

ITEM	DESCRIPTIONS	TSHS.
	<p><u>DESCRIPTION OF SITE:</u></p> <p>A. The site is located within DODOMA</p> <p>B. The Contractor shall provide and maintain any necessary temporary roads, sleeper tracks, and temporary cross over during the execution of the works, clear away same at completion and reinstate and make good any work disturbed to the satisfaction of the Local Authority and the Employer.</p> <p>C. The Contractor shall be deemed to have visited the site and satisfied himself as to:-</p> <ul style="list-style-type: none"> i) The nature of the site ii) The amount of bush, rubbish or debris to be cleared away before commencement. iii) The nature of proximity and size of adjoining building and property. iv) The nature of existing communications by roads or otherwise. v) The means of access to the site. vi) The availability of land for the erection and positioning of all temporary structures, plant and materials necessary for the execution of the works. vii) The source of adequate supplies of labour, plant and materials for the completion of the works. 	
TO COLLECTION TSHS.		

ITEM	DESCRIPTIONS	TSHS.
A.	<p>If the Contractor wishes to execute trial holes before submitting his tender, he may do so in positions to be agreed with the Employer and at his sole expenses, including the reinstatement of the ground if so required by the Employer.</p>	
B.	<p>The whole of the site will be available to the Contractor immediately upon the issue of the order to commence.</p>	
C.	<p>Any sand, aggregate to or other building materials shall be the property of the Employer and shall not be used in the construction of the works without the written consent of the Employer.</p>	
D.	<p>The Contractor is to satisfy himself as to any difficulties that the site may present and to make all necessary enquiries to any point which in his opinion requires further elucidation as no claim for lack of information on any of the above will be entertained.</p>	
	<p><u>DESCRIPTION OF WORKS:</u></p>	
E.	<p>The work within this contract comprises of: <i>Construction of concrete columns and ring beams; concrete block walling; timber doors; aluminium windows; timber roof structure covered with troughed aluminium IT5 sheets; finishes and decoration .</i></p>	
	<p><u>SINGULAR AND PLURAL</u></p>	
F.	<p>Word importing the singular only also includes the plural.</p>	
	<p><u>LAW GOVERNING CONTRACT</u></p>	
G.	<p>The contract shall be in all respect to be constructed and operated in accordance with the law of Tanzania.</p>	
	<p>TO COLLECTION TSHS.</p>	

ITEM	DESCRIPTION	TSHS.
A.	<p><u>METHOD OF MEASUREMENT:</u></p> <p>These Bills of Quantities have been prepared in accordance with the standard method of measurement of Building Works for East Africa first edition (metric) published by the architectural association of Kenya chapter of Quantity Surveyor Act, 1970, and applied equally to the measurement of proposed works and of variations by Quantity Surveyors.</p>	
B.	<p>Variation of 'Builder's work' will be subject to the same amended rates of percentage of adjustment.</p>	
C.	<p><u>DEFINITIONS OF ABBREVIATIONS:</u></p> <p>The Contractor should take due notice of the under mentioned abbreviations:-</p> <p>mm - millimetres cm - centimetres M³ - cubic meters M² - square metres M - linear metres No - Number Kg - Kilograms P.C - Prime cost</p>	
TO COLLECTION TSHS.		

ITEM	DESCRIPTION	TSHS.
A.	The Contractor shall allow for keeping all records appertaining to the work and shall keep on the site a daily diary recording weather conditions, temperature, visitors to the site, etc.	150,000.00
B.	The Contractor is to supply to the Employer such information as he may be required in connection with the work, including statement showing the number of men employed in all trades daily, and delivery notes (stating the name of the project) for all materials delivered to the site.)	
<u>EMPLOYER'S INSPECTION:</u>		
C.	No work shall be covered up until it is inspected and approved by the Employer.	
D.	The Employer may at any time before the end of defects liability period or during any extended time where any defect are being made good, 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 Employer such parts are not in strict accordance with the contract documents he may order the Contractor to remove all defective work, replace with approved materials and reinstate any such part of the works and any other disturbed at his own expenses and to the entire satisfaction of the Employer. If any such parts of the works are found to be in accordance with the contract documents the Contractor will be reimbursed with the General conditions of contract.	
<u>DISTURBANCE OR NUISANCE:</u>		
E.	The Contractor shall allow for taking all necessary precautions in the order and execution of the work so as to avoid causing disturbance or nuisance to the occupants of existing buildings and those adjacent to the works and for complying with the Employer's instructions in this respect. The Contractor shall be in tort for such nuisance.	
<u>TRESPASS, DAMAGE AND CARE OF WORKS:</u>		
F.	The Contractor shall prevent any trespass on the opinion adjoining property and he shall take all reasonable precautions during the progress of the contract to prevent any damage to the adjoining property or plant or private roadways and to prevent material, plant, rubbish and debris, etc. collecting on the adjoining property or roadways.	1,000,000.00
TO COLLECTION TSHS.		1,150,000.00

ITEM	DESCRIPTION	TSHS.
A.	Should the Contractor wish to erect scaffolding or to make use of adjoining property, he shall obtain prior permission from the Employer and clear away at a completion of his work or when directed and make good any damage to his satisfaction. Except as provided for in the General conditions of contract, the Contractor, shall be held responsible for the care of works generally until their completion, including all works executed and materials deposited on the site by himself or his Sub-Contractors or supplier together with all risks arising from weather; carelessness of operatives, damages and he shall make good all such damage or loss at his own expense	
B.	The Contractor shall be responsible for the protection of any adjacent building, boundary walls, fences, services either overhead or underground and for the making good of or paying for all damage thereto, should such be caused in the course of building operations.	
C.	The Contractor shall allow for making good all damage to the road, kerbs, surface water channels, etc. occasioned by heavy traffic, delivery of materials and building operations generally to the entire satisfaction of the Employer and shall be responsible for observing any by law of Local Authority regarding keeping the road free from mud, filth dirt, etc, out of the execution of the works.	
D.	<u>PROTECTION FROM THE WEATHER:</u>	
	The Contractor shall allow for covering up and protecting all new work from injury by weather or any other cause. Any damage, loss or expense caused by non-compliance with the clause shall be at sole risk of the contract.	500,000.00
	<u>TOOLS, PLANT AND SCAFFOLDING:</u>	
E.	Provide all necessary cranes, hoists, concrete mixer and other plant including ladder, staging, access gangways tackle, tarpaulins, tools, moulds templates and other requisites necessary for proper executing, adapting from time to time as may be necessary and maintain all plant and equipment during the course of the contract.	3,000,000.00
F.	The Contractor shall allow for providing adapting from time to time as may be necessary and maintaining all scaffolding scaffold boards and temporary staging, etc, necessary for the execution of the works	2,000,000.00
TO COLLECTION TSHS.		5,500,000.00

ITEM	DESCRIPTION	TSHS.
A.	<p>The Contractor is to provide everything necessary for the proper execution of the works according to the true intent and meaning of the drawings, etc. whether the same may or may not be particularly shown on the drawings, specifications provided that the same is reasonably to be inferred there from.</p> <p><u>SITE ACCOMMODATION:</u></p>	
B.	<p>The Contractor shall provide and maintain any necessary temporary office accommodation required by himself and his Sub-Contractors suitably equipped with desks, chairs, drawing boards, and electric lighting and telephone.</p>	2,500,000.00
C.	<p>The Contractor shall provide and maintain for his workers latrine facilities washing and drinking water, first aid equipment's and shelters equipped with tables, benches and checking facilities all to the reasonable satisfaction of the workers and approved by the Employer and Health Authorities.</p>	1,000,000.00
D.	<p>The Contractor shall provide and maintain any temporary storage, shed or buildings which in his opinion are necessary for himself and his Sub-Contractors for the execution of the works.</p> <p><u>WATER FOR THE WORKS</u></p>	2,000,000.00
E.	<p>The Contractor shall allow for all necessary clean fresh water for the works, including that required by Sub-Contractors and for any temporary plumbing metres and storage facilities and pay all charges in connection therewith and clear away on completion and make good works disturbed.</p> <p><u>LIGHTING AND POWER FOR THE WORKS</u></p>	1,000,000.00
F.	<p>The Contractor shall allow for providing and maintaining a temporary electricity supply for the works including that required by Sub-Contractor and for any meters and fittings to give artificial lighting and power necessary for the execution of the works and pay all charges, in connection and make good all works disturbed.</p>	3,000,000.00
TO COLLECTION TSHS.		9,500,000.00

ITEM	DESCRIPTION	TSHS.
A.	<p><u>WATCHING AND LIGHTING:</u> The Contractor shall allow for providing and maintaining any barriers; holding; watching; lighting which must comply with the By-laws of requirements of the Local Authority and policy regulations and the Contractor must give all requisite policies to those authorities and provide everything necessary to protect the general public workmen; plant; materials and the whole of the works</p>	2,000,000.00
B.	No advertisement will be permitted without the written authority of the Employer.	
C.	<p><u>SIGN BOARD:</u> The Contractor shall provide and erect a large sized sign board on the site showing the title of the contract, the name and address of the Employer; consultant, nominated suppliers and Sub-Contractor and such information as may be required by the Employer who shall provide the sign layout and colours of the Board. The board shall be repainted when necessary and removed when no longer required.</p>	500,000.00
D.	<p><u>PROTECTION:</u> The Contractor is required to protect works section until completion.</p>	2,000,000.00
E.	<p><u>TESTING:</u> Allow for testing all the installations required to be tested and provide everything necessary for this purpose and leave the whole in perfect working order to the satisfaction of the Employer and Local Authority.</p>	
F.	<p><u>REMOVING RUBBISH AND CLEANING:</u> The Contractor shall make good all defects and injuries to the works, clean down external faces wash off stains to face work, clean off marks mortar and cement, clean windows inside and out, scrub floors, flush drains run and leave all parts of the works clean, free from rubbish and waste materials and perfect on completion.</p>	
G.	The Contractor shall clean and cart away all rubbish as it accumulate and keep the works in orderly condition to the satisfaction of the Employer	
TO COLLECTION TSHS.		4,500,000.00

ITEM	DESCRIPTION	TSHS.
	<u>COLLECTION</u>	
	Page No. 8/1/1	
	Page No. 8/1/2	
	Page No. 8/1/3	
	Page No. 8/1/4	1,150,000.00
	Page No. 8/1/5	5,500,000.00
	Page No. 8/1/ 6	9,500,000.00
	Page No. 8/1/ 7	4,500,000.00
BILL No. 01- PRELIMINARIES AND GENERAL CONDITIONS OF CONTRACT CARRIED TO GENERAL SUMMARY		20,650,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>The following Prime Cost Sums are for the works to be carried out by the Nominated Sub-Contractor</u>				
A.	Electrical Installation		Sum		85,000,000.00
B.	Add: for profit	10	%		8,500,000.00
C.	Add: for general attendance		Sum		4,250,000.00
D.	Air Conditioning and Mechanical Installation		Sum		37,500,000.00
E.	Add: for profit	10	%		3,750,000.00
F.	Add: for general attendance		Sum		1,875,000.00
G.	ICT Installation		Sum		68,000,000.00
H.	Add: for profit	10	%		6,800,000.00
J.	Add: for general attendance		Sum		3,400,000.00
	<u>The following Prime Cost Sums are for the works to be carried out by Statutory Authorities</u>				
K.	Connection of Electricity to the main		Sum		6,000,000.00
L.	Add: for profit	10	%		600,000.00
M.	Add: for general attendance		Sum		300,000.00
N.	Connection of Water to the main		Sum		1,000,000.00
P.	Add: for profit	10	%		100,000.00
Q.	Add: for general attendance		Sum		50,000.00
TO COLLECTION					227,125,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>The following Provisional Sums are for the works or costs which cannot entirely be foreseen, defined or detailed during the preparation of Bills of Quantities and should be used in whole or in part at the discretion of the Architect:</u>				
A.	Landscaping		Sum		25,000,000.00
B.	Storm Water Drainage System		Sum		10,000,000.00
C.	Progress Photographs		Sum		200,000.00
D.	Testing of Material		Sum		300,000.00
E.	Fence		Sum		150,000,000.00
	TO COLLECTION				185,500,000.00
	<u>COLLECTION</u>				
	Page 8/2/1				227,125,000.00
	Page 8/2/2				185,500,000.00
BILL No. 02 - PRIME COSTS AND PROVISIONAL SUMS CARRIED TO GENERAL SUMMARY					412,625,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
<u>ELEMENT No. 01 - SUBSTRUCTURE (ALL PROVISIONAL)</u>					
<u>Site Clearance:</u>					
A.	Clear site of small bush; rubbish and the like and grubbing up their roots; including removal of debris away from site: Visit and see site conditions	332	M ²	800.00	265,600.00
<u>Excavation and Earthworks:</u>					
B.	Excavate over site to remove vegetable soil commencing at ground level average depth 150mm; deposit in spoil heaps and cart away from site.	332	M ²	1,000.00	332,000.00
C.	Excavate foundation trench commencing at stripped or reduced level over 1.5 not exceeding 3m deep.	194	M ³	3,500.00	679,000.00
D.	Ditto; through rocks; ditto	55	M ³	10,000.00	550,000.00
E.	Excavate pit for column bases commencing at stripped or reduced level over 1.5 not exceeding 3m deep .	68	M ³	3,500.00	238,000.00
F.	Ditto; through rocks; ditto	18	M ³	10,000.00	180,000.00
G.	Earth filling selected imported soil; compact and consolidate around foundations.	107	M ³	10,000.00	1,070,000.00
H.	Remove surplus excavated material away from the site	335	M ³	3,000.00	1,005,000.00
J.	Earth filling; selected imported pure sand; well compacted in 200mm thick layers; to make up levels under the floors.	77	M ³	10,000.00	770,000.00
<u>Disposal of water</u>					
K.	Allow for keeping excavations free from general water by any means necessary; except spring or running water.	-	Item	-	250,000.00
<u>Planking and strutting.</u>					
L.	Allow for provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations	-	Item	-	250,000.00
<u>Hardcore</u>					
M.	150mm thick stone hardcore bed; leveled; compacted and sand blinded to receive damp proof membrane; measured separately.	57	M ²	9,000.00	513,000.00
<u>Soil sterilisation</u>					
N.	Gladiator solution 4TC applied to hardcore bed as per manufacturer specification	57	M ²	2,000.00	114,000.00
P.	Ditto; at a rate of 8 litres per linear metre 300mm width to 485x60mm deep; external backfilling of foundations	73	M	1,500.00	109,500.00
TO COLLECTION					6,326,100.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>Damp Proof Membrane</u>				
A.	500 Gauge polythene damp proof membranes; laid in two layers on sand blinded hardcore bed surfaces and tops of foundation walls	57	M ²	2,000.00	114,000.00
	<u>CONCRETE WORK:</u>				
	<u>Plain in situ concrete grade '10':</u>				
B.	50mm thick; Blinding	129	M ²	8,000.00	1,032,000.00
	<u>Plain in situ concrete grade '15':</u>				
C.	Strip Foundations	32	M ³	190,000.00	6,080,000.00
	<u>Reinforce in situ concrete grade '25'; vibrated:</u>				
D.	Column bases	12	M ³	250,000.00	3,000,000.00
E.	Starter Columns.	3	M ³	250,000.00	750,000.00
F.	Plinth beams	17	M ³	250,000.00	4,250,000.00
G.	100mm Thick; beds	307	M ²	25,000.00	7,675,000.00
	<u>FORMWORK</u>				
	<u>Wrought Formwork to:</u>				
H.	Vertical sides of column bases	33	M ²	22,000.00	726,000.00
J.	Vertical sides of starter columns	29	M ²	22,000.00	638,000.00
K.	Vertical sides of plinth beams	30	M ²	22,000.00	660,000.00
L.	Edges of bed; 75 to 150mm high	73	M	3,300.00	240,900.00
	<u>REINFORCEMENTS; (PROVISIONAL):</u>				
	<u>High tensile steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
M.	16mm diameter	1570	Kg	3,000.00	4,710,000.00
N.	8mm diameter	135	Kg	3,000.00	405,000.00
TO COLLECTION					30,280,900.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>Mild steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
A.	Fabric reinforcement; 8mm diameter; mesh size 150x150mm mesh; 150mm end and side laps; including tying wire and spacers to Engineer's specifications	307	M ²	15,000.00	4,605,000.00
	<u>BLOCKWORK</u>				
	<u>Solid concrete blocks with strength of 4MPa: bedded and jointed in cement/sand mortar (1:4).</u>				
B.	230mm thick; foundation walls	244	M ²	45,000.00	10,980,000.00
	<u>Damp Proof Course:</u>				
C.	230mm wide; Hessians based damp proof course; laid on blockwork with 150mm end laps	184	M	2,000.00	368,000.00
	<u>SUNDRIES:</u>				
	<u>Render; cement and sand (1:3); trowelled</u>				
D.	12mm thick; to plinth; to concrete or block work base	33	M ²	8,000.00	264,000.00
	<u>Prepare and apply three coats of black bituminous paint on:</u>				
E.	Rendered surfaces to plinth	33	M ²	8,000.00	264,000.00
	TO COLLECTION				16,481,000.00
	<u>COLLECTION:</u>				
	Page 8/3/1/1				6,326,100.00
	Page 8/3/1/2				30,280,900.00
	Page 8/3/1/3				16,481,000.00
ELEMENT No. 01 – SUBSTRUCTURE CARRIED TO SUMMARY OF BILL No. 03					53,088,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>ELEMENT No. 02 – FRAMES</u>				
	<u>CONCRETE WORK:</u>				
	<u>Reinforced insitu concrete: grade '25'; vibrated</u>				
A.	Vertical columns	21	M ³	250,000.00	5,250,000.00
B.	Horizontal beams	20	M ³	250,000.00	5,000,000.00
C.	150mm thick suspended floors	307	M ²	43,750.00	13,431,250.00
	<u>REINFORCEMENTS; (PROVISIONAL):</u>				
	<u>High tensile steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
D.	16mm diameter	1377	Kg	3,000.00	4,131,000.00
E.	12mm diameter	1820	Kg	3,000.00	5,460,000.00
F.	8mm diameter	519	Kg	3,000.00	1,557,000.00
	<u>FORMWORKS</u>				
	<u>Wrought Formwork to</u>				
G.	Vertical sides of columns	924	M ²	22,000.00	20,328,000.00
H.	Sides and soffits of horizontal beams	81	M ²	22,000.00	1,782,000.00
J.	Soffits of suspended floors requiring strutting; not exceeding 3.50m above structural support.	307	M ²	22,000.00	6,754,000.00
K.	Edges of slab; 150mm to 225mm high.	73	M	22,000.00	1,606,000.00
ELEMENT No. 02 – FRAMES CARRIED TO SUMMARY OF BILL No. 03					65,299,250.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 03 – STAIRS</u>				
	<u>CONCRETE WORK:</u>				
	<u>Reinforced concrete grade '25'; vibrated</u>				
A.	Stairs	4	M ³	250,000.00	1,000,000.00
B.	150mm thick; landing	7	M ²	37,500.00	262,500.00
C.	230 x 450mm landing beams	5	M	17,250.00	86,250.00
	<u>REINFORCEMENTS; (PROVISIONAL):</u>				
	<u>High tensile steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
D.	16mm diameter	56	Kg	3,000.00	168,000.00
E.	12mm diameter	610	Kg	3,000.00	1,830,000.00
F.	8mm diameter	18	Kg	3,000.00	54,000.00
	<u>FORMWORKS</u>				
	<u>Wrought formwork to</u>				
G.	Sloping soffits of stairs	17	M ²	22,000.00	374,000.00
H.	Sides of landing beams	3	M ²	22,000.00	66,000.00
J.	Horizontal soffits of landings	7	M ²	22,000.00	154,000.00
K.	Risers; 150mm to 225mm high	56	M	4,950.00	277,200.00
L.	Sides of stairs; 300mm overall width; cutting into profile of stairs	30	M	6,600.00	198,000.00
	<u>Balustrade (Provisional):</u>				
M.	50mmØ x 1100mm high above stairs; hollow section black pipes balusters; top end welded to handrails; bottom end dovetailed and cast into concrete; coated with two coats of zinc solution; finished with two coats of gloss oil paint.	11	No	25,000.00	275,000.00
N.	25mmØ x 500mm high; intermediate balusters; welded to middle rails; ditto	16	No	8,000.00	128,000.00
P.	25mmØ hollow section black pipes rails; coated with two coats of zinc solution; finished with two coats of gloss oil paint	55	M	8,000.00	440,000.00
Q.	50mm diameter black pipe hand rails; welded to balusters	55	M	22,750.00	1,251,250.00
ELEMENT No. 03 – STAIRS CARRIED TO SUMMARY OF BILL No. 03					6,564,200.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
A.	<p><u>ELEMENT No. 04 - WALLING</u></p> <p><u>BLOCK WORK:</u></p> <p><u>Solid cement and sand blocks with strength of 4MPa:</u> <u>bedded and jointed in cement/sand mortar.</u></p> <p>150mm thick; walls</p>	745	M ²	39,000.00	29,055,000.00
ELEMENT No. 04 – WALLING CARRIED TO SUMMARY OF BILL No. 03					29,055,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>ELEMENT No. 05 - ROOFING; (ALL PROVISIONAL)</u>				
	<u>ROOF STRUCTURE:</u>				
	<u>STRUCTURAL TIMBERWORK:</u>				
	<u>Well seasoned, treated softwood; pressure impregnated; moisture content not more than 20%</u>				
A.	150x50mm Rafters	269	M	4,000.00	1,076,000.00
B.	150x50mm Tie beams	102	M	4,000.00	408,000.00
C.	100x50mm Struts	216	M	3,500.00	756,000.00
D.	75x50mm Purlins	240	M	2,000.00	480,000.00
E.	100x50mm Wall plate	81	M	3,500.00	283,500.00
F.	Allow item for joining pieces to all roof truss members where necessary	-	Item	-	250,000.00
	<u>METAL WORKS:</u>				
	<u>Mild steel; protected from rust by applying three coats of zinc chromate primer and two full coats of gloss painting; (Provisional)</u>				
G.	590 x 300 x 3mm thick; gusset plates; including making holes for 12mm diameter	24	No	4,000.00	96,000.00
H.	590 x 425 x 3mm thick; ditto	24	No	5,000.00	120,000.00
J.	50 x 150 x 3mm Thick angle brackets	24	No	3,000.00	72,000.00
K.	M 16mm diameter; 350mm long anchor bolts with nuts and washers casted into concrete beam "J"	12	No	5,000.00	60,000.00
L.	12mm diameter; 150mm long bolts with nuts and washers screwed and bolted to ms plates	204	No	2,500.00	510,000.00
TO COLLECTION					4,111,500.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>ROOF COVERINGS:</u>				
	<u>Troughed IT5 Profile coloured Aluminium roofing sheets; '28' Gauge; lapped to sides and ends as per manufacturer's specifications; fixed to battens (m/s)</u>				
A.	Roof covering sloping not exceeding 45 degrees from horizontal.	203	M ²	45,000.00	9,135,000.00
	<u>ROOF VENTS:</u>				
	<u>Prime quality hardwood; (Provisional)</u>				
B.	Square roof vents to eaves consisting of 50x100mm grooved hardwood frames nailed to roof trusses; with 2mm thick aluminium coffee tray wire; including varnishing to exposed surfaces of vent; overall size 600 x 600mm high.	6	No	50,000.00	300,000.00
	<u>Roof Drainage (Provisional)</u>				
C.	100mm diameter uPVC rain water down pipes fixed to wall	41	M	10,000.00	410,000.00
D.	Extra; Bends	4	No	5,000.00	20,000.00
E.	Extra; Outlets	4	No	5,000.00	20,000.00
F.	Extra; shoe	4	No	5,000.00	20,000.00
G.	Extra; swanneck	4	No	5,000.00	20,000.00
	<u>FLAT ROOF WORK:</u>				
	<u>Cement and sand (1:4) screed mixed with KIM admixture 2% of weight of cement; steel trowelled smooth</u>				
H.	40mm Thick average to slope	48	M ²	15,000.00	720,000.00
	TO COLLECTION				10,645,000.00
	<u>COLLECTION:</u>				
	Page 8/3/5/1				4,111,500.00
	Page 8/3/5/2				10,645,000.00
ELEMENT No. 05 – ROOFING CARRIED TO SUMMARY OF BILL No. 03					14,756,500.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 06 - ELECTRICAL INSTALLATIONS:</u>				
	<u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS:</u>				
	<u>Allow for necessary cutting away holes; chases; and the like for and making good after the electrician on concealed electrical system comprising:</u>				
A.	Lighting points with associated switches	-	Item	-	1,000,000.00
B.	Power points with associated switches	-	Item	-	750,000.00
C.	Distribution Board points	-	Item	-	300,000.00
D.	Telephone points	-	Item	-	300,000.00
E.	Coaxial outlet for TV	-	Item	-	300,000.00
	<u>SUNDRIES:</u>				
F.	Allow for preparing and producing FOUR (4) copies of 'AS BUILT DRAWINGS' of electrical Installations showing all the electrical fittings and wiring on plan	-	Item	-	300,000.00
ELEMENT No. 06 - ELECTRICAL INSTALLATIONS CARRIED TO SUMMARY OF BILL No. 03					2,950,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 07 - DOORS</u>				
	<u>HEAVY DUTY ALUMINIUM DOORS</u>				
A.	45mm Thick overall extra heavy duty chrome plated casement aluminium door size 2600 x 900mm high comprising 125mm wide stiles, 150mm top rail 175mm bottom rail infilled with and including 8mm thick tinted glass including 1Nr vent light; size 500 x 750mm snap in glass stops beveled with 15 x 15mm glazing heads all corners setting block, 8Nr heavy duty hinges; 1Nr 'Euro profile double cylinder lock UNION type 26E185; 3Nr door stopper UNION type 8400; 1Nr door closer UNION type N 8826; 2Nr flush bolt and 1Nr door pull handle; Details as per Architectural, drawing.(D2)	15	No	2,100,000.00	31,500,000.00
	<u>WOOD WORK</u>				
	<u>Prime quality hardwood paneled doors</u>				
B.	40mm Thick; 3350 x 3800mm high; comprising of 45x125mm rebated stiles; top and middle rails; 45 x 200mm bottom rail; divided into two panels; all panel filled in with and including 40x100mm hardwood vertical boardings T&G jointed; (D1).	5	No	1,800,000.00	9,000,000.00
C.	Ditto, 2800 x 1500mm Ditto (D1)	1	No	1,300,000.00	1,300,000.00
	<u>Frames and Finishing:</u>				
D.	45x145mm Frames with one labour; moulded	98	M	25,000.00	2,450,000.00
E.	45x145mm Transom	5	M	25,000.00	125,000.00
F.	38 x 15mm Architraves splayed.	98	M	13,000.00	1,274,000.00
TO COLLECTION					45,649,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 08 - WINDOWS</u>				
	<u>Composite Aluminium window units; as microns manufactured to Architects satisfaction finished with 21 microns silver anodized Aluminium alloy; matt finished; including assembling as necessary, bedding frame in proprietary bedding compound. pointing externally with mastic and stripping protective tape from Aluminium frame with and including mullions, transoms and unblocking devices where necessary:</u>				
A.	3800 X 4000mm high; glazed with 6mm thick tinted glass; complete with locks (W1)	18	No	3,800,000.00	68,400,000.00
B.	Ditto; 1500 x 3000mm high (W2)	2	No	1,125,000.00	2,250,000.00
C.	Ditto; 900 x 4000mm high (W3)	1	No	900,000.00	900,000.00
	<u>Curtains:</u>				
D.	Venetia vertical blinds to windows including all fixing accessories as per manufacture's specifications	104	M ²	150,000.00	15,600,000.00
	<u>METAL WORK:</u>				
	<u>Mild steel; protected from rust by applying three coats of zinc chromate primer and two full coat of gloss painting.</u>				
E.	Window Grills; comprising of flat bars cut and bent to pattern as to the Architect Approval.	104	M ²	110,000.00	11,440,000.00
ELEMENT No. 08 - WINDOWS CARRIED TO SUMMARY OF BILL No. 03					98,590,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 09 - PLUMBING & ENGINEERING INSTALLATIONS:</u>				
	<u>Sanitary Appliances</u>				
	<u>Supply and fix the following sanitary appliances; Ex - Italy including all connections and screwing and bolting to floor or wall where necessary:</u>				
A.	White vitreous china Andria W.C suite (Squatting type) with 'P' trap concealed high level 7.5 litres capacity cistern with freeflow plastic syphon; 1/2" micro valve HP/LP ball valve; side supply and 19mm overflow set; simple inlet connector plastic flush pipe; Nimbus 1/2" inclined bib tap with flexible hose to jet and wall hook; isovalve service valve	5	No	500,000.00	2,500,000.00
B.	405 x 380mm Ceramic wash hand basin complete with 15mm diameter chromium plated mixer tap Ex - Italy; chain and plug; and a deep seal 32mm chrome bottle trap with cast iron brackets.	4	No	600,000.00	2,400,000.00
C.	Recessed toilet paper roll holder; ceramic; size 150 x 150mm.	5	No	50,000.00	250,000.00
D.	Recessed soap dish; ceramic; size 150 x 150mm.	5	No	50,000.00	250,000.00
E.	Supply and fix 6mm thick polished glass mirror size 450 x 600mm with ground and chamfered edges four times drilled and plugged screwed with chromium plated domex screws.	4	No	250,000.00	1,000,000.00
	<u>Sanitary installations; pipework; UPVC pipes and fittings; grade 'B' as manufactured by PLASCO:</u>				
	<u>Soil; waste and vent pipes</u>				
F.	Allow cost for soil and waste water pipe work installations	-	Item	-	1,500,000.00
	<u>Ancillaries:</u>				
G.	Allow cost for Tees, Nipples, Sockets, Reducing bush, Elbow, non-return valve stop valve and bib taps	-	Item	-	3,000,000.00
	<u>Cold and hot water installations</u>				
H.	Allow cost for cold and hot water pipe work	-	Item	-	6,000,000.00
	<u>Ancillaries:</u>				
K.	Allow cost for Tees, Nipples, Sockets, Reducing bush, Elbow, non-return valve stop valve and bib taps	-	Item	-	2,500,000.00
TO COLLECTION					19,400,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>EQUIPMENT:</u>				
	<u>Portable Fire Extinguishers (PFE); BS3465:1962</u>				
A.	9Kg ABC dry powder 'ARGUS' or any other and equal approved fire extinguishers; fixed to wall with and including brackets plugged on blockwork.	5	No	500,000.00	2,500,000.00
B.	Supply and fix water booster pumps 'GRUNDFOS AUTOMATIC'; Type CH2-30; Flow; Q=1-2.8m ³ /h; Head = 3-42m or equivalent and approved; connecting to pipes as necessary; fixed on and including concrete base and grille cage with corrugated sheet cover to protect pumps from rains; padlock; all as per Architect's instruction; complete in all aspects	1	No	2,500,000.00	2,500,000.00
C.	Supply and install ground water storage tank; "SIMTANK" 3,000 litres capacity; placed on and including constructing concrete platform with minimum height 150mm above ground level; including ball valve; high level and level float switch; cover; ladder and making all necessary perforations for supply; distribution; overflow and washout pipes; placed and including 150mm Up-stand x 2.0m diameter	1	No	2,000,000.00	2,000,000.00
D.	Ditto; "SIMTANK" 2,000 litres litres capacity elevated to steel support 5.0m high as to Engineer's design/drawings and specifications including hoisting to position	1	No	2,000,000.00	2,000,000.00
	<u>Gully Traps</u>				
E.	100mm Diameter PVC gully trap with grating; constructed in and including concrete surround internal dimension 300x300x300mm deep; with 100mm thick solid concrete block sides; 150mm thick concrete grade '15' bed; 50mm thick precast concrete grade '20' cover slab reinforced with BRC mesh, with lifting devices; 12mm thick water proof cement and sand (1:3) rendering trowelled smooth to internal faces of sides; and bottom; including excavations, backfilling and compacting and removal of surplus excavated materials	5	No	150,000.00	750,000.00
	<u>Stopcock pit/ meter chamber:</u>				
F.	Construct stop cork pit/ chamber internal dimensions 500 x 500 x 500mm in 100mm solid bock wall; sides finished fair as work proceed; 150mm thick concrete grade 15 bed; 100mm thick precast concrete grade 20 cover slab reinforced with BRC mesh; with lifting devices; including excavations, backfilling and removal of surplus materials.	1	No	130,000.00	130,000.00
TO COLLECTION					9,880,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	Testing				
A.	Allow item for testing the whole of plumbing and engineering installation to Engineer's satisfaction	-	Item	-	300,000.00
	Builder's Work:				
B.	Allow sum for all builder's work in connection with Plumbing and Engineering installation including chasing away walls, trench excavation, making good, backfilling and compacting in trench and removal of surplus material away from site.	-	Item	-	1,500,000.00
	TO COLLECTION				1,800,000.00
	COLLECTION				
	Page 8/3/9/1				19,400,000.00
	Page 8/3/9/2				9,880,000.00
	Page 8/3/9/3				1,800,000.00
ELEMENT No. 09 - PLUMBING AND ENGINEERING INSTALLATION CARRIED TO SUMMARY OF BILL No. 03					31,080,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No 10 - FINISHING</u>				
	<u>FLOOR FINISH</u>				
	<u>TILES; SLAB OR BLOCK FINISHING</u>				
	<u>Porcelain tiles; high quality; Ex Spain or equal and approved; fixed to backing with adhesives and pointed with tile grout; pattern as per Architect's instruction</u>				
A.	450 x 450 x 9mm Thick non slippery floor tiles; level	702	M ²	152,000.00	106,704,000.00
B.	Ditto, 300 x 300 x 9mm	33	M ²	122,000.00	4,026,000.00
C.	Ditto; landing to stairs	8	M ²	152,000.00	1,216,000.00
D.	150mm High; risers to stairs	48	M	22,800.00	1,094,400.00
E.	300mm Wide; going to stairs	14	M	45,600.00	638,400.00
F.	100mm high; Tile skirting	306	M	52,000.00	15,912,000.00
	<u>WALL FINISH</u>				
	<u>Internal plastering in two coats, steel toweled to smooth finish; first coat consisting of cement, lime putty and sand (1:2:9); finishing coat cement and lime (1:10):</u>				
G.	15mm thick to wall, concrete or block base	1403	M ²	8,000.00	11,224,000.00
H.	Ditto; soffits of concrete ceiling	498	M ²	8,000.00	3,984,000.00
J.	Ditto; soffits of landing to stairs	7	M ²	8,000.00	56,000.00
K.	Ditto; sloping soffits of stairs	6	M ²	8,000.00	48,000.00
	<u>External cement sand (1:4); rendering with approved plasticizer trowelled smooth:</u>				
L.	15mm thick to wall, concrete or block base	552	M ²	8,000.00	4,416,000.00
M.	Ditto to Concrete gutter	164	M ²	8,000.00	1,312,000.00
N.	Ditto to concrete fascia	130	M ²	8,000.00	1,040,000.00
	<u>TILES; SLAB OR BLOCK FINISHING</u>				
	<u>Glazed ceramic wall tiles; to BS 1281 fixed to backing with approved adhesives and pointed with approved tile grout:</u>				
P.	200 x 300 x 6mm Thick tiling; to walls.	132	M ²	45,000.00	5,940,000.00
Q.	9mm PVC tile trim	84	M	6,000.00	504,000.00
R.	Cut and fit around small pipes	-	Item	-	200,000.00
TO COLLECTION					158,314,800.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>Beds and backings; one coat work; cement and sand (1:4); wood floated</u>				
A.	31mm Thick bed; to receive floor tiles.	702	M ²	6,000.00	4,212,000.00
B.	Ditto; landing to stairs	7	M ²	6,000.00	42,000.00
C.	150mm High; risers to stairs	42	M	900.00	37,800.00
D.	300mm Wide; going to stairs	12	M ²	1,800.00	21,600.00
E.	12mm Thick backing; to receive wall tiles.	132	M ²	6,000.00	792,000.00
	<u>CEILING FINISH:</u>				
	<u>Gypsum board finishing:</u>				
F.	9mm Thick ceiling lining; 'V' jointed; fixed to brandering; including all accessories deemed necessary.	190	M ²	18,000.00	3,420,000.00
G.	100 x 100mm Moulded cornices	276	M	2,500.00	690,000.00
H.	Extra over for ceiling access hatches; 600x600mm	3	No	50,000.00	150,000.00
	<u>Softwood; pressure impregnated with preservatives</u>				
J.	50 x 100mm Ceiling joists	58	M	16,000.00	928,000.00
K.	50 x 50mm brandering	425	M	8,000.00	3,400,000.00
	TO COLLECTION				13,693,400.00
	<u>COLLECTION:</u>				
	Page 8/3/10/1				158,314,800.00
	Page 8/3/10/2				13,693,400.00
ELEMENT No. 10 – FINISHINGS CARRIED TO SUMMARY OF BILL No. 03					172,008,200.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 11 – PAINTING AND DECORATING</u>				
	<u>INTERNAL WORK:</u>				
	<u>Prepare and apply one thinned coat and two full coats of emulsion paint as per the Architect's approval on</u>				
A.	Plastered ceiling or the like	702	M ²	6,000.00	4,212,000.00
A.	Soffits of landing to stairs	7	M ²	4,000.00	28,000.00
B.	Ditto; sloping soffits of stairs	6	M ²	6,000.00	36,000.00
C.	Gypsum board ceiling	190	M ²	6,000.00	1,140,000.00
	<u>Prepare and apply one thinned coat and two full coats of VGA silk paint to manufacturer's specifications and Architect's approval on</u>				
D.	Plastered walls; columns or the like	1403	M ²	8,000.00	11,224,000.00
	<u>Prepare and prime back of wood surfaces before fixing</u>				
E.	Frames or the like; 100 to 200mm girth.	201	M	3,000.00	603,000.00
	<u>Prepare and apply one undercoat and two full coats of polyurethane clear varnish on timber surfaces</u>				
F.	General surfaces of doors/glazed doors	68	M ²	8,000.00	544,000.00
G.	Frames or the like; 200 to 300mm girth.	201	M	2,400.00	482,400.00
	<u>EXTERNAL WORK</u>				
	<u>Prepare and apply one under coat and two full coats of weather guard paint as per the Architect's approval on</u>				
H.	Plastered walls, columns or the like	552	M ²	8,000.00	4,416,000.00
J.	Plastered concrete gutters	164	M ²	8,000.00	1,312,000.00
K.	Plastered concrete fascia	130	M ²	8,000.00	1,040,000.00
ELEMENT No. 11 – PAINTING AND DECORATION CARRIED TO SUMMARY OF BILL No. 03					25,037,400.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 01 - SUBSTRUCTURE (ALL PROVISIONAL)</u>				
	<u>Site Clearance:</u>				
A.	Clear site of small bush; rubbish and the like and grubbing up their roots; including removal of debris away from site: Visit and see site conditions	222	M ²	800.00	177,600.00
	<u>Excavation and Earthworks:</u>				
B.	Excavate over site to remove vegetable soil commencing at ground level average depth 150mm; deposit in spoil heaps and cart away from site.	222	M ²	1,000.00	222,000.00
C.	Excavate foundation trench commencing at stripped or reduced level over 1.5 not exceeding 3m deep.	113	M ³	3,500.00	395,500.00
G.	Earth filling selected imported soil; compact and consolidate around foundations.	126	M ³	10,000.00	1,260,000.00
H.	Remove surplus excavated material away from the site	113	M ³	3,000.00	339,000.00
J.	Earth filling; selected imported pure sand; well compacted in 200mm thick layers; to make up levels under the floors.	88	M ³	10,000.00	880,000.00
	<u>Disposal of water</u>				
K.	Allow for keeping excavations free from general water by any means necessary; except spring or running water.	-	Item	-	250,000.00
	<u>Planking and strutting.</u>				
L.	Allow for provision and subsequent removal of planking and strutting to uphold and maintain all faces of excavations	-	Item	-	250,000.00
	<u>Hardcore</u>				
M.	150mm thick stone hardcore bed; leveled; compacted and sand blinded to receive damp proof membrane; measured separately.	196	M ²	9,000.00	1,764,000.00
	<u>Soil sterilisation</u>				
N.	Gladiator solution 4TC applied to hardcore bed as per manufacturer specification	196	M ²	2,000.00	392,000.00
P.	Ditto; at a rate of 8 litres per linear metre 300mm width to 485x60mm deep; external backfilling of foundations	108	M	1,500.00	162,000.00
TO COLLECTION					6,092,100.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>Damp Proof Membrane</u>				
A.	500 Gauge polythene damp proof membranes; laid in two layers on sand blinded hardcore bed surfaces and tops of foundation walls	222	M ²	2,000.00	444,000.00
	<u>CONCRETE WORK:</u>				
	<u>Plain in situ concrete grade '10':</u>				
B.	50mm thick; Blinding	75	M ²	8,000.00	600,000.00
	<u>Plain in situ concrete grade '15':</u>				
C.	Strip Foundations	17	M ³	190,000.00	3,230,000.00
	<u>Reinforce in situ concrete grade '25'; vibrated:</u>				
D.	Plinth beams	6	M ³	250,000.00	1,500,000.00
E.	100mm Thick; beds	222	M ²	25,000.00	5,550,000.00
	<u>FORMWORK</u>				
	<u>Wrought Formwork to:</u>				
F.	Vertical sides of plinth beams	27	M ²	22,000.00	594,000.00
G.	Edges of bed; 75 to 150mm high	60	M	3,000.00	180,000.00
	<u>REINFORCEMENTS; (PROVISIONAL):</u>				
	<u>High tensile steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
H.	16mm diameter	681	Kg	3,000.00	2,043,000.00
J.	8mm diameter	257	Kg	3,000.00	771,000.00
TO COLLECTION					14,912,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>Mild steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
A.	Fabric reinforcement; 8mm diameter; mesh size 150x150mm mesh; 150mm end and side laps; including tying wire and spacers to Engineer's specifications	222	M ²	15,000.00	3,330,000.00
	<u>BLOCKWORK</u>				
	<u>Solid concrete blocks with strength of 4MPa: bedded and jointed in cement/sand mortar (1:4).</u>				
B.	230mm thick; foundation walls	185	M ²	45,000.00	8,325,000.00
	<u>Damp Proof Course:</u>				
C.	230mm wide; Hessians based damp proof course; laid on blockwork with 150mm end laps	108	M	2,000.00	216,000.00
	<u>SUNDRIES:</u>				
	<u>Render; cement and sand (1:3); trowelled</u>				
D.	12mm thick; to plinth; to concrete or block work base	27	M ²	6,000.00	162,000.00
	<u>Prepare and apply three coats of black bituminous paint on:</u>				
E.	Rendered surfaces to plinth	27	M ²	6,000.00	162,000.00
	TO COLLECTION				12,195,000.00
	<u>COLLECTION:</u>				
	Page 8/4/1/1				6,092,100.00
	Page 8/4/1/2				14,912,000.00
	Page 8/4/1/3				12,195,000.00
ELEMENT No. 01 – SUBSTRUCTURE CARRIED TO SUMMARY OF BILL No. 04					33,199,100.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>ELEMENT No. 02 – FRAMES</u>				
	<u>CONCRETE WORK:</u>				
	<u>Reinforced insitu concrete: grade '25'; vibrated</u>				
A.	Horizontal beams	2	M ³	250,000.00	500,000.00
B.	Gutter	3	M ³	250,000.00	750,000.00
	<u>REINFORCEMENTS; (PROVISIONAL):</u>				
	<u>High tensile steel reinforcement bars to BS 4449:1969; including tying wire and spacer blocks</u>				
C.	16mm diameter	97	Kg	3,000.00	291,000.00
D.	8mm diameter	37	Kg	3,000.00	111,000.00
	<u>FORMWORKS</u>				
	<u>Wrought Formwork to</u>				
E.	Sides and soffits of horizontal beams	15	M ²	22,000.00	330,000.00
ELEMENT No. 02 – FRAMES CARRIED TO SUMMARY OF BILL No. 04					1,982,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
A.	<u>ELEMENT No. 03 - WALLING</u> <u>BLOCK WORK:</u> <u>Solid cement and sand blocks with strength of 4MPa:</u> <u>bedded and jointed in cement/sand mortar.</u> 150mm thick; walls	463	M ²	39,000.00	18,057,000.00
ELEMENT No. 03 – WALLING CARRIED TO SUMMARY OF BILL No. 04					18,057,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>ELEMENT No. 04 - ROOFING; (ALL PROVISIONAL)</u>				
	<u>ROOF STRUCTURE:</u>				
	<u>STRUCTURAL TIMBERWORK:</u>				
	<u>Well seasoned, treated softwood; pressure impregnated; moisture content not more than 20%</u>				
A.	150x50mm Rafters	146	M	4,000.00	584,000.00
B.	150x50mm Tie beams	143	M	4,000.00	572,000.00
C.	100x50mm Struts	112	M	3,500.00	392,000.00
D.	75x50mm Purlins	175	M	2,000.00	350,000.00
E.	100x50mm Wall plate	36	M	3,500.00	126,000.00
F.	Allow item for joining pieces to all roof truss members where necessary	-	Item	-	250,000.00
	<u>METAL WORKS:</u>				
	<u>Mild steel; protected from rust by applying three coats of zinc chromate primer and two full coats of gloss painting; (Provisional)</u>				
G.	590 x 300 x 3mm thick; gusset plates; including making holes for 12mm diameter	22	No	4,000.00	88,000.00
H.	50 x 150 x 3mm Thick angle brackets	22	No	3,000.00	66,000.00
J.	M 16mm diameter; 350mm long anchor bolts with nuts and washers casted into concrete beam "J"	22	No	5,000.00	110,000.00
K.	12mm diameter; 150mm long bolts with nuts and washers screwed and bolted to ms plates	126	No	2,500.00	315,000.00
TO COLLECTION					2,853,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	
	<u>ROOF COVERINGS:</u>				
	<u>Troughed IT5 Profile coloured Aluminium roofing sheets;</u>				
	<u>'28' Gauge; lapped to sides and ends as per manufacturer's specifications; fixed to battens (m/s)</u>				
A.	Roof covering sloping not exceeding 45 degrees from horizontal.	206	M ²	38,000.00	7,828,000.00
	<u>Roof Drainage (Provisional)</u>				
B.	Extra; Bends	4	No	5,000.00	20,000.00
C.	Extra; Outlets	4	No	5,000.00	20,000.00
D.	Extra; shoe	7	No	5,000.00	35,000.00
E.	Extra; swanneck	4	No	5,000.00	20,000.00
	TO COLLECTION				7,923,000.00
	<u>COLLECTION:</u>				
	Page 8/4/4/1				2,853,000.00
	Page 8/4/4/2				7,923,000.00
ELEMENT No. 04 – ROOFING CARRIED TO SUMMARY OF BILL No. 04					10,776,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 05 - ELECTRICAL INSTALLATIONS:</u>				
	<u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATIONS:</u>				
	<u>Allow for necessary cutting away holes; chases; and the like for and making good after the electrician on concealed electrical system comprising:</u>				
A.	Lighting points with associated switches	-	Item	-	1,000,000.00
B.	Power points with associated switches	-	Item	-	750,000.00
C.	Distribution Board points	-	Item	-	100,000.00
D.	Telephone points	-	Item	-	100,000.00
E.	Coaxial outlet for TV	-	Item	-	100,000.00
	<u>SUNDRIES:</u>				
F.	Allow for preparing and producing FOUR (4) copies of 'AS BUILT DRAWINGS' of electrical Installations showing all the electrical fittings and wiring on plan	-	Item	-	300,000.00
ELEMENT No. 05 - ELECTRICAL INSTALLATIONS CARRIED TO SUMMARY OF BILL No. 04					2,350,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 06 - DOORS</u>				
	<u>HEAVY DUTY ALUMINIUM DOORS</u>				
A.	45mm Thick overall extra heavy duty chrome plated casement aluminium door size 900 x 2800mm high comprising 125mm wide stiles, 150mm top rail 175mm bottom rail infilled with and including 8mm thick tinted glass including 1Nr vent light; size 500 x 750mm snap in glass stops beveled with 15 x 15mm glazing heads all corners setting block, 8Nr heavy duty hinges; 1Nr 'Euro profile double cylinder lock UNION type 26E185; 3Nr door stopper UNION type 8400; 1Nr door closer UNION type N 8826; 2Nr flush bolt and 1Nr door pull handle; Details as per Architectural, drawing.(D1)	4	No	7,560,000.00	30,240,000.00
	<u>WOOD WORK</u>				
	<u>Prime quality hardwood paneled doors</u>				
B.	40mm Thick; 800 x 2800mm high; comprising of 45x125mm rebated stiles; top and middle rails; 45 x 200mm bottom rail; divided into two panels; all panel filled in with and including 40x100mm hardwood vertical boardings T&G jointed; (D2).	4	No	550,000.00	2,200,000.00
	<u>Frames and Finishing:</u>				
C.	45x145mm Frames with one labour; moulded	22	M	25,000.00	550,000.00
D.	45x145mm Transom	3	M	25,000.00	75,000.00
E.	38 x 15mm Architraves splayed.	22	M	13,000.00	286,000.00
TO COLLECTION					33,351,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 07 - WINDOWS</u>				
	<u>Composite Aluminium window units; as microns manufactured to Architects satisfaction finished with 21 microns silver anodized Aluminium alloy; matt finished; including assembling as necessary, bedding frame in proprietary bedding compound. pointing externally with mastic and stripping protective tape from Aluminium frame with and including mullions, transoms and unblocking devices where necessary:</u>				
A.	3000 X 3700mm high; glazed with 6mm thick tinted glass; complete with locks (W1)	4	No	2,775,000.00	11,100,000.00
B.	Ditto; 2100 x 3700mm high (W2)	4	No	1,942,500.00	7,770,000.00
C.	Ditto; 700 x 4000mm high (W3)	4	No	700,000.00	2,800,000.00
	<u>Curtains:</u>				
D.	Venetia vertical blinds to windows including all fixing accessories as per manufacture's specifications	87	M ²	150,000.00	13,050,000.00
	<u>METAL WORK:</u>				
	<u>Mild steel; protected from rust by applying three coats of zinc chromate primer and two full coat of gloss painting.</u>				
E.	Window Grills; comprising of flat bars cut and bent to pattern as to the Architect Approval.	87	M ²	110,000.00	9,570,000.00
ELEMENT No. 07 - WINDOWS CARRIED TO SUMMARY OF BILL No. 04					44,290,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 08 - PLUMBING & ENGINEERING INSTALLATIONS:</u>				
	<u>Sanitary Appliances</u>				
	<u>Supply and fix the following sanitary appliances; Ex - Italy including all connections and screwing and bolting to floor or wall where necessary:</u>				
A.	White vitreous china Andria European type WC; CD191D Lilly; design with wall outlet; short P-trap 190mm high; adjustable to S-trap; roughing range 140-220mm by connector; wash down flushing; dual flush 3/6 litres with tank trim C9536; with C90052 toilet seat with metal hinges.	4	No	800,000.00	3,200,000.00
B.	405 x 380mm Ceramic wash hand basin complete with 15mm diameter chromium plated mixer tap Ex - Italy; chain and plug; and a deep seal 32mm chrome bottle trap with cast iron brackets.	4	No	600,000.00	2,400,000.00
C.	Recessed toilet paper roll holder; ceramic; size 150 x 150mm.	4	No	50,000.00	200,000.00
D.	Recessed soap dish; ceramic; size 150 x 150mm.	4	No	50,000.00	200,000.00
E.	Supply and fix 6mm thick polished glass mirror size 450 x 600mm with grounded and chamfered edges four times drilled and plugged screwed with chromium plated domex screws.	4	No	250,000.00	1,000,000.00
	<u>Sanitary installations; pipework; UPVC pipes and fittings; grade 'B' as manufactured by PLASCO:</u>				
	<u>Soil; waste and vent pipes</u>				
F.	Allow cost for soil and waste water pipe work installations	-	Item	-	1,500,000.00
	<u>Ancillaries:</u>				
G.	Allow cost for Tees, Nipples, Sockets, Reducing bush, Elbow, non-return valve stop valve and bib taps	-	Item	-	3,000,000.00
	<u>Cold and hot water installations</u>				
H.	Allow cost for cold and hot water pipe work	-	Item	-	6,000,000.00
	<u>Ancillaries:</u>				
K.	Allow cost for Tees, Nipples, Sockets, Reducing bush, Elbow, non-return valve stop valve and bib taps	-	Item	-	2,500,000.00
TO COLLECTION					20,000,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>EQUIPMENT:</u>				
	<u>Portable Fire Extinguishers (PFE); BS3465:1962</u>				
A.	9Kg ABC dry powder 'ARGUS' or any other and equal approved fire extinguishers; fixed to wall with and including brackets plugged on blockwork.	1	No	500,000.00	500,000.00
	<u>Gully Traps</u>				
B.	100mm Diameter PVC gully trap with grating; constructed in and including concrete surround internal dimension 300x300x300mm deep; with 100mm thick solid concrete block sides; 150mm thick concrete grade '15' bed; 50mm thick precast concrete grade '20' cover slab reinforced with BRC mesh, with lifting devices; 12mm thick water proof cement and sand (1:3) rendering trowelled smooth to internal faces of sides; and bottom; including excavations, backfilling and compacting and removal of surplus excavated materials	6	No	150,000.00	900,000.00
	<u>Testing</u>				
C.	Allow item for testing the whole of plumbing and engineering installation to Engineer's satisfaction	-	Item	-	300,000.00
	<u>Builder's Work:</u>				
D.	Allow sum for all builder's work in connection with Plumbing and Engineering installation including chasing away walls, trench excavation, making good, backfilling and compacting in trench and removal of surplus material away from site.	-	Item	-	1,500,000.00
	TO COLLECTION				3,200,000.00
	COLLECTION				
	Page 8/4/8/1				20,000,000.00
	Page 8/4/8/2				3,200,000.00
ELEMENT No. 08 - PLUMBING AND ENGINEERING INSTALLATION CARRIED TO SUMMARY OF BILL No. 04					23,200,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No 9 - FINISHING</u>				
	<u>FLOOR FINISH</u>				
	<u>TILES; SLAB OR BLOCK FINISHING</u>				
	<u>Porcelain tiles; high quality; Ex Spain or equal and approved; fixed to backing with adhesives and pointed with tile grout; pattern as per Architect's instruction</u>				
A.	450 x 450 x 9mm Thick non slippery floor tiles; level	154	M ²	152,000.00	23,408,000.00
B.	Ditto, 300 x 300 x 9mm	20	M ²	122,000.00	2,440,000.00
C.	100mm high; Tile skirting	116	M	52,000.00	6,032,000.00
	<u>WALL FINISH</u>				
	<u>Internal plastering in two coats, steel troweled to smooth finish; first coat consisting of cement, lime putty and sand (1:2:9); finishing coat cement and lime (1:10):</u>				
D.	15mm thick to wall, concrete or block base	580	M ²	8,000.00	4,640,000.00
	<u>External cement sand (1:4); rendering with approved plasticizer trowelled smooth:</u>				
E.	15mm thick to wall, concrete or block base	435	M ²	8,000.00	3,480,000.00
F.	Ditto to Concrete gutter	87	M ²	8,000.00	696,000.00
G.	Ditto to concrete fascia	18	M ²	8,000.00	144,000.00
	<u>TILES; SLAB OR BLOCK FINISHING</u>				
	<u>Glazed ceramic wall tiles; to BS 1281 fixed to backing with approved adhesives and pointed with approved tile grout:</u>				
H.	200 x 300 x 6mm Thick tiling; to walls.	132	M ²	45,000.00	5,940,000.00
J.	9mm PVC tile trim	10	M	6,000.00	60,000.00
K.	Cut and fit around small pipes	-	Item	-	100,000.00
TO COLLECTION					46,940,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>Beds and backings; one coat work; cement and sand (1:4); wood floated</u>				
A.	31mm Thick bed; to receive floor tiles.	154	M ²	6,000.00	924,000.00
B.	12mm Thick backing; to receive wall tiles.	161	M ²	6,000.00	966,000.00
	<u>CEILING FINISH:</u>				
	<u>Gypsum board finishing:</u>				
C.	9mm Thick ceiling lining; 'V' jointed; fixed to brandering; including all accessories deemed necessary.	174	M ²	18,000.00	3,132,000.00
D.	100 x 100mm Moulded cornices	124	M	2,500.00	310,000.00
E.	Extra over for ceiling access hatches; 600x600mm	1	No	50,000.00	50,000.00
	<u>Softwood; pressure impregnated with preservatives</u>				
F.	50 x 100mm Ceiling joists	26	M	16,000.00	416,000.00
G.	50 x 50mm brandering	213	M	8,000.00	1,704,000.00
	TO COLLECTION				7,502,000.00
	<u>COLLECTION:</u>				
	Page 8/4/9/1				46,940,000.00
	Page 8/4/9/2				7,502,000.00
ELEMENT No. 9 – FINISHINGS CARRIED TO SUMMARY OF BILL No. 04					54,442,000.00

ITEM	DESCRIPTION OF WORKS	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT No. 10 – PAINTING AND DECORATING</u>				
	<u>INTERNAL WORK:</u>				
	<u>Prepare and apply one thinned coat and two full coats of emulsion paint as per the Architect's approval on</u>				
A.	Gypsum board ceiling	174	M ²	6,000.00	1,044,000.00
	<u>Prepare and apply one thinned coat and two full coats of VGA silk paint to manufacturer's specifications and Architect's approval on</u>				
B.	Plastered walls; columns or the like	580	M ²	8,000.00	4,640,000.00
	<u>Prepare and prime back of wood surfaces before fixing</u>				
C.	Frames or the like; 100 to 200mm girth.	29	M	3,000.00	87,000.00
	<u>Prepare and apply one undercoat and two full coats of polyurethane clear varnish on timber surfaces</u>				
D.	General surfaces of doors/glazed doors	14	M ²	8,000.00	112,000.00
E.	Frames or the like; 200 to 300mm girth.	29	M	2,400.00	69,600.00
	<u>EXTERNAL WORK</u>				
	<u>Prepare and apply one under coat and two full coats of weather guard paint as per the Architect's approval on</u>				
F.	Plastered walls, columns or the like	435	M ²	8,000.00	3,480,000.00
G.	Plastered concrete gutters	87	M ²	8,000.00	696,000.00
H.	Plastered concrete fascia	18	M ²	8,000.00	144,000.00
ELEMENT No. 10 – PAINTING AND DECORATION CARRIED TO SUMMARY OF BILL No. 04					10,272,600.00

S U M M A R Y

BILL No. 03 - MEASURED WORKS (RECEPTION)

ELEMENT	D E S C R I P T I O N S	PAGE No	AMOUNT (TSHS)
1	SUBSTRUCTURE	8/3/1/3	53,088,000.00
2	FRAMES	8/3/2/1	65,299,250.00
3	STAIRS.....	8/3/3/1	6,564,200.00
4	WALLING	8/3/4/1	29,055,000.00
5	ROOFING	8/3/5/2	14,756,500.00
6	ELECTRICAL INSTALLATION	8/3/6/1	2,950,000.00
7	DOORS.....	8/3/7/2	49,044,000.00
8	WINDOWS.....	8/3/8/1	98,590,000.00
9	PLUMBING AND ENG. INSTALLATION.....	8/3/9/3	31,080,000.00
10	FINISHING.....	8/3/10/2	172,008,200.00
11	PAINTING AND DECORATION.....	8/3/11/1	25,037,400.00
BILL No 03 - MEASURED WORKS CARRIED TO GENERAL SUMMARY			547,472,550.00

S U M M A R Y

BILL No. 04 - MEASURED WORKS (ROOMS)

ELEMENT	D E S C R I P T I O N S	PAGE No	AMOUNT (TSHS)
1	SUBSTRUCTURE	8/4/1/3	33,199,100.00
2	FRAMES	8/4/2/1	1,982,000.00
3	WALLING	8/4/3/1	18,057,000.00
4	ROOFING	8/4/4/2	10,776,000.00
5	ELECTRICAL INSTALLATION	8/4/5/1	2,350,000.00
6	DOORS.....	8/4/6/2	35,781,000.00
7	WINDOWS.....	8/4/7/1	44,290,000.00
8	PLUMBING AND ENG. INSTALLATIONS.....	8/4/8/2	23,200,000.00
9	FINISHING.....	8/4/9/2	54,442,000.00
10	PAINTING AND DECORATIONS.....	8/4/10/1	10,272,600.00
SUB TOTAL PER UNIT			234,349,700.00
TIMES BY 7 UNIT			7 UNIT
			1,640,447,900.00
BILL No 04 - MEASURED WORKS CARRIED TO GENERAL SUMMARY			1,640,447,900.00

GENERAL SUMMARY

D E S C R I P T I O N S	AMOUNT (TSHS)
BILL No 01 - PRELIMINARIES.....	20,650,000.00
BILL No - PROVISIONAL SUM.....	412,625,000.00
BILL No 03 - MEASURED WORKS (RECEPTION)	547,472,550.00
BILL No 04 - MEASURED WORKS (ROOMS)	1,640,447,900.00
SUB TOTAL TSHS.	2,621,195,450.00
ADD: 18% VAT	471,815,181.00
TOTAL COST ESTIMATE.....	3,093,010,631.00

Signed by QS HERMANU TANGUYE For and on behalf of HY PROJECTS CONSULTANTS LTD

In the capacity of QS dated this 08

Day of APRIL, 2025

GS/1

