

LOT No 01 (CAPRIPOINT HOUSE)					
ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 1</u> <u>SUBSTRUCTURE</u> <u>(ALL PROVISIONAL):</u>				
	<u>Site Preparation:</u> Excavate top soil and remove from the site average 150mm deep	300	SM		
A.					
	<u>Excavations:</u> Excavate pit to receive bases of stanchions, isolated piers and the like not exceeding 1.50m deep starting at stripped level	164	CM		
B.					
	over 1.50 but not exceeding 3.00m deep	122	CM		
C.					
	Excavate trenches to receive foundations not exceeding 1.50m deep starting at stripped level	164	CM		
D.					
	Extra over all types of excavations irrespective of depth for				
E.	breaking up rock and the like	27	CM		
	<u>Planking and Strutting:</u> Allow for planking and strutting to uphold and maintain all faces of excavations		ITEM		
F.					
	<u>Disposal of water:</u> Allow for keeping all excations free from all water by pumping, balling or by other means necessary		ITEM		
G.					
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Disposal:</u>				

A.	Surplus excavated materials removing from the site	300	CM		
	<u>Imported materials</u>				
B.	Selected sand fill materials backfilling; depositing and compacting around foundations in layers maximum 250mm thick	300	CM		
C.	250mm selected sand fill; depositing and compacting in layers maximum 200mm thick under hardcore bed	300	SM		
	<u>Imported Hardcore</u>				
D.	To make up level average 200mm thick; levelled, compacted and blinded to receive polythene membrane (m /s)	265	SM		
	<u>Soil sterilisation:</u>				
E.	Gladiator soil sterilisation applied to hardcore beds and top of foundation walls at the rate of 7 litres per square metres	300	SM		
F.	ditto; applied to backfilling at the rate of 4 litres per metres; 600mm wide	89	LM		
	<u>Plain in-situ concrete; nominal mix (1:4:8)</u>				
G.	Blinding beds; laid on earth 50mm thick	300	SM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>Plain in-situ concrete; grade 20:</u> Beds; laid on hardcore 150mm thick	300	SM		
B.	Steps, stages, ramps and the like; laid on earth or hardcore generally	5	CM		

	<u>Reinforced in-situ concrete; grade 25N/sq.mm; vibrated:</u>				
C.	Ground beams; horizontal irrespective of thickness	21	CM		
D.	Foundations to isolated stanchions or the like irrespective of thickness	59	CM		
E.	Columns generally	8	CM		
F.	Foundation and the like generally	38	CM		
	<u>Reinforcement; bars; high tensile hot rolled deformed steel bar reinforcement to B.S.4449: 1969; including tying wire ordinary spacers and distance blocks</u>				
	Straight or bent; in any location				
G.	16mm diameter bars	2200	KG		
H.	12mm diameter bars	1892	KG		
J.	10mm diameter bars	751	KG		
K.	8mm diameter bars	771	KG		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Fabric Reinforcement</u>				
	Steel wire fabric mesh reinforcement to B.S. 4483 Ref: A142 in concrete bed (measured nett-no allowance made for minimum of 225mm laps) including tying and supporting as required				
A.	laid in concrete	300	SM		
	<u>Formwork generally:</u>				
	Columns; vertical sides				
B.	generally	103	SM		
	Ground beams; vertical sides				
C.	generally	182	SM		
	Strip foundations; vertical sides				
D.	generally	111	SM		

E.	Column bases; vertical sides generally	121	SM		
F.	Sides or risers of steps or the like over 75 but not exceeding 150mm	72	LM		
G.	Edge of beds over 75 but not exceeding 150mm <u>Blockwork; concrete blocks; BS: 2028 type 'A' in cement mortar (1 : 4):</u>	163	LM		
H.	Walls or partitions 230mm thick <u>Damp proof membrane; BS.743; polythene; 1000gauge:</u>	370	SM		
J.	Horizontal; laid on blinded hardcore over 300mm wide	300	SM		
					to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>Damp-proof courses; BS.743 type 5A; hessian based; lapped at joints and angles; bedded in cement and sand (1:4): mortar:</u> Horizontal 230mm wide	165	LM		
B.	<u>In-situ finishings; mortar; cement and sand (1:4); trowelled finish; externally:</u> Work to walls and the like generally	82	SM		
C.	<u>Tile, slab or block finishings: Approved plinth wall decorative tiles; 15 years guarantee; fixed with adhesives; grouting and pointing in white cement:</u> To walls; jointed straight both ways; to cement and sand base generally	82	SM		

	to collection Shs
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ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>COLLECTION:</u> PAGE 2/ 1 PAGE 2/ 2 PAGE 2/ 3 PAGE 2/ 4 PAGE 2/ 5	-	-		
	ELEMENT NO. 1 - SUBSTRUCTURE CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO. - 2 3 FLOOR FRAME:</u> <u>Reinforced in-situ concrete;</u> <u>grade 25N/sq.mm; vibrated:</u> Beams and ring beams; horizontal or sloping not exceeding 15 degrees from horizontal A. generally 155 CM Columns B. generally 111 CM Suspended floor slab or the like; horizontal C. 150mm thick 681 SM Suspended roof slab or the like; horizontal D. 150mm thick 1033 SM <u>Reinforcement; bars; high tensile hot rolled deformed steel bar reinforcement to B.S.4449: 1969; including tying wire ordinary spacers and distance blocks</u> Straight or bent; in any location E. 25mm diameter bars 3473 KG				

F.	20mm diameter bars	1016	KG		
G.	16mm diameter bars	12842	KG		
H.	12mm diameter bars	24139	KG		
J.	8mm diameter bars	6958	KG		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	Formwork generally: Beams and ring beams; sides and soffits	293	SM		
B.	Columns: vertical sides generally	376	SM		
C.	Soffits of floor and roof slabs; horizontal generally	496	SM		
D.	Edges of slabs; vertical sides over 75 but not exceeding 150mm	373	LM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION: PAGE 2/7 PAGE 2/8				
	ELEMENT NO. 2 - FRAME CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>ELEMENT NO. - 3 STAIRS:</u> <u>Reinforced in-situ concrete;</u> <u>grade 20N/sq.mm; vibrated:</u> Stairs generally Beams; horizontal or sloping not exceeding	7	CM		

B.	15 degrees from horizontal generally	1	CM		
C.	Suspended landings; horizontal 150mm thick <u>Reinforcement; bars; high tensile hot rolled deformed steel bar reinforcement to B.S.4449: 1969; including tying wire ordinary spacers and distance blocks</u> Straight or bent; in any location	12	SM		
D.	8mm diameter bars	125	KG		
E.	12mm diameter bars	1409	KG		
F.	16mm diameter bars	1871	KG		
	<u>Formwork generally:</u> <u>Sawn Formworks to:</u> Soffits of suspended landings; horizontal				
H.	generally	11	SM		
I.	Soffits of stairs; sloping generally	26	SM		
					to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Formwork generally:</u> <u>(Continue):</u> Beams; horizontal or sloping not exceeding 15 degrees from horizontal generally	8	SM		
A.	Risers of steps and landing; vertical sides; over 75 but not exceeding 150mm wide	85	LM		
B.	Strings; sloping 250mm (extreme) high	37	LM		
C.	including cutting to profile of treads and risers <u>Metal works: (Provisional) All mildsteel:</u> Balusters				

D.	25mm diameter x 900mm high; fixed to bolts anchored in concrete	133	NO		
E.	Intermediate rail 25mm diameter; welded to balusters	40	LM		
F.	Bottom rail 25mm diameter; welded to balusters	40	LM		
G.	Handrailing 50mm diameter handrail; welded to balusters	40	LM		
					to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION: PAGE 1/ 10 PAGE 1/ 11				
	ELEMENT NO. 3 - STAIRS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>ELEMENT NO - 4</u> <u>WALLS</u> <u>Pre-cast concrete grade '20' ;</u> <u>bedding and pointing in cement</u> <u>and sand (1:4) mortar:</u> Lintels; 150 x 300mm; reinforced with and including 4No. 12mm diameter mild steel bars; 6mm stirups at 150mm centers;	1270	LM		
B.	Sills; 75 x 310mm; once sunk weathered, rebated, once throated; reinforced with and including BRC 66; finished fair all round; bedding, jointing and pointing in cement mortar (1:4)	1270	LM		

C.	<p>Copings; 50 x 150; once sunk, weather, rebated, once throated; reinforced with and including BRC 66; finished fair all round; bedding, jointing and pointing in cement mortar (1:4)</p> <p><u>Burnt brick solid walling; in cement:lime:sand (1:1:5) mortar</u></p>	186	LM		
D.	<p>Walls or partitions 230mm thick; jointed and pointed with cement mortar externally as work proceed</p> <p><u>Blockwork; concrete hollow blocks ; BS.2028 type 'A' in cement lime mortar (1:2:9): mortar:</u></p>	795	SM		
E.	Walls or partitions 230mm thick block	879	SM		
F.	150mm thick block	895	SM		
G.	100mm thick parapet wall	486	SM		
to collection Shs					0

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Metal works: (Provisional) All mildsteel:</u>				
A.	<p>Balusters 25mm diameter x 900mm high; fixed to bolts enched in concrete</p>	117	NO		
B.	<p>Intermediate rail 25mm diameter; welded to balusters</p>	97	LM		
C.	<p>Bottom rail 25mm diameter; welded to balusters</p>	77	LM		
D.	<p>Handrailing 50mm diameter handrail; welded to balusters</p>	77	LM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION : PAGE 2/ 13 PAGE 2/ 14			<i>Shs</i>	
	ELEMENT NO. 4 - WALLS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 5</u>				
	<u>DOORS</u>				
	<u>(ALL PROVISIONAL)</u>				
	<u>Doors; selected hardwood;</u>				
	<u>'Mninga' : or other approved</u>				
	<u>hardwood:</u>				
	Solid core external quality flush door shutter; as per Architect's approval finished with universal undercoat and two coats Plascon velgaglo-white or other equal and approved				
A.	45mm thick; overall size 815 x 2100mm high; Door Type D05	24	NO		
B.	45mm thick; overall size 815 x 2100mm high; Door Type D04	16	NO		
	<u>Frames, sills and kerbs ; all</u>				
	<u>hardwood:</u> Door frames				
C.	45 x 150mm with one labour Transome	225	LM		
D.	45 x 150mm	33	LM		
	<u>Fillets, glazing beads and</u>				
	<u>ground; hardwood:</u>				
	Architraves				
E.	25 x 45mm; moulded with one labour	225	LM		
	Glazing beads				
F.	25 x 25mm	89	LM		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<p><u>Ironmongery</u> <u>The following materials (ironmongeries) shall be supplied by the Client; the Bidder shall allow labour for fixing only including all necessary ammenities in connection:</u></p>				
A.	butt hinges; 150mm; brass	60	PRS		
B.	two lever action bath room locks and sets of SSA lever handle	24	NO		
C.	three lever action locks and sets of SSA lever handle	16	NO		
D.	oval door stop; floor mounted	40	NO		
	<p><u>Glass in openings; float wired glass:</u> To wood with screwed wood beads</p>				
E.	6.38mm thick;	10	SM		
	<p><u>Aluminium Doors:</u> <u>Purpose made units:</u> <u>Powder coated aluminium framed doors as manufactured by approved manufacturer including all necessary ironmongery; 6.38mm thick coloured glass; fixing to grounds; sealing all round with approved mastic; removing protective tape:</u> Cutting and pinning to concrete or blockwork at joints; fixing to head and sill with screws, plugging</p>				
F.	1500 x 2400mm overall high; double leaf side openable Door Type D01	6	NO		
G.	1270 x 2400mm overall high; double leaf side openable Door Type D02a	1	NO		

H.	1890 x 2400mm overall high; double leaf side openable Door Type D02b	3	NO		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Aluminium Doors:</u> <u>(Continue):</u> Cutting and pinning to concrete or blockwork at joints; fixing to head and sill with screws, plugging				
A.	1800 x 2400mm overall high; double leaf side openable Door Type D02c	8	NO		
B.	1870 x 2400mm overall high; double leaf side openable Door Type D09	1	NO		
C.	4750 x 2400mm overall high; double leaf sliding Door Type D14	4	NO		
	<u>Metal Work</u> <u>Purpose-made mild steel grille</u> <u>louvred door as manufactured</u> <u>and fixed by an approved</u> <u>manufacturer complete with</u> <u>frames; with all necessary</u> <u>locking devices and finished</u> <u>with red oxide metal primer</u> <u>paint:</u> Cuttings and pinning to concrete or blockwork at jambs; fixing to head and sill with lugs; plugging				
D.	600 x 2400mm overall high; Door Type D10	4	NO		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
COLLECTION :				Shs	

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	ELEMENT NO. 5 - DOORS CARRIED TO SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 6</u> <u>WINDOWS</u> <u>(ALL PROVISIONAL)</u> <u>Purpose made units:</u> <u>Grey powder coated aluminium</u> <u>framed windows as</u> <u>manufactured by approved</u> <u>manufacturer including all</u> <u>necessary ironmongery;</u> <u>6.38mm thick coloured glass;</u> <u>with and including aluminium</u> <u>mosquito gauze in sliding</u> <u>shutters; fixing to grounds;</u> <u>sealing all round with approved</u> <u>mastic; removing protective</u> <u>tape:</u> Cutting and pinning to concrete or blockwork at joints; fixing to head and sill with screws, plugging				
A.	1200 x 2400mm high; Type W01	1	NO		
B.	1870 x 2400mm high; Type W02a	1	NO		
C.	1300 x 2400mm high; Type W02b	2	NO		
D.	1315 x 2400mm high; Type W02c	2	NO		
E.	1360 x 2400mm high; Type W02d	2	NO		
F.	1430 x 2400mm high; Type W02e	14	NO		
G.	885 x 2400mm high; Type W03	8	NO		
H.	1800 x 2400mm high; Type W04a	2	NO		

J.	1500 x 2400mm high; Type W04b	12	NO		
K.	1800 x 1800mm high; Type W06	5	NO		
L.	4000 x 450mm high; Type W10	12	NO		
M.	900 x 1800mm high; Type W11	3	NO		
					to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<p><u>Purpose made units:</u> <u>Grey powder coated aluminium framed windows:</u> <u>(Continue):</u> Cutting and pinning to concrete or blockwork at joints; fixing to head and sill with screws, plugging</p>				
A.	1300 x 2400mm high; Type W12	13	NO		
B.	1545 x 2400mm high; Type W13	2	NO		
C.	1500 x 1500mm high; Type W14	2	NO		
	<p><u>Purpose made units:</u> <u>Purpose made standard wrought framed steel casement windows (as per Window Details) fixed with lugs to concrete or blockwork base pointed externally in mastic and finished with one shop undercoat oxide metal primer.</u> Cutting and pinning to concrete or blockwork at joints; fixing to head and sill with lugs, plugging</p>				
D.	<p>Windows size 1800 x 1800mm overall high; Type; W06 <u>Glass in openings; clear float glass</u> To steel casement frame; fixed with putty</p>	5	NO		
E.	6.38mm thick;	3	SM		
					to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION : PAGE 2/ 20 PAGE 2/ 21			<i>SHS</i>	
	ELEMENT NO. 5 - WINDOWS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 6</u>				
	<u>ROOFING</u>				
	28 Gauge type Resin coated (IT5) roofing sheets as manufactured by the ALUCO Division of Aluminium Africa Ltd, or other equal and approved manufacturers; laid with one and a half corrugations side laps and 250mm end				
A.	roof coverings	600	SM		
B.	vertical abutment; 300mm high	186	LM		
C.	Extra; working into outlet	8	NO		
	<u>Prepare surface and apply 2 layers of sarnafil polymeric roof covering finished with sarnafil G410-12 felt or any other equal and approved</u>				
	Covering to slopes not exceeding 15 degrees from horizontal				
D.	laid on concrete floor	71	SM		
E.	vertical abutment; 300mm high	71	LM		
	<u>RAINWATER INSTALLATIONS</u>				
	<u>Rain water pipework ; unplasticised PVC pipes and fittings; B.S.4514</u>				
	Pipes; solvent weld straight couplings in the running length; fitted with galvanised steel clips as terrain cat No.2112 at				

	1500mm to background requiring plugging				
F.	100mm diameter	72	LM		
G.	extra ; shoes	8	NO		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>Rain water pipework ; unplastised PVC pipes and fittings; B.S.4514 (Continue):</u> Rain water fittings"fulbora" type; joints to pipework For 100mm pipes	8	NO		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION : PAGE 2/ 23 PAGE 2/ 24			SHS	
	ELEMENT NO. 7 - ROOFING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 8</u> <u>FINISHINGS</u> <u>FLOOR FINISHINGS</u> <u>The following materials (Tiles)</u> <u>shall be supplied by the Client;</u> <u>the Bidder shall allow labour</u> <u>for fixing only including all</u> <u>necessary ammenities in</u> <u>connection:</u>				

	<p><u>Tile, slab or block finishings:</u> <u>Slip less Coloured porcelain</u> <u>floor tiles size</u> <u>400 x 400 x 10mm thick ex-</u> <u>Spain to</u> <u>Architect's approval; fixed</u> <u>with adhesives to screed bed</u> <u>to diagonal jointed pattern;</u> <u>grouting and pointing in cement</u> <u>mortar:</u> To floors; butt joints straight both ways; level; to cement and sand base generally Skirtings 100mm high</p>				
A.		976	SM		
B.		646	LM		
	<p><u>Beds and backings; mortar;</u> <u>cement and sand (1:4) :</u></p>				
C.	<p>Beds; floated ; to concrete base; 20mm thick; to receive floor tiles Skirting; floated; to blockwork base;</p>	976	SM		
D.	<p>100mm high x 12mm thick; to receive tiles</p>	646	LM		
	<p><u>WALL FINISHINGS</u> <u>In-situ finishings; internal</u> <u>plastering in two coats; 12mm</u> <u>first coat cement/sand (1:4);</u> <u>2-3mm second coat of PVA</u> <u>polyvinny alcohol crystallized</u> <u>water proof skimming filler;</u> <u>steel trowelled smooth:</u> Work to walls, beam and the like 15mm thick</p>				
E.		1437	SM		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<p><u>In-situ finishings; external</u> <u>plastering and pointing in two</u> <u>coats; 12mm first coat of</u></p>				

	<u>cement/sand (1:4); steel trowelled smooth:</u>			
A.	Work to walls and the like 15mm thick <u>The following materials (Tiles) shall be supplied by the Client; the Bidder shall allow labour for fixing only including all necessary amenities in connection:</u> <u>Tile, slab or block finishings:</u> <u>Ceramic wall tiles "SAMCA" size 200 x 400 x 6mm thick ex-Spain to Architec's approval; white glazed; fixed with adhesives; grouting and pointing in white cement:</u> To walls full height; jointed straight both ways; to cement and sand base	1305	SM	
B.	generally <u>Beds and backings; mortar; cement and sand (1:4) :</u> Backings ; floated ; to walls; to blockwork base;	744	SM	
C.	12mm thick; to receive ceramic wall tiles <u>STAIRCASE FINISHINGS</u> <u>In-situ finishings; internal plastering in two coats; 12mm first coat cement/ sand(1:4); 2-3mm second coat of gypsum skimming filler; steel trowelled smooth:</u> Work to soffits of landing and the like	744	SM	
D.	15mm thick Work to sloping soffits of staircase	11	SM	
E.	15mm thick Work to edge of stairs and the like	26	SM	
F.	15mm thick x 350mm max wide	37	LM	
	to collection Shs			

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<p><u>The following materials (Tiles) shall be supplied by the Client; the Bidder shall allow labour for fixing only including all necessary amenities in connection:</u></p> <p><u>Tile, slab or block finishings:</u></p> <p><u>Coloured non-slip ceramic floor tiles size</u></p> <p><u>300 x 300 x 8mm thick ex-Spain to</u></p> <p><u>Architect's approval; fixed with adhesives to screed bed to diagonal jointed pattern; grouting and pointing in cement mortar:</u></p> <p>Work to landing floor or the like generally</p>				
A.	To treads;	12	SM		
B.	300mm wide	77	LM		
C.	To riser 150mm high	85	LM		
	<p><u>Beds and backings; mortar; cement/sand (1:4):</u></p> <p>Floor generally; floated ; to concrete base;</p>				
D.	20mm thick; to receive floor tiles	12	SM		
E.	To treads 300mm high x 30mm thick; to receive tiles	77	LM		
F.	To riser 150mm high x 30mm thick; to receive tiles	85	LM		
	<p><u>CEILING FINISHINGS</u></p> <p><u>In-situ finishings; internal plastering in two coats; 12mm first coat cement/ sand (1:4); 2-3mm second coat of gypsum</u></p>				

	<u>skimming; steel trowelled smooth:</u>				
G.	Work to soffits of slabs and the like 15mm thick	373	SM		
H.	Edges of slab 150 x 15mm thick	373	LM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION : PAGE 2/ 26 PAGE 2/ 27 PAGE 2/ 28			<i>SHS</i>	
	ELEMENT NO. 8 - FINISHINGS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>ELEMENT NO - 9 DECORATIONS</u> <u>Painting; internal work; one mist coat; two full coats vinly silk acrylic emulsion paint; on plasterd surfaces:</u> Walls generally	1437	SM		
B.	<u>Painting; external work; one mist coat; two full coats "weather guard" emulsion paint; on rendered or plastered surfaces:</u> Walls generally	1305	SM		

	<u>Painting; internal work; one mist coat; two full coats plastic emulsion paint; on plasterd surfaces:</u>				
C.	Ceiling generally	373	SM		
D.	Edges of slab 100 to 200mm wide	373	LM		
E.	Soffits of landings generally	11	SM		
F.	Sloping soffits generally	26	SM		
	<u>Painting; internal work; one undercoat; three coats oil based paint; eggshell finish; iron or steel surfaces and the like:</u>				
G.	General surfaces over 300mm girth	18	SM		
H.	Frames, linings and associated mouldings 100 - 200mm girth	342	LM		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Varnishing; internal work; prepare and apply three coats of oak vineer varnish; wood surfaces:</u>				
A.	General surfaces over 300mm girth	137	SM		
B.	Frames, linings and associated mouldings 200 - 300mm girth	258	LM		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	COLLECTION :				<i>SHS</i>
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	ELEMENT NO. 9 - DECORATIONS CARRIED TO SUMMARY	

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	SUMMARY			<i>TSHS</i>	
	ELEMENT NO. 1 - SUBSTRUCTURES				
	ELEMENT NO. 2 - 3 FLOOR FRAME				
	ELEMENT NO. 3 - STAIRS				
	ELEMENT NO. 4 - WALLS				
	ELEMENT NO. 5 - DOORS				
	ELEMENT NO. 6 - WINDOWS				
	ELEMENT NO. 7 - ROOFING				
	ELEMENT NO. 8 - FINISHINGS				
	ELEMENT NO. 9 - DECORATIONS				
	TOTAL				
	CARRIED TO GENERAL SUMMARY				

SERVICES INSTALLATIONS

TYPE OF SERVICE: AIR CONDITIONING AND MECHANICAL VENTILATION

ITEM	DESCRIPTIONS	UNIT	QTY	RATE (TSHS)	TOTAL (TSHS)
	<u>APERTMENT CAPRIPOINT</u> <u>TYP FLOOR</u> <u>The following materials (Air</u> <u>Conditioners) shall be supplied</u> <u>by the Client; the Bidder shall</u> <u>allow labour for fixing only</u> <u>including all necessary</u> <u>ammenities in connection:</u>				

1	<p>Inverter Single Split Air Conditioners with (four) 4 - way Cassette type Indoor/ Fan Coil Unit:</p> <p>Supply, install, test and commission Single Split Air conditioner of LG Brand or Approved Equivalent. Each Set shall be completed with outdoor air-cooled condensing unit, indoor Cassette type fan coil unit and wired controller/ wireless remote controller,AVS Voltage Surge protector including all supports and associated fittings and accessories.</p> <p>a) Cooling Capacity: 5.2 kW(18 kBtu/h)</p> <p>b) Cooling Capacity: 7.1kW (24000Btu/h)</p> <p>c) Cooling Capacity: 11.2kW (36000Btu/h)</p>				
2	<p><u>Refrigerant Pipes and Fittings to BS 2871</u></p> <p>Supply and install refrigerant copper pipes complete with all associated fittings like elbows etc. and all supports, including amaflex insulation 25mm thick.</p> <p>a) 15.9mm diameter</p> <p>b) 12.7mm diameter</p> <p>c) 9.5mm diameter</p> <p>d) 6.5 mm diameter</p>	No	4		
3	<p><u>Condensate Drainage Pipes(PVC)</u></p> <p>Supply and install condensate drainage PVC pipes complete with associated fittings i.e. tees, elbows reducers etc so as to make the system work perfectly.</p> <p>a) 25mm diameter PVC pipe</p> <p>b) 32mm diameter PVC pipe</p> <p>c) 40mm diameter PVC pipe</p>	m	100		
4	<p>Trunking</p>	m	40		

	Supply and install 120 x 69mm galvanized steel trunking for accommodating external insulated pipe work for outdoor A/C system including corners, joints, wall plates, pipe holders and all necessary fittings.	m	50		
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5	Tray Supply and install 300mm wide, 25mm height and 2.5mm thick, galvanised steel, medium duty, perforated cable tray with necessary supporting frame for supporting refrigerant pipes (horizontal runs) between indoor and outdoor units, complete with all accessories including ties, bolts, nuts and supporting frames on walls/Concrete floor.	m	175		
6	Supply and install the mounting brackets, supports and other fittings for outdoor units	Nos.	9		
7	Wiring a)Supply and install control and power cables between units and DP switch located near the door position. b)Supply and install control and power cables between indoor units and outdoor units located.	m	45		
8	Kitchen exhaust hood Supply, install test and commission stainless steel kitchen hood approximate 1.180 x 1.050 x 0.5m (LxWxH) complete with in-line exhaust fan of capacity 1115m ³ /h at 100Pa static pressure, filters, dry cork,	No	1		

	light, wire mesh and any other necessary accessories to enable the system to work properly.		
8.1	Kitchen Ducting System Supply and install 300mm diameter stainless steel duct complete with all fittings and accessories to ensure the system above is working properly	LM	6
9	TOILETS VENTILATION Exhaust Air Fans: Supply, install, connect, test & commission exhaust air fans, Inline and Wall mounted type each complete with: gravity shutter, electric motor, weather proof housing, controls & all accessories according to drawings & specifications.		
	a) 1110m ³ /hr	No.	2
9.1	Wall grille to protect insect not to enter inside 300 x 250mm	No.	2
10	Toilet Extract Ducting including reducer and fittings		
	a) 300 x 250 mm rectangular straight ducts	LM	8
	b) 250 x 200 mm rectangular straight ducts	LM	8
	c) 150mm diameter round straight ducts	LM	16
	d) 100mm diameter round straight ducts	LM	16
10.1	Supply, install duct reducer as follows:		
	a) 300 x 250mm to 250x200mm	No.	2
10.2	Toilet Flexible Duct		
	a) 150 mm diameter round flexible duct	LM	4
	b) 100 mm diameter round flexible duct	LM	8

10.3	TOILET DISC VALVE				
	Supply and install Disc valve - 300 mm diameter, maximum noise 45 db	No	16		
11	Exhaust Air Fans: Supply, install, connect, test & commission exhaust air fans, Inline and Wall mounted type each complete with: gravity shutter, electric motor, weather proof housing, controls & all accessories according to drawings & specifications.				
11.1	Inline fan with capacity of 11285m ³ /hr	No	1		
11.2	Exhaust Air Ceiling Diffusers: EAD 600 x 600mm	NO	1		
11.3	Duct Works: Supply, install, connect, and test Galvanized steel sheet metal duct work, complete with hangers, supports, volume dampers, fire damper, flexible connections, access door and all accessories, with the dimensions according to the drawings, specification and (SMACNA) standard				
12	Duct size 300mm diameter Supply, install, connect, test & commission exhaust air fans Wall mounted type each complete with: gravity shutter, electric motor, weather proof housing, controls & all accessories according to drawings & specifications. a) 840m ³ /hr b) 1128m ³ /hr	m	36		
	SUB-TOTAL CARRIED FORWARD FOR AIR CONS TYPICAL FLOOR.	NO	2		
		NO	3		

**SERVICES
INSTALLATIONS**

TYPE OF SERVICE: WATER SUPPLY INSTALLATION

ITEM No	DESCRIPTIONS	UNIT	QTY	RATE (TSHS)	TOTAL (TSHS)
1	EXTERNAL/ CORE SERVICES Water supply connection Allow for connection from borehole supply main pipe to water tower/resevor tank, including supply pipe, water meter, valves and other associated fittings.	Item	1		
2	Storage underground tank (Concreat) 40,000 litres	No.	1		
3	Allow for supply and install valves, flanges, pressure ball valve and all necessary fittings for underground water tank	Item	1		
4	Construct, install, test and commission Plastic Water Tanks with capacity of 10m ³ and 5m ³ respectively; complete with Steel Tower as per Engineering Drawings; erected not exceeding 20m above ground level	Item	2		
5	Allow for supply and install valves, flanges, pressure ball valve and all necessary fittings for above water tank	Item	1		
5	Water Pump Supply and install duplicate two water booster pumps each with capacity 6.6m ³ /hr at 15m head, complete with pressure tank, control panel, dry running protection and all necessary accessories, manufactured by Groundfos or similar equal approved. There should be two pumps, one operating and the other standby	Set	1		

6	Allow for supply and install float switches and associated accessories for above installations	Item	1		
7	Water supply Pipe Supply and fix 50mm diameter galvanized steel pipe, complete with fittings and supporting brackets for transferring water from underground to reservoir/water tower	m	35		
8	Supply and fix 100mm diameter galvanized steel pipe connected to water supply network to reservoir/underground tank	m	20		
9	Supply and install 50mm diameter gate valves to support the above installations	No.	2		
10	Supply and fix 40mm diameter galvanized steel pipe, complete with fittings and supporting brackets for transferring water from underground to water tower	No.	100		
11	Supply and install 50mm diameter non-return valves to support the above installations	No.	2		
SUB-TOTAL FOR EXTERNAL SERVICES					

ITEM No	DESCRIPTIONS	TOTAL (TSHS)			
	TYP FLOOR Internal and external service pipework				

	Supply and fix PPR pipe (DiZAYN GROUP) and tubing class "6" to BS 4554 with screwed and socketed joints to BS 143 and 126 of approved manufacture. joints to BS 143 and 126 of approved manufacture.			
1	Pipes			
	a) 20mm diameter	m	40	
	b) 25mm diameter	m	18	
	c) 32mm diameter	m	50	
2	90 ° Elbow			
	a) 32mm	No	6	
	b) 25mm	No	4	
	c) 20mm	No	10	
3	Tee			
	a) 32mm	No	1	
	b) 25mm	No	1	
	c) 20mm	No	4	
4	Reducer			
	a) 40/ 32	No	1	
	b) 32/ 25	No	3	
	c) 25/ 20	No	7	
	d) 20/15	No	9	
5	Gate Valve; B.S.1010; Part 2; wheel head; polished by manufacturer; joints to pipe; both ends screwed male iron			
	a) 32mm	No	1	
	b) 25mm	No	4	
	c) 20mm	No	7	
	d) 15mm	No	30	
6	Supply and install 15mm diameter flexible pipe connectors to wash hand basin (WHB), water closet (WCs), etc.			
	Allow for Supply and install extra pipe fittings and accessories for the above water supply piping	No	30	
7		Item	1	
SUB-TOTAL FOR TYP FLOOR				

**SERVICES
INSTALLATIONS**

TYPE OF SERVICE: FOUL/WASTE WATER DRAINAGE INSTALLATION

ITEM No	DESCRIPTIONS	UNIT	QTY	RATE (TSHS)	RATE (TSHS)
	EXTERNAL/ CORE SERVICES				
	External pipe work				
1	Supply and install 160mm uPVC pipe class "B" according to BS 8301 - 1985 complete with associated fittings	m	30		
2	Supply and install 110mm uPVC pipe class "B" according to BS 8301 - 1985 complete with associated fittings	m	72		
3	Supply and install 100mm uPVC pipe class "B" according to BS 8301 - 1985 complete with associated fittings	m	35		
4	Supply and install 75mm uPVC pipe class "B" according to BS 8301 - 1985 complete with associated fittings	m	32		
5	Allow for Construction of foul/waste water manholes of internal dimension 600 x 600mm with invert level not exceeding 1000mm comprising 200mm plain concrete grade "C" bed 230mm block wall plastered internally as per specification and drawings including heavy duty cast iron cover .	No.	9		
6	Allow for Construction of 200X200mm standard gully trap as per specification and drawings including heavy duty cast iron cover .	No.	5		

7	Excavate trench not exceeding 1000 mm deep and average 500mm wide for laying sawerage pipe not exceeding 160mm diameter including backfilling	m	30		
8	Excavate trench not exceeding 1000 mm deep and average 500mm wide for laying sawerage pipe not exceeding 110mm diameter including backfilling	m	72		
8	Excavate trench not exceeding 1000 mm deep and average 500mm wide for laying sawerage pipe not exceeding 100mm diameter including backfilling	m	35		
9	Construction of faul water septic tank of internal dimension 5330Lx1850Wx1800D mm, of capacity 17700Litres complete with other associated accessories for Administration block	No	1		
10	Construction of faul water soak away pit with internal dimension 3.5m Diameter and 3m Depth complete with all associated accessories for Administration block	No	1		
11	Supply and install Galvanized steel wire ballon set on top of vent pipe and covered with mosquito gauze, 100mm diameter	No	2		
12	Allow for construction of external foul/waste water and storm water drainage systems including all necessary excavations and earthworks	item	1		
SUB-TOTAL FOR CORE SERVICES					

ITEM No	DESCRIPTIONS	UNIT	QTY	RATE (TSHS)	TOTAL (TSHS)
	GROUND FLOOR				

	Soil/waste water and vent pipe work Supply and install all above ground/exposed of class "B" to BS 8301 - 1985 uPVC pipe complete with associated fitting including chasing walls, pipe supports and necessary decoration for exposed pipe work				
1	Pipes; Pipes; fixing with holders to backgrounds requiring plugging a) 100mm diameter, uPVC pipe b) 75mm diameter, uPVC pipe b) 50mm diameter, uPVC pipe b) 40mm diameter, uPVC pipe	m m m m	36 22 20 15		
2	Elbows, 90° a) 100mm diameter, uPVC b) 75mm diameter, uPVC c) 50mm diameter, uPVC d) 40mm diameter, uPVC	No No m m	2 5 6 2		
3	Tee - Y a) 100mm diameter, uPVC b) 75mm diameter, uPVC c) 50mm diameter, uPVC d) 40mm diameter, uPVC	No No No No	6 2 7 6		
4	45° Elbow a) 100mm diameter, uPVC b) 75mm diameter, uPVC c) 50mm diameter, uPVC d) 40mm diameter, uPVC	No No m m	14 3 18 12		
SUB-TOTAL FOR TYP FLOOR					

**SERVICES
INSTALLATIONS**

**TYPE OF SERVICE: FIRE
FIGHTING INSTALLATION**

ITEM No	DESCRIPTIONS	UNIT	QTY	RATE (TSHS)	TOTAL (TSHS)
	EXTERNAL WORKS				

<p>1</p> <p>1.2</p> <p>2</p> <p>3</p>	<p>HOSE REELS</p> <p>Piping Supply install, test and commission in good working condition hose reel pipes and fittings in galvanized heavy grade material to BS 1387 and BS 1256:Pipes and fittings in running length fixed to backgrounds requiring plugging</p> <p>75mm diameter,GI pipe</p> <p>Hose Reel Pump Supply and install automatic fire pumping package with capacity 3.3m³/h including pressure tank, valve, flange, control panel, on and off switch etc. Manufactured by GRUNDFOS or similar approved.Pump to be installed on the roof slab</p> <p>Automatic sprinkler pump comprising two pumps, one electrical and other diesel engine pump each of capacity 12m³/h - 8bar and jockey pump capacity 6m³/hr - 7bar head at characteristics required to suite the system . The pump must be self priming and operate in parralel. Electrical power from the generator must be available to electrical pump through automatic changeover facility.A jockey pump is to be fitted to replenish small losses in the system. The pumps should be installed on a common base complete with all associated accessories like pannel etc</p>	<p>M</p> <p>No.</p> <p>Set</p>	<p>335</p> <p>1</p> <p>1</p>		
	<p>SUB-TOTAL EXTERNAL CORE</p>				
	<p>TYP FLOOR</p>				

1	AUTOMATIC SPRINKLER SYSTEM. Supply install, test and commission in good working condition sprinkler pipes and fittings in galvanized heavy grade material to BS 1387 and BS 1256: Ø 150 mm and Ø 100 mm to be connected with flanges Each floor to have sprinkler head cabinet. All areas without false ceiling to be provided with upright type.		
2	Pipes: Pipes and fittings in running length suspended from concrete soffit, suspension hangers 1 metre apart,		
	a) 25mm diameter,GI pipe	m	140
	b) 32mm diameter,GI pipe	m	490
	c) 60mm diameter,GI pipe	m	100
	d) 75mm diameter,GI pipe	m	30
	e) 80mm diameter,GI pipe	m	50
	f) 100mm diameter,GI pipe	m	48
3	Elbow		
	a) 25mm diameter	No	40
	b) 32mm diameter	No	40
	c) 60mm diameter	m	2
	d) 75mm diameter	m	3
	e) 80mm diameter	m	4
	f) 100mm diameter	m	2
4	Reducing bush		
	a) 32 x 25mm	No	40
	b) 75 x60mm	No	2
	c) 80 x75mm	No	2
	d) 100 x80mm	No	2
5	Union GI		
	a) 25mm	No	40
	b) 32mm	No	48
	c) 80mm	No	3
	d) 100mm diameter	m	2

6	Gate valve			
	a) 25mm diameter	No	42	
	b) 32mm diameter	No	40	
	c) 60mm diameter	No	40	
	d) 75mm diameter	No	2	
	e) 80mm diameter	No	3	
	f) 100mm diameter	No	2	
7	Non return valve			
	Ø 50mm	No	4	
	a) Floor drain valve	No	12	
	b) Floor test sign glass	No	15	
	c) Sprinkler head cabinet	No	5	
8	Sprinkler heads			
	Sprinkler heads with temperature rating of 57°C.	No.	334	
	Supply install, test and commission in good working condition hose reel pipes and fittings in galvanized heavy grade material to BS 1387 and BS 1256: Pipes and fittings in running length fixed to backgrounds requiring plugging			
1	Pipes			
1.1	50mm diameter,GI pipe	m	96	
1.2	25mm diameter,GI pipe	m	12	
2	Elbow			
2.1	50mm diameter	No	6	
2.2	25mm diameter	No	6	
3	Tee			
3.1	a) 50 x 25mm	No	6	
4	Union GI			
4.1	25mm	No	6	
5	Gate valve			
	25mm diameter	No	6	
6	Automatic Fire Hose Reel, swinging type, 25mm diameter hose, 30m long,	No.	6	

7	PORTABLE FIRE EXTINGUISHER			
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7.1	Allow for supply and install Fire extinguisher bottles Dry powder (ABC), 9kg mounted on wall	No.	6		
7.2	Allow for supply and install Fire extinguisher bottles Carbon dioxide (Co2), 6kg mounted on wall	No.	6		
SUB-TOTAL FOR TYP FLOOR					