



MINISTRY OF TRANSPORT AND INFRASTRUCTURE

(DIRECTORATE OF PUBLIC WORKS)

**PROPOSED CONSTRUCTION OF
CLASSROOM BLOCK
AT
MURANG'A TEACHERS TRAINING
COLLEGE**

BILLS OF QUANTITIES

TENDER NO:

Prepared: -
County Quantity Surveyor
Department of Public Works
P.O. Box 133 - 10200
MURANG'A

Issued: -
County Works Officer
Department of Public Works
P.O. Box 133 - 10200
MURANG'A



NOVEMBER, 2023

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>BILL NO. 1</u> <u>BILL NO. 1A: :SUBSTRUCTURES/FOUNDATION WORKS</u> <u>BUILDER'S WORK</u> <u>ELEMENT NO.1</u> <u>SUBSTRUCTURES</u> <u>(ALL PROVISIONAL)</u> NOTE; (I) All work measured under this element is up to and including the floor slab but excluding the finishes thereon.				
A	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising (approx. area 438 sq. sm)	438	SM		
	<u>Excavations and earthworks</u>				
B	Excavate oversite average 200mm deep to remove vegetable soil load up wheel and deposit about 100metres away and later spread and level on site where directed	438	SM		
C	Excavate for strip foundation trenches occurring not exceeding 1.5metres deep commencing from reduced level	87	CM		
D	Excavate for column bases occurring not exceeding 1.5metres deep commencing from reduced level	217	CM		
E	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
F	Allow for planking and strutting to sides of excavations		ITEM		
	<u>Disposal</u>				
G	Load surplus excavated material and cart away	127	CM		
	<u>Filling</u>				
H	Return fill and ram selected excavated material around foundations.	176	CM		
	<u>Hardcore as described</u>				
I	300mm Thick layer of imported hardcore filling including levelling and consolidating in 150mm layers	403	SM		
	<u>Blinding</u>				
D	50mm Thick Quarry dust blinding to the surface of hardcore;rolled smooth to receive polythene sheeting(m.s)	403	SM		
	<u>Carried to Collections</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Insecticide Treatment</u>				
A	'TERMIDOL" or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	403	SM		
	<u>Damp proof membrane</u>				
B	500 Gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding(measured nett - allow for laps)	403	SM		
	<u>In-situ concrete work</u>				
	<u>Mass concrete (1:3:6/38-38mm aggregate)</u>				
C	50mm Thick blinding under strip foundations	56	SM		
D	50mm Thick blinding under column bases	148	SM		
	<u>Vibrated reinforced concrete (1:1.5:3/25 - 20 mm aggregate) as described in :</u>				
E	Strip foundations	11	CM		
F	Column bases	61	CM		
G	Columns	6	CM		
H	150 mm Thick ground floor slab	403	SM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix bars reinforcement including bending, hooks, tyingwire, cutting spacers and supporting all in position as described</u>				
	<u>High tensile square twisted bars to B.S. 4461</u>				
I	8 mm Diameter	235	KG.		
J	10 mm Diameter	367	KG.		
K	12 mm Diameter	1842	KG.		
L	16 mm Diameter	1287	KG.		
	<u>Mesh reinforcement</u>				
M	Fabric mesh reinforcement to B.S. 4483 ref: A142 including laps tyingwire and spacer blocks complete(measured nett-allow for laps)	403	SM		
	<u>Carried to Collections</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Sawn Formwork as Described to:</u>				
A	Vertical sides of strip foundations	37	SM		
B	Vertical sides of Column bases	130	SM		
C	Vertical sides of Columns	69	SM		
D	Edge of floor slab 75-150mm high	133	LM		
	<u>Foundation walling</u>				
E	200mm Thick rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron in every alternate course	205	SM		
	<u>Plinth area finishes</u>				
F	12mm Thick cement and sand (1:3) wood float render to plinth area	80	SM		
G	Prepare and apply three coats black bitumastic paint to rendered area	80	SM		
	Carried to collection	below			
	<u>COLLECTION</u>				
	Brought Forward from Page No. BW		1		
	Brought Forward from Page No. BW		2		
	Brought Forward from Page No. BW		Above		
	<u>TOTAL FOR ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>SUPERSTRUCTURE WORKS</u>				
	<u>BILL NO. 1B;GROUND FLOOR</u>				
	<u>ELEMENT NO.2</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>(ALL PROVISIONAL)</u>				
	Vibrated reinforced concrete (1:1.5:3/25 - 20 mm aggregate) as described in : described in:-				
A	Beam	29	CM		
B	Columns	11	CM		
C	Staircase generally	4	CM		
D	150mm thick Suspended slabs/ landings	414	SM		
	<u>Steel reinforcement</u>				
	<u>Supply and fix steel bars</u> <u>reinforcement including bending,</u> <u>hooks, tying wire, cutting, spacer</u> <u>blocks and supporting all in</u> <u>position</u> <u>High tensile square twisted bars to</u> <u>B.S. 4461 as described in ;</u>				
E	8 mm Diameter	1361	KG.		
F	10 mm Diameter	6284	KG.		
G	12 mm Diameter	599	KG.		
H	16 mm Diameter	3671	KG.		
I	20 mm Diameter	626	KG.		
J	25mm Diameter	1630	KG.		
	<u>Sawn formwork as described to ;</u>				
K	Sides and soffits of ringbeam/beams	389	SM		
L	Vertical sides of columns	146	SM		
M	Staircases generally including risers	30	SM		
N	Soffittes of slabs and landings	414	SM		
O	Edges of slabs 75-150mm girth high	133	LM		
	<u>TOTAL FOR ELEMENT NO. 2</u> <u>R.C. SUPERSTRUCTURE</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<p><u>ELEMENT NO. 3</u></p> <p><u>WALLING (ALL PROVISIONAL)</u></p> <p><u>Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses:</u> <u>NOTE: with horizontal keys externally; internally left plain ready for plaster (m.s)</u></p> <p>200mm Thick External wall reinforced in every third course</p>	238	SM		
B	<p><u>Fine machine cut natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron; internally left plain ready for plaster (m.s)</u></p> <p>200mm Thick Internal wall reinforced in every third course</p> <p><u>Horizontal damp proof course : one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)</u></p>	39	SM		
C	<p>200mm Wide levelled and bedded in cement and sand (1:3) mortar under walls</p>	131	LM		
	<p><u>TOTAL FOR ELEMENT NO.3</u> <u>WALLING</u> <u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 4</u></p> <p><u>EXTERNAL WALL FINISHES</u></p> <p>(ALL PROVISIONAL)</p> <p><u>External wall finishes</u></p> <p>12mm thick cement,sand render,with wood float finish , as described to:-</p> <p>A Concrete surfaces of gables, columns and beams</p> <p><u>Painting and decorations</u></p> <p>Prepare and apply one undercoat and two finishing coats "<u>Permacoat</u>" or equivalent exterior quality emulsion paint on :-</p> <p>B Fair faced surfaces of concrete beams and columns</p> <p>C Horizontal keying and pointing to external walls</p>	<p>74</p> <p>74</p> <p>238</p>	<p>SM</p> <p>SM</p> <p>SM</p>		
	<p><u>TOTAL FOR ELEMENT NO. 4</u></p> <p><u>EXTERNAL WALL FINISHES</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<u>ELEMENT NO. 5</u> <u>INTERNAL WALL FINISHES</u> (ALL PROVISIONAL) <u>Internal wall finishes</u> Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	520	SM		
B	<u>Painting and decorations</u> <u>Prepare and apply one undercoat and two finishing coats plastic Vinyl matt or equivalent emulsion paint on:-</u> Plastered surfaces	520	SM		
	<u>TOTAL FOR ELEMENT NO. 5</u> <u>INTERNAL WALL FINISHES</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 6</u>				
	<u>FLOOR FINISHES</u>				
	(ALL PROVISIONAL)				
	<u>In situ cement and sand (1:3) screeded beds ,with steel trowelled finish, on concrete</u>				
A	25 mm screed to receive Terrazo to floor slabs (ms)	380	SM		
B	25 mm screed to receive Terrazo to landings (ms)	11	SM		
C	25 mm screed to receive Terrazoto 150mm high riser (ms)	64	LM		
D	25 mm screed to receive Terrazo to 300mm wide treads (ms)	64	LM		
	<u>Terrazzo (1:3) with approved coloured chippings, ground and polished smooth, including approved plastic dividing strips and non slip carborandums on staircase treads and</u>				
E	15mm thick to floors	380	SM		
F	Ditto; landings	11	SM		
G	Ditto 300 mm wide treads	64	LM		
H	Ditto 150 mm high risers	64	LM		
I	Ditto 100 mm high skirting	236	LM		
	<u>Plaster</u>				
	<u>12mm thick cement/ lime/ sand/ (1:1:6) plaster in :</u>				
J	Horizontal soffits of landing	11	SM		
K	Sloping soffits of waist	21	SM		
L	Sides of waist 350mm wide (extreme)	13	LM		
	<u>Prepare and apply three coats plastic emulsion or equivalent paint to:-</u>				
M	Plastered soffits of landing	11	SM		
N	Plastered sloping soffits of waist	21	SM		
O	Plastered sides of waist	13	LM		
	<u>TOTAL FOR ELEMENT NO. 6</u>				
	<u>FLOOR FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<u>ELEMENT NO. 7</u> <u>CEILING FINISHES</u> (ALL PROVISIONAL) <u>In situ cement sand lime (1:1:6) plaster, with steel trowelled finish, on concrete</u> 12mm thick plaster trowelled smooth	380	SM		
B	<u>Painting & decorations</u> <u>Knot prime and stop and prepare and apply three coats first quality emulsion paint</u> Soffittes of slabs	380	SM		
	<u>TOTAL FOR ELEMENT NO. 7</u> <u>CEILING FINISHES</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 8</u>				
	<u>WINDOWS</u> <u>(ALL PROVISIONAL)</u>				
A	175 x 75 mm thick precast concrete window; weathered and throated	38	LM		
	<u>Steel Casement Windows</u>				
	<u>Purpose made steel window casements in 25 mm thick z - sections, T-sections and flat bars; complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)</u>				
B	Window Size 1500 x 1050mm high	12	NO		
C	Window Size 1500 x 1500 mm high	12	NO		
	<u>GLASS & GLAZING TO METAL WITH PUTTY</u>				
	<u>Clear sheet Glass</u>				
D	4 mm thick clear and one way tinted in selected areas	46	SM		
	<u>Prepare and apply two undercoats and one finishing coat gloss oil paint to</u>				
E	Steel window surfaces / <u>grilles; measured generally</u>	46	SM		
	<u>TOTAL FOR ELEMENT NO. 8</u>				
	<u>WINDOWS</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 9</u></p> <p><u>DOORS</u> (<u>ALL PROVISIONAL</u>)</p> <p><u>Steel Casement Doors</u></p> <p><u>Standard door complete with hinges, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Grille, 3 lever "Union" or approved equivalent steel lock and Glazing included)</u></p>				
A	Door Overall size 1200 x 2500 mm high; Double door	4	NO		
	<u>Prepare and Apply Three Coats of Gloss Oil Paint to:-</u>				
B	Steel door general surfaces	24	SM		
	<p><u>TOTAL FOR ELEMENT NO. 9</u></p> <p><u>DOORS</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 10</u> <u>BALUSTRADING</u> (ALL PROVISIONAL) <u>Mild Steel:</u> Mild steel balustrading 900 mm high overall in 50 x 25 x 3 mm RHS framing; 25 x 25 x 3 mm RHS sections at 150 mm centres; including all the necessary welds and priming <u>Prepare and Apply Three Coats of Gloss Oil Paint to:-</u> Steel balustrading general surfaces measured generally	72	LM		
	TOTAL FOR ELEMENT NO.10 <u>BALUSTRADING</u> CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	SUMMARY				
		PAGE	NO		
1	R.C SUPERSTRUCTURES	BW	5		
2	WALLING	BW	6		
3	EXTERNAL WALL FINISHES	BW	7		
4	INTERNAL WALL FINISHES	BW	8		
5	FLOOR FINISHES	BW	9		
6	CEILING FINISHES	BW	10		
7	WINDOWS	BW	11		
8	DOORS	BW	12		
9	BALUSTRADING	BW	13		
	TOTAL FOR BILL NO. 1B;GROUND FLOOR CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>BILL NO. 1C::FIRST FLOOR</u> <u>ELEMENT NO.1</u> <u>REINFORCED CONCRETE FRAME</u> <u>(ALL PROVISIONAL)</u> <u>Vibrated reinforced concrete</u> <u>(1:1.5:3/25 - 20 mm aggregate) as described in :</u>				
A	Ring Beam	20	CM		
B	Columns	11	CM		
	<u>Steel reinforcement</u> <u>Supply and fix steel bars</u> <u>reinforcement including bending,</u> <u>hooks, tying wire, cutting, spacer</u> <u>blocks and supporting all in</u> <u>position</u> <u>High tensile square twisted bars to</u> <u>B.S. 4461 as described in :</u>				
C	8 mm Diameter	936	KG.		
D	12 mm Diameter	785	KG.		
E	16 mm Diameter	1231	KG.		
	<u>Sawn formwork as described to :</u>				
F	Sides and soffits of ringbeam/beams	211	SM		
G	Sides of columns	146	SM		
	<u>TOTAL FOR ELEMENT NO. 1</u> <u>R.C. SUPERSTRUCTURE</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<p><u>ELEMENT NO. 2</u></p> <p><u>WALLING (ALL PROVISIONAL)</u></p> <p><u>Fine chiselled natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in alternate courses;</u></p> <p><u>NOTE: with horizontal keys externally; internally left plain ready for plaster (m.s)</u></p> <p>200mm Thick External wall reinforced in every third course</p>	243	SM		
B	<p><u>Fine machine cut natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron; internally left plain ready for plaster (m.s)</u></p> <p>200mm Thick Internal wall reinforced in every third course</p>	40	SM		
	<p><u>TOTAL FOR ELEMENT NO.2</u></p> <p><u>WALLING</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	ELEMENT NO 3				
	ROOFING AND RAIN WATER GOODS				
	(ALL PROVISIONAL)				
	<u>All timber to be sawn cypress of G.S grade seasoned to an equilibrium moisture content between 9%and 15% and to a requirement of K.S 02771 of 1991 treated with approved wood preservative.</u>				
A	100 X 50mm Wall plate on and including 10mm cement and sand (1;4) mortar bed secured to reinforced concrete ring beam (m.s) by mild steel anchor bolts (m.s)	141	LM		
	<u>The following in Nailed triangular timber trusses spanning clear 9500 mm height 1800 mm including hoisting and placing approx. 3100 mm above floor slab level.</u>				
B	150 X 50 mm trussed rafter	375	LM		
C	100 X 50 mm Struts / ties	412	LM		
D	150 X 50 mm Tie Beam	318	LM		
E	75 X50 mm purlins	680	LM		
	<u>Covering</u>				
	<u>Approved gauge 28 IT5 roofing sheets laid onto and including 50 x 75 celcured treated cypress battens (m.s) - at approved centres:</u>				
F	Laid in approved pattern; including raking cutting	537	SM		
G	Gauge 28 ridge cap on gauge 28 IT5 roofing sheets nailed on purlins	92	LM		
	<u>Wrot cypress</u>				
H	25 X200 mm Thick Fascia and Barge boards fixed to ends of rafters(m.s)	134	LM		
	<u>Eaves Treatment:</u>				
I	100 X 25 mm Wrot cypressT&G boarding nailed to 50 x 50 mm cypress bearers and including 75 x 50 mm cypress framing	38	SM		
J	Prepare and apply three coats polyrethane clear vanish to surfaces of T & G	38	SM		
	Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>Rain Water disposal</u>				
	<u>The following in UPVC</u>				
A	150 X 100 mm Half round gutter fixed to fascia board with and including approved pattern brackets at 1000 mm cc	134	LM		
B	Extra over gutter for stopped end piece with 100 mm diameter outl	6	NO		
C	100 diameter x 3 mm Thick UPVC fixed to natural stone walling with and including mild steel brackets 600mm centres	37	LM		
D	Extra over down pipe for 100 mm diameter swan neck wall off set	6	NO		
E	Extra over down pipe for 100 mm diameter rain water shoe	6	NO		
	<u>Painting</u>				
	<u>Knot prime stop and prepare and apply one under coat and two finishing coats of gloss oil paint to;</u>				
F	General surfaces of timber fascia 200 - 300mm girth	134	LM		
	<u>Carried to collection</u>				
	<u>COLLECTION</u>				
	Brought Forward from Page No. BW		6		
	Brought Down from		7 Above		
	<u>TOTAL FOR ELEMENT NO. 3</u>				
	<u>ROOFING AND RAINWATER DISPOSAL</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 4</u></p> <p><u>EXTERNAL WALL FINISHES</u> (ALL PROVISIONAL) <u>External wall finishes</u></p> <p>12mm thick cement,sand render,with wood float finish , as described to:-</p> <p>A Concrete surfaces of gables, columns and beams</p> <p><u>Painting and decorations</u></p> <p><u>Prepare and apply one undercoat and two finishing coats "Permacoat" or equivalent exterior quality emulsion paint on :-</u></p> <p>B Fair faced surfaces of concrete beams and columns</p> <p>C Horizontal keying and pointing to external walls</p>	66	SM		
	<p><u>TOTAL FOR ELEMENT NO. 4</u> <u>EXTERNAL WALL FINISHES</u> <u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<u>ELEMENT NO. 5</u> <u>INTERNAL WALL FINISHES</u> (ALL PROVISIONAL) <u>Internal wall finishes</u> <u>INTERNAL WALL FINISHES</u> (ALL PROVISIONAL) <u>Internal wall finishes</u> Hack out joints and apply 12mm thick gauged lime plaster (1:2:9) in two coats finished with steel trowel on natural stone walling and beams	442	SM		
B	<u>Painting and decorations</u> <u>Prepare and apply one undercoat and two finishing coats</u> <u>plastic Vinyl matt or equivalent emulsion paint on:-</u> Plastered surfaces	442	SM		
	<u>TOTAL FOR ELEMENT NO. 5</u> <u>INTERNAL WALL FINISHES</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 6</u> <u>FLOOR FINISHES</u> (ALL PROVISIONAL) <u>In situ cement and sand (1:3) screeded beds ,with</u> <u>steel trowelled finish, on concrete</u>				
A	25 mm screed to receive Terrazo (ms)	380	SM		
	<u>Terrazzo (1:3) with approved coloured chippings, ground</u> <u>and polished smooth, including approved plastic dividing</u>				
B	To floors	380	SM		
C	Ditto 100 mm high skirting	236	LM		
	<u>TOTAL FOR ELEMENT NO. 6</u> <u>FLOOR FINISHES</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 7</u>				
	<u>CEILING FINISHES</u>				
	(ALL PROVISIONAL)				
A	<u>In situ cement sand lime (1:1:6) plaster, with steel trowelled finish, on concrete</u> 12mm thick plaster trowelled smooth	380	SM		
	<u>Gypsum ceiling</u>				
B	Gypsum ceiling fixed to and including 50x 50mm sawn cypress branderling at 600mm centers both directions fixed with clout headed nails and set out in symmetrical panels with 'V' joints.	380	SM		
C	<u>Extra over</u> Gypsum ceiling for forming removable access trap door size 750 x 750mm with 100 x 50mm sawn treated cypress trimming joists 120 x 25mm wrot cedar frame all round and 12mm soft board removable panel set loose on top of framing including painting	1	NO		
	<u>Prime grade wrot cypress timber selected and kept clean</u>				
D	100 x 25mm cornice with two labours	234	LM		
	<u>Painting & decorations</u>				
	<u>Knot prime and stop and prepare and apply three coats first quality emulsiion paint</u>				
E	Chip board ceiling	380	SM		
F	Timber surfaces not exceeding 100mm girth	234	LM		
	<u>TOTAL FOR ELEMENT NO. 7</u>				
	<u>CEILING FINISHES</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 8</u>				
	<u>WINDOWS</u>				
	<u>(ALL PROVISIONAL)</u>				
A	175 x 75 mm thick precast concrete window; weathered and throated	38	LM		
	<u>Steel Casement Windows</u>				
	<u>Purpose made steel window casements in 25 mm thick z - sections, T-sections and flat bars; complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Burglar proofing grilles included)</u>				
B	Window Size 1500 x 1050 mm high	12	NO		
C	Window Size 1500 x 1500 mm high	12	NO		
	<u>GLASS & GLAZING TO METAL WITH PUTTY</u>				
	<u>Clear sheet Glass</u>				
D	4 mm thick clear and one way tinted in selected areas	46	SM		
	<u>Prepare and apply two undercoats and one finishing coat gloss oil paint to</u>				
E	Steel window surfaces / grilles; measured generally	46	SM		
	<u>TOTAL FOR ELEMENT NO. 8</u>				
	<u>WINDOWS</u>				
	<u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<p><u>ELEMENT NO. 9</u></p> <p><u>DOORS</u></p> <p><u>(ALL PROVISIONAL)</u></p> <p><u>Steel Casement Doors</u></p> <p><u>Standard door complete with hinges, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) (Grille, 3 lever "Union" or approved equivalent steel lock and Glazing included)</u></p> <p>A Door Overall size 1200 x 2550 mm high; Double door</p> <p><u>Prepare and Apply Three Coats of Gloss Oil Paint to:-</u></p> <p>B Steel door general surfaces</p>	4	NO		
	<p><u>TOTAL FOR ELEMENT NO. 9</u></p> <p><u>DOORS</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>ELEMENT NO. 10</u> <u>BALUSTRADING</u> (ALL PROVISIONAL) <u>Mild Steel:</u> Mild steel balustrading 900 mm high overall in 50 x 25 x 3 mm RHS framing; 25 x 25 x 3 mm RHS sections at 150 mm centres; including all the necessary welds and priming <u>Prepare and Apply Three Coats of Gloss Oil Paint to:-</u>				
A		39	LM		
B	Steel balustrading general surfaces measured generally	39	SM		
	<u>TOTAL FOR ELEMENT NO.10</u> <u>BALUSTRADING</u> <u>CARRIED TO SUMMARY</u>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	BILL NO. 1C;;FIRST FLOOR SUMMARY				
		PAGE	NO		
1	R.C SUPERSTRUCTURES	BW	14		
2	WALLING	BW	15		
3	ROOFING AND RAIN WATER GOODS	BW	17		
4	EXTERNAL WALL FINISHES	BW	18		
5	INTERNAL WALL FINISHES	BW	19		
6	FLOOR FINISHES	BW	20		
7	CEILING FINISHES	BW	21		
8	WINDOWS	BW	22		
9	DOORS	BW	23		
10	BALUSTRADING	BW	24		
	TOTAL FOR BILL NO. 1C;;FIRST FLOOR CARRIED TO MAIN SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
A	<p>BILL NO 1D</p> <p>EXTERNAL WORKS</p> <p><u>(ALL PROVISIONAL)</u></p> <p><u>Paving Slabs</u></p> <p>600 x 600 x 50 mm thick precast concrete paving slabs laid onto and including 50 mm thick sand bed and jointed in cement / sand (1 :4) mortar; allow for all necessary excavation, carting away and spreading on site excavated material and laying 200 mm thick hardcore base</p>	98	SM		
B	<p><u>Staircase Floor bed</u></p> <p>100 mm thick Concrete laid under staircase well ; allow for all necessary excavation, carting away and spreading on site excavated material and laying 300 mm thick hardcore base, 50mm thick stone dust blinding and 200mm thick foundation</p>	31	SM		
	<p><u>TOTAL FOR BILL NO 1D</u></p> <p><u>EXTERNAL WORKS</u></p> <p><u>CARRIED TO SUMMARY</u></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	MAIN SUMMARY				
	PAGE NO				
1	BILL NO. 1A: ;SUBSTRUCTURES/FOUNDATION	BW	3		
2	BILL NO. 1B;GROUND FLOOR	BW	13		
3	BILL NO. 1C;;FIRST FLOOR	BW	25		
4	BILL NO ID; EXTERNAL WORKS	BW	26		
	TOTAL FOR PROPOSED CLASSROOM BLOCK CARRIED TO GRAND SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
<u>PROVISIONAL SUMS</u>					
A	Allow a Provisional sum for Project Management		ITEM		
B	Allow a Provisional sum for Electrical Works		ITEM		
C	Allow a Provisional sum for Contingencies to be Expended at the Project Manager's Discretion		ITEM		
PROVISIONAL SUMS CARRIED TO GRAND SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS
	<u>GRAND SUMMARY</u>				
		<u>PAGE</u>	<u>OFFICIAL USE</u>	<u>TENDERER'S</u>	
1	<u>PRELIMINARIES</u> Particular and General Preliminaries				
2	<u>BUILDERS WORKS</u> Proposed Classroom Block	BW/27			
3	<u>PRIME COST AND PROVISIONAL SUMS</u> Prime Cost and Provisional Sums	BW/28			
	Sub - Total 1	KSHS.			
	GRAND TOTAL CARRIED TO FORM OF TENDER	KSHS.			

NAME OF TENDERER.....

ADDRESS.....

SIGNATURE.....STATUS.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....