

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Site clearance</u>				
A	Clear the site off grass, shrubs and all vegetation; cart away as directed	791	sm		
	<u>Oversite excavation</u>				
B	Excavate vegetable soil average 200mm deep to remove vegetable soil and reduce levels and cart away as directed	791	sm		
	<u>Excavation</u>				
C	Excavate oversite to reduce levels commencing from stripped level exceeding 1.50 meters deep.	1187	cm		
D	Excavate foundation trench starting from reduced level not exceeding 1.50 meters deep.	250	cm		
E	Ditto for column bases starting from reduced level not exceeding 1.50 meters deep.	15	cm		
G	Return, fill-in and rum selected excavated materials around foundations	588	cm		
H	Remove and cart away surplus excavated materials.	190	cm		
	<u>Diposal of water</u>				
I	Keeping all excavations free from all water including spring or running water		Item		
	<u>Planking and strutting</u>				
J	Uphold the sides of all excavations		Item		
	<u>Filling</u>				
K	Hardcore filling in making up levels,exceeding 300mm thick in layers of 150mm maximum thickness	487	cm		
L	50mm (average) thick quarry dust blinding to surfaces of hardcore	487	sm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	<u>Antitermite treatment</u> Premise 200 SC' or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacturer's instructions, to tops of fill and foundation walls	487	sm		
B	<u>Concrete</u> 50mm thick mass concrete class Q (1:3:6) to bottoms of foundations	165	sm		
C	Ditto to collumn bases	50	sm		
	<u>In situ concrete; reinforced; class 20 / (20mm); vibrated</u>				
D	Foundations in trenches irrespective of thickness	33	cm		
E	Column bases	17	cm		
F	Foundations columns	5	cm		
G	150mm thick bed	487	sm		
H	Steps	3	cm		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 and mild steel hot rolled to B.S. 4449; including bends, hooks, tying wire and distance blocks</u>				
I	Assorted sizes; 8 - 25mm Diameter	14415	kg		
	<u>Fabric; B.S. 4483</u>				
J	Reference A142 mesh 200 x 200 mm , weight 2.22 kgs per square meter (measured net - no allowance made for laps(including bends, tying wire and distance blocks	487	sm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Sawn formwork to insitu concrete as described:-</u>				
A	To sides; vertical or battering of foundations, ground beams or the like	290	sm		
B	To sides; vertical or battering of column bases	50	sm		
C	To sides; vertical or battering of columns	63	sm		
D	Edges of ground floor slab; 75 to 150mm wide	487	lm		
	<u>Walling</u>				
E	200mm thick approved natural stone; local; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar	825	sm		
	<u>Damp proofing</u>				
F	Polythene sheet; 500 gauge, 200mm weltd laps (no allowance made to laps), horizontal; 1 no. layer laid on compacted quarry dust blinding	487	sm		
G	200mm wide; B.S. 743 Type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar	160	lm		
H	Ditto but 100mm wide	4	lm		
	<u>Insitu Finishings</u>				
I	14mm thick 2 No. coatwork cement sand (1:3) render; wood floated to concrete or blockwork base to walls; external	487	sm		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats bituminous paint to:</u>				
J	Wood floated rendered plinths over 300mm girth	487	sm		
	<u>Paving Slabs.</u>				
K	600 x 600 x 50 mm Precast concrete class 20/20 paving slabs, laid to falls on blinded hardcore surface and jointed in cement and sand (1:3) mortar	165	sm		
<i>Carried to Collection</i>					

PROPOSED CONSTRUCTION OF CLASSES FOR KEWI AT CIAKARIGA CAMPUS - EMBU

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>COLLECTION</u></p> <p>From page BW/1</p> <p>From page BW/2</p> <p>From page BW/3</p>				
TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 2</u>				
	<u>FRAME</u>				
	<u>Insitu concrete; reinforced; class 20 / (20mm); vibrated</u>				
A	Beams	25	cm		
B	Columns	10	cm		
C	Steps, staircases or strings	5	cm		
D	150mm Suspended landing	6	sm		
E	150mm thick suspended slab	487	sm		
	<u>Reinforcement (All provisional)</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 and mild steel hot rolled to B.S. 4449; including bends, hooks, tying wire and distance blocks</u>				
F	Assorted sizes; 8 - 25mm Diameter	21131	kg		
	<u>Sawn formwork to insitu concrete as described:-</u>				
G	To sides and soffits of beams.	301	sm		
H	Vertical sides of columns	130	sm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	To soffits of suspended landing	5	sm		
B	To soffits of suspended slab	487	sm		
C	To sloping soffits of suspended staircase over 15 ⁰ from horizontal	8	sm		
D	Edges of suspended slab, 75 to 150mm wide	54	lm		
E	Edge of risers; 75 to 150mm wide	130	lm		
F	Edge of open strings of staircase 225 to 300mm including forming profiles of treads and risers	45	lm		
<i>Carried to Collection</i>					
<p data-bbox="188 936 411 969"><u>COLLECTION</u></p> <p data-bbox="188 1019 411 1052">From page BW/5</p> <p data-bbox="188 1102 354 1135">From Above</p>					
TOTAL FOR FRAME CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 3</u>				
	<u>WALLING</u>				
	<u>Precast concrete grade 20(12mm aggregate) including formwork, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in cement and sand (1:3) mortar</u>				
A	200 x 200 mm Lintel reinforced with and including two 12mm diameter mild steel rods hooked at ends	75	lm		
B	WINDOW CILL; 250 x 50 mm extreme height; once weathered; once throated; reinforced as necessary for handling; surface fair finish 275 mm girth; bedding, jointing and pointing in cement sand (1:3) mortar	105	lm		
	<u>NATURAL STONE WALLING</u>				
C	200 mm thick approved local; chisel dressed both sides; bedding, jointing and pointing in cement sand (1:3) mortar; external	531	sm		
D	200mm ditto; internal; reinforced with hoop iron at alternate courses	225	sm		
E	100mm ditto reinforced with hoop iron at alternate courses	67	sm		
F	200 mm eaves filling, 200mm high including dressing between rafters	99	lm		
G	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand (1:3) mortar; one coat of bituminous	531	sm		
TOTAL FOR WALLING CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 5</u>				
	<u>DOORS</u>				
	<u>External doors</u>				
	<u>Mild Steel</u>				
	<u>Heavy duty section mild steel doors with one coat red lead oxide primer complete</u>				
A	size 900 x 2400 mm.high double door comprising heavy Z,T and Flat sections,in 10 No .Panel size infilled with and including 3 mm thick plate and 1 no panel size 750 x 250 mm high prepared for glazing including all iron mongery accessories	7	No		
	<u>Wrot Cypress framed frames and framings</u>				
B	150 x 50 mm; 2 No. labours; plugged door frame	71	lm		
C	40x 35 mm moulded architrave	71	lm		
D	25 x 25mm moulded quadrants	71	lm		
E	15 x 15mm glazing bead	36	lm		
	<u>45mm Thick solid core flush doors to B.S 459: part 2 veneered both sides with internal quality plywood and lipped on all edges in approved hardwood</u>				
F	Door size 900 x 2400 mm high	15	no		
	<u>Iron mongery</u>				
	<u>Supply and fix the following to UNION catalogue or other equal and approved</u>				
	<i>To softwood, hardwood or the like fixing with screws</i>				
G	Three lever mortice lock complete with set lever aluminium handle furniture	3	No.		
<i>Carried to collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	Two lever mortice lock complete with set lever aluminium handle furniture	13	No.		
B	Indicator bolt	10	No.		
C	100mm steel butt hinges <i>To concrete or blockwork; fixing with bolts; plugging</i>	23	prs		
D	Rubber door stop complete with 38 mm rawl bolt <u>Glazing</u>	15	No.		
E	4mm Thick clear sheet glass panes to timber fan lights	8	sm		
F	4mm Thick obscure sheet glass panes to metal surfaces; fixing with putty <u>Painting and Decorations</u> <u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u>	3	sm		
G	General surfaces of doors; over 300mm girth internal <u>Prepare and apply one coat etching primer, one undercoat and two coats gloss oil paint to Crown Solo or other equal and approved to: -</u>	47	sm		
H	General surfaces of doors; over 300mm girth internal	47	sm		
I	General surfaces of metal doors <u>On wood</u> <u>Aluminium primer or other equal and approved wood primer before fixing: -</u>	20	sm		
J	Backs of frame, board, etc over 100mm but not exceeding 200mm girth <u>Knot, prime and stop; prepare and apply one undercoat and two coats of gloss oil paint</u>	71	lm		
K	Frames; over 100mm but not exceeding 200mm girth;	71	lm		
L	Frames not exceeding 100mm girth; internal	71	lm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>COLLECTION</u></p> <p>From page BW / 14</p> <p>From page BW / 15</p>				
TOTAL FOR DOORS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>Bull-nosed burnt clay, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement and sand (1:3) mortar</u>				
A	150 x 25mm thick clay window sill	75	lm		
B	6mm thick ceramic tiles finish to internal surfaces of window sills; 150mm girth	33	lm		
	<u>Wrot Cypress</u>				
C	150 x 25 mm thick window boards including bull-nosed edges and 25 x 25 mm bearer; plugged, counter sinking and flush pelleting.	75	lm		
D	15 x 15mm quadrant bead	75	lm		
	<u>Pelmet box</u>				
E	Comprising 150 x 25mm wide fascia, 2 No. 150 x 25mm ends 100mm long; 100 x 25mm blockboard top; and 50 x 25mm wrot cypress bearer; plugged	75	lm		
	<u>Curtain Tracks:</u>				
F	"Silent Gliss" Stardand I-section light duty brass single curtain track screwed to soffits of timber pelmet top (m/s) with brass plated screws, one bracket runner per 75mm of rail, two end stops per length and complete accessories to	75	lm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>METAL WORK</u></p> <p><u>PURPOSE - MADE UNITS</u></p> <p><u>Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish.</u></p> <p><i>Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging</i></p>				
A	Window, overall size 2000 x 2000mm high	26	No		
B	Ditto but size 600 x 600mm High	2	No		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Grills</u>				
	<u>High tensile steel burglar proof bars at 300mm cross centres horizontal and vertical; ends lugged in masonry.</u>				
A	12mm diameter bars welded and ground smooth to approval.	60	sm		
	<u>Glazing</u>				
B	4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty	23	sm		
C	Ditto but obscured panes ditto	4	sm		
	<u>Painting and Decorations</u>				
	<u>On Metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
D	General window surfaces; over 300mm girth internal	54	sm		
E	General window surfaces; over 300mm girth external	54	sm		
F	Surfaces of metal over 300mm girth (burglar proofing grills)	120	sm		
	<u>On wood</u>				
	<u>Aluminium primer or other equal and approved wood primer before fixing: -</u>				
G	Backs of frame, board, etc over 200mm but not exceeding 300mm girth	75	lm		
	<u>Prepare and apply three coats polyurethane clear varnish on woodwork internally</u>				
H	Frames; 200 to 300mm girth	75	lm		
I	Frames not exceeding 100mm girth; internal	75	lm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>COLLECTION</u>				
	From page BW / 17				
	From page BW / 18				
	From page BW / 19				
TOTAL FOR WINDOWS CARRIED TO SUMMARY					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	<u>Insitu finishes</u>				
	<u>Render; 18mm thick, 1 No. coatwork of cement and sand (1:3); wood floated to concrete or blockwork base generally to: -</u>				
A	Beams and Columns; external	123	sm		
	<u>Plaster; 18mm thick, 2 No. coatwork, 15mm first coat of cement sand (1:3); 3mm second coat of cement and lime putty (1:9); steel trowelled to concrete or blockwork base generally to: -</u>				
B	Walls, beams; internal	754	sm		
	<u>Painting and decorations</u>				
	<u>Prepare and apply three coats of first quality plastic emulsion paint to: -</u>				
C	Plastered walls; beams; internal	754	sm		
D	Rendred beams and columns; external	123	sm		
	<u>Tile, Slab or Block Finishings</u>				
	<u>Approved ceramic tiles to B.S. 1281; local; white glazed wall tiles to regular or approved other pattern; bedding and jointing in cement sand (1:4) mortar, grouting with white</u>				
E	6mm thick; butt joints straight both ways; to cement sand base (m/s) to walls internal	124	sm		
	<u>Beds or Backings</u>				
	<u>Render; cement and sand (1:3)</u>				
G	14mm thick one coat backings; wood floated to receive ceramic tiles (m/s) to concrete or blockwork base; to walls internal	124	sm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<p><u>Floor finishes</u></p> <p>TERRAZO FLOOR FINISH</p> <p><u>20mm thick, 2 No. coat work terrazzo; approved colour; cement and marble chippings (1:2); machine polished; to concrete or blockwork base generally to: -</u></p>				
D	Floor areas	487	Sm		
E	150mm High terrazzo skirting: rounded top and coved junction with floor.	274	Lm		
F	25 x 3mm plastic dividing strips cut to lengths and set vertically to screed to form margins.	234	Lm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>STAIRCASE</u>				
	<u>In situ Finishings</u>				
	<u>20mm thick, 2 No. coat work terrazzo; approved colour; cement and marble chippings (1:2); machine polished; to concrete or blockwork base generally to: -</u>				
A	Quarter space or half space landing; internal	6	sm		
B	Treads; 250mm wide, internal	41	lm		
C	Risers; 150mm wide, internal	41	lm		
D	Skirtings; 100mm wide with rounded junction with wall finish and coved junction with floor finish	18	lm		
	<u>Beds or Backings</u>				
	<u>Screed; cement and sand (1:3)</u>				
	<u>20 mm thick one coat backings; wood floated to receive terrazzo (m/s) to concrete or blockwork base to:-</u>				
E	Quarter space or half space landing; internal	6	sm		
F	Treads; 250mm wide, internal	41	lm		
G	Risers; 150mm wide, internal	41	lm		
	<u>METAL WORK</u>				
	<u>PURPOSE MADE UNITS</u>				
	<u>Balustrades</u>				
J	1000 mm long, 20mm diameter diameter steel rods, fanged at one end built into concrete, other end welded and ground smooth	64	No.		
	<u>Handrail and bottom rail</u>				
K	40 x 4mm thick steel flat welded and ground smooth to balustrades	25	lm		
	<u>Intermediate rails</u>				
L	40 x 4mm thick steel flat welded and ground smooth to balustrades	25	lm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	<p><u>Wrot mahogany</u></p> <p>100 x 50mm moulded handrail screwed to steel flat including countersinking and flush pelling</p> <p><u>Painting and Decorations</u></p> <p><u>To metal surfaces</u></p> <p><u>One coat etching primer; one undercoat; two coats super gloss oil paint to "Crown Paints" or other equal and approved</u></p>	25	lm		
B	Small pipes	64	lm		
C	<p>Frames; 100 to 200mm girth</p> <p><u>To wood surfaces</u></p> <p><u>Knot, prime and stop, prepare and apply three coats of two pack polyurethane varnish on: -</u></p>	25	lm		
D	<p>Surfaces of handrail and skirtings over 100mm but not exceeding 200mm girth</p> <p><u>Ceiling finishes</u></p> <p><u>12mm (minimum) two-coat plaster; 9mm first coat of cement sand (1:6), 3mm second coat of cement and lime putty (1:10); steel trowelled to: -</u></p>	25	lm		
E	Concrete soffits	487	sm		
F	Ditto to sloping soffits of staircase and ramp	8	sm		
G	Ditto to soffits of landing	5	sm		
<i>Carried to Collection</i>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>COLLECTION</u>				
	From page BW / 21				
	From page BW / 22				
	From page BW / 23				
	From page BW / 24				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

PROPOSED CONSTRUCTION OF CLASSES FOR KEWI AT CIAKARIGA CAMPUS - EMBU

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>SUMMARY</u>				
ELEMENT NO.	TITLE			PAGE NO.	
1	SUBSTRUCTURE (ALL PROVISIONAL)			BW / 4	
2	FRAME			BW / 6	
3	WALLING			BW / 7	
5	DOORS			BW / 10	
6	WINDOWS			BW / 14	
7	FINISHES			BW / 19	
TOTAL FOR BUILDING CARRIED TO GRAND SUMMARY					