

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
1	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b></p> <p><b><u>BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN BLOCK</u></b></p> <p><b><u>ELEMENT NO.1</u></b></p> <p><b><u>SUBSTRUCTURE</u></b></p> <p><u>(All Provisional)</u></p> <p><u>NOTES</u></p> <p>The Tenderer's attention is drawn to the Preliminaries Contract Particulars Clause 8.0 which states that the Standard Method of Measurement is the June 2008 Edition. Per Clause D5(g) of this S.M.M <b>all excavations in this BoQ have been measured NET and no allowance has been made for working space and the tenderer is shall price for the excavations accordingly.</b></p> <p>Cement for all Structural Works in these Bills of Quantities shall strictly be <b>Grade 42.5</b></p> <p>Cement for Non-Structural Works in these Bills of Quantities shall be <b>Grade 32.5</b></p> <p>All Reinforcement in these Bills of Quantities shall be to BS 4449:1997 with the following characteristic; a) <b>Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm<sup>2</sup></b>; allow for cutting, bending, hoisting and fixing including all necessary trying wires and spacer stools;</p>					

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>SUBSTRUCTURES (CONT'D)</u>					
	<u>Excavations &amp; Earthworks</u>					
A	Excavate to remove top vegetable soil average 150mm deep; remove from site	m2	54			
B	Excavate to reduce levels, not exceeding 1.5 m deep from stripped level	m3	24			
C	Excavate for strip foundations not exceeding 1.5 m deep from reduced level	m3	30			
D	Ditto for Column Bases not exceeding 1.5 m deep from reduced level	m3	15			
E	Allow for keeping excavations free from water by baling or pumping as required including provision of drains, etc., as described	Item				
F	Allow for maintaining and supporting sides of excavations and for keeping free from fallen materials as described	Item				
	<u>Disposal</u>					
G	Backfilling around foundations & columns	m3	9			
H	Load and cart away surplus spoil	m3	14			
	<u>Imported filling</u>					
I	300mm Thick approved hardcore under floor bed well compacted	m2	54			
J	40mm Thick Murram or quarry dust blinding to hardcore	m2	54			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>SUBSTRUCTURES (CONT'D)</u>					
	<u>Damp proof membrane as described :-</u>					
A	1000 Gauge polythene sheet dampproof membrane to horizontal surfaces	m2	54			
	<u>Anti-termite treatment</u>					
B	Chemical anti-termite treatment executed by an approved specialist under a ten-year guarantee to horizontal surfaces of the floor slab and around the plinth, e.t.c.	m2	54			
	<u>Concrete Class ( 1:3:6 ) in 50mm thick blinding under :-</u>					
C	Strip foundations for masonry walling	m2	14			
D	Column bases	m2	16			
	<u>Vibrated reinforced concrete class 20 in:</u>					
E	Colum Bases	m3	4			
F	Columns	m3	1			
G	Strip foundations	m3	3			
H	Ground beams	m3	2			
I	150 mm Thick slab	m2	54			
J	150 mm Ramp	m2	7			
	<b><u>Reinforcement</u></b>					
	<u>Reinforcement to BS 4449:1997 with the following characteristic; a) Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm<sup>2</sup>; allow for cutting, bending, hoisting and fixing including all necessary trying wires and spacer stools</u>					
K	Assorted Bars	Kg	1,950			
	<b><u>Carried to Collection</u></b>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>SUBSTRUCTURES (CONT'D)</u>					
	<u>Steel mesh fabric reinforcement to B.S. 4483</u>					
A	Ref. A142 Layer of fabric mesh reinforcement laid in bed with 150mm side and end laps	m2	54			
	<u>Sawn formwork to:</u>					
B	Sides of column bases	m2	16			
C	Sides of column	m2	12			
D	Sides of strip foundations	m2	18			
E	Sides of ground beams	m2	18			
F	Edges of floor beds 150 - 225mm high	m	32			
	<u>Quarry dressed natural stone walling in cement sand mortar (1:3) with minimum crushing strength of 7.0 N/mm<sup>2</sup></u>					
G	200mm Thick walling	m2	22			
	<u>1000 Gauge polythene sheet damp proof course laid on and including cement sand (1:3) levelling screed</u>					
H	200mm Wide	m	20			
	<u>Cement sand ( 1:4 ) render to :-</u>					
I	12mm Thick render to wall externally	m2	6			
	<u>Prepare and apply two coats of bituminous paint to :-</u>					
J	Rendered walls externally	m2	6			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<p style="text-align: center;"><u>COLLECTION</u></p> <p style="text-align: center;">Page No. 2/1</p> <p style="text-align: center;">Page No. 2/2</p> <p style="text-align: center;">Page No. 2/3</p>					
	<p><b><u>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</u></b></p>				<p><b>KSHS.</b></p>	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b></p> <p><b><u>BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN HOUSE</u></b></p> <p><b><u>ELEMENT NO.2</u></b></p> <p><b><u>RC SUPERSTRUCTURE</u></b></p> <p><u>Concrete Class 20mm in:-</u></p>					
A	Columns	m3	3			
	<u>Concrete Class 20mm in:-</u>					
B	Ring beams	m3	2			
C	200mm thick R.C walling	m3	4			
	<b><u>Reinforcement; as before described</u></b>					
D	Assorted Bars	Kg	900			
	<u>Sawn formwork to :-</u>					
E	Vertical sides of columns	m2	40			
F	Sides and soffites of Ring beams	m2	20			
G	Sides of R.C wall	m2	49			
	<p><b><u>TOTAL FOR RC SUPERSTRUCTURE</u></b></p> <p><b><u>CARRIED TO SUMMARY</u></b></p>				<b>KSHS.</b>	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON ELEMENT NO.4</u></b>					
	<b><u>ROOF CONSTRUCTION, COVERINGS AND RAINWATER DISPOSAL</u></b>					
	<b><u>ROOF CONSTRUCTION</u></b>					
A	Gauge 30 prepainted roof sheet cover	m2	110			
B	Ditto 450mm wide ridge/hip cover	m	18			
C	Raking cutting roofing sheets	m	14			
	<u>All in unframed steel work</u>					
D	75x75x4mm S.H.S in rafters	m	182			
E	Ditto tie beams	m	84			
F	Ditto hip rafters	m	77			
G	25x25x2mm struts and ties	m	178			
H	100x50x2mm z purlins	m	168			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<u>ROOF(CONT'D)</u>					
	<u>Rain water goods</u>					
	<u>Gutters</u>					
A	150mm diameter R.C gutters fixed on walls	m	42			
B	Extra over gutter for stopped ends	no	2			
C	Ditto but for 100mm diameter outlet	no	2			
	<u>Down pipes</u>					
D	100mm diameter medium duty p.v.c down pipes clipped holder buttsto wall with and including	m	12			
E	Extra over downpipe for swanneck 1200mm long	no	2			
F	Ditto horse shoe 300mm long	no	2			
	<u>Carried to Collection</u>				Kshs.	



ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<u>(ROOF CONT'D)</u>					
	<u>COLLECTION</u>					
	Page No. 2/1					
	Page No. 2/2					
	Page No. 2/3					
	<u><b>TOTAL FOR ROOF CARRIED TO SUMMARY</b></u>			<b>KSHS.</b>		

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b>  <b><u>BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN HOUSE</u></b></p> <p><b><u>ELEMENT NO. 5</u></b></p> <p><b><u>EXTERNAL WALLS AND BALUSTRADES</u></b></p> <p><u>Approved local natural stonework; squared and machine dressed;bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u></p>					
A	200mm Thick walls	m2	58			
B	200mm Thick perforated block	m2	42			
	<u>Damp proof course</u>					
C	200mm wide	m	33			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<u>EXTERNAL WALLS (CONT'D)</u>					
	<u>Carried to Collection</u>				Kshs.	
	<u>COLLECTION</u>					
	Page No. 2/1					
	Page No. 2/2					
	<b><u>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</u></b>				<b>KSHS.</b>	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN HOUSE</u></b></p> <p><b><u>ELEMENT NO. 6</u></b></p> <p><b><u>INTERNAL WALLS</u></b></p> <p><u>Approved local natural stonework; squared and machine dressed;bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u></p>					
A	200mm Thick walls	m2	18			
	<u>Damp proof course</u>					
B	200mm wide	m	6			
	<u>Carried to Collection</u>			Kshs.		

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
	<u>INTERNAL WALLS (CONT'D)</u>					
	<u>Carried to Collection</u>				Kshs.	
	<u>COLLECTION</u>					
	Page No. 2/1					
	Page No. 2/2					
	<b><u>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</u></b>				<b>KSHS.</b>	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.
A	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b></p> <p><b><u>BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN HOUSE</u></b></p> <p><b><u>ELEMENT NO. 8</u></b></p> <p><b><u>DOORS</u></b></p> <p><u>Steel Doors</u></p> <p><u>Supply and fix the following double steel casement door fabricated from 50mm x 25mm x 3mm thick Rectangular Hollow Section ( R.H.S) mild steel framing infilled with 14 gauge mild steel sheet factory primed in red oxide or zinc chromate primer including 6mm thick clear glass infill complete with all necessary purpose made ironmongery, and locks to Architect's details and approval</u></p> <p>Size 2000 x 2400 mm high door</p> <p style="text-align: center;"><u>Carried to Collection</u></p>	No.	2		Kshs.

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.
	<u>DOORS (CONT'D)</u>				
	<u>Ironmongery</u>				
	<u>Supply and fix the following ironmongery as applicable or equal and approved ironmongery with matching</u>				
A	Rubber door stoper	Set	2		
	<u>Touch up primer,prepare and apply three coats of gloss oil paint to</u>				
B	Metal surfaces	m2	20		
	<u>Carried to Collection</u>			Kshs.	
	<u>COLLECTION</u>				
	Page No. 2/1				
	Page No. 2/2				
	<b><u>TOTAL FOR DOORS CARRIED TO SUMMARY</u></b>			<b>KSHS.</b>	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b></p> <p><b><u>BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN HOUSE</u></b></p> <p><b><u>ELEMENT NO. 9</u></b></p> <p><b><u>EXTERNAL FINISHES</u></b></p> <p><b><u>Floor Finishes</u></b></p> <p><u>Cement Sand (1:4) screed as described</u></p>					
A	40 mm Thick finished to receive tiles	m2				
	<u>Supply and fix with and including Sika Ceramic 100g grey adhesive and grouting with Sika tile grout and pointing to match. Rate to include breakage and cutting waste</u>					
B	400 x 400 mm Ceramic tiles in patterns as directed	m2				
C	100 mm Skirting tile <b>cut out of tiles above</b>	m				
	<u>Paving Slab</u>					
D	600 x 600 mm thick paving slab as directed	m2	32			
	<u>Cement and sand (1:4) render</u>					
E	12mm Thick plaster to walls	m2	46			
	<u>Prepare and apply two coats matt emulsion paint to</u>					
F	Plastered surfaces externally	m2	46			
	<u>Carried to Collection</u>				Kshs.	



ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>EXTERNAL FINSHES (CONT'D)</u>					
	<u>Carried to Collection</u>				Kshs.	
	<u>COLLECTION</u>					
	Page No. 2/1					
	Page No. 2/2					
	<b><u>TOTAL FOR EXTERNAL FINISHES CARRIED TO SUMMARY</u></b>				<b>KSHS.</b>	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b></p> <p><b><u>BILLS OF QUANTITIES</u></b></p> <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>MAIN HOUSE</u></b></p> <p><b><u>ELEMENT NO.10</u></b></p> <p><b><u>INTERNAL FINISHES</u></b></p> <p><b><u>Floor Finishes</u></b></p> <p><u>Cement Sand (1:4) screed as described</u></p>					
A	20 mm Thick screed	m2	54			
B	<p>Supply and fix with and including Sika Ceramic 100g grey adhesive and grouting with Sika tile grout and pointing to match. Rate to include breakage and cutting waste</p> <p>300 x 300 mm ceramic floor tiles in patterns as directed</p>	m2				
C	100 mm Skirting tile <b>cut out of tiles above</b>	m				
D	<p><u>Cement, sand, lime (1:2:9) in :-</u></p> <p>12 mm Thick plaster to masonry or concrete surfaces</p>	m2	80			
	<u>Carried to Collection</u>			Kshs.		

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>Painting and Decorating</u>					
	<u>Prepare and apply two coats internal quality matt emulsion paint to:-</u>					
A	Plastered wall surfaces	m2	80			
	<u>Ceiling Finishes</u>					
	<u>Chipboard ceiling</u>					
B	Chipboard ceiling	m2	54			
C	Provide and fix 50x50mm cornices	m	102			
D	Branding size 50x50mm	m	296			
	<u>Prepare and apply two coats internal quality matt</u>					
E	soffits of chipboard	m2	54			
	<u>Carried to Collection</u>				Kshs.	
	<u>COLLECTION</u>					
	Page No. 2/1					
	Page No. 2/2					
	<b><u>TOTAL FOR INTERNAL FINISHES CARRIED TO SUMMARY</u></b>				<b>KSHS.</b>	

ITEM NO.			SHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND INDUSTRY ON PLOT NO , KISUMU COUNTY</u></b></p>			
	<p><b><u>BILLS OF QUANTITIES</u></b></p>			
	<p><b><u>SECTION NO. 2</u></b></p>			
	<p><b><u>MAIN HOUSE</u></b></p>			
	<p><b><u>SUMMARY</u></b></p>	<p><b><u>PAGE NO.</u></b></p>		
1.	SUBSTRUCTURES	2/5		
2.	RC SUPERSTRUCTURE	2/6		
3	EXTERNAL WALLS	2/2		
4	INTERNAL WALLS	2/3		
5	ROOF	2/15		
6	DOORS	2/20		
7	EXTERNAL FINISHES	2/22		
8	INTERNAL FINISHES	2/24		
	<p><b><u>TOTAL FOR MAIN BLOCK CARRIED TO MAIN SUMMARY</u></b></p>	<p><b>KSHS.</b></p>		

ITEM NO.	DESCRIPTION	UNIT	QTY.	KSHS.	CTS.
	<u><b>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND BILLS OF QUANTITIES SECTION NO. 3</b></u>				
	<u><b>MAIN HOUSE PRIME COST AND PROVISIONAL SUMS PRIME COST SUMS</b></u>				
A	Allow the Prime Cost Sum of Kenya Shillings One Hundred and Fifty Thousand for Electrical works		Sum	150,000	00
B	Allow the Prime Cost Sum of Kenya Shillings One Hundred Thousand for Contingencies		Sum	100,000	00
C	Allow the Prime Cost Sum of Kenya Shillings Eighty Thousand for Project Management		Sum	80,000	00
	<u><b>TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO SUMMARY</b></u>		<b>KSHS.</b>	<b>330,000</b>	<b>00</b>

ITEM NO.			SHS.	CTS.
	<p><b><u>PROPOSED GENERATOR HOUSE FOR DEPARTMENT OF AGRICULTURE,LIVESTOCK AND FISHERIES AND BUSINESS,ENERGY AND</u></b></p> <p><u>MAIN SUMMARY</u></p> <p>1. PRELIMINARIES</p> <p>2. MAIN HOUSE</p> <p>3. PROVISIONAL SUMS</p> <p><b><u>TOTAL CARRIED TO FORM OF TENDER</u></b></p>	<p><u>PAGE NO.</u></p> <p>1/26</p> <p>2/25</p> <p>3/1</p> <p><b>KSHS.</b></p>		