

LOT No. 4,

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<p><u>ELEMENT NO - 1</u> <u>IGOGO 7 WAREHOUSE</u> <u>SUBSTRUCTURE</u> <u>(ALL PROVISIONAL):</u> <u>Site Preparation:</u> Excavate top soil and remove from the site average 150mm deep</p>	1200	SM		
A.	<p><u>Excavations:</u> Excavate pit to receive bases of stanchions, isolated piers and the like not exceeding 1.50m deep starting at stripped level</p>	75	CM		
B.	<p>over 1.50 but not exceeding 3.00m deep</p>	34	CM		
C.	<p>Excavate trenches to receive foundations not exceeding 1.50m deep starting at stripped level</p>	34	CM		
D.	<p>Extra over all types of excavations irrespective of depth for</p>				
E.	<p>breaking up rock and the like</p>	15	CM		
F.	<p><u>Planking and Strutting:</u> Allow for planking and strutting to uphold and maintain all faces of excavations</p>		ITEM		
G.	<p><u>Disposal of water:</u> Allow for keeping all excations free from all water by pumping, balling or by other means necessary</p>		ITEM		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>Disposal:</u> Surplus excavated materials removing from the site	120	CM		
B.	<u>Imported materials</u> Selected sand fill materials backfilling; depositing and compacting around foundations in layers maximum 250mm thick	850	CM		
C.	250mm selected sand fill; depositing and compacting in layers maximum 200mm thick under hardcore bed	300	SM		
D.	<u>Imported Hardcore</u> To make up level average 200mm thick; levelled, compacted and blinded to receive polythene membrane (m /s)	300	SM		
E.	<u>Soil sterilisation:</u> Gladiator soil sterilisation applied to hardcore beds and top of foundation walls at the rate of 7 litres per square metres	1200	SM		
F.	ditto; applied to backfilling at the rate of 4 litres per metres; 600mm wide	140	LM		
G.	<u>Plain in-situ concrete; nominal mix (1:4:8)</u> Blinding beds; laid on earth 50mm thick	1200	SM		
H.	<u>Plain in-situ concrete; grade 20;</u> Beds; laid on hardcore 150mm thick	1200	SM		

to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>Plain in-situ concrete; grade 20;</u> Steps, stages, ramps and the like; laid on earth or hardcore generally	15	CM		
B.	<u>Reinforced in-situ concrete; grade 25N/sq.mm; vibrated;</u> Ground beams; horizontal irrespective of thickness	64	CM		
C.	Foundations to isolated stanchions or the like irrespective of thickness	54	CM		
D.	Columns generally	28	CM		
E.	Foundation and the like generally	34	CM		
F.	<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	5400	KG		
G.	16mm diameter bars	470	KG		
H.	12mm diameter bars	1571	KG		
J.	10mm diameter bars	409	KG		
	<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				
K.	laid in concrete	1200	SM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Formwork generally:</u>				
A.	Columns; vertical sides generally	232	SM		
B.	Ground beams; vertical sides generally	140	SM		
C.	Strip foundations; vertical sides generally	48	SM		
D.	Column bases; vertical sides generally	120	SM		
E.	Sides or risers of steps or the like over 75 but not exceeding 150mm	72	LM		
F.	Edge of beds over 75 but not exceeding 150mm	140	LM		
	<u>Blockwork; concrete blocks; BS: 2028 type 'A' in cement mortar (1 : 4):</u>				
G.	Walls or partitions 230mm thick	140	SM		
	<u>Damp proof membrane; BS.743; polythene; 1000gauge:</u>				
H.	Horizontal; laid on blinded hardcore over 300mm wide	1200	SM		

	<u>Damp-proof courses;</u> <u>BS.743 type 5A; hessian</u> <u>based; lapped at joints and</u> <u>angles; bedded in cement</u> <u>and sand (1:4); mortar:</u> Horizontal 230mm wide	140	LM		
J.					
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>In-situ finishings; mortar;</u> <u>cement and sand (1:4);</u> <u>trowelled finish; externally:</u> Work to walls and the like generally	140	SM		
B	<u>Tile, slab or block</u> <u>finishings:</u> <u>Approved plinth wall</u> <u>decorative tiles; 15 years</u> <u>guarantee; fixed with</u> <u>adhesives; grouting and</u> <u>pointing in white cement:</u> To walls; jointed straight both ways; to cement and sand base generally	140	SM		
C.	<u>Sundries:</u> <u>Concrete and blockwork</u> <u>sundries:</u> Expansion joint in concrete; formworks 20 x 20mm arbosil 1070 silicone sealant; joint filled with expansion joint material	19	SM		
D.	Expansion joint in blockwork 20 x 20mm arbosil 1070 silicone sealant; joint filled with expansion joint material	74	SM		

	<p><u>The following materials shall be supplied by the Client; the Bidder shall allow labour for fixing only including all necessary amenities in connection:</u></p> <p><u>Metal Works</u></p> <p><u>Unframed structural steel work:</u></p> <p>Base Plates</p> <p>E. 500 x 500 x 12mm thick 32 NO</p> <p>F. 350 x 350 x 12mm thick 6 NO</p> <p>Heavy Duty Bolts;</p> <p>500mm long x 20mm diameter complete with necessary nuts and washers</p> <p>G. 160 NO</p>				
	to collection Shs				

	<p><u>COLLECTION:</u></p> <p>PAGE 1/ 1</p> <p>PAGE 1/ 2</p> <p>PAGE 1/ 3</p> <p>PAGE 1/ 4</p> <p>PAGE 1/ 5</p>	-	-	SHS	
	<p>ELEMENT NO. 1 -</p> <p>SUBSTRUCTURE</p> <p>CARRIED TO SUMMARY</p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<p><u>ELEMENT NO. - 2</u></p> <p><u>FRAME:</u></p> <p><u>FRAMED STRUCTURAL</u></p> <p><u>STEELWORK (ALL</u></p> <p><u>PROVISIONAL)</u></p>				

The following materials shall be supplied by the Client; the Bidder shall allow labour for fixing only including hoisting to positions and all necessary ammenities in connection:

Unframed structural steel work with welded fabrication and bolted site connections including bolting together, hoisting and fixing into position complete with all necessary priming and painting: spanning over 51.00 not exceeding 54.00 metres wide; hoisting over 16.00 not exceeding 18.00 metres above ground level:

Mild steel Grade 43A to BS 449 and BS 4360

A.	U-Beam; size 475 x 191 x 67mm columns; 8.00 metre long	26	PCS
B.	U-Beam; size 365 x 171 x 45mm columns; 12.00 metre long	16	PCS
C.	U-Beam; size 254 x 146 x 31mm columns; 12.00 metre long	27	PCS
D.	U-Beam; size 305 x 165 x 40mm Portal rafters; 12.00 metre long	35	PCS
E.	U-Beam; size 203 x 102 x 23mm Tie beams; 6.00 metre long	21	PCS
F.	Square Hollow Sections; size 50 x 50 x 3mm Jackroof rafters; 6.00 metre long	23	PCS

G.	Rectangular Hollow Sections; size 50 x 25 x 2mm Jackroof bird side frames; 6.00 metre long	23	PCS		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>Bracing:</u> Angle line 60 x 60 x 6mm angle line bracing rods; 6.00 metre long; complete with bolts, nuts and washers	45	NO		
B.	<u>Metal plates, cleats, connections and the like; all mild steel; irrespective of sizes:</u> 2440 x 1220mm overall 10mm thick	5	PCS		
C.	6mm thick overall	12	PCS		
D.	<u>Metal sheet plates & clading rails; all mild steel; irrespective of sizes:</u> 2440 x 1220mm overall 2mm thick	51	PCS		
E.	<u>Tie beam end supports:</u> Generally; 70 x 70 x 8mm thick angle line	1	PC		
to collection Shs					

	COLLECTION: PAGE 1/7 PAGE 1/8				
	ELEMENT NO. 2 - FRAME CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 3</u>				
	<u>WALLS</u>				
	<u>Reinforced in-situ concrete;</u>				
	<u>grade 25N/sq.mm; vibrated:</u>				
A.	Beams and ring beams; horizontal or sloping not exceeding 15 degrees from horizontal generally	6	CM		
	Sills; 75 x 310mm; once sunk weathered, rebated, once throated; reinforced with and				
B.	including BRC 66; finished fair all round; bedding, jointing and pointing in cement mortar (1:4)	140	LM		
	<u>Reinforcement; bars; high</u>				
	<u>tensile hot rolled deformed</u>				
	<u>steel bar reinforcement to</u>				
	<u>B.S.4449: 1969; including</u>				
	<u>tying wire ordinary spacers</u>				
	<u>and distance blocks</u>				
	Straight or bent; in any location				
C.	16mm diameter bars	560	KG		
D.	8mm diameter bars	118	KG		
	<u>Formwork generally:</u>				
	Beams and ring beams; sides and soffits				
E.		73	SM		
	<u>Blockwork; concrete blocks ;</u>				
	<u>BS.2028 type 'A' in cement</u>				
	<u>lime mortar (1:2:9):</u>				
	Walls or partitions				
F.	230mm thick	490	SM		
	to collection Shs				

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>brick solid walling; in cement:lime:sand (1:1:5) mortar</u> Walls or partitions 230mm thick; jointed and pointed with cement mortar externally as work proceed	120	SM		
	to collection Shs				

	COLLECTION : PAGE 1/ 10 PAGE 1/ 11 ELEMENT NO. 3 - WALLS CARRIED TO SUMMARY			SHS	

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 4</u> <u>DOORS</u> <u>(ALL PROVISIONAL) Metal Work:</u> <u>Rolled Plates, Bars, Sections and Tubes</u> Entrance Sliding Steel Door (as per Structural Drawings); comprising 50 x 5 x 3mm Square				

A.	<p>Hollow Section surrounding and primary members; 50 x 25 x 2mm Rectangular Hollow Section cross and intermediate members; infilled with weldable 1.2mm thick bent plates; including guide rails, channels and rollers; complete with all necessary fixing lugs, ironmongeries and one shop coat oxide metal primer</p> <p>5770 x 5810mm high overall size</p> <p><u>Aluminium WINDOW:</u> <u>Purpose made units:</u> <u>Powder coated aluminium framed doors as manufactured by approved manufacturer including all necessary ironmongery;</u> <u>6.38mm thick coloured glass; fixing to grounds; sealing all round with approved mastic; removing protective tape:</u> Cutting and pinning pressed steel door frames to concrete or blockwork as appropriate; fixing to head and sill with screws, plugging</p>	2	NO		
	B.	8	NO		
to collection Shs					

COLLECTION :	SHS	
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	ELEMENT NO. 4 - DOORS CARRIED TO SUMMARY	
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ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>ELEMENT NO - 6</u> <u>ROOFING</u> <u>ROOFING STRUCTURE</u> <u>The following materials shall be supplied by the Client; the Bidder shall allow labour for fixing only including hoisting to positions and all necessary ammenities in connection:</u> <u>Weldable framed structural steel work plain purlins consisting of channel sections site welded and bolted</u>				
A.	150 x 50 x 20 x 2mm Z-purlin; spaced at 600mm centers	180	LM		
B.	12mm diameter bolts; 50mm long complete with nuts and washers	240	NO		
C.	12mm diameter bolts; 30mm long drilled into purlins and the like; complete with nuts and washers	240	NO		
D.	105 x 120 x 60 x 4mm thick purlin angle cleats; complete with bolts, nuts and washers	84	NO		
E.	<u>Bracing:</u> 60 x 60 x 6mm angle line bracing Rods; 6.00 metre long; complete with bolts, nuts and washers <u>Sag rods:</u>	102	NO		

F.	12mm diameter mild steel bars; irrespective of length; complete with nuts and washers	560	LM	
	to collection Shs			

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<p><u>Sundries</u> Additional jointing plates, cleats, bolts, nuts and the like generally</p> <p><u>ROOF COVERINGS</u> <u>Resin coat roofing sheets IT 5 gauge 26 as manufactured by GALCO (T) Ltd of Dar es Salaam - Tanzania or other equal; approved colour; fixed to purlins</u> Coverings; generally sloping not exceeding 45 degrees from horizontal;</p>		ITEM		
B.	<p>Polycarbonate transparent sheets; complete with bolts; nuts, neoplane washers and caps Coverings; to jack roof sloping not exceeding 45 degrees from horizontal;</p>	1640	SM		
C.	<p>crimped to profile complete with bolts; nuts, neoplane washers and caps Cladding; generally sloping not exceeding 45 degrees fixed horizontally</p>	360	SM		
D.	<p>to UB-Columns and Beams complete with bolts; nuts, neoplane, washers and caps</p>	480	SM		

-	<u>Accessories; fixing with galvanised steel bolts; nuts, neoplane washers and caps</u>				
E.	Ridge/Hip capping 650mm girth; 1.2mm thick bent plate	89	LM		
F.	Bird protecting wires expanded wire mesh fixed to SHS complete with bolts, nuts and washers	140	SM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>RAINWATER DISPOSAL</u>				
	<u>RAINWATER INSTALLATIONS</u>				
	<u>Supply and fix the following:</u>				
	<u>Rain water pipework ; unplasticised</u>				
	<u>PVC pipes and fittings Class "B";</u>				
	<u>B.S.4514</u>				
	Pipes; solvent weld straight couplings in the running length; heavy duty; fitted with galvanised steel clips as terrain cat No.2112 at 1200mm to background requiring plugging				
A.	150mm diameter	140	LM		
B.	extra ; elbows	40	NO		
	<u>Gutterwork; pressed steel box complete with gutters fittings; purpose made:</u>				
	Gutters; soldered joints in the running length; fixing with support brackets; painted				
C.	2mm thick	140	SM		

D.	Extra; outlets for 150mm pipes	20	NO		
to collection Shs					

	COLLECTION :	SHS	
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	ELEMENT NO. 6 - ROOFING		
	CARRIED TO SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>ELEMENT NO - 7</u> <u>FINISHINGS FLOOR</u> <u>FINISHINGS</u> <u>In-situ Finishings:</u> <u>Mortar; cement and sand (1</u> <u>: 4) steel trowelled;</u> <u>coloured</u> Work to floors or the like 40mm thick; floors; sloping outward; reinforced with and including coffee tray wire mesh <u>The following materials</u> <u>(Tiles) shall be supplied by</u> <u>the Client; the Bidder shall</u> <u>allow labour for fixing only</u> <u>including all necessary</u> <u>ammunities in connection:</u> <u>Tile, slab or block</u> <u>finishings:</u> <u>Slip less Coloured porcelain</u> <u>floor tiles size</u>	11	SM		

	<u>600 x 600 x 12mm thick</u> <u>ex-Spain to</u> <u>Architect's approval; fixed</u> <u>with adhesives to screed</u> <u>bed to diagonal jointed</u> <u>pattern; grouting and</u> <u>pointing in cement mortar:</u> To floors; butt joints straight both ways; level; to cement and sand base				
B.	generally Skirtings	1200	SM		
C.	100mm high	140	LM		
	<u>WALL FINISHINGS</u> <u>In-situ finishings; internal</u> <u>plastering in two coats;</u> <u>12mm first coat</u> <u>cement/sand (1:4); 2-3mm</u> <u>second coat of PVA</u> <u>polyvinnly alcohol</u> <u>crystallized water proof</u> <u>skimming filler; steel</u> <u>trowelled smooth:</u> Work to walls, beam and the like				
D.	15mm thick	108	SM		
to collection Shs					

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
A.	<u>In-situ finishings; external</u> <u>plastering in two coats;</u> <u>12mm first coat of</u> <u>cement/sand (1:4); steel</u> <u>trowelled smooth:</u> Work to walls and the like 15mm thick	140	SM		
to collection Shs					

	COLLECTION : PAGE 1/ 22 PAGE 1/ 23	SHS	
	ELEMENT NO. 7 - FINISHINGS CARRIED TO SUMMARY		

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	ELEMENT NO - 8 DECORATIONS				
A.	<u>Painting; internal work; one mist coat; two full coats vinly silk acrylic emulsion paint; on plasterd surfaces:</u> Walls generally	490	SM		
B.	<u>Painting; external work; one mist coat; two full coats "weather guard" emulsion paint; on rendered or plastered surfaces:</u> Walls generally	490	SM		
C.	<u>Painting; internal work; one undercoat; three coats oil based paint; eggshell finish; iron or steel surfaces and the like; to steel doors and windows:</u> General surfaces over 300mm girth <u>Prepare and apply one undercoat and two full coats of Red oxide primer paint & Aluminium metal paint to metal surfaces of the Framed Structure</u> Red oxide metal primer	300	SM		

D.	over 300mm girth	134	SM	
E.	over 200 but not exceeding 300mm girth	140	LM	
F.	Aluminium metal paint over 300mm girth	134	SM	
G.	over 200 but not exceeding 300mm girth	140	LM	
				to collection Shs

ITEM	DESCRIPTION	QTY	UNIT	RATE	TOTAL (TSHS)
	<u>Prepare and apply one undercoat and two full coats of Red oxide primer paint & Aluminium metal paint to metal surfaces of the Roofing Sundries:</u>				
A.	Red oxide metal primer	121	LM		
B.	Aluminium metal paint	121	LM		
				to collection Shs	

	COLLECTION : PAGE 1/ 25 PAGE 1/ 26 ELEMENT NO. 8 - DECORATIONS CARRIED TO SUMMARY	<i>SHS</i>	
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	SUMMARY ELEMENT NO. 1 - SUBSTRUCTURES ELEMENT NO. 2 - FRAME ELEMENT NO. 3 - WALLS ELEMENT NO. 4 - DOORS & WINDOWS	<i>TSHS</i>	
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	ELEMENT NO. 5 - ROOFING ELEMENT NO. 6 - FINISHINGS ELEMENT NO. 7 - DECORATIONS <p style="text-align: center;">TOTAL</p> No: of warehouse per lot	
	GRAND TOTAL	