

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
1	<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>BILLS OF QUANTITIES</u></p> <p><u>SECTION NO. 2</u></p> <p><u>ELEMENT NO.1</u></p> <p><u>SUBSTRUCTURE</u></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 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.</p> <p>Cement for all Structural Works in these Bills of Quantities shall strictly be Grade 32.5</p> <p>Cement for Non-Structural Works in these Bills of Quantities shall be Grade 32.5</p> <p>All Reinforcement in these Bills of Quantities shall be to BS 4449:1997 with the following characteristic; a) Grade 460 B high strength type 2 Ribbed bars with proof stress of 460N/mm²; 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 & Earthworks</u>					
A	Excavate to remove top vegetable soil average 150mm deep; remove from site	m2	72			
B	Excavate to reduce levels, not exceeding 1.5 m deep from stripped level	m3	38			
C	Excavate for strip foundations not exceeding 1.5 m deep from reduced level	m3	21			
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	21			
H	Load and cart away surplus spoil	m3	11			
	<u>Imported filling</u>					
I	300mm Thick approved hardcore under floor bed well compacted	m2	72			
J	40mm Thick Murram or quarry dust blinding to hardcore	m2	72			
	<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	72			
	<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	72			
	<u>Concrete Class (1:3:6) in 50mm thick blinding under :-</u>					
C	Strip foundations for masonry walling	m2	30			
D	Column bases	m2	12			
	<u>Vibrated reinforced concrete class 25 in:</u>					
E	Colum Bases	m3	2			
F	Columns	m3	1			
G	Strip foundations	m3	4			
H	150 mm Thick slab	m2	72			
	<u>Reinforcement</u>					
	<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/mm²; allow for cutting, bending, hoisting and fixing including all necessary tying wires and spacer stools</u>					
I	Assorted Bars	Kg	600			
	<u>Carried to Collection</u>				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	72			
	<u>Sawn formwork to:</u>					
B	Sides of column bases	m2	14			
C	Sides of column	m2	12			
D	Sides of strip foundations	m2	24			
E	Edges of floor beds 150 - 225mm high	m	48			
	<u>Quarry dressed natural stone walling in cement sand mortar (1:3) with minimum crushing strength of 7.0 N/mm²</u>					
E	200mm Thick walling	m2	49			
	<u>1000 Gauge polythene sheet damp proof course laid on and including cement sand (1:3) levelling screed</u>					
G	200mm Wide	m	42			
	<u>Cement sand (1:4) render to :-</u>					
H	12mm Thick render to wall externally	m2	30			
	<u>Prepare and apply two coats of bituminous paint to :-</u>					
I	Rendered walls externally	m2	30			
	<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><u>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</u></p>				<p>KSHS.</p>	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL- KISUMU EAST</u> <u>BILLS OF QUANTITIES</u> <u>SECTION NO. 2</u> <u>ELEMENT NO.2</u> <u>RC SUPERSTRUCTURE</u> <u>Concrete Class 25mm in:-</u>					
A	Columns	m3	2			
	<u>Reinforcement; as before described</u>					
B	8mm diameter bars	Kg	106			
C	12mm diameter bars	Kg	112			
	<u>Sawn formwork to :-</u>					
D	Vertical sides of columns	m2	24			
E	102 mm diameter x 3 mm thick CHS columns in 24 NO exceeding 5 kg/m but not exceeding 10 kg/m welded and bolted to cap and base plates (7.33 kg/m)	KG	465			
	<u>TOTAL FOR RC SUPERSTRUCTURE CARRIED TO SUMMARY</u>					

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A	<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>BILLS OF QUANTITIES</u></p> <p><u>SECTION NO. 2</u></p> <p><u>ELEMENT NO. 5</u></p> <p><u>EXTERNAL WALLS</u></p> <p><u>Concrete block walling;bedded in cement mortar (1:4); reinforced with 25mm wide x 20mm gauge hoop iron strapping every alternate course</u></p> <p>200mm Thick walls</p>	m2	60			
	<p><u>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</u></p>			KSHS.		

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	<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>BILLS OF QUANTITIES</u></p> <p><u>ELEMENT NO.4</u></p> <p><u>ROOF CONSTRUCTION, COVERINGS AND RAINWATER DISPOSAL</u></p> <p><u>ROOF CONSTRUCTION</u></p> <p><u>The following in sawn softwood timber including fabricating, hoisting and fixing in position approximately 12,000mm above ground floor level as per Structural Engineer's drawing</u></p> <p><u>Sawn cypress</u></p> <p><u>Rates to include all necessary bolting and/or nailing</u></p>					
A	100 x 50 mm rafters	m	223			
B	100 x 75 mm Tie beams	m	110			
D	75 x 50 mm Purlins	m	97			
E	75 x 50 mm Struts & Ties	m	117			
F	225mm x 38mm thick fascia board fixed onto ends of rafters	m	114			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>ROOF(CONT'D)</u>					
	<u>ROOF COVERINGS</u>					
A	Roof covering as 28 gauge roofing Sheet including roof vents to suppliers recommendations	m2	369			
B	ridge board to match roof sheet	m	46			
C	600 mm wide ditto valley flashing four times bent	m	10			
D	Extra over roofing sheet for raking cutting	m	11			
	<u>Prepare surfaces and apply one coat of aluminium wood primer and two finishing coats of gloss oil paint on:</u>					
E	General Metal surfaces	m2	110			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>ROOF(CONT'D)</u>					
	<u>Rainwater goods</u>					
A	200mm wide x 200mm deep (<i>600mm girth</i>) prepainted gauge 24 galvanised iron gutter fixed onto fascia board with approved mild steel straps at every 1,000mm centres	m	48			
B	Extra over ditto for stopped ends	No.	2			
C	Ditto for forming 150mm x 150mm hole for down	No.	2			
D	150mm x 150mm prepainted gauge 24 galvanised iron rain water down pipe fixed onto walls with approved mild steel support brackets at 1,000mm centres	m	8			
	<u>Carried to Collection</u>				Kshs.	

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	<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>BILLS OF QUANTITIES</u></p> <p><u>SECTION NO. 2</u></p> <p><u>ELEMENT NO. 7</u></p> <p><u>WINDOWS</u></p> <p><u>STEEL WINDOWS</u></p> <p><u>Supply and fix the following purpose made casement windows comprising of 50 x 50 x 16 G and 25 mm "Z" section framing including all coupling mullions etc;and complete with bronze handles ,peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs ; bedding in cement and sand (1:3) mortar , pointing all round frames in mastic ,easing ,oiling and adjusting opening lights on completion, including 4 mm glazing; All as per the architect's Schedule of windows</u></p>					
A	Size 1200 x 1000 mm high	No.	8			
B	Size 1200 x 600 mm high	No.	8			
	Plate					
C	4mm thick metal plate to windows	SM	32			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY.	RATE	KSHS.	CTS.
<u>WINDOWS (CONT'D)</u>						
<u>Precast concrete weathered and throated window cills</u>						
A	Window cill over all size 275 x 100 mm high with 3 No	m	21			
B	Prepare and apply three coats gloss paint to windows	m2	32			
<u>Carried to Collection</u>				Kshs.		
<u>COLLECTION</u>						
Page No. 2/1						
Page No. 2/2						
<u>TOTAL FOR WINDOWS CARRIED TO SUMMARY</u>				KSHS.		

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>BILLS OF QUANTITIES</u></p> <p><u>SECTION NO. 2</u></p> <p><u>ELEMENT NO. 8</u></p> <p><u>DOORS</u></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>					
A	Size 1200 x 2400 mm high door	No.	6			
B	<p><u>Glazing</u></p> <p>4mm thick clear glass to doors</p>	SM	16			
	<u>Carried to Collection</u>			Kshs.		

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	<u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO. 9</u>					
	<u>EXTERNAL FINISHES</u>					
	<u>Floor Finishes</u>					
	<u>Cement Sand (1:4) screed as described</u>					
A	20 mm Thick finished to receive ceramic floor tiles	m2	78			
	Terrazzo floor finishes					
B	12mm thick terrazzo floor finishes as directed by the Architect.	m2	78			
C	100 mm high terrazzo Skirting	m	52			
D	3 mm x 25 mm deep plastic dividing strips of approved colour in floor (provisional)	m	110			
	<u>Cement and sand (1:4) render</u>					
E	12mm Thick plaster to walls,exposed beams and columns	m2	61			
	<u>Prepare and apply two coats matt emulsion paint to</u>					
F	Plastered surfaces externally	m2	254			
	<u>Carried to Collection</u>				Kshs.	

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

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
	<u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u>					
	<u>BILLS OF QUANTITIES</u>					
	<u>SECTION NO. 2</u>					
	<u>ELEMENT NO.10</u>					
	<u>INTERNAL FINISHES</u>					
	<u>Floor Finishes</u>					
	<u>Cement Sand (1:4) screed as described</u>					
A	20 mm Thick finished to receive ceramic floor tiles	m2	262			
	<u>Terrazzo floor finishes</u>					
	12mm thick terrazzo floor finishes as directed by the Architect.	m2	262			
B						
C	100 mm high terrazzo Skirting	m	172			
D	3 mm x 25 mm deep plastic dividing strips of approved colour in floor (provisional)	m	587			
	<u>Cement, sand, lime (1:2:9) in :-</u>					
E	12 mm Thick plaster to masonry or concrete surfaces	m2	61			
	<u>Carried to Collection</u>				Kshs.	

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	KSHS.	CTS.
A	<u>Painting and Decorating</u> <u>Prepare and apply two coats internal quality matt emulsion paint to:-</u> Plastered wall surfaces	m2	478			
<u>Carried to Collection</u>				Kshs.		
<u>COLLECTION</u>						
Page No. 2/1						
Page No. 2/2						
<u>TOTAL FOR INTERNAL FINISHES CARRIED TO SUMMARY</u>				KSHS.		

ITEM NO.			SHS.	CTS.
	<u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u>			
	<u>BILLS OF QUANTITIES</u>			
	<u>SECTION NO. 2</u>			
	<u>SUMMARY</u>	<u>PAGE NO.</u>		
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5	WINDOWS	2/2		
6	DOORS	2/2		
7	EXTERNAL FINISHES	2/4		
8	INTERNAL FINISHES	2/6		
	<u>TOTAL FOR MAIN BLOCK CARRIED TO MAIN SUMMARY</u>	KSHS.		

ITEM NO.	DESCRIPTION	UNIT	QTY.	KSHS.	CTS.
	<u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u>				
	<u>BILLS OF QUANTITIES</u>				
	<u>SECTION NO. 3</u>				
	<u>PRIME COST AND PROVISIONAL SUMS</u>				
	<u>PRIME COST SUMS</u>				
A	Allow a Prime Cost Sum of Kenya Shillings Fifty Thousand for Electrical works		Sum	50,000	00
B	Allow a Prime Cost Sum of Kenya Shillings Fifty Thousand for Project Committee		Sum	50,000	00
C	Allow a Prime Cost Sum of Kenya Shillings One Hundred Thousand for Contingency		Sum	100,000	00
D	Allow a Prime Cost Sum of Kenya Shillings Twenty Thousand for Renovation of 6No Blackboard		Sum	20,000	00
E	Allow a Prime Cost Sum of Kenya Shillings One Hundred Thousand for Design/Supervision/Project Management		Sum	100,000	00
F	Allow a Prime Cost Sum of Kenya Shillings Ten Thousand for Publicity signage and Branding		Sum	10,000	00
G	Allow a Prime Cost Sum of Kenya Shillings Forty Thousand for Repair to walls,plaster and Demolition to Doors, windows and walls		Sum	40,000	00
	<u>TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO SUMMARY</u>		KSHS.	370,000	00

Item	Description	Qty	Unit	Rate	Amount	CTS.
<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>TRADE FENCING</u></p>						
A	2.1 high 16 gauge chainlink with 18 gauge x 6 strands steel galvanized barbed wire fencing with 100 dia (100*100) concrete posts, mass concrete 1:3:6 including all excavation in all materials, backfilling, disposal, formwork all inclusive.	410	LM			
B	Extra over ditto for end posts with diagonal braces	9	NO			
C	Ditto corner posts	9	NO			
D	Ditto intermediate posts	11	NO			
<p><u>GATES</u></p>						
E	Double leaf metal gate overall size 6000mm x2100 mm high comprising 75mmx50mm R,H,S framing all round,divided by 2NO 75x50mm mullion	1	NO			
Total carried to collection						

ITEM NO.			SHS.	CTS.
	<p><u>PROPOSED RENOVATION OF 6NO CLASSROOMS AND FENCING AT KASAGAM PRIMARY SCHOOL-KISUMU EAST</u></p> <p><u>MAIN SUMMARY</u></p> <p>1. PRELIMINARIES</p> <p>2. BUILDER'S WORKS</p> <p>3. PROVISIONAL SUMS</p> <p>4. CHAINLINK FENCE</p> <p>SUB-TOTAL</p> <p>ADD 16% VAT</p> <p><u>TOTAL CARRIED TO FORM OF TENDER</u></p>	<p><u>PAGE NO.</u></p> <p>1/26</p> <p>2/25</p> <p>3/1</p> <p>4/1</p> <p>KSHS.</p>		

EMPLOYER:

CONTRACTOR

NAME:

NAME:

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ADDRESS:

ADDRESS:

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SIGNATURE:

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DATE:

DATE: