

MUKERENJU DAY SEC. SCHOOL
CONSTRUCTION AND COMPLETION OF A 2NO.CLASSROOM /STAIRCASE AND ROOFING

		QTY	RATE	UNIT	AMOUNT
	REINFORCED CONCRETE AND WALLING				
	REINFORCED CONCRETE				
	Vibrated reinforced concrete (1:2:4/20-20mm aggregate) as described in:				
A	Ring Beams	5	13000	cm	65000
B	Columns	9	13000	cm	117000
C	150mm thick Stair landings/staircase	5	13000	cm	65000
	Steel reinforcement				
	Bar/rod reinforcement including bending hooks, tying wire, cutting spacer blocks and supporting all in position.				
	(Measured nett-allow for laps).				
	High tensile square twisted bars to B.S. 4461 as described in				
D	16mm diameter	695	175	kg	162050
E	12mm diameter	1252	175	kg	219100
	8mm ² diameter	699	175	kg	112325
	Supply and fix sawn formwork as described to				
	Sides and soffits of ringbeams	148	540	sm	79920
	Sides of columns	156	540	sm	84240
	Soffits and edges of staircase landings	21	540	sm	11340
	Sloping edges and soffits of staircase	9	540	sm	4860
F	WALLING				
G	Damp proofing				
H	200mm wide hessian based damp proof course leveled with				
I	1:4cement/sand mortar	86	150	lm	12900
	external walling				
J	200mm thick natural stone walling bedded and jointed in				
K	cement/sand(1:3)mortar fine chisel dressing and reinforced				
L	with and including 20swg×25mm wide hoop iron in every	289	1700	sm	491300
M	alternate course				
N	150mm thick natural stone walling bedded and jointed in				
	cement/sand with 20swgby25mm hoop iron in every	0	0	sm	0
	alternative course.				
	Extra over walling externally for horizontal recessed joints				
	pointed wit cement/sand (1:3) mortar and vertical flush joints	154	250	sm	38500
	Permanent vents				
	1. 25mm thick precast cement/sand (1:4) grilled vent				
	block size 200×200mm fixed in pairs to walls, with	13	250	prs	3250
	mosquito proof gauge wire in between including				
	bedding all around in cement/sand (1:3)				
					<u>1453885</u>
	TOTAL SUMMARY				
	MSS/FF/01				

DISTRICT WORKS OFFICER
KANDARA DISTRICT

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		QTY	RATE	UNIT	AMOUNT
	<u>ROOFING AND RAIN WATER DISPOSAL</u>				
	<u>All timber to be sawn cypress of G.S grade well seasoned and to the requirement of K.S 02 771 of 1991 and treated with approved wood preservative</u>				
A	100 x 50mm thick wall plate on including 10mm cement/sand (1:4) mortar bed secured to natural stone wall (m.s) by mild steel anchor bolts 12mm diameter x 300mm long at 900mm c/c	48	380	lm	18240
	75 x 50mm purlins	288	350	lm	100800
B	<u>The following innailed timber trusses including hoisting and placing 2700mm above floor slab level.</u>				
C	100mm x 50mm truss rafter	168	380	lm	63840
D	Ditto tie beam	142	380	lm	53960
E	Ditto kingpost	28	380	lm	10640
F	100mm x 50mm underpurlin	40	380	lm	15200
G	100 x 50mm strut/tie	210	380	lm	79800
H	200mm by25mm fascia board	74	380	lm	28120
	<u>Covering</u>				
I	Prepainted 28 gauge galavanized corrugated iron sheets of approved profile nailed to purlins (m.s) with and including 100mm long galvanized roof nails, 150mm end laps and 1½ corrugations side laps	350	1300	sm	455000
J	Half round ridge covers	25	400	lm	10000
	<u>Rain water disposal</u>				
K	The following in galvanized steel sheet 24gauge				
	200mm diameter aluzinc or other equal and approved eaves gutter fixed with mild steel/plastic clips at 600mm centers to fascia(m.s)	46	700	lm	32200
L	Extra over gutter for 100mm diameter water outlet	2	400	no.	800
M	Dotto stopped ends				
N	100mm diameter aliuzinc downwipe fixed to wall withholder butts at 1000mm centers	16	500	lm	8000
O	Extra over downpipe for 100mm diameter water shoe	2	400	no.	800
P	Ditto swan neck outlet	2	400	no.	800
	<u>TOTAL SUMMARY</u>				<u>868600</u>
	<u>MSS/FF/02</u>				

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		QTY	RATE	UNIT	AMOUNT
	<u>WINDOWS</u>				
	<u>Fabricate and fix the following purpose made mild steel windows in heavy duty Z and T sections complete with grillework (16mm diameter bars), stays, fasteners, lugs, hoistings and fixinf in position including bedding frame all round with cement/sand mortar; casements primed before fixing.</u>				
A	Size 1500 x 1400mm high	11	15000	NO.	165000
	<u>Fix the following window sill</u>				
B	250 x 75mm thick moulded precast concrete window sill weathered and throated, reinforced as necessary, finished fair faced including hoisting and bedding in cement / sand (1:3) mortar	17	500	LM	8500
	<u>Glazing</u>				
	<u>5mm thick clear sheet glass in metal putty in:</u>				
C	Panes exceeding 0.1sm but not exceeding 0.5sm	23	1800	SM	41400
	<u>Prepare and apply only three coats of super gloss paint to</u>				
D	General surfaces of glazed window casements and grilles (both sides measured flat overall), internally and externally	23	250	SM	5750
	<u>DOORS</u>				
	<u>Steel casement doors</u>				
E	The following purpose mild steel double leaf door overall size 1300 x 2400mm high double leaf complete with and including glazing as approved, in heavy duty Z T rectangular hollow sections and 16mm diameter bar grills with stays, fasteners, lugs and 3 lever mortice lock as "Union" or equal and approved, top, mid level and bottom bolting; hoisting and fixing in position including bedding frame all round with cement/sand mortar (1:3), casement brass hinges two lever mortice locks.	2	24500	NO.	49000
F	<u>Ditto.but 900mmby2400mm.high</u>	1	14000	NO.	14000
	<u>PAINTING</u>				
G	<u>Prepare and apply one under coat and three coats super gloss oil paints as Duracoat or equivalent to;</u> General surfaces of steel door casements,internally and externally(both sides measured flats)	16	250	SM	4000
	<u>Ballustrading</u>				
H	<u>38mmby52000mmby3mm. thick hand and bottom rail grouted to concrete columns,with 38mmby1100mm high at 1000mm centers columns grouted to slab concrete,15mm.900mm. high square tubes welded at 150mm centers to hand and bottom rail,paint</u>	52	4000	sm	208000
	<u>TOTAL SUMMARY</u>				<u>495650</u>
	MSS/FF/03				

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	FINISHES	QTY	RATE	UNIT	AMOUNT
	<u>FLOOR FINISHES</u>				
	<u>Cement /sand screed (1:4) as described in:</u>				
A	38mm.Thick cement/sand/lead oxide steel troweled smooth on the surfaces of floor.	199	540	sm	107460
B	Ditto. but to the treads,raisers and landing (Front/rear staircase)	14	400	sm	5600
	<u>WALL</u>				
C	12mm thick two coats gauged cement, lime and sand (1:2:9) plaster steel trowelled smooth to walls internally	339	400	sm	135600
D	Ditto. To window/door reveals	84	100	lm	8400
E	Ditto to sloping soffitis of staircase(front and rear)	18	540	sm	4860
	<u>EXTERNAL FINISHES</u>				
	15mm thick cement/sand mix (1:3) wood floated render externally				
F	Walls	18	400	sm	7200
G	Reveals(doors/windows)	84	100	Sm	8400
H	Ring beam/columns	71	400	sm	28400
	<u>PAINTING</u>				
	<u>Prepare and apply only one undercoat and three coats of prime grade paint as "Duracoat" or other equal and approved to:</u>				
	<u>Plastered surfaces in:</u>				
J	Walls	339	250	sm	84750
K	Reveals	84	80	sm	6720
L	Soffitis of staircase landings	21	250	sm	5250
M	Sloping soffitis of staircase	18	250	sm	4500
	<u>EXTERNALLY</u>				
	<u>Prepare and apply only one undercoat and three coats of prime grade silk vinyl paint as CROWN or any other equal and approved to:</u>				
N	Walls	18	250	sm	4500
O	Columns/pillars/ringbeam extrnaly.	71	250	sm	17750
P	Reveals	84	80	sm	6720
Q	Fasciaboard	82	100	sm	8200
	TO SUMMARY				<u>444310</u>
	MSS/FF/04				

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SUMMARY					
R.CONCRETE/WALLING	MSS/01				1453885.00
ROOFING AND WATER DISPOSAL	MSS/02				868600.00
WINDOWS/DOORS	MSS/03				495650.00
FINISHES	MSS/04				444310.00
TOTAL BUILDERS WORK					<u>326244500</u>
Allow Kenya shillings one hundred fifty thousand only for					150000.00
Allow Kenya shillings ten thousand only for BoQ preparation					10000.00
Allow Kenya shillings one hundred twenty shillings only for Electrical wiring.					120000.00
Allow Kenya shillings sixty thousand only for contingencies.					60000.00
					<u>3602445.00</u>
TOTAL COST OF WORK				SAV	<u>3602450.00</u>