CONSTRUCTION OF 3-STOREY 18-UNIT CLASSROOM BLOCK WITH HEAD TEACHER'S OFFICE/STORE, STAFF COMMON ROOM, LIBRARY/ICT CENTRE AND 18NO TOILET FACILITY AND DISABILITY RAMP AT SOUTH LA SCHOOL BASIC SCHOOL

ITEM	DESCRIPTION	CURRENT	UNIT	RATE	NEW AMOUNT
	BILL NO. 1 - PRELIMINARIES / GENERAL CONDITIONS				
	A36. Employer's requirements: Facilities/Temporary work/Services				
A	Provide for setting out the works		Item		
B	Provide for name boards		Item		
C	Allow for Clerk of Works		Item		
	A40. Contractor's general cost items: Management and staff				
D	Provide for Agent or Foreman-In-Charge		Item		
	A41. Contractor's general cost items: Site accommodation				
E	Provide, service and maintain to the end of the works temporary shed and store on site for Contractor and staff		Item		
	A42. Contractor's general cost items: Services and facilities				
F	Allow for material investigation and testing of materials (Provisional)		Item		
G	Allow for temporary lighting and power		Item		
H	Allow for water for the works		Item		
J	Allow for safety, health and welfare		Item		
K	Allow for rubbish disposal and cleaning		Item		
L	Allow for security		Item		
	A44. Contractor's general cost items: Temporary works				
P	Provide for support scaffolding and propping		Item		
Q	Provide for hoarding, fans fencing etc.		Item		
	BILL NO. 1 - PRELIMINARIES / GENERAL CONDITIONS Carried to Geneary Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO. 2 - GROUND FLOOR **ALL PROVISIONAL**				
	SUBSTRUCTURE				
	D. GROUNDWORK				
	D20. Excavating and filling				
A	Excavate pits maximum depth not exceeding 4.00m commencing from ground level.	2250	m^3		
	Disposal				
B	Disposal of excavated material off site.	2250	m^3		
	Filling to excavation				
C	Hardcore to be obtained off site; filling to make up levels ; depositing in layers and well compact with 680 kg vibratory roller	954	m^3		
D	Stabilize foundation bases with imported crushed rock not exceeding 1.00 m and well compact with 680 kg vibratory roller	1234	m^3		
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	E10. In situ concrete				
	Plain ordinary prescribed mix: grade C15 concrete, 10mm machine-crushed aggregate as described in:				
E	Blinding beds thickness not exceeding 150mm poured on or against earth	19	m^3		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURE (CONT'D)				
	Reinforced ordinary prescribed mix: grade C28-35 concrete,				
	20mm machine-crushed aggregate as described in:-				
A	Isolated Foundations; poured on or against earth unblinded hardcore	189	m^3		
B	Columns	27	m^3		
C	Bed thickness not exceeding 150mm	80	m^3		
D	Ground beam	17	m3		
E	Tie beam	17	m3		
F	Steps	3	m^3		
G	Ramp	2	m^3		
	E20. Formwork for in situ concrete				
	Formwork and basic finish as described in:-				
H	Edges of beds; plain vertical height 150-250	141	m		
J	Sides of columns bases	337	m^2		
K	Columns; rectangular shape (89nr)	289	m^2		
L	Sides of ground beam; plain vertical height 150-250	225	m^2		
M	Sides of tie beam; plain vertical height 150-250	225	m^2		
N	Sides of steps	14	m^2		
P	Sides of ramp	1	m^2		
	E30. Reinforcement for in situ concrete				
	Reinforcement bar; B.S. 4449 plain round high tensile steel				
	straight or bent as described in:				
Q	12mm diameter in column base	8248	kg		
R	16mm diameter in columns	3972	kg		
S	16mm diameter in ground beam	1904	kg		
T	16mm diameter in tie beam	1904	kg		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURE (CONT'D)				
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
A	8mm diameter in columns	1838	kg		
B	8mm diameter in ground beam	733	kg		
C	8mm diameter in tie beam	733	kg		
	Reinforcement fabric Steel fabric mesh reinforcement to BS 4483 ref (A 142) weighing 2.22 kg/m² with 300mm laps at joints in				
D	Floor bed	530	m2		
	F. MASONRY **F10. Brick/Block walling** Solid sandcrete blocks size 450 x 225 in cement and sand mortar (1:4) as described in:-				
E	Walls; 150mm thick	631	m²		
	Supply and fix damp-proof membrane (DPM) on compacted hardcore filling to overlap sandcrete blockwall for damping site only or as directed				
F	one layer of micro black polythene damp-proof sheeting against earth or unblinded hardcore	530	m²		
	Expansion Joint				
G	25mm "polystyrene" or other bitumen impregnated expansion joint	10	m²		-
H	Allow a provisional sum of one Hundred Thousand for additional ground work		Item		- 100,000.00
	To Collection				
	Collection				
	From page No.2/1				
	From page No.2/2				
	From page No.2/3				
	SUBSTRUCTURE Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	E10. In situ concrete				
	Reinforced ordinary prescribed mix: grade C28-35 concrete, 20mm machine-crushed aggregate as described in:				
A	Slabs; thickness not exceeding 150mm	80	m^3		
B	Beams	34	m^3		
C	Columns	27	m^3		
D	Staircases	6	m^3		
E	Ramp	5	m^3		
	E20. Formwork for in situ concrete *Formwork and basic finish*				
F	Edges of suspended slabs and landing ; plain vertical; height not exceeding 250mm	139	m		
G	Soffits of slabs thickness not exceeding 200mm horizontal	530	m^2		
H	Soffits of landing; thickness not exceeding 200mm horizontal	8	m^2		
J	Beams; attached to slabs; rectangular shaped	380	m^2		
K	Columns; attached to walls; rectangular shape (75nr)	314	m^2		
L	Soffits of stairs	27	m^2		
M	Sides and Soffit of ramp	30	m^2		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE (CONT'D)				
	E30. Reinforcement for in situ concrete				
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
A	12mm diameter in suspended slab	9343	kg		
B	10mm diameter in suspended slab	1753	kg		
C	16mm diameter in beams	4928	kg		
D	16mm diameter in columns	5164	kg		
E	12mm diameter in staircases	1364	kg		
F	12mm diameter in ramp	1208	kg		
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
G	8mm diameter in beams	1553	kg		
H	8mm diameter in columns	848	kg		
	To Collection				
	Collection				
	From page No. 2/4				
	From page No. 2/5				
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	Carried to Summary				
	F. MASONRY				
	F10. Brick/Block walling				
	Solid sandcrete blocks size 450 x 225 in cement and sand mortar (1:4) as described in:-				
J	Walls; 150mm thick	431	m^2	-	-
	F. MASONRY				**-**
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	L. DOORS/ WINDOWS/STAIRS				
	L10. Timber windows/Rooflights/Screens/Louvres				
	Glazed aluminium windows				
	Supply and install the following windows built with first class aluminium frame section 50mm in silver anodised aluminium profile glazed with 6mm laminated PVB 0.38 clear glass and operating and locking devices including mosquito netting as described in:-				
A	3 Bay sliding window size 2250 x 1800mm high	22	nr		
B	2Bay ditto size 1500 x 1800mm high	2	nr		
C	1 Bay ditto size 1000 x 1050mm high	1	nr		
D	1Bay ditto size 900 x 750mm high	8	nr		
E	1Bay ditto size 775 x 750mm high	1	nr		
	Bedding and pointing				
F	Bedding and pointing 50mm wide aluminium sub-frame in cement mortar (1:4)	227	m		
	L20. Doors/shutters/hatches				
	Metal door				
	Supply and fix metal door with frame, mortice lock hinges and tower bolt complete, or other equally approved as described in:-				
G	Double - leaf size 1800mm x 2050mm high	7	nr		
H	Single leaf size 900mm x 2055mm high	2	nr		
	Timber doors				
	44mm (Finished) "Redwood" factory-made panel door, wrot hardwood comprising 100mm stiles, top and middle rails 150mm bottom rail with 4no. hardwood panes as described in:				
J	Single leaf size 750mm x 2055mm high	10	nr		
	To collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Timber door frames				
	The following in 10nr door frame sets: Wrot hardwood as described in:				
A	Door frames, jambs, 50 x 150mm wide	38	m		
B	Ditto, heads, 50 x 150mm wide	12	m		
	Bedding and pointing				
C	Bedding and pointing 50 x 150mm wide metal and timber door frame in cement mortar (1:4)	108	m		
	L31: Metal STAIRS/WALKWAYS/ BALUSTRADES				
	Balustrades and hand rails				
	Balustrades in stainless steel; after fabrication				
D	Include a provisioal sum of one Hundred Thousand Ghana Cedis for (GHS 100,000.00) supply and installtion of metal balustrade in the stair,terrace area and disability ramp area		Item		100,000.00
	Burglar Proof				
E	Include a provisioal sum of Eighty thousand Ghana Cedis for (GHS 80,000.00) supply and installtion of metal burglarproof at all the window areas		Item		80,000.00
	To Collection				
	Collection				
	From page No. 2/6				
	From page No. 2/7				
	L. WINDOWS/DOORS/STAIRS				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	M. SURFACE FINISHES				
	M10. Sand cement / Concrete / Granolithic screeds / flooring				
	Cement and sand (1:4) beds as described in;				
A	40mm thick floor screeded bed to receive floor tiles (m/s) width exceeding 300mm; level and to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	530	m^2		
B	Ditto on ramp	28	m^2		
C	Treads width exceeding 300mm	23	m		
	M20. Plastered/Rendered/Roughcast coatings				
	13mm thick cement and sand (1:4) rendering as describe to block or concrete;				
D	Walls width exceeding 300mm	576	m^2		
E	Concrete soffits width exceeding 300mm	530	m^2		
F	Columns width exceeding 300mm	205	m^2		
G	Beams width exceeding 300mm	230	m^2		
	Backing				
H	12mm thick cement and sand (1:4) rendering as backing to received wall tiles width exceeding 300mm	258	m^2		
	M40. Stone/Concrete/Quarry/Ceramic tiling/Mosaic				
	Tiles plain fixed on backings or beds with adhesive, pointed and grouted in approved coloured grout to match as described in:				
J	200 x 300 x 6mm thick glazed ceramic wall tiles, width exceeding 300mm	258	m^2		
	M41: TERRAZZO TILING/ IN SITU TERRAZZO				
	Polished terrazzo; white cement and 15mm thick sea pebbles (1:1); grinded smooth to expose pebbles				
K	Floors, slopes not exceeding 15 degrees from horizontal	530	m^2		
L	Risers 167mm high	18	m		
M	Treade width not exceeding 300mm	18	m		
	Un-polished terrazzo; white cement and 15mm thick sea pebbles (1:1); grinded smooth to expose pebbles				
N	Ramp, slopes not exceeding 15 degrees from horizontal	28	m^2		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	M. SURFACE FINISHES (CONT'D)				
	M60. Painting / Clear finishing				
	Prepare and apply three coats of emulsion paint to :				
A	Wall general surfaces exceeding 300mm girth	576	m^2		
B	Soffit general surfaces exceeding 300mm girth	530	m^2		
C	Isolated columns width exceeding 300mm	205	m^2		
D	Isolated beams width exceeding 300mm	230	m^2		
	Prepare and apply three coats of gloss oil paint to:				
E	Hardwood general surfaces exceeding 300mm girth	92	m2		
F	Ditto general surfaces not exceeding 300mm girth	83	m2		
	To Collection				
	Collection				
	From page No 2/8				
	From page No 2/9				
	M. SURFACE FINISHES				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	N. FURNITURE / EQUIPMENT				
	N10. General fixtures / furnishings / equipment				
	Mirrors				
A	Approved 600mm x 400mm x 5mm thick belleved edge polished plate mirror pre-drilled and screwed with four chromium plated dome headed screws	2	Nr		
	WHITE BOARD				
B	Supply and fix into position white board size 4800 x 1200mm high including accessories and painting	6	Nr		
	N13. Sanitary appliances/fittings				
	Supply and fix the following sanitary fittings including assembling together and joining to disposal system in:				
C	Low level wc suite with ceramic cistern complete	8	Nr		
D	Wash hand basin complete with pedestal	6	Nr		
E	Wall mounted urinal bowl	3	nr		
F	Chromium plated toilet roll holder plugged to wall	8	Nr		
	N. FURNITURE/EQUIPMENT				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	P. BUILDING FABRIC SUNDRIES				
	P21. Ironmongrey				
	Supply and fix the following or equally approved ironmongery with screws to hardwood as described in:-				
A	Pair 100mm Heavy duty brass butt hinges.	10	nr		
B	WC Indicate lock	10	nr		
	P. BUILDING FABRIC SUNDRIES Carried to Summary				
	U. VENTILATION/AIR CONDITIONING SYSTEMS **Equipments**				
C	Ceiling fan; high quality 1200mm sweep; complete with high grade fan regulator	16	nr		
	U. VENTILATION/AIR CONDITIONING SYSTEMS Carried to Summary				
	Y. MECHANICAL AND ELECTRICAL SERVICES **Mechanical services**				
	Y10: Pipe work installations				
D	Include the Provisional Sum of Twenty Thousand Ghana Cedis (GH¢20,000.00) for pipeworks with respect to Sanitary and Cold Water Installations		Item		20,000.00
	Y10:Electrical services				
E	Include the Provisional Sum of One Hundred Thousand Ghana Cedis (GH¢100,000,00) for Electrical Installation, provision for Aircondition and Solar system		Item		100,000.00
	Y. MECHANICAL AND ELECTRICAL SERVICES Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
	SUBSTRUCTURE				
	IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	MASONRY				
	DOORS / WINDOWS / STAIRS				
	SURFACE FINISHES				
	FURNITURE / EQUIPMENT				
	BUILDING FABRIC SUNDRIES				
	VENTILATION/AIR CONDITIONING SYSTEMS				
	MECHANICAL AND ELECTRICAL SERVICES				
	BILL NO. 2 - GROUND FLOOR Carried to General Summary				
			.2/12		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO. 3- FIRST FLOOR				
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	E10. In situ concrete				
	Reinforced ordinary prescribed mix: grade C28-35 concrete, 20mm machine-crushed aggregate as described in:				
A	Slabs; thickness not exceeding 150mm	80	m^3		
B	Beams	34	m^3		
C	Columns	27	m^3		
D	Staircases	6	m^3		
E	Ramp	5	m^3		
	E20. Formwork for in situ concrete				
	Formwork and basic finish				
F	Edges of suspended slabs and landing ; plain vertical; height not exceeding 250mm	139	m		
G	Soffits of slabs thickness not exceeding 200mm horizontal	530	m^2		
H	Soffits of landing; thickness not exceeding 200mm horizontal	8	m^2		
J	Beams; attached to slabs; rectangular shaped	380	m^2		
K	Columns; attached to walls; rectangular shape (75nr)	314	m^2		
L	Soffits of stairs	27	m^2		
M	Sides and Soffit of ramp	30	m^2		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE (CONT'D)				
	E30. Reinforcement for in situ concrete				
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
A	12mm diameter in suspended slab	9343	kg		
B	10mm diameter in suspended slab	1753	kg		
C	16mm diameter in beams	4928	kg		
D	16mm diameter in columns	5164	kg		
E	12mm diameter in staircases	1364	kg		
F	12mm diameter in ramp	1208	kg		
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
G	8mm diameter in beams	1553	kg		
H	8mm diameter in columns	848	kg		
	To Collection				
	Collection From page No. 2/13				
	From page No. 2/14				
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE Carried to Summary				
	F. MASONRY				
	F10. Brick/Block walling				
	Hollow sandcrete blocks size 450 x 225 in cement and sand mortar (1:4) as described in:-				
J	Walls; 150mm thick	431	m^2		
	F. MASONRY Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	L. DOORS/ WINDOWS/STAIRS				
	L10. Timber windows/Rooflights/Screens/Louvres				
	Windows and window frame				
	Glazed aluminium windows				
	Supply and install the following windows built with first class aluminium frame section 50mm in silver anodised aluminium profile glazed with 6mm laminated PVB 0.38 clear glass and operating and locking devices including mosquito netting as described in:-				
A	3 Bay sliding window size 2250 x 1800mm high	24	nr		
B	1 Bay ditto size 1000 x 1050mm high	1	nr		
C	1Bay ditto size 900 x 750mm high	8	nr		
D	1Bay ditto size 775 x 750mm high	1	nr		
	Bedding and pointing				
E	Bedding and pointing 50mm wide aluminium sub-frame in cement mortar (1:4)	227	m		
	L20. Doors/shutters/hatches				
	Metal door				
	Supply and fix metal door with frame, mortice lock hinges and tower bolt complete, or other equally approved as described in:-				
F	Double - leaf size 1800mm x 2050mm high	8	nr		
G	Single leaf size 900mm x 2055mm high	1	nr		
	Timber doors				
	44mm (Finished) "Redwood" factory-made panel door, wrot hardwood comprising 100mm stiles, top and middle rails 150mm bottom rail with 4no. hardwood panes as described in:				
H	Single leaf size 750mm x 2055mm high	8	nr		
	To collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	The following in 8nr door frame sets:				
	Wrot hardwood as described in:				
A	Door frames, jambs, 50 x 150mm wide	38	m		
B	Ditto, heads, 50 x 150mm wide	12	m		
	Bedding and pointing				
C	Bedding and pointing 50 x 150mm wide metal and timber door frame in cement mortar (1:4)	108	m		
	L31: Metal STAIRS/WALKWAYS/ BALUSTRADES				
	Balustrades and hand rails				
	Balustrades in stainless steel; after fabrication				
D	Include a provisioal sum of one Hundred Thousand Ghana Cedis for (GHS 100,000.00) supply and installtion of metal balustrade in the stair,terrace area and disability ramp area		Item		100,000.00
	Burglar Proof				
E	Include a provisioal sum of Eighty thousand Ghana Cedis for (GHS 80,000.00) supply and installtion of metal burglarproof at all the window areas		Item		80,000.00
	To Collection				
	Collection				
	From page No. 2/15				
	From page No. 2/16				
	L. WINDOWS/DOORS/STAIRS				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	M. SURFACE FINISHES				
	M10. Sand cement / Concrete / Granolithic screeds / flooring				
	Cement and sand (1:4) beds as described in;				
A	40mm thick floor screeded bed to receive floor tiles (m/s) width exceeding 300mm; level and to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	530	m^2		
B	Ditto on ramp	28	m^2		
C	Treads width exceeding 300mm	23	m		
	M20. Plastered/Rendered/Roughcast coatings				
	13mm thick cement and sand (1:4) rendering as describe to block or concrete;				
D	Walls width exceeding 300mm	576	m^2		
E	Concrete soffits width exceeding 300mm	530	m^2		
F	Columns width exceeding 300mm	205	m^2		
G	Beams width exceeding 300mm	230	m^2		
	Backing				
H	12mm thick cement and sand (1:4) rendering as backing to received wall tiles width exceeding 300mm	258	m2		
	M40. Stone/Concrete/Quarry/Ceramic tiling/Mosaic				
	Tiles plain fixed on backings or beds with adhesive, pointed and grouted in approved coloured grout to match as described in:				
J	200 x 300 x 6mm thick glazed ceramic wall tiles, width exceeding 300mm	258	m2		
	M41: TERRAZZO TILING/ IN SITU TERRAZZO				
	Polished terrazzo; white cement and 15mm thick sea pebbles grade 3 (1:1); grinded smooth to expose pebbles				
K	Floors, slopes not exceeding 15 degrees from horizontal	530	m^2		
L	Risers 167mm high	18	m		
M	Treade width not exceeding 300mm	18	m		
	Un-polished terrazzo; white cement and 15mm thick sea pebbles grade 3 (1:1); grinded smooth to expose pebbles				
N	Ramp, slopes not exceeding 15 degrees from horizontal	28	m^2		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	M. SURFACE FINISHES (CONT'D)				
	M60. Painting / Clear finishing				
	Prepare and apply three coats of emulsion paint to :				
A	Wall general surfaces exceeding 300mm girth	576	m^2		
B	Soffit general surfaces exceeding 300mm girth	530	m^2		
C	Isolated columns width exceeding 300mm	205	m^2		
D	Isolated beams width exceeding 300mm	230	m^2		
	Prepare and apply three coats of gloss oil paint to:				
F	Hardwood general surfaces exceeding 300mm girth	92	m2		
G	Ditto general surfaces not exceeding 300mm girth	83	m2		
	To Collection				
	Collection				
	From page No 2/17				
	From page No 2/18				
	M. SURFACE FINISHES				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	N. FURNITURE / EQUIPMENT				
	N10. General fixtures / furnishings / equipment				
	Mirrors				
A	Approved 600mm x 400mm x 5mm thick belleved edge polished plate mirror pre-drilled and screwed with four chromium plated dome headed screws	2	Nr		
	WHITE BOARD				
B	Supply and fix into position white board size 4800 x 1200mm high including accessories and painting	6	Nr		
	N13. Sanitary appliances/fittings				
	Supply and fix the following sanitary fittings including assembling together and joining to disposal system in:				
C	Low level wc suite with ceramic cistern complete	6	Nr		
D	Wash hand basin complete with pedestal	4	Nr		
E	Wall mounted urinal bowl	3	nr		
F	Chromium plated toilet roll holder plugged to wall	6	Nr		
	N. FURNITURE/EQUIPMENT				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	P. BUILDING FABRIC SUNDRIES				
	P21. Ironmongrey				
	Supply and fix the following or equally approved ironmongery with screws to hardwood as described in:-				
A	Pair 100mm Heavy duty brass butt hinges.	8	nr		
B	WC Indicate lock	8	nr		
	P. BUILDING FABRIC SUNDRIES Carried to Summary				
	U. VENTILATION/AIR CONDITIONING SYSTEMS				
	Equipments				
C	Ceiling fan; high quality 1200mm sweep; complete with high grade fan regulator	16	nr		
	U. VENTILATION/AIR CONDITIONING SYSTEMS Carried to Summary				
	Y. MECHANICAL AND ELECTRICAL SERVICES				
	Mechanical services				
	Y10: Pipe work installations				
D	Include the Provisional Sum of Twenty Thousand Ghana Cedis (GH¢20,000.00) for pipeworks with respect to Sanitary and Cold Water Installations		Item		20,000.00
	Y10:Electrical services				
E	Include the Provisional Sum of One Hundred Thousand Ghana Cedis (GH¢100,000,00) for Electrical Installation, provision for Aircondition and Solar system		Item		100,000.00
	Y. MECHANICAL AND ELECTRICAL SERVICES Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
	IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	MASONRY				
	DOORS / WINDOWS / STAIRS				
	SURFACE FINISHES				
	FURNITURE / EQUIPMENT				
	BUILDING FABRIC SUNDRIES				
	VENTILATION/AIR CONDITIONING SYSTEMS				
	MECHANICAL AND ELECTRICAL SERVICES				
	BILL NO. 3- FIRST FLOOR Carried to General Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO. 4 - SECOND FLOOR				
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE				
	E10. In situ concrete				
	Reinforced ordinary prescribed mix: grade C25 concrete, 20mm machine-crushed aggregate as described in:				
A	Slabs; thickness not exceeding 150mm	5	m^3		
B	Beams	34	m^3		
C	Columns	37	m^3		
	E20. Formwork for in situ concrete				
	Formwork and basic finish				
D	Edges of suspended slabs and landing ; plain vertical; height not exceeding 250mm	18	m		
E	Soffits of slabs thickness not exceeding 200mm horizontal	19	m^2		
F	Beams; attached to slabs; rectangular shaped	380	m^2		
G	Columns; attached to walls; rectangular shape (75nr)	314	m^2		
	E30. Reinforcement for in situ concrete				
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
H	12mm diameter in suspended slab	358	kg		
J	10mm diameter in suspended slab	61	kg		
K	16mm diameter in beams	4928	kg		
L	16mm diameter in columns	5296	kg		
	Reinforcement bar; B.S. 4449 plain round high tensile steel straight or bent as described in:				
M	8mm diameter in beams	1553	kg		
N	8mm diameter in columns	848	kg		
	E. IN SITU CONCRETE / LARGE PRECAST CONCRETE Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	F. MASONRY				
	F10. Brick/Block walling				
	Hollow sandcrete blocks size 450 x 225 in cement and sand mortar (1:4) as described in:-				
A	Walls; 150mm thick	680	m^2		
	F. MASONRY				
	Carried to Summary				
	G. STRUCTURAL / CARCASSING METAL / TIMBER				
	G20. Carpentry/Timber framing/First fixing				
	Pitched roof members				
	Approved sawn "Dahoma" hardwood treated with approved wood preservative as described in:				
B	50mm x 150mm Ridge board	118	m		
C	50mm x 150mm King post	105	m		
D	50mm x 150mm Tie beam	136	m		
E	50mm x 150mm Struts	103	m		
F	50mm x 150mm hip rafters	709	m		
G	50mm x 100mm purlins	796	m		
H	50mm x 50mm ceiling noggings	1567	m		
J	50mm x 50mm hangers (Provisional)	584	m		
K	25mm x 225mm fascia board	154	m		
	G. STRUCTURAL / CARCASSING METAL / TIMBER				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	H. CLADDING / COVERING				
	H72. Aluminium sheet coverings/flashings				
	0.5mm pre-painted long span aluminium roof sheet covering nailed to hardwood purlins (measured separately) with two corrugation side laps including drive screws, nuts and washers, etc in accordance with manufacturer's instruction as described in:				
A	Roof coverings, pitch not exceeding 30 degree	785	m2		
	Cappings				
	0.5mm pre-painted long span shingles aluminium roof sheet as described in:				
B	Ridge/Hip cappings, 450mm girth	117	m		
C	Valley gutter , 450mm girth	22	m		
	H. CLADDING / COVERING				
	Carried to Summary				
	K. LININGS / SHEATHING / DRY PARTITIONING				
	K40. Suspended ceilings				
	Plywood ceiling finishings				
D	6mm Redcore plywood ceiling panels, width exceeding 300mm, fixed to ceiling noggings (measured separately)	661	m2		
	K. LININGS / SHEATHING / DRY PARTITIONING				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	L. DOORS/ WINDOWS/STAIRS				
	L10. Timber windows/Rooflights/Screens/Louvres				
	Windows and window frame				
	Glazed aluminium windows				
	Supply and install the following windows built with first class aluminium frame section 50mm in silver anodised aluminium profile glazed with 6mm laminated PVB 0.38 clear glass and operating and locking devices including mosquito netting as described in:-				
	3 Bay sliding window size 2250 x 1800mm high	24	nr		
	1 Bay ditto size 1000 x 1050mm high	1	nr		
	1Bay ditto size 900 x 750mm high	8	nr		
	1Bay ditto size 775 x 750mm high	1	nr		
	Bedding and pointing				
F	Bedding and pointing 50 x 150mm wide timber door frame in cement mortar (1:4)	227	m		
	L20. Timber doors/shutters/hatches				
	Metal door				
	Supply and fix metal door with frame, mortice lock hinges and tower bolt complete, or other equally approved as described in:-				
	Double - leaf size 1800mm x 2050mm high	8	nr		
	Single leaf size 900mm x 2055mm high	1	nr		
	Timber doors				
	44mm (Finished) "Redwood" factory-made panel door, wrot hardwood comprising 100mm stiles, top and middle rails 150mm bottom rail with 4no. hardwood panes as described in:				
M	Single leaf 750mm x 2055mm high	8	nr		
	To collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Timber door frames				
	The following in 29nr door frame sets:				
	Wrot hardwood as described in:				
J	Door frames, jambs, 50 x 150mm wide	38	m		
K	Ditto, heads, 50 x 150mm wide	12	m		
	Bedding and pointing				
L	Bedding and pointing 50 x 150mm wide metal and timber door frame in cement mortar (1:4)	108	m		
	L31: Metal STAIRS/WALKWAYS/ BALUSTRADES				
	Balustrades and hand rails				
	Balustrades in stainless steel; after fabrication				
	Include a provisioal sum of one Hundred Thousand Ghana Cedis for (GHS 100,000.00) supply and installtion of metal balustrade in the stair,terrace area and disability ramp area		Item		100,000.00
	Burglar Proof				
	Include a provisioal sum of Eighty thousand Ghana Cedis for (GHS 80,000.00) supply and installtion of metal burglarproof at all the window areas		Item		80,000.00
	To Collection				
	Collection				
	From page No. 2/25				
	From page No. 2/26				
	L. WINDOWS/DOORS/STAIRS				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT

	M. SURFACE FINISHES				
	M10. Sand cement / Concrete / Granolithic screeds / flooring				
	Cement and sand (1:4) beds as described in;				
A	40mm thick floor screeded bed to receive floor tiles (m/s) width exceeding 300mm; level and to falls and crossfalls and to slopes not exceeding 15 degrees from horizontal	530	m^2		
B	Ditto on ramp	28	m^2		
C	Treads width exceeding 300mm	23	m		
	M20. Plastered/Rendered/Roughcast coatings				
	13mm thick cement and sand (1:4) rendering as describe to block or concrete;				
D	Walls width exceeding 300mm	576	m^2		
E	Concrete soffits width exceeding 300mm	476	m^2		
F	Columns width exceeding 300mm	205	m^2		
G	Beams width exceeding 300mm	230	m^2		
	Backing				
H	12mm thick cement and sand (1:4) rendering as backing to received wall tiles width exceeding 300mm	258	m2		
	M40. Stone/Concrete/Quarry/Ceramic tiling/Mosaic				
	Tiles plain fixed on backings or beds with adhesive, pointed and grouted in approved coloured grout to match as described in:				
J	200 x 300 x 6mm thick glazed ceramic wall tiles, width exceeding 300mm	258	m2		
	M41: TERRAZZO TILING/ IN SITU TERRAZZO				
	Polished terrazzo; white cement and 15mm thick sea pebbles grade 3 (1:1); grinded smooth to expose pebbles				
K	Floors, slopes not exceeding 15 degrees from horizontal	476	m^2		
L	Risers 167mm high	18	m		
M	Treade width not exceeding 300mm	18	m		
	Un-polished terrazzo; white cement and 15mm thick sea pebbles grade 3 (1:1); grinded smooth to expose pebbles				
N	Ramp, slopes not exceeding 15 degrees from horizontal	28	m^2		
	To Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	M. SURFACE FINISHES (CONT'D)				
	M60. Painting / Clear finishing				
	Prepare and apply three coats of emulsion paint to :				
A	Wall general surfaces exceeding 300mm girth	576	m^2		
B	Plywood general surfaces exceeding 300mm girth	476	m^2		
C	Isolated columns width exceeding 300mm	205	m^2		
D	Isolated beams width exceeding 300mm	230	m^2		
	Prepare and apply three coats of gloss oil paint to:				
E	Hardwood general surfaces exceeding 300mm girth	92	m2		
F	Ditto general surfaces not exceeding 300mm girth	83	m2		
	To Collection				
	Collection				
	From page No 2/27				
	From page No 2/28				
	M. SURFACE FINISHES				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	N. FURNITURE / EQUIPMENT				
	N10. General fixtures / furnishings / equipment				
	Mirrors				
A	Approved 600mm x 400mm x 5mm thick belleved edge polished plate mirror pre-drilled and screwed with four chromium plated dome headed screws	2	nr		
	WHITE BOARD				
B	Supply and fix into position white board size 4800 x 1200mm high including accessories and painting	6	nr		
	N13. Sanitary appliances/fittings				
	Supply and fix the following sanitary fittings including assembling together and joining to disposal system in:				
D	Low level wc suite with ceramic cistern complete	6	Nr		
E	Wash hand basin complete with pedestal	4	Nr		
F	Wall mounted urinal bowl	3	nr		
G	Chromium plated toilet roll holder plugged to wall	6	Nr		
	N. FURNITURE/EQUIPMENT				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	P. BUILDING FABRIC SUNDRIES				
	P20. Unframed isolated trims/skirtings/sundry items				
	Fillets, stops, glazing beads and grounds				
	Wrought "Red" hardwood as described in:-				
A	12mm x 50mm planted door stop	101	m		
B	12mm x 50mm planted ceiling battens	1567	m		
	P21. Ironmongrey				
	Supply and fix the following or equally approved ironmongery with screws to hardwood as described in:-				
C	Pair 100mm Heavy duty brass butt hinges.	8	nr		
D	WC Indicate lock	8	nr		
	P. BUILDING FABRIC SUNDRIES				
	Carried to Summary				
	U. VENTILATION/AIR CONDITIONING SYSTEMS				
E	Ceiling fan; high quality 1200mm sweep; complete with high grade fan regulator	16	nr		
	U. VENTILATION/AIR CONDITIONING SYSTEMS				
	Carried to Summary				
	Y. MECHANICAL AND ELECTRICAL SERVICES				
	Mechanical services				
	Y10: Pipe work installations				
F	Include the Provisional Sum of Twenty Thousand Ghana Cedis (GH¢20,000.00) for pipeworks with respect to Sanitary and Cold Water Installations		Item		20,000.00
	Y10:Electrical services				
G	Include the Provisional Sum of One Hundred Thousand Ghana Cedis (GH¢100,000,00) for Electrical Installation, provision for Aircondition and Solar system		Item		100,000.00
	Y. MECHANICAL AND ELECTRICAL SERVICES				
	Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT

SUMMARY

IN SITU CONCRETE / LARGE PRECAST CONCRETE

MASONRY

STRUCTURAL / CARCASSING METAL / TIMBER

CLADDING / COVERING

LININGS / SHEATHING / DRY PARTITIONING

DOORS / WINDOWS / STAIRS

SURFACE FINISHES

FURNITURE / EQUIPMENT

BUILDING FABRIC SUNDRIES

VENTILATION/AIR CONDITIONING SYSTEMS

MECHANICAL AND ELECTRICAL SERVICES

BILL NO. 4 - SECOND FLOOR
Carried to General Summary

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	BILL NO. 3 - EXTERNAL WORKS				
	CONSTRUCTION OF SEPTIC TANK AND APRONS & DRAINS				
A	Allow for external works including Septic Tank, Aprons and Drains as directed by the Engineer		Item		800,000.00
	BILL NO. 3 - EXTERNAL WORKS Carried to General Summary				**800,000.00**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	GENERAL SUMMARY				
	BILL NO. 1 - PRELIMINARIES				
	BILL NO 2 - GROUND FLOOR				
	BILL NO 3 - FIRST FLOOR				
	BILL NO 4 - SECOND FLOOR				
	BILL NO. 5 - EXTERNAL WORKS				800,000.00
	SUBTOTAL				
	ADD CONTIGENCIES				500,000.00
	TOTAL ESTIMATE				