BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF ADMINISTRATION BLOCK AT ORKUNGU PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	ELEMENT NO.1 **SUBSTRUCTURES** **ALL PROVISIONAL.** **EXCAVATIONS AND EARTH WORKS** **Site clearance**				
A.	Clear site of all bushes, shrubs and undergrowth, up root and burn all the arising	M^2	286		
B.	Excavate vegetable soil average 200mm deep and cart away as directed.	M^2	474 286		
C.	Excavate foundation trench not exceeding 1.5m deep commencing from stripped level.	M^3	60		
D	Extra over excavation for excavating in hard rock not exceeding 1.5m	M^3	14		
E	Allow for keeping the whole of the excavations free from all water including spring and running water.	ITEM			
F	Allow for planking and strutting to sides of excavations.	ITEM			
G	Return fill and ram selected excavated material.	M^3	199		
H	Cart away surplus excavated material and spread 20m away.	M^3	93		
I	300mm thick approved hardcore well compacted in layers not exceeding 150mm deep.	M^2	198		
J	50mm thick murram blinding to surface of hardcore.	M^2	198		
TOTAL CARRIED TO COLLECTION					-

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS. CTS
	INSECTICIDE TREATMENT				
A.	Treat surface of blinded hardcore with **Termidor** or any other equal and approved insecticides with ten year guarantee as per the manufacturers printed instructions.	M^2	198		
B.	500 gauge polythene sheet damp proof membrane lay with 150mm side and end laps.	M^2	198		
	CONCRETE WORKS				
C.	50mm Thick blinding to Strip foundations	M^2	51		
D.	Insitu reinforce concrete (1:2:4) to foundation trenches	M^3	6		-
	BEDS				-
E.	150mm Thick surface bed	M^2	198		
F.	150mm Ditto access ramps	M^2	8		
	SAWN FORM WORK TO:				
G.	Edges of slab 75 to 150mm high	LM	51		
	High steel reinforcement to b.s 4461 including tying wire spacer blocks.				
H.	8mm ditto	KGS	110		
I.	12mm ditto	KGS	252		
J	B.R.C Mesh BS 4483 ref.A 98 200 X 200mm wgt 1.89kgs/m^2 measured net no allowance made for laps including bends tying wire and distance	M^2	198		
	Substructure walling				
K	200mm thick natural stone block walling in cement and sand mortar (1:3) reinforced with and including 20swg x 25mm wide hoop iron in every alternative course.	M^2	130		
CARRIED TO COLLECTION					-

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS. CTS
					-
	PLINTHS				-
A	15mm thick cement and sand(1:4) rendering to plinth walls.	M^2	23		
B	Two coats bituminous paint to rendered plinth walls.	M^2	23		
C	B.S 743; Type A bitumen hessian 150mm (no allowance made for laps) for horizontal ; 1NO layer ;200 wide	Lm	66		
	P.C.C PAVING SLABS.				
D	600 x600 x50 mm thick precast concrete paving slabs around the building including 100mm thick bed of murram.	M^2	23		
	CARRIED TO COLLECTION				-
	COLLECTION				
	From Page LP/01				-
	From Page LP/02				-
	From Page above				-
TOTAL FOR ELEMENT NO .1 CARRIED TO SUMMARY					**-**

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	ELEMENT NO. 02				
	SUPERSTRUCTURES WORKS				
	CONCRETE WORKS				
	Insitu; concrete; reinforced normal; concrete (1:2:4); vibrated				
A	Beams	M^3	6		-
	REINFORCEMENT				-
	Fabric B.S. 4483				-
	Reference A98; 50 x50mm; wgt 0.54kgs/m2 (measured net no allowance made for laps) including bend, tying wires and distance blocks in any location				-
	Bars; m.s; high yield; cold worked; B.S 4461 including bend, tying wires and distance blocks and spacers in any location				-
B	8mm Diameter	KGS	204		
C	12mm Diameter	KGS	262		
	FORMWORK				
	Sawn formwork to soffits and sides				
D	Beams and columns	M^2	60		
					-
TOTAL FOR SUPERSTRUCTURE CARRIED TO MAIN SUMMARY					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	ELEMENT NO. 3 **WALLING.** **MACHINE DRESSED NATURAL STONEWORK** **Approved local stone, fine chisel dressed all sides; reinforced with hoop iron G500 in every alternate course; bedding and jointing in cement sand mortar (1:3)** **EXTERNAL WALL**				
A.	200mm thick block	M^2	141		
B.	Eaves fillings	LM	39		
C.	Ditto gable	M^2	36		
D	Raking cutting 200mm thick stone walling for slope	LM	30		
	SECRETARY'S PARTITIONS AND COUNTER				
E	75x50mm cypress timber framing .	LM	27		-
	MDF BOARDS				-
F	38mm thick MDF boards including a MDF door including three vertical partitions with central having lockable shelves	M^2	8		
	Treachers pigeon boxes and benches				
G	Supply all material and construct wall individual lockable pigeon boxes for teachers, size 500mm long, 600mm deep and 500mm high using MDF and glazed lockable doors. The total height covered by the boxes shall not exceed 2100mm high. The total boxes shall not be less than 40NO. All shall be done to detail.	Item	1		-
H	Supply all material and construct wall individual Seating benches for teachers using MDF boards. The total provision for seating shall not be less than 40NO. All shall be done to detail.	Item	1		-
TOTAL ELEMENT NO.3 WALLING CARRIED TO SUMMARY.					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	ELEMENT NO. 4 **ROOFING.** **Structural timbers; sawn cypress; pressure impregnated.** **The following in 16NO.single pitch trusses; 7000mm clear span; including hoisting and fixing in position approx. 3000mm above ground floor; including all necessary jointing**				
A	100 x 50mm rafters	LM	168		
B	150x50mm tie beam	LM	152		
C	100x50mm king post	LM	38		
D	Ditto struts and ties	LM	172		
E	100x50mm wall fixed with hoop iron straps at 1.0m centers cast in concrete.	LM	39		
F	75x50mm purlins	LM	394		-
G	200 x 25mm chamfered and tapered cypress facial board	LM	64		
H	Prepare stop and apply three coats glass oil paint or equal and approved to timber surfaces exceeding 200mm but not exceeding 300mm girth.	LM	64		
	COVERING Pre-painted galvanizedbox profile sheeting as resin cot or other equal and approved manufacturer.				
I	Gauge 30 G.C.I. roofing sheets.	SM	272		
J	Ditto half round ridge capping and valleys	LM	28		
	TRANSPARENT SHEETS				
K	Supply and fix semi bat deterrent sheets to approval	SM	9		
	Gutters				-
L	Supply and fix semi circular pvc gutters complete with all accessories and down pipes to approval	LM	52		
TOTAL FOR ROOFS CARRIED TO MAIN SUMMARY					-

LP/06

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	ELEMENT NO. 5 **DOORS** **METAL WORK – PURPOSE-MADE UNITS** **Mild steel casement doors;50x50x3mm thick frame pegged to concrete or block work with 100mm long fish tail 25 x 25x 2mm thick angle section,40 x 40x3mm thick angle section frames at 300mm centres both sides, angles cut, mitered and welded; panels in filled with glazing(m/s),one coat manufacturer's primer, complete with all necessary iron mongery; all welding ground to smooth finish**				
A	Double door; 1400 x 2400mm high, including 3 pairs 150mm long purpose made hinges; and 2No. 300mm aluminium D handle (m/s); all welded.	NO	1	22000	22,000.00
B	Single door; 900 x 2400mm high, including 3 pairs 150mm long purpose made hinges; and 2No. 300mm aluminium D handle (m/s); all welded.	NO	6	15000	90,000.00
	Flush door; B.S 459 part 2 solid core; 36mm thick internal quality wood facing both sides; hardwood lipping sides and panel type.panels in filled with glazing(m/s)				- - -
C	Single door; 45mm thick; size 900 x 2400mm high.	NO	9		
	Wrot cypress timber as described				
D	150mm x 50mm frame rebated; once times moulded	LM	66		
E	40 x 15mm Architrave	LM	54		
F	20 Quadrant	LM	54		
TOTAL FOR DOORS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	IRON MOGERY				
	Supply and fix the following iron mongering screw to match (Ref is to union dialogue or other equal and approved)Softwood or the like with matching screws				
A	Two levers rebated mortise lock as complete with furniture.	NO	9		
B	100mm butt hinges	PRS	13		
	PAINTING AND DECORATING				
	Three coats ; aluminium wood primer; to crown solo or other equal and approved to				
C	wood surfaces of girth 100- 200mm	LM	66		
	One undercoat; two coats gloss finish oil paint; crown solo; paints or equal and approved metal surfaces				
D	300mm girth.	M^2	34		
E	300mm girth but clear varnish to wooden surfaces	M^2	36		
	GLAZING				
F	Glass in openings set; clear 4mm thick to metal putty 0.10-0.50mm and with wooden beads to wooden doors	M^2	6		
	CARRIED TO COLLECTION				**-**
	COLLECTION				
	From Page LP/07				-
	From Page above				-
TOTAL FOR DOORS CARRIED TO SUMMARY					**-**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS. CTS
	ELEMENT NO.6				
	WINDOWS				
	Wrot cypress				
A	150 x 25mm Thick board; bull-nosed ledges; 25 x 25mm bearer; plugged; countersunk and flush pelleted	LM	25		
B	15 x 15mm Quadrant bead	LM	25		
	METAL WORK				-
	Purpose made units				-
	Mild steel; ks 02-18 neat cut and welded; all welds ground smooth and to even surfaces				-
					-
	Casement windows; standard metal casement ; section comprising of standard z-section forming, burglar proofing flat bars, transoms, mullions, permanent ventilators, comprising t-bars, gauze and 16G sheet metal hood, 25 x 3mm flats at 100mm c/c both ways, all coupling mullions; complete with bronze handles, pegs stays and all other necessary iron mongering; one coat red primer by manufacturer. Metal; for glazing with putty; cutting and pinning to concrete or masonry jambs, head and cill; bedding in cement sand (1:3) mortar; pointing round frames easing, oiling adjusting opening lights on completion.				-
					-
C	Window overall size 1500 x 1500mm; 2NO. openable and 2NO. fixed ends each size 450 x 1500mm high	NO	15		
D	Window overall size 500 x 800mm; 2NO. openable and 2NO. fixed ends each size 450 x 1500mm high	NO	6		
					-
					-
TOTAL CARRIED TO COLLECTION					**-**

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	CURTAIN RAILS				-
					-
	Supply and fix double brass metal rods including all the rings as below;				-
A	1500mm long	No	14		
	GLAZING				
B	Glass in openings set; clear 4mm thick to metal putty 0.10-0.50mm	M^2	36		
C	Ditto but obsecure glass size 300x250mm high	No	1		
					-
	PAINTING & DECORATION				-
	One undercoat; three coats gloss finish oil paint; to crown solo paints or other equal and approved to				-
D	Metal surfaces girth over 300mm	M^2	36		-
					-
					-
					-
					-
	CARRIED TO COLLECTION				-
	COLLECTION				
	From Page LP/09				-
	From Page above				-
TOTAL FOR WINDOWS CARRIED TO MAIN SUMMARY					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	ELEMENT NO. 7 FINISHES				
	FLOOR FINISH				
	Bedding screed; cement and sand (1:3)				
A	32mm Thick; 1NO coat bed; roughly casted to concrete base (m/s) with ceramic tile finish	M^2	198		
B	100mm high skirting	Lm	96		
C	Ramps ; slopping; external	M^2	12		
	INTERNAL WALL FINISHES.				
	Plaster; 12mm first coat of cement sand (1:4); 3-5mm; steel trowel led				
D	Concrete or stone walls.	M^2	213		
E	200x300mm wall ceramic tiles with groit and end strips	M^2	44		
	PAINTING & DECORATING				
F	Three coats of silk vinyl paint; to crown solo or other equal and approved to Plastered surfaces of girth over 300mm.	M^2	213		
	EXTERNAL WALL				
G	A neat recessed keying; horizontal; in 10mm diameter rod in cement sand mortar (1:3) to external walling	M^2	109		-
H	15 mm (minimum) two coat lime plaster with wood floated finish as described to masonry beams	M^2	46		
	PAINTING AND DECORATIONS				
I	Three coats silk vinyl paint; to crown solo paint or equal and approved to plastered surfaces of girth over 300mm and keys	M^2	157		
TOTAL FOR CARRIED TO SUMMARY					-

ITEM	DESCRIPTION	UNIT	QTY	RATE	SHS. CTS
	CEILING FINISH **Sawn cypress as described:-**				
A	75x50mm second grade treated pine; celcured brandering.	LM	667		
B	12mm thick; set to symmetrical pattern v-joint; fixed to brandering with clout headed nails celotex ceiling fixed into brandering.	M2	198		
C	100 x 25mm thick cornice ; concave moulding; plugged	LM	138		
D	Size 600 x 600; comprising sawn cypress 50 x 50mm joist frame all round; 12mm soft board panel fixed on top of frame with clout and other necessary accessories	NO	3		-
	Three coats aluminium primer to crown solo paints r equal and approved to celotex surfaces				-
E	Over 300mm girth	M^2	198		-
F	0-200mm girth	LM	138		
	.				
	CARRIED TO COLLECTION				**-**
	COLLECTION From Page LP/11				-
	From Page above				-
TOTAL FOR FINISHES CARRIED TO MAIN SUMMARY					-

ELECTRICAL INSTALLATION WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, install, test and commission the following:				
	LIGHTING AND FAN POINTS.				
A	Lighting points wired in 3 x 1.5sq mm single core pvc cables drawn in 20mm diameter h/g concealed conduits all accessories included but excluding switches and fittings	28	NO		
	.				-
					-
	SWITCHES.				-
B	5A white moulded plate switches mounted 1350mm above FFL as MK or approved equivalent as follows:				-
					-
	a) 1 gang1 way	6	NO		
	b) 2 gang2 way	8	NO		
C	**Lighting fittings**. Complete with energy saving bulbs and tubes of appropriate wattage and colour rendering:				
	a) Security bulkhead lamp	4	NO		
	b) 1200mm batten fluorescent fitting type thorn, Philips.	16	NO		
					-
	c) 30W flood light led fitting	4	NO		
	d) Spherical ball head fitting type thorn, Philips.	4	NO		
TOTAL CARRIED TO COLLECTION					-

TEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	POWER POINTS				
	SOCKET OUTLETS				
A	Socket outlet points wired in 3 x 2.5sq.mm PVC insulated single core cu cables drawn in 25mm PVC Conduits as follows:				
	a) Twin switched	48	NO		
B	13A socket outlet plates mounted 300mm above worktop as Crabtree or approved equivalent, flush mounted.				
	a)Twin switched	48	NO		
C	Multiple circuit breakers				
	a) 10A SP MCB	2	NO		
	b) 20 SP MCB	2	NO		
	c) 32A SP MCB	2	NO		
	d) Blanking plate	0	NO		
D	**EARTHING TO KPLC APPROVAL**				-
	a) 300 x 300 x 300mm concrete earthing chamber complete with concrete cover.	1	NO		
	b) Earth rod (16mm dia 1800mm long) with Earth-rod-cable clamp and Driving Head for Earth rod.	1	NO		
	c) $10mm^2$ SC/PVC copper cable earth lead in concealed 20mm dia. HP//PVC conduit from the loop-in box to the earth pit	5	LM		
TOTAL CARRIED TO COLLECTION					-

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	INTERNAL POWER DISTRIBUTION.				
A	6way SPN consumer unit with 100A integral isolator as Crabtree or approved equivalent.	1	NO		
	Sub main cables.				
B	Lay 3x16mm^2 PVC/SWA/PVC Sub main copper cable from loop-in box to CU	15	LM		
C	Standard galvanized loop in box c/w 30A twin cutout and HRC fuse and connection to consumer unit with 25mm diameter pvc	1	NO		
D	Lay 3x16mm^2 PVC/SWA/PVC armoured copper cable from meter box to loop in box including trenching 600mm deep and backfilling	50	LM		
	TOTAL CARRIED TO COLLECTION				-
	COLLECTION				
1	FROM PAGE EW/01				-
2	FROM PAGE EW/02				-
3	FROM ABOVE				-
TOTAL CARRIED TO COLLECTION					-

ITEM	DESCRIPTION	PAGE	AMOUNT
	SUMMARY.		
1	SUBSTRUCTURES	LP/03	-
2	SUPERSTRUCTURES	LP/04	-
3	WALLING	LP/05	-
4	ROOF CONSTRUCTION AND COVERING	LP/06	-
5	DOORS	LP/08	-
6	WINDOWS	LP/10	-
7	FINISHES	LP/12	-
8	ELECTRICAL	EW/03	-
TOTAL CARRIED TO GRAND SUMMARY			**-**

ITEM	DESCRIPTION	QTY	UNIT	RATE	SHS. CTS
	PROVISIONAL & PRIME COST SUMS **The contractor shall include in his tender the following to be deducted in whole or part as directed by the project manager**				
A	**CONTINGENCIES** Allow a provisional sum of Kenya shillings one hundred thousand(100,000) for contingencies to be deducted in whole or part as directed by the project manager	1	LS		100,000.00
B	**PROJECT MANAGEMENT** Allow a prime cost sum of Kenya shillings two hundred thousand(200,000) for project supervision	1	LS		200,000.00
C	**PROJECT MANAGEMENT COMMITTEE** Allow a prime cost sum of Kenya shillings one hundred and twenty thousand(120,000) for project management committee expenses	1	LS		120,000.00
D	**PROJECT PUBLICITY** Allow a prime cost sum of Kenya shillings twenty thousand(20,000) for project labelling expenses as directed on site by the project manager	1	LS		20,000.00
E	**MECHANICAL WORKS** Allow a provisional sum of Kenya shillings five hundred thousand(500,000) for mechanical works including sanitary fittings, plumbing, drainage, septic tank and soakage area/ biodigester, supply of water pipe connection to be deducted in whole or part as directed by the project manager	1	LS		500,000.00
TOTAL FOR PROVISIONAL & PRIME COST SUMS TO GRAND					**940,000.00**

GRAND SUMMARY

BILL NO	DESCRIPTION	FOR CONTRACTOR'S USE (KSH)
1	PARTICULAR PRELIMINARIES	
2	GENERAL PRELIMINARIES	
3	MEASURED WORKS	
4	PROVISIONAL SUMS - PS/1	
	TOTAL	
	ADD 16% VAT	
	ADD 0.03% PPRA LEVY	
GRAND TOTAL CARRIED TO FORM OF QUOTATION		-

Amount in words:……

……

Tenderer's Signature and stamp.....

Address: .....

Date: .....

Witness's Name: .....

Signature: .....

Description: .....

Address: .....

Date: ....

GS/01