandcrete blockwork; in cement and sand mortar (1:4) in stretcher bond in walls	300	m^2	240.00	
	M - SURFACE FINISHES				
	M 20 Plastered/ Rendered/ Rougcast coatings				
H	12mm thick cement and sand rendering (1:4) on walls	480	m^2	56.00	
J	Ditti; on copping.	77	m^2	56.00	
	M 60 Painting / Clear finishing				
K	Prepare apply and apply three coats of emulsion paint on plastered wall surface	480	m^2	42.00	
L	Ditto; to sides and soffit of copping	77	m^2	42.00	
				C/F	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)
				B/F	
	METAL GATE				
A	Preformed fabricated metal gate overall size 4000mm x 2400mm high including all necessary accessories.	1	no	10,000.00	
	FENCE WALL				
	Carried to collection				
	SOIL DRAINAGE				
B	Include the provisional sum of GH 100,000.00 for construction septic tank soil drainage		Item		
	SOIL DRAINAGE				
	Carried to collection				
	COMPOST PREPARATION AREA AND STORE ROOM				
C	Include the provisional sum of GH 200,000.00 for construction of proposed organic pesticide/composite preparation and store rooms.		Item		
	COMPOST PREPARATION AREA AND STORE ROOM				
	Carried to collection				
	COLLECTION				
	Page No 15				
	Page No. 15				
	Page No. 15				
	BILL NO. IV EXTERNAL WORKS				
	Carried To General Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(¢)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT(GH¢)
	BILL OF QUANTITIES FOR THE CONSTRUCTION OF PROPOSE IRCC FARMERS TRAINING CENTER				
	GENERAL SUMMARY				
A	BILL NO. 1: PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT				
B	BILL NO. 2: SUBSTRUCTURE				
C	BILL NO. 3: SUPERSTRUCTURE				
L	BILL NO. 4: EXTERNAL WORKS				
	ADD: PHYSICAL CONTINGENCIES AND FURNISHING				
	TOTAL TENDER PRICE CARRIED TO FORM OF TENDER			**GH₵**	