BILLS OF QUANTITIES

ADMINISTRATION BUILDING

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as Class I rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as Class II rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as Class III rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	130	
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1	
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1	
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1	
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1	
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1	
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1	
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	606	
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	606	
	Earthworks, Excavations and Fillings			
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	909	
L	Excavate for column bases commencing from the reduced level not exceeding 1.5m deep	cm	37	
M	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	49	
N	Extra over excavation in different classes of rock	cm	199	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item		
B	Allow for keep excavations free of water including any necessary pumping	Item		
C	Return, fill and ram selected soil in foundations	cm	619	
D	Remove surplus soil and dispose as directed	cm	376	
	Mass concrete class 15/20: in			
E	50mm thick blinding under strip footing	sm	190	
F	Ditto to column bases	sm	95	
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in			
G	Strip footing	cm	38	
H	Column bases	cm	33	
J	Columns	cm	7	
K	Ground beam	cm	21	
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
L	Steps	cm	6	
M	150mm thick solid ground floor slab	sm	556	
N	150mm ramp	sm	26	
	Mesh fabric reinforcement			
P	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	556	
Q	Ditto; to ramps	sm	26	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
A	Assorted bars	Kg	12600	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
B	Sides of strip footing	sm	136	
C	Sides of column starters	sm	88	
D	Sides of column bases	sm	90	
E	Soffits of ramp	sm	26	
F	Sides and soffits of ground beam	sm	271	
G	Edges: steps 75mm - 150mm girth	m	47	
H	Edges: ground floor slab 75mm - 150mm girth	m	140	
	Foundation Walling			
J	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	518	
	Imported fill			
K	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	504	
L	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	756	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Blinding			
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	504	
	Anti-termite treatment			
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	504	
	DPM			
C	Gauge 1000 polythene damp proof membrane	sm	556	
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to			
D	Plinths: externally	sm	67	
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to			
E	Plinths: externally	sm	67	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page ADM / 1			
	From Page ADM / 2			
	From Page ADM/ 3			
	From Page ADM / 4			
	From Page ADM / 5			
	From Page ADM / 6			
	SUBSTRUCTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	Ground floor columns	cm	10	
B	Ring beam	cm	25	
C	Roof level columns	cm	4	
D	Roof beam	cm	19	
E	100mm thick vanity tops	sm	6	
F	100mm thick concrete plinths	sm	5	
	Reinforcement			
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
G	Assorted bars	Kg	6960	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
H	Sides of ground floor columns	sm	131	
J	Sides and soffits of ring beam	sm	291	
K	Sides of roof level columns	sm	52	
L	Sides and soffits of roof beam	sm	228	
M	Soffits of vanity tops	sm	6	
N	Edges: plinths 75mm - 150mm girth	m	12	
	Mesh fabric reinforcement			
P	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in vanity tops and plinths: including all necessary supports	sm	18	
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 3: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	383	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
B	200mm wide	m	170	
	Internal Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
C	200mm thick walls	sm	154	
D	150mm thick walls	sm	57	
E	100mm thick walls	sm	41	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
F	200mm thick walls	m	52	
G	150mm thick walls	m	57	
H	100mm thick walls	m	41	
	Gable and Parapet walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
J	200mm thick gable walls	sm	372	
K	200mm thick parapet walls	sm	99	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Coping			
A	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	280	
	Carried to Collection			
	COLLECTION			
	From Page ADM / 9			
	From Page ADM/ 10 (above)			
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4: ROOFING			
	(ALL PROVISIONAL)			
	Roof Covering			
	24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profile, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to Structural Engineer details			
A	Roof covering	sm	794	
	Under-roof sisalation			
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to;	sm	794	
	The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes			
C	200mm x 50mm purlins	m	364	
D	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	128	
E	100mm x 50mm common rafters	m	1177	
F	200mm x 50mm valley rafter	m	87	
G	200mm x 50mm ridge board	m	51	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	TRUSS 1, 1A,1B, 2 2A			
	The following in 36 No. trusses			
A	150mm x 50mm principal rafters	m	382	
B	100mm x 50mm struts and ties	m	504	
C	150mm x 50mm tie beam	m	303	
D	100mm x 50mm kingpost	m	72	
	Rainwater goods			
	610mm girth x 2mm thick mild steel gutter: fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres: holes for down pipes as necessary: closed ends			
E	Mild steel gutter to details	m	118	
	Extra over rainwater goods for :-			
F	100mm diameter outlet	No	19	
G	Stopped end	No	4	
	Wrot celcured cypress			
H	100mm x 25mm T & G eaves boarding fixed to bearers	sm	89	
J	50mm x 50mm runners	m	148	
K	50mm x 50mm bearers	m	149	
	Wrot celcured prime grade cypress			
L	250mm x 38mm fascia board and verge boards	m	148	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
M	General surfaces of eaves	sm	89	
N	Surfaces between 200mm and 300mm girth	m	148	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page ADM / 11			
	From Page ADM / 12 (above)			
	ROOFING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; WINDOWS			
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement			
A	250mm x 100mm thick cill	m	76	
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to			
B	Window cills; 200mm to 300mm wide	m	76	
	Wrot mahogany: prime grade, selected			
C	200mm x 20mm thick window board	m	76	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
D	Over 100mm but not exceeding 200mm girth: window board	m	76	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	76	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Steel Windows			
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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			
A	700mm width x 2000mm overall size	No	5	
B	900mm width x 2000mm overall size	No	38	
C	900mm width x 1000mm overall size	No	5	
D	900mm width x 3000mm overall size	No	2	
E	2000mm width x 2000mm overall size	No	4	
F	2150mm width x 3000mm overall size	No	4	
G	2700mm width x 2000mm overall size	No	2	
H	4900mm width x 1000mm overall size	No	2	
	Glazing			
	6mm thick glass and glazing to casements with linseed putty			
J	Windows; pane size to Architect's details	sm	116	
	6mm thick obscured glass and glazing to casements with linseed putty			
K	Windows to washroom areas; pane size to Architect's details	sm	10	
	8mm thick laminated glass and glazing to casements with linseed putty			
L	Windows; pane size to Architect's details	sm	23	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
A	Windows; both sides measured	sm	296	
	Carried to Collection			
	COLLECTION			
	From Page ADM / 14			
	From Page ADM/ 15			
	From Page ADM/ 16			
	WINDOWS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 6; DOORS			
	Timber doors			
A	Supply and fix 50mm thick hollow core flush door; overall size 1000mm x 2400 mm high; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule (D12)	No	1	
B	Ditto 900mm x 2400mm (D8)	No	14	
C	Ditto 800mm x 2400mm (D9)	No	2	
D	Ditto 800mm x 2000mm (D10)	No	4	
	Door Frames			
	Wrot cypress: prime grade; selected			
E	200mm x 50mm thick door frames	m	133	
F	Ditto transomes	m	133	
G	50mm x 75mm Architrave: splayed	m	133	
H	12mm diameter hardwood quodrant	m	133	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
J	Over 100mm but not exceeding 200mm girth	m	133	
K	Not exceeding 100mm girth	m	133	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
L	Over 100mm but not exceeding 200mm girth	m	266	
M	Not exceeding 100mm girth	m	266	
N	General timber surfaces: doors	sm	85	
	Glazing			
	6mm thick clear glass with safety film to door fixed with glass beading			
P	Doors; pane size to Architect's details	sm	8	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Metal Doors			
	Supply and fix the following steel door; complete with all necessary ironmongery, steel sections, frame, mullion and stiles (refer to Architect's details)			
A	1500mm x 2550mm pressed steel double leaf door complete with; 75mm x 25mm vertical stile; 75mm x 25mm to and bottom stile; 8mm thick laminated safety glass complete with frames ; hinges, stays, fasteners, assembled and fixed to opening including cutting and pinning lugs; to Architect's , detail and specification (D17)	No	2	
	Aluminium Framed Door			
	Supply and fix aluminium framed doors with approved powder coated aluminium in framing in sections of size 75mm x 35mm x 2mm thick fixed to wall / beam / column around openings, including glazing with 8mm thick laminated glass; secured to the framing using approved glazing strips and glazing beading including waterproofing all joints using approved silicon sealing compounds with all the necesarry ironmongery and fittings; all to Architect's door schedules' details and approval			
B	Single leaf doors; overall size 800mm x 2100mm overall height (D6)	No	1	
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval			
C	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	31 1/2	
D	Stainless steel (304) thumb turn indicator locks	No	5	
E	Four lever mortice locks with furniture	No	16	
F	Polished stainless steel door handles	No	42	
G	Rubber door stopper	No	21	
H	2mm thick satin stainless steel kick plate screwed to door surfaces	No	42	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	2mm thick satin stainless steel push plate screwed to door surfaces	No	21	
B	Aluminium coat hanger	No	7	
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
C	Doors; both sides measured	sm	16	
	Carried to Collection			
	COLLECTION			
	From Page ADM / 17			
	From Page ADM/ 18			
	From Page ADM/ 19 (above)			
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 7; FINISHES			
	FLOOR FINISHES			
	Screed: cement and sand (1:3) on concrete: wood floated finished			
A	32mm thick screed to receive ceramic tiles	sm	479	
	Ceramic Tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
B	400mm x 400mm x 8mm thick tiles	sm	479	
C	150mm high skirting	m	326	
	WALL FINISHES:			
	Internal wall finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
D	Walls	sm	887	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
E	Walls to receive ceramic tiles (m.s.)	sm	98	
F	Vanity tops	sm	6	
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
G	400mm x 400mm x 8mm thick tiles	sm	98	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
A	Walls	sm	887	
	EXTERNAL WALL FINISHES			
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to			
B	Walls and concrete surfaces	sm	581	
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications			
C	Externally to walls and concrete surfaces	sm	581	
	CEILING & BEAM FINISHES			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
D	Sides and soffits of beams	sm	291	
	Wrot celcured cypress			
E	25mm Tongue and Groove (T&G) boarding fixed to and including brandering	sm	112	
F	75mm coved cornice	m	53	
	Accoustic Celing			
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary			
G	Ceiling: patterns to Architect's approval and detail	sm	348	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
A	Beams	sm	291	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
B	Softboard ceiling internally	sm	112	
C	Surfaces 0 - 100mm girth; cornice	m	53	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	STEPS AND RAMP AND FINISHES			
	Screed: cement and sand (1:3): on concrete wood floated			
A	20mm thick: to ramps	sm	26	
B	20mm thick: to 800mm wide treads to receive ceramic tiles	m	72	
C	20mm thick: 150mm high risers ditto	m	79	
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.(Prime cost rate for puchase of tiles Ksh. 1500 per square metre) Rates to include for aluminium corner strip			
D	800mm wide treads	sm	58	
E	150mm high risers	m	79	
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)			
F	20mm thick: to ramps	sm	26	
G	20mm thick; to vanity tops	sm	6	
	Ramp/ Steps railing			
H	900mm high balustrading in mild steel steel comprising 25mm x 50mm diameter mild steel rectangular hollow section (RHS) handrail, 50mm x 50mm SHS balusters (standards) at 1000mm centres with one end grouted to concrete floor and other end welded to handrail; 25mm x 6mm flat profile at 100mm centers; powder coated to approval; all as per architect's detail	m	68	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page ADM / 20			
	From Page ADM/ 21			
	From Page ADM/ 22			
	From Page ADM/ 23			
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 8; JOINERY & FIXTURES			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	100mm thick concrete plinth	sm	3	
B	50mm thick counter top and shelves	sm	3	
	Mesh fabric reinforcement			
C	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	6	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
D	Soffits of counter tops and shelves	sm	3	
E	Edges: Plinths 75mm - 150mm girth	m	6	
F	Edges: of counter tops depth not exceeding 75mm	m	6	
	Screed: cement and sand (1:3) on concrete: wood floated finished			
G	20mm thick screed	sm	6	
	Supply and fix 20mm thick Medium Density Fibreboard (MDF), complete with runners and bearers including edge lipping, brackets or supports and all necessary fixings to;-			
H	Side boards	sm	4	
J	Divisions	sm	3	
K	Shelving	sm	6	
L	Bottoms	sm	6	
M	Top	sm	3	
N	150mm high Skirting	m	6	
	Door			
P	Supply and fix approved doors complete with frames, hinges and handles overall size 450mm x 780mm	No	14	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix approved granite with adhesive; to regular pattern: bedding and jointing in cement mortar (1:4) grouting joints with proprietary grouting laid on cement sand base (m/s)			
A	20mm thick granite top	sm	3	
	Prepare surfaces: apply three coats of approved varnish: on timber surfaces: to			
B	General timber surfaces	sm	54	
	Drawers			
C	Supply and fix drawer size 800mm x 600mm x 379mm high, constructed of 20mm thick MDF bottom, top, sides and divisions all properly glued, housed and blocked together including all necessary grooves fixing to position and apply three coats of approved varnish as per Architects approval	No	1	
D	Ditto; 800 x 600 x 250mm high	No	1	
E	Diito; 800 x 600 x 100mm high	No	1	
	Carried to Collection			
	COLLECTION			
	From Page ADM / 25			
	From Page ADM/ 26 (above)			
	JOINERY & FIXTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	ADMINISTRATION BUILDING			
	SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. SUBSTRUCTURE		ADM / 7	
	2. REINFORCED CONCRETE SUPERSTRUCTURE		ADM / 8	
	3. WALLING		ADM / 10	
	4. ROOF		ADM / 13	
	5. WINDOWS		ADM / 16	
	6. DOORS		ADM / 19	
	7. FINISHES		ADM / 24	
	8. JOINERY FITTINGS AND FIXTURES		ADM / 26	
	TOTAL ADMINISTRATION BUILDING CARRIED TO MAIN SUMMARY			

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

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TEACHING BUILDING

GROUND FLOOR

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	146	
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1	
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	2	
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	4	
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	3	
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1	
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1	
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	496	
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	496	
	Earthworks, Excavations and Fillings			
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	717	
L	Excavate for column bases commencing from the reduced level not exceeding 1.5m deep	cm	75	
M	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	36	
N	Extra over excavation in different classes of rock	cm	166	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item		
B	Allow for keep excavations free of water including any necessary pumping	Item		
C	Return, fill and ram selected soil in foundations	cm	252	
D	Remove surplus soil and dispose as directed	cm	576	
	Mass concrete class 15/20: in			
E	50mm thick blinding under strip footing	sm	201	
F	Ditto to column bases	sm	105	
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in			
G	Strip footing	cm	21	
H	Column bases	cm	33	
J	Columns	cm	7	
K	200mm thick Shear Walls	sm	21	
L	Ground beam	cm	17	
M	250mm thick lift walls	sm	6	
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
N	150mm thick solid ground floor slab	sm	480	
	Mesh fabric reinforcement			
P	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	480	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
A	Assorted bars	Kg	12060	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
B	Sides of strip footing	sm	68	
C	Sides of column starters	sm	88	
D	Sides of column bases	sm	90	
E	Sides of shear walls	sm	42	
F	Sides and soffits of ground beam	sm	161	
G	Sides of lift walls	sm	12	
H	Edges: ground floor slab 75mm - 150mm girth	m	95	
	Foundation Walling			
J	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	165	
	Imported Fill			
K	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	480	
L	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	576	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Blinding			
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	480	
	Anti-termite treatment			
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	480	
	DPM			
C	Gauge 1000 polythene damp proof membrane	sm	480	
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to			
D	Plinths: externally	sm	42	
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to			
E	Plinths: externally	sm	42	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page TB GF / 1			
	From Page TB GF / 2			
	From Page TB GF/ 3			
	From Page TB GF / 4			
	From Page TB GF / 5			
	From Page TB GF / 6			
	SUBSTRUCTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	Columns	cm	16	
B	Beams	cm	20	
C	200mm thick shear walls	sm	31	
D	250mm thick lift walls	sm	19	
E	150mm thick slab to raised auditorium	sm	50	
F	150mm thick sloping slab of auditorium	sm	60	
G	Steps of auditorium	cm	9	
H	Staircase	cm	9	
	Reinforcement			
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
J	Assorted bars	Kg	9774	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
K	Sides of columns	sm	236	
L	Sides and soffits of beams	sm	308	
M	Sides of shear walls	sm	62	
N	Sides of lift walls	sm	38	
P	Soffits of 150mm thick raised auditorium slab	sm	50	
Q	Soffits of sloping slabs of auditorium	sm	60	
R	Sides of steps	sm	20	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Edges: raised auditorium floor slab 75mm - 150mm girth	m	44	
B	Soffits of sloping slabs of staircase	sm	18	
C	Ditto to 150mm risers and edges	m	93	
D	Ditto edges of strings	m	24	
E	Ditto landing edges	m	21	
	Carried to Collection			
	COLLECTION From Page TB GF / 8 From Page TB GF / 9 (Above)			
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 3: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	206	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
B	200mm wide	m	88	
	Internal Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
C	200mm thick walls	sm	216	
D	150mm thick walls	sm	30	
E	100mm thick walls	sm	38	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
F	200mm thick walls	m	75	
G	150mm thick walls	m	11	
H	100mm thick walls	m	16	
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4; WINDOWS			
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement			
A	250mm x 100mm thick cill	m	29	
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to			
B	Window cills; 200mm to 300mm wide	m	29	
	Wrot mahogany: prime grade, selected			
C	200mm x 20mm thick window board	m	29	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
D	Over 100mm but not exceeding 200mm girth: window board	m	29	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	29	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Steel Windows			
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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			
A	W03; 900mm width x 1000mm overall size	No	5	
B	W16; 1200mm width x 5400mm overall size	No	4	
C	W18; 600mm width x 3600mm overall size	No	4	
D	W19; 3000mm width x 2000mm overall size	No	3	
E	W20; 900mm width x 2000mm overall size	No	6	
F	W21; 3000mm width x 1000mm overall size	No	1	
	Glazing			
	6mm thick glass and glazing to casements with linseed putty			
G	Windows; pane size to Architect's details	sm	25	
	6mm thick obscured glass and glazing to casements with linseed putty			
H	Windows to washroom areas; pane size to Architect's details	sm	9	
	8mm thick laminated glass and glazing to casements with linseed putty			
J	Windows; pane size to Architect's details	sm	28	
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
K	Windows; both sides measured	sm	142	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page TB GF / 11			
	From Page TB GF / 12			
	WINDOWS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; DOORS			
	Timber doors			
	Supply and fix 50mm thick hollow core flush door; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule			
A	D08; 900mm x 2400mm high overall height; including a fanlight of 600mm high (m.s); single leaf door	No	9	
B	D10; 800mm x 2000mm high overall height; single leaf door	No	4	
C	D12; 1000mm x 2400mm high overall height; including a fanlight of 600mm high (m.s); single leaf door	No	2	
D	D18; 1500mm x 2400mm high overall height; double leaf door	No	2	
	Door Frames			
	Wrot cypress: prime grade; selected			
E	200mm x 50mm thick door frames	m	102	
F	Ditto transomes	m	102	
G	50mm x 75mm Architrave: splayed	m	102	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
H	Over 100mm but not exceeding 200mm girth	m	102	
J	Not exceeding 100mm girth	m	102	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
K	Over 100mm but not exceeding 200mm girth	m	204	
L	Not exceeding 100mm girth	m	204	
M	General timber surfaces: doors	sm	88	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Glazing			
	6mm thick clear glass with safety film to door fixed with glass beading			
A	Doors; pane size to Architect's details	sm	6	
	Metal Doors			
	Supply and fix the following steel doors; comprising of 75mm x 25mm horizontal and vertical stiles; 75mm x 25mm top and bottom stiles; 8mm thick laminated safety glass complete with frames ; complete with all necessary ironmongery, steel sections, frame, mullion and stiles (refer to Architect's details)			
B	D24; 800mm x 1800mm high overal height; single leaf door	No	1	
C	D26; 1800mm x 2700mm high overal height; double leaf door	No	2	
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
D	Doors; both sides measured	sm	23	
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; finish to Architect's door schedule and approval			
E	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	29	
F	Stainless steel (304) thumb turn indicator locks	No	4	
G	Four lever mortice locks with furniture	No	11	
H	Polished stainless steel door handles	No	30	
J	Rubber door stopper	No	17	
K	2mm thick satin stainless steel kick plate screwed to door surfaces	No	17	
L	2mm thick satin stainless steel push plate screwed to door surfaces	No	17	
M	Aluminium coat hanger	No	4	
N	25mm diameter stainless steel handles	No	4	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page TB GF / 14			
	From Page TB GF / 15			
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 6; FINISHES			
	FLOOR FINISHES			
	Screed: cement and sand (1:3) on concrete: wood floated finished			
A	32mm thick screed to receive ceramic tiles	sm	449	
	Ceramic Tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
B	400mm x 400mm x 8mm thick tiles	sm	296	
C	150mm high skirting	m	326	
	PVC Rubber Tiles			
	Supply and fix approved interlocking PVC rubber floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
D	Rubber Flooring	sm	153	
E	150mm high skirting	m	80	
	WALL FINISHES:			
	Internal wall finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
F	Walls	sm	736	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
G	Walls to receive ceramic tiles (m.s.)	sm	28	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
A	400mm x 400mm x 8mm thick tiles	sm	28	
B	Ditto lift tiles	sm	26	
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
C	Walls	sm	736	
	EXTERNAL WALL FINISHES			
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to			
D	Walls and concrete surfaces	sm	98	
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications			
E	Externally to walls and concrete surfaces	sm	98	
	Keying and Pointing			
F	Form keyed and pointed finish to exposed masonry walling, including striking and finishing joints in cement and sand mortar and brushing the wall face to produce a uniform textured keyed appearance	sm	179	
	CEILING & BEAM FINISHES			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
G	Ceiling and sides and soffits of beams	sm	296	
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
H	Ceiling and sides and soffits of beams	sm	296	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	STAIRCASE FINISHES			
	Staircase Floor Finish			
	Screed: cement and sand (1:4) on concrete: wood floated finished			
A	Landing	sm	9	
B	150mm high skirting to profile of staircase	m	93	
C	300mm wide treads	m	57	
D	150mm high staircase risers	m	36	
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
E	Landing	sm	9	
F	150mm high skirting to profile of staircase	m	93	
G	300mm wide treads	m	57	
H	150mm high staircase risers	m	36	
	Mild Steel Stage			
J	Allow a provisional sum for construction of a mild steel stage platform approximately 12m² ; finished with approved varnished timber decking boards on mild steel framework; complete with mild steel columns, beams, bracing members, supports, base plates, cleats, connections, welding, bolting, anchoring to floor slab and all necessary structural supports and accessories; The stage to include staircases on both sides each comprising three mild steel framed steps complete with treads and risers powder coated finish, fixing accessories and all necessary works; all in accordance with engineer's details and instructions	Item		
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page TB GF / 17			
	From Page TB GF / 18			
	From Page TB GF / 19 (above)			
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 7; JOINERY & FIXTURES			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	38mm thick concrete shelves	sm	24	
	Mesh fabric reinforcement			
B	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	24	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
C	Soffits of shelves	sm	24	
D	Edges: of shelves depth not exceeding 75mm	m	44	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
E	Walls to receive terrazzo (m.s.)	sm	48	
	Terrazzo			
F	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)	sm	48	
	JOINERY & FIXTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	TEACHING BUILDING GROUND BUILDING			
	SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. SUBSTRUCTURE		TB GF / 7	
	2. REINFORCED CONCRETE SUPERSTRUCTURE		TB GF / 9	
	3. WALLING		TB GF / 10	
	4. WINDOWS		TB GF / 13	
	5. DOORS		TB GF / 16	
	6. FINISHES		TB GF / 20	
	7. JOINERY & FIXTURES		TB GF / 21	
	TEACHING BUILDING GROUND FLOOR CARRIED TO MAIN SUMMARY			

Amount (Kshs)

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FIRST FLOOR

Item	Description	Unit	Qty	Rate
	ELEMENT No. 1: REINFORCED CONCRETE SUPERSTRUCTURE			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	Columns	cm	18	
B	Columns to roof level	cm	9	
C	Beams	cm	18	
D	Beams on roof level	cm	10	
E	200mm thick shear walls	sm	22	
F	250mm thick lift walls	sm	32	
G	150mm thick first floor slab	sm	280	
H	150mm thick lift top slab	sm	4	
	Reinforcement			
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
J	Assorted bars	Kg	13200	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
K	Sides of columns	sm	408	
L	Sides and soffits of beams	sm	496	
M	Sides of shear walls	sm	44	
N	Sides of lift walls	sm	64	
P	Soffits of first floor and lift top slab	sm	284	
Q	Edges: ground floor slab 75mm - 150mm girth	m	156	
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	260	
B	150mm thick walls	sm	124	
	Internal Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
C	200mm thick walls	sm	429	
D	150mm thick walls	sm	50	
E	100mm thick walls	sm	49	
	Concrete Vents			
F	300mm x 300mm precast concrete vents blocks laid and jointed with cement and sand mortar; painted to detail; all to Architect's details and specifications	sm	12	
	Coping			
G	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	8	
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 3: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**			
A	Roof covering **Under-roof sisalation**	sm	605	
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to; ***The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes***	sm	605	
C	150mm x 50mm purlins	m	698	
D	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	150	
E	150mm x 50mm common rafters	m	374	
F	150mm x 50mm valley and hip rafter	m	75	
G	200mm x 50mm ridge board	m	70	
H	50mm x 25mm batterns	m	80	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	TRUSS T1			
	The following in 3 No. truss			
A	150mm x 50mm principal rafters	m	394	
B	100mm x 50mm struts and ties	m	1543	
C	150mm x 50mm tie beam	m	230	
D	100mm x 50mm kingpost	m	84	
	TRUSS T2			
	The following in 2 No. truss			
E	150mm x 50mm principal rafters	m	366	
F	100mm x 50mm struts and ties	m	986	
G	150mm x 50mm tie beam	m	194	
H	100mm x 50mm kingpost	m	68	
	UPVC rainwater goods to M/s Metro Catalogue			
J	125mm x 150mm box gutter fixed with manufacturer's approved brackets at 600mm centres	m	100	
	Wrot celcured cypress			
K	100mm x 25mm T & G eaves boarding fixed to bearers	sm	90	
L	50mm x 50mm runners	m	170	
M	50mm x 50mm bearers	m	240	
	Wrot celcured prime grade cypress			
N	250mm x 38mm fascia board and verge boards	m	240	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
P	General surfaces of eaves	sm	90	
Q	Surfaces between 200mm and 300mm girth	m	240	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Perspex Roofing			
	Supply and fix 12mm thick clear perspex roofing shade to approved framework (measured separately).			
A	Roof Covering	sm	215	
	Unframed mild steel work as described complete with bolts, nuts, washers, splash plates and base plates; including drilling, hoisting and placing at roof level, one coat red oxide primer before fixing and touch up on completion to approval			
	The following in 8No. Truss type T1 including all necessary nailing/bolting, drilling holes			
B	100mm x 50mm x 4mm Rectangular Hollow Section (RHS) external members x (8.5kg/m)	Kgs	2632	
C	75mm x 75mm x 3mm Square Hollow Section (SHS) internal members x (6.6kg/m)	Kgs	1420	
	Carried to Collection			
	COLLECTION			
	From Page TB FF / 3			
	From Page TB FF / 4			
	From Page TB FF / 5 (above)			
	ROOFING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4; WINDOWS			
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement			
A	250mm x 100mm thick cill	m	34	
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to			
B	Window cills; 200mm to 300mm wide	m	34	
	Wrot mahogany: prime grade, selected			
C	200mm x 20mm thick window board	m	34	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
D	Over 100mm but not exceeding 200mm girth: window board	m	34	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	34	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Steel Windows			
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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			
A	W19; 3000mm width x 2000mm overall size	No	3	
B	W20; 900mm width x 2000mm overall size	No	14	
C	W22; 900mm width x 1500mm overall size	No	6	
D	W23; 600mm width x 3600mm overall size	No	6	
E	W24; 3000mm width x 1500mm overall size	No	1	
F	Window above steel doors on ground floor; 1800mm width x 2550mm overall size	No	2	
	Glazing			
	6mm thick glass and glazing to casements with linseed putty			
G	Windows; pane size to Architect's details	sm	65	
	8mm thick laminated glass and glazing to casements with linseed putty			
H	Windows; pane size to Architect's details	sm	10	
J	Ditto for 12mm thick glass	sm	5	
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
K	Windows; both sides measured	sm	160	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page TB FF / 6			
	From Page TB FF / 7 (above)			
	WINDOWS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; DOORS			
	Timber doors			
	Supply and fix 50mm thick hollow core flush door; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule			
A	D08; 900mm x 2400mm high overall height; including a fanlight of 600mm high (m.s); single leaf door	No	8	
B	D07; 900mm x 2400mm high overall height; single leaf door; including 8mm thick laminated glass vision panel with beading to architects approval	No	2	
C	D10; 800mm x 2000mm high overall height; single leaf door	No	4	
D	D12; 1000mm x 2400mm high overall height; including a fanlight of 600mm high (m.s); single leaf door	No	2	
	Door Frames			
	Wrot cypress: prime grade; selected			
E	200mm x 50mm thick door frames	m	60	
F	Ditto transomes	m	60	
G	50mm x 75mm Architrave: splayed	m	60	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
H	Over 100mm but not exceeding 200mm girth	m	60	
J	Not exceeding 100mm girth	m	60	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
K	Over 100mm but not exceeding 200mm girth	m	120	
L	Not exceeding 100mm girth	m	120	
M	General timber surfaces: doors	sm	77	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Glazing			
	6mm thick clear glass with safety film to door fixed with glass beading			
A	Doors; pane size to Architect's details	sm	5	
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; finish to Architect's door schedule and approval			
B	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	24	
C	Stainless steel (304) thumb turn indicator locks	No	4	
D	Four lever mortice locks with furniture	No	16	
E	Polished stainless steel door handles	No	32	
F	Rubber door stopper	No	16	
G	2mm thick satin stainless steel kick plate screwed to door surfaces	No	16	
H	2mm thick satin stainless steel push plate screwed to door surfaces	No	16	
J	Aluminium coat hanger	No	4	
K	25mm diameter stainless steel handles	No	4	
	Carried to Collection			
	COLLECTION			
	From Page TB FF / 9			
	From Page TB FF / 10 (Above)			
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 6; FINISHES			
	FLOOR FINISHES			
	Screed: cement and sand (1:3) on concrete: wood floated finished			
A	32mm thick screed to receive ceramic tiles	sm	280	
	Ceramic Tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
B	400mm x 400mm x 8mm thick tiles	sm	280	
C	150mm high skirting	m	183	
	WALL FINISHES:			
	Internal wall finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
D	Walls	sm	577	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
E	Walls to receive ceramic tiles (m.s.)	sm	28	
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
F	400mm x 400mm x 8mm thick tiles	sm	28	
G	Ditto lift tiles	sm	44	
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
H	Walls	sm	577	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	EXTERNAL WALL FINISHES			
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to			
A	Walls and concrete surfaces	sm	274	
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications			
B	Externally to walls and concrete surfaces	sm	274	
	Keying and Pointing			
C	Form keyed and pointed finish to exposed masonry walling, including striking and finishing joints in cement and sand mortar and brushing the wall face to produce a uniform textured keyed appearance	sm	87	
	Wrot celcured cypress			
D	100mm x 25mm T & G eaves boarding fixed to and including brandering	sm	280	
E	75mm coved cornice	m	53	
	Accoustic Celing			
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary			
F	Ceiling: patterns to Architect's approval and detail	sm	177	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
G	Softboard ceiling internally	sm	280	
H	Surfaces 0 - 100mm girth; cornice	m	53	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Glass Canopy Roofing			
	Supply and fix 8mm thick tempered glass roofing canopy; cable suspended and fixed to approved framework including all necessary curvatures, hoisting, placing and connections to structural Engineer details and specifications			
A	Glass Canopy	sm	20	
	Unframed mild steel work as described complete with bolts, nuts, washers, splash plates and base plates; including drilling, hoisting and placing approximately 4200mm above ground floor slab level, one coat red oxide primer before fixing and touch up on completion to approval			
B	SHS members 100mm x 100 mm x 4mm (12.18kg/m)	Kg	488	
	Carried to Collection			
	COLLECTION			
	From Page TB FF / 11			
	From Page TB FF / 12			
	From Page TB FF / 13			

Item	Description	Unit	Qty	Rate
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 7; JOINERY & FIXTURES			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	38mm thick concrete shelves	sm	40	
	Mesh fabric reinforcement			
B	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	40	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
C	Soffits of shelves	sm	40	
D	Edges: of shelves depth not exceeding 75mm	m	44	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
E	Walls to receive terrazzo (m.s.)	sm	80	
	Terrazzo			
F	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)	sm	80	
	JOINERY & FIXTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	TEACHING BUILDING GROUND BUILDING			
	FIRST FLOOR SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. REINFORCED CONCRETE SUPERSTRUCTURE		TB FF / 1	
	2. WALLING		TB FF / 2	
	3. ROOFING		TB FF / 5	
	4. WINDOWS		TB FF / 8	
	5. DOORS		TB FF / 10	
	6. FINISHES		TB FF / 13	
	7. JOINERY & FIXTURES		TB FF / 14	
	TEACHING BUILDING FIRST FLOOR CARRIED TO MAIN SUMMARY			

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

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Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	TEACHING BUILDING SUMMARY			
	ELEMENT NO.		**PAGE NO.**	
	1. GROUND FLOOR		GF/ 22	
	2. FIRST FLOOR		FF / 16	
	TOTAL TEACHING BUILDING WORKS CARRIED TO MAIN WORKS SUMMARY			

Amount (Kshs)

AQUA CENTRE

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	155	
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1	
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	3	
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1	
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1	
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	4	
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1	
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	1470	
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	1470	
	Earthworks, Excavations and Fillings			
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	2205	
L	Excavate for column bases commencing from the reduced level depth exceeding 1.5m but not exceeding 3.0m deep	cm	40	
M	Excavate for strip foundation commencing from the reduced level depth exceeding 1.5m but not exceeding 3.0m deep	cm	99	
N	Extra over excavation in different classes of rock	cm	441	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item	1	
B	Allow for keep excavations free of water including any necessary pumping	Item	1	
C	Return, fill and ram selected soil in foundations	cm	555	
D	Remove surplus soil and dispose as directed	cm	2343	
	Mass concrete class 15/20: in			
E	50mm thick blinding under strip footing	sm	330	
F	Ditto to column bases	sm	113	
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in			
G	Strip footing	cm	83	
H	Column bases	cm	34	
J	Foundation Columns	cm	11	
K	Ground beam	cm	61	
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
L	150mm thick solid ground floor slab	sm	744	
M	250mm thick solid ground floor slab	sm	636	
	Mesh fabric reinforcement			
N	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	1379	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
A	Assorted Bars	Kg	41760	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
B	Sides of strip footing	sm	165	
C	Sides of column starters	sm	160	
D	Sides of column bases	sm	109	
E	Sides and soffits of ground beam	sm	485	
F	Edges: ground floor slab 75mm - 150mm girth	m	278	
G	Edges: ground floor slab 225mm - 300mm girth	m	269	
	Foundation Walling			
H	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	1025	
	Imported Fill			
J	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	1379	
K	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	1789	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Blinding			
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	1379	
	Anti-termite treatment			
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	1379	
	DPM			
C	Gauge 1000 polythene damp proof membrane	sm	1379	
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to			
D	Plinths: externally	sm	84	
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to			
E	Plinths: externally	sm	84	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page AQC / 1			
	From Page AQC / 2			
	From Page AQC/ 3			
	From Page AQC / 4			
	From Page AQC / 5			
	From Page AQC / 6			
	SUBSTRUCTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	Ground floor columns	cm	15	
B	Ring beam	cm	92	
C	Roof level columns	cm	2	
D	Roof beam	cm	27	
E	Gutter beam	cm	24	
F	100 mm thick Gutter Slab	sm	327	
G	Steps	cm	4	
H	150 mm thick Ramp	sm	26	
J	100mm thick vanity tops	sm	7	
	Vibrated reinforced insitu concrete class 30/30; with minimum cube crushing strength of 30N/mm² at 28 days; the concrete to incorporate an approved Sika waterproofing admixture as Sika® Plastocrete® N KE or other equal and approved in			
K	200 mm thick tank walls	sm	553	
	Reinforcement			
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
L	Assorted Bars	Kg	36946	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
M	Sides of ground floor columns	sm	214	
N	Sides and soffits of ring beam	sm	1022	
P	Sides of roof level columns	sm	28	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Formwork cont'd			
A	Sides and soffits of roof beam	sm	311	
B	Soffits of gutter slab	sm	338	
C	Sides and soffits of gutter beam	sm	309	
D	Sides of tank	sm	1105	
E	Sides of Steps 225mm - 300mm girth	m	4	
F	Face of riser 75 - 150mm high.	m	63	
G	Sides of ramp 75 - 150mm high.	m	10	
	Waterproofing			
	Acrylic Cementitious waterproofing Coating or other equal and approved; prepare surfaces; two coat application; nominal thickness 2 mm; applied strictly in accordance with manufacturer's printed instructions; by an approved specialist sub-contractor; including providing a 10 year guarantee; generally to :			
H	200 mm tank walls	sm	1105	
J	250 mm tank slab	sm	636	
K	100 mm gutter slab including skirting	sm	443	
	PVC water bar with centre bubble; joints; horizontally or vertically lapped and sealed generally to:			
L	200mm thick tank wall	sm	369	
	Carried to Collection			
	COLLECTION From Page AQC / 8 From Page AQC / 9 (above)			
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 3: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	487	
B	150mm thick walls	sm	291	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
C	200mm thick walls	m	206	
D	150mm thick walls	m	97	
	Internal Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
E	200mm thick walls	sm	366	
F	150mm thick walls	sm	55	
G	100mm thick walls	sm	61	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
H	200mm thick walls	m	127	
J	150mm thick walls	m	23	
K	100mm thick walls	m	25	
	Gable and Parapet walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
L	200mm thick gable walls	sm	63	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Coping			
A	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	290	
	Mild steel glazed partitions			
	Full Height a mild steel glazed partitioning comprising 50 mm x 50 mm x 2 mm thick "heavy duty" mild steel framework to; infilled with 8 mm thick laminated clear glazing with approved film; complete with all the necessary accessories, beadings, glazing strips e.t.c: all to Architects details and approval; generally to:-			
B	Aqua Center Entrance Lobby	sm	22	
	Carried to Collection			
	COLLECTION			
	From Page AQC / 10			
	From Page AQC/ 11 (above)			
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4: ROOFING			
	(ALL PROVISIONAL)			
	Roof Structure			
	Structural Timber: Cypress: vacuum pressure impregnated with Tanalith E or any other equal and approved			
	Framed members			
A	External members: 150 x 50mm rafters in trusses	m	451	
B	External members: 150 x 50mm tie beam in trusses	m	345	
C	Internal members: 100 x 50mm Struts and ties in trusses	m	554	
	Unframed members			
D	100 x 50mm Independent rafters	m	1420	
E	150 x 50mm Hip rafters	m	51	
F	150 x 50mm Valley rafters	m	12	
G	150 x 50mm Ridge boards	m	95	
H	100 X 50 mm wall plate; including bolts at 1.0m centres	m	212	
J	200 X 50 mm purlins	m	550	
	Structural Steelwork to BS 449			
	Structural mild steel sections in red oxide primer, including fabrication, hoisting and erecting; to include all necessary connections with steel connectors bolts & nuts, welding and the like: finished in three coats eggshell paint to all metal surfaces: in accordance with Structural Engineer's details and drawings: as described to			
	Framed members: weldable			
K	External members: 100 x 50 x 4 mm thick RHS in mild steel	m	2829	
L	Internal members: 75 x 50 x 3 mm thick RHS in mild steel	m	1021	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Unframed members: weldable			
A	Purlins ZP50: 127.0 x 50.8 x 19 x 2 mm thick in mild steel	m	1554	
B	Anti-Sag rods: 12 mm diameter round bars	m	85	
	Eaves Finishes			
	Wrot celcured cypress			
C	50mm x 50mm runners	m	347	
D	50mm x 50mm bearers	m	289	
	Wrot celcured prime grade cypress			
E	250mm x 38mm fascia board and verge boards	m	123	
F	100mm x 25mm T & G eaves boarding fixed to bearers	sm	170	
	Painting and decorations			
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
G	General surfaces of eaves	sm	170	
H	Surfaces between 200mm and 300mm girth	m	123	
	Roof Covering			
	24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details			
J	Roof covering	sm	1483	
K	Ridge cap to match	m	95	
L	Hip cap to match	m	51	
M	Valley cap to match	m	12	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Under-roof sisalation			
A	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to;	sm	1483	
	Carried to Collection			
	COLLECTION			
	From Page AQC / 12			
	From Page AQC / 13			
	From Page AQC / 14 (above)			
	ROOFING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; WINDOWS			
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement			
A	250mm x 100mm thick cill	m	98	
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to			
B	Window cills; 200mm to 300mm wide	m	98	
	Wrot mahogany: prime grade, selected			
C	200mm x 20mm thick window board	m	98	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
D	Over 100mm but not exceeding 200mm girth: window board	m	98	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	98	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Steel Windows			
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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			
A	Window comprising 4 No. openable top hung light, overall size 4900 x 1000 mm High **[W02]**	No	2	
B	Window comprising 1 No. openable top hung light, overall size 1200 x 1200 mm High **[W10]**	No	6	
C	Window comprising 8 No. openable top hung light, overall size 3600 x 2000 mm High **[W11]**	No	9	
D	Window comprising 2 No. openable top hung light, overall size 1200 x 2000 mm High **[W12]**	No	12	
E	Window comprising 2 No. openable top hung light, overall size 600 x 1800 mm High **[W13]**	No	29	
F	Window comprising 1 No. openable top hung light, overall size 950 x 1050 mm High **[W14]**	No	2	
G	Window comprising 1 No. openable top hung light, overall size 1200 x 1050 mm High **[W15]**	No	7	
	Glazing			
	6mm thick glass and glazing to casements with linseed putty			
H	Windows; pane size to Architect's details	sm	136	
	6mm thick obscured glass and glazing to casements with linseed putty			
J	Windows to washroom areas; pane size to Architect's details	sm	18	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
A	Windows; both sides measured	sm	285	
	Carried to Collection			
	COLLECTION			
	From Page AQC / 15			
	From Page AQC/ 16			
	From Page AQC/ 17			
	WINDOWS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 6; DOORS			
	Timber doors			
	Supply and fix 50mm thick hollow core flush door; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule			
A	Supply and fix door overall size 800 x 2000mm high ; all to Architect's detail drawings and approval **[D10]**	No	8	
B	Supply and fix door overall size 900 x 2100mm high ; including 900 x 350 mm fun-light in 6 mm thick clear glass (m.s) fixed to framing with matching beadings (m.s) ; all to Architect's detail drawings and approval **[D21]**	No	17	
C	Supply and fix door overall size 1000 x 2100mm high ; including 900 x 350 mm fun-light in 6 mm thick clear glass (m.s) fixed to framing with matching beadings (m.s) ; all to Architect's detail drawings and approval **[D23]**	No	2	
	Frames and Linings			
	Wrot cypress: prime grade; selected			
D	200mm x 50mm door frames	m	153	
E	Ditto transomes	m	153	
F	50mm x 75mm Architrave: splayed	m	153	
G	25 mm dia. quadrant beading	m	153	
H	20 x 15 mm glazing beading	m	66	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
J	Over 100mm but not exceeding 200mm girth	m	306	
K	Not exceeding 100mm girth	m	306	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
A	Over 100mm but not exceeding 200mm girth	m	306	
B	Not exceeding 100mm girth	m	306	
C	General timber surfaces: doors	sm	98	
	Glazing			
	6mm thick clear glass with safety film to door fixed with glass beading			
D	Doors; pane size to Architect's details	sm	4	
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval			
E	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	40 1/2	
F	Stainless steel (304) thumb turn indicator locks	No	8	
G	Four lever mortice locks with furniture	No	19	
H	Polished stainless steel door handles	No	54	
J	Rubber door stopper	No	27	
K	2mm thick satin stainless steel kick plate screwed to door surfaces	No	54	
L	2mm thick satin stainless steel push plate screwed to door surfaces	No	54	
M	Aluminium coat hanger	No	27	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Metal Doors			
	Supply and fix the following steel door; complete with all necessary ironmongery, steel sections, frame, mullion and stiles (refer to Architect's details)			
A	Supply and fix pressed steel steel door overall size 1500 x 2550 mm high in two equal leaves fixed to powder coated mild steel door frame ; including 8 mm thick laminated safety glass to each leaf fixed to mild steel framing with matching beadings; complete with purpose made ironmongery; all to Architect's detail drawings and approval **[D17]**	No	4	
	Carried to Collection			
	COLLECTION			
	From Page AQC / 18			
	From Page AQC/ 19			
	From Page AQC/ 20			
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 7; FINISHES			
	EXTERNAL FINISHES			
	External wall finishes			
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to			
A	Concrete surfaces externally; finished smooth	sm	359	
B	Masonry surfaces externally; finished smooth	sm	353	
	Key pointing to horizontal joints and flushing to vertical joints; in cement and sand (1:3) mortar: as described to			
C	Masonry surfaces externally; finished smooth	sm	487	
	Floor Finishes			
	Cement and sand (1:3) mortar: to screeds, backings, beds etc: in			
D	32mm Thick bed screed to receive ceramic floor tiles (m/s)	sm	79	
	Steps and Ramp finishes			
	25mm thick screeds: Cement and sand (1:3) mortar: wood-floated to receive terrazzo floor (m.s); including plastic dividing strips cast in screeds: as described to			
E	Surfaces of ramps, sloping	sm	26	
	32mm thick screeds: Cement and sand (1:3) mortar: wood-floated to Ceramic floor tiles (m.s); as described to			
F	Treads to steps, 400mm wide	sm	25	
G	Risers to steps, 150mm high	sm	9	
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)			
H	Surfaces of ramps, sloping: including formation of herringbone pattern to form anti-slip grooves	sm	26	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Ceramic floor tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
A	400mm x 400mm x 8mm thick tiles	sm	113	
B	Skirting, 150 mm high	m	49	
	INTERNAL FINISHES			
	Wall Finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
C	Concrete surfaces, internally	sm	1848	
D	Masonry surfaces, internally	sm	1609	
E	Jambs and reveals: 100 - 200 mm girth	sm	611	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
F	Walls to receive ceramic tiles (m.s.)	sm	57	
	Ceramic wall tiles			
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
G	400mm x 400mm x 8mm thick tiles	sm	57	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Painting and decoration			
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
A	Plastered concrete surfaces, internally	sm	1848	
B	Plastered walls surfaces, internally	sm	1609	
C	Jambs and reveals: 100 - 200 mm girth	sm	611	
	Floor Finishes			
	Cement and sand (1:3) mortar: to screeds, backings, beds etc: in			
D	32mm Thick bed screed to receive ceramic floor tiles (m/s)	sm	278	
E	32mm Thick bed screed to receive floor tiles (m/s)	sm	67	
F	32mm thick screeds to grow out tanks area	sm	207	
	Ceramic floor tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
G	400mm x 400mm x 8mm thick tiles	sm	345	
H	Skirting, 150 mm high	sm	232	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Ceiling Finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
A	Soffits of gutter slab	sm	327	
	Painting and decoration			
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
B	Soffits of gutter slab	sm	327	
	Accoustic Celing			
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary			
C	Ceiling: patterns to Architect's approval and detail	sm	247	
	Carried to Collection			
	COLLECTION			
	From Page AQC / 21			
	From Page AQC/ 22			
	From Page AQC/ 23			
	From Page AQC/ 24(Above)			
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 8; JOINERY & FIXTURES			
	PROCESSING ROOM			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	100mm thick concrete plinth	sm	14	
B	50mm thick counter top and shelves	sm	14	
	Mesh fabric reinforcement			
C	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	28	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
D	Soffits of counter tops and shelves	sm	14	
E	Edges: Plinths 75mm - 150mm girth	m	41	
F	Edges: of counter tops depth not exceeding 75mm	m	41	
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
G	100mm thick walls	sm	9	
	Screed: cement and sand (1:3) on concrete: wood floated finished			
H	20mm thick screed	sm	28	
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
J	Walls	sm	18	
	Terrazzo			
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)			
K	20mm thick to counter tops	sm	14	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Ceramic Tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement			
A	400mm x 400mm x 8mm thick tiles	sm	14	
B	150mm high skirting	m	19	
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
C	Walls	sm	18	
	Carried to Collection			
	COLLECTION			
	From Page AQC / 25			
	From Page AQC/ 26 (Above)			
	TOTAL FOR PROCESSING ROOM			

Item	Description	Unit	Qty	Rate
	LABORATORIES			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	100mm thick concrete plinth	sm	12	
B	50mm thick counter top and shelves	sm	12	
	Mesh fabric reinforcement			
C	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	24	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
D	Soffits of counter tops and shelves	sm	12	
E	Edges: Plinths 75mm - 150mm girth	m	19	
F	Edges: of counter tops depth not exceeding 75mm	m	35	
	Screed: cement and sand (1:3) on concrete: wood floated finished			
G	20mm thick screed	sm	24	
	Supply and fix 20mm thick Medium Density Fibreboard (MDF), complete with runners and bearers including edge lipping, brackets or supports and all necessary fixings to;-			
H	Side boards	sm	4	
J	Divisions	sm	16	
K	Shelving	sm	35	
L	Bottoms	sm	35	
M	Top	sm	24	
N	150mm high Skirting	m	18	
	Door			
P	Supply and fix approved doors complete with frames, hinges and handles overall size 450mm x 730mm	No	33	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix approved granite with adhesive; to regular pattern: bedding and jointing in cement mortar (1:4) grouting joints with proprietary grouting laid on cement sand base (m/s)			
A	20mm thick granite top	sm	12	
	Prepare surfaces: apply three coats of approved varnish: on timber surfaces: to			
B	General timber surfaces	sm	239	
	Carried to Collection			
	COLLECTION From Page AQC / 27 From Page AQC/ 28(Above)			
	TOTAL			
	X2			
	TOTAL FOR LABORATORIES			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page AQC/ 26			
	From Page AQC/ 28(Above)			
	JOINERY & FIXTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	ACQUA CENTRE			
	SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. SUBSTRUCTURE		AQC / 7	
	2. REINFORCED CONCRETE SUPERSTRUCTURE		AQC / 9	
	3. WALLING		AQC / 11	
	4. ROOF		AQC / 14	
	5. WINDOWS		AQC / 17	
	6. DOORS		AQC / 20	
	7. FINISHES		AQC / 24	
	8. JOINERY FITTINGS AND FIXTURES		AQC / 29	
	TOTAL ACQUA CENTRE CARRIED TO MAIN SUMMARY			

Amount (Kshs)

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VISITOR'S CENTRE AND MUSEUM

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	65	
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1	
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1	
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1	
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1	
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1	
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1	
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	308	
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	308	
	Earthworks, Excavations and Fillings			
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	462	
L	Excavate for column bases commencing from the reduced level depth exceeding 1.5m but not exceeding 3.0m deep	cm	6	
M	Excavate for strip foundation commencing from the reduced level depth exceeding 1.5m but not exceeding 3.0m deep	cm	22	
N	Extra over excavation in different classes of rock	cm	93	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item	1	
B	Allow for keep excavations free of water including any necessary pumping	Item	1	
C	Return, fill and ram selected soil in foundations	cm	113	
D	Remove surplus soil and dispose as directed	cm	489	
	Mass concrete class 15/20: in			
E	50mm thick blinding under strip footing	sm	71	
F	Ditto to column bases	sm	12	
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in			
G	Strip footing	cm	18	
H	Column bases	cm	5	
J	Foundation Columns	cm	3	
K	Ground beam	cm	12	
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
L	150mm thick solid ground floor slab	sm	256	
	Mesh fabric reinforcement			
M	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	256	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
A	Assorted Bars	Kg	4560	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
B	Sides of strip footing	sm	36	
C	Sides of column starters	sm	37	
D	Sides of column bases	sm	15	
E	Sides and soffits of ground beam	sm	89	
F	Edges: ground floor slab 75mm - 150mm girth	m	93	
	Foundation Walling			
G	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	199	
	Imported Fill			
H	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	256	
J	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	376	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Blinding			
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	256	
	Anti-termite treatment			
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	256	
	DPM			
C	Gauge 1000 polythene damp proof membrane	sm	256	
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to			
D	Plinths: externally	sm	28	
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to			
E	Plinths: externally	sm	28	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page VCM / 1			
	From Page VCM / 2			
	From Page VCM/ 3			
	From Page VCM / 4			
	From Page VCM / 5			
	From Page VCM / 6			
	SUBSTRUCTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	Ground floor columns	cm	5	
B	Ring beam	cm	15	
C	Roof level columns	cm	5	
D	Roof beam	cm	15	
E	150 mm thick Suspended Slab	sm	126	
F	Staircase; steps and waist	cm	4	
G	150mm thick landing	sm	4	
	Reinforcement			
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
H	Assorted Bars	Kg	7680	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
J	Sides of ground floor columns	sm	62	
K	Sides and soffits of ring beam	sm	143	
L	Sides of roof level columns	sm	62	
M	Sides and soffits of roof beam	sm	167	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Formwork cont'd			
A	Soffits of Suspended Slab	sm	126	
B	Soffits of landing.	sm	4	
C	Sloping soffits of staircase.	sm	10	
D	Face of riser 75 - 150mm high.	m	55	
E	Sides of stringer 150 - 300mm high.	m	14	
F	Edge of landing 75 - 150mm high.	m	19	
G	Edge of Suspended 75 - 150mm high.	m	58	
	Carried to Collection			
	COLLECTION			
	From Page VCM / 8			
	From Page VCM / 9 (above)			
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 3: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	87	
B	100mm thick walls	sm	327	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
C	200mm thick walls	m	15	
D	100mm thick walls	m	58	
	Internal Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
E	200mm thick walls	sm	186	
F	150mm thick walls	sm	27	
G	100mm thick walls	sm	63	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
H	200mm thick walls	m	33	
J	150mm thick walls	m	6	
K	100mm thick walls	m	11	
	Coping			
L	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	58	
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4: ROOFING			
	(ALL PROVISIONAL)			
	Roof Structure			
	Structural Steelwork to BS 449			
	Structural mild steel sections in red oxide primer, including fabrication, hoisting and erecting; to include all necessary connections with steel connectors bolts & nuts, welding and the like: finished in three coats eggshell paint to all metal surfaces: in accordance with Structural Engineer's details and drawings: as described to			
	Unframed members: weldable			
A	Rafters: 200 x 75 x 3 mm thick RHS in mild steel	m	2275	
B	Purlins: 75 Dia mm thick CHS in mild steel	m	1219	
C	Compression Ring: 6 mm thickmild steel plate bent to 250mm Dia mm	No.	1	
	Eaves Finishes			
	Wrot celcured cypress			
D	50mm x 50mm runners	m	63	
E	50mm x 50mm bearers	m	52	
	Wrot celcured prime grade cypress			
F	250mm x 38mm fascia board and verge boards	m	63	
G	100mm x 25mm T & G eaves boarding fixed to bearers	sm	38	
	Painting and decorations			
	Knot, prime and stop; prepare surfaces and apply one undercoat and two coats prime grade quality polyurethrane lacquer varnish paint to:-			
H	General surfaces of eaves	sm	38	
J	Surfaces between 200mm and 300mm girth	m	63	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Roof Covering			
	24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details			
A	Roof covering	sm	159	
	Under-roof sisalation			
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to;	sm	159	
	Carried to Collection			
	COLLECTION			
	From Page VCM / 11			
	From Page VCM / 12 (above)			
	ROOFING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; WINDOWS			
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement			
A	250mm x 100mm thick cill	m	10	
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to			
B	Window cills; 200mm to 300mm wide	m	10	
	Wrot mahogany: prime grade, selected			
C	200mm x 20mm thick window board	m	10	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
D	Over 100mm but not exceeding 200mm girth: window board	m	10	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	10	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Steel Windows			
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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			
A	Window comprising 4 No. openable top hung light, overall size 3600 x 600 mm High **[W27]**	No	1	
B	Window comprising 2 No. openable top hung light, overall size 1800 x 600 mm High **[W28]**	No	2	
C	Window comprising 1 No. openable top hung light, overall size 1200 x 600 mm High **[W29]**	No	1	
D	Window comprising 1 No. fixed light, overall size 450 x 1200 mm High **[W30]**	No	2	
	Glazing			
	6mm thick glass and glazing to casements with linseed putty			
E	Windows; pane size to Architect's details	sm	7	
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
F	Windows; both sides measured	sm	14	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page VCM / 13			
	From Page VCM/ 14			
	WINDOWS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 6; DOORS			
	Timber doors			
	Supply and fix 50mm thick hollow core flush door; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule			
A	Supply and fix door overall size 1200 x 2400mm high fixed to 200 x 50 door frame (m.s) with matching beadings (m.s) ; all to Architect's detail drawings and approval **[D19]**		2	
B	Supply and fix door overall size 900 x 2100mm high fixed to 200 x 50 door frame (m.s); including 900 x 350 mm fun-light in 6 mm thick clear glass (m.s) fixed to framing with matching beadings (m.s) ; all to Architect's detail drawings and approval **[D21]**		3	
C	Supply and fix door overall size 900 x 2100mm high fixed to 200 x 50 door frame (m.s); including 900 x 350 mm fun-light in 6 mm thick clear glass (m.s) fixed to framing with matching beadings (m.s) ; all to Architect's detail drawings and approval **[D22]**		2	
	Frames and Linings			
	Wrot cypress: prime grade; selected			
D	200mm x 50mm door frames	m	42	
E	Ditto transomes	m	5	
F	50mm x 75mm Architrave: splayed	m	42	
G	25 mm dia. quadrant beading	m	42	
H	20 x 15 mm glazing beading	m	37	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
J	Over 100mm but not exceeding 200mm girth	m	42	
K	Not exceeding 100mm girth	m	84	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
A	Over 100mm but not exceeding 200mm girth	m	42	
B	Not exceeding 100mm girth	m	84	
C	General timber surfaces: doors	sm	31	
	Glazing			
	6mm thick clear glass with safety film to door fixed with glass beading			
D	Doors; pane size to Architect's details	sm	2	
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval			
E	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	13 1/2	
F	Four lever mortice locks with furniture	No	7	
G	Polished stainless steel door handles	No	18	
H	Rubber door stopper	No	9	
J	2mm thick satin stainless steel kick plate screwed to door surfaces	No	18	
K	2mm thick satin stainless steel push plate screwed to door surfaces	No	18	
	Frameless Glazed Doors			
	Supply and fix frameless glazed doors in12 mm thick toughened glass; secured to opening using all necessary accessories including waterproofing all joints using approved silicon sealing compounds with all the necesarry ironmongery and fittings; all to Architects approval and detail drawings			
L	Single leaf door size 2400 x 2400 mm high **[D20]**	No	2	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page VCM / 16			
	From Page VCM/ 17			
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 7; FINISHES			
	EXTERNAL FINISHES			
	External wall finishes			
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to			
A	Concrete surfaces externally; finished smooth	sm	265	
B	Masonry surfaces externally; finished smooth	sm	370	
	Key pointing to horizontal joints and flushing to vertical joints; in cement and sand (1:3) mortar: as described to			
C	Masonry surfaces externally; finished smooth	sm	163	
	Floor Finishes			
	Cement and sand (1:3) mortar: to screeds, backings, beds etc: in			
D	32mm Thick bed screed to receive Clay floor tiles (m/s)	sm	126	
	Steps finishes			
	32mm thick screeds: Cement and sand (1:3) mortar: wood-floated to Ceramic floor tiles (m.s); as described to			
E	Treads to steps, 400mm wide	sm	9	
F	Risers to steps, 150mm high	sm	3	
	Ceramic floor tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
G	400mm x 400mm x 8mm thick tiles	sm	12	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Open terrace Finishes			
	Beds or Backing			
	Bed; cement and sand (1:4); waterproof; Sika1 rate of 1.5 Kg per 50 kg of cement or equal and approved; steel trowelled			
A	Average 75 mm thick waterproofed cement and sand screed laid to crossfalls on concrete floor slab (m.s) finished to receive APP waterproofing membrane (m.s)	sm	126	
B	150mm high x 20mm thick ditto to masonry/concrete upstands	m	57	
C	Dish screed around 75 mm diameter "Fulbora" rainwater outlet	No	2	
	Waterproofing			
	Attactic Poly-Prolylene (APP) waterproofing membrane 4 mm thick as manufactured by Messrs. Italbuild Import Ltd. or other equal and approved manufacturer laid in ccordance with manufacturer's printed instructions by an approved sub-contractor to give 10 years guarantee			
D	Over 300 mm wide; to falls, crossfalls or sloping not exceeding 15 degrees from horizontal; to surface of screeded slab (m.s)	sm	126	
E	Skirting including turning into groove,height 150mm	sm	57	
F	Labour and material for working roofing felt around 75 mm diameter fulbora type roof outlets	sm	2	
	Protective screeds as described			
G	40mm Thick screed laid over waterproof to receive finishes (m.s.) - Flat roof	sm	126	
H	20mm thick x 150mm high skirting to receive concrete tile (m/s)	sm	57	
J	Protective screed on water proofing around 75 mm diameter "Fulbora" rainwater outlet	sm	2	
	Concrete floor tiles			
	Supply and fix 15 mm thick interlocking concrete tiles: laid on protective screed (m/s) in approved tile adhesive: in zero joints: as described to:-			
K	Open Terrace	sm	126	
L	150mm high tile skirting	sm	57	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	INTERNAL FINISHES			
	Wall Finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
A	Concrete surfaces, internally	sm	296	
B	Masonry surfaces, internally	sm	962	
C	Jambs and reveals: 100 - 200 mm girth	sm	85	
	Painting and decoration			
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
D	Plastered concrete surfaces, internally	sm	296	
E	Plastered walls surfaces, internally	sm	962	
F	Jambs and reveals: 100 - 200 mm girth	sm	85	
	Floor Finishes			
	Cement and sand (1:3) mortar: to screeds, backings, beds etc: in			
G	32mm Thick bed screed to receive floor tiles (m/s)	sm	233	
	Ceramic floor tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
H	400mm x 400mm x 8mm thick tiles	sm	233	
J	Skirting, 150 mm high	sm	152	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	STAIRCASE FINISHES			
	Plaster: 9 mm first coat of cement, lime putty and sand (1:2:9): 4 mm second coat of cement lime putty and sand (1:1:6): steel trowelled: generally to			
A	Sloping soffits of staircases & strings	sm	14	
B	Soffits of landings	sm	4	
	Cement and sand (1:3) mortar on concrete: to screeds, backings, beds etc: in			
	32 mm thick: to receive tiles: generally to			
C	Landing	sm	4	
D	150mm high staircase risers	m	32	
E	300mm wide staircase treads	m	29	
	Ceramic floor tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
F	Landing	sm	4	
G	150mm high ceramic tile staircase risers	m	32	
H	300mm wide ceramic tile staircase treads	m	29	
	Painting and Decorations			
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
J	Plastered sloping soffits of staircases & strings	sm	14	
K	Plastered soffits of landings	sm	4	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Staircase balustrading			
A	900mm high balustrading in mild steel steel comprising 25 x 50mm diameter mild steel rectangular hollow section(RHS) handrail, 50mm x 50mm SHS balusters (standards) at 1000mm centres with one end grouted to concrete floor and other end welded to handrail; 25 x 6mm flat profile at 100mm centers; powder coated to approval; all as per architect's detail	m	8	
	Ceiling Finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
B	Soffits of suspended slab	sm	126	
	Painting and decoration			
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
C	Soffits of suspended slab	sm	126	
	Wrot celcured cypress			
D	100mm x 25mm T & G eaves boarding fixed to and including brandering	sm	25	
E	75mm coved cornice	m	35	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
F	Softboard ceiling internally	sm	25	
G	Surfaces 0 - 100mm girth; cornice	m	35	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page VCM / 19			
	From Page VCM/ 20			
	From Page VCM/ 21			
	From Page VCM/ 22			
	From Page VCM/ 23 (Above)			
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	VISITOR'S CENTER AND MUSEUM			
	SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. SUBSTRUCTURE		VCM / 7	
	2. REINFORCED CONCRETE SUPERSTRUCTURE		VCM / 9	
	3. WALLING		VCM/ 10	
	4. ROOF		VCM / 12	
	5. WINDOWS		VCM / 15	
	6. DOORS		VCM / 18	
	7. FINISHES		VCM / 24	
	TOTAL VISITOR'S CENTER AND MUSEUM CARRIED TO MAIN SUMMARY			

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

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RESTAURANT

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	78		
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1		
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1		
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	3		
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1		
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	2		
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1		
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	822		
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	822		
	Earthworks, Excavations and Fillings				
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	611		
L	Excavate for column bases commencing from the reduced level not exceeding 1.5m deep	cm	23		
M	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	35		
N	Extra over excavation in different classes of rock	cm	182		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
B	Allow for keep excavations free of water including any necessary pumping	Item			
C	Return, fill and ram selected soil in foundations	cm	517		
D	Remove surplus soil and dispose as directed	cm	152		
	Mass concrete class 15/20: in				
E	50mm thick blinding under strip footing	sm	61		
F	Ditto to column bases	sm	54		
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in				
G	Strip footing	cm	17		
H	Column bases	cm	19		
J	Columns	cm	3		
K	Ground beam	cm	9		
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
L	Steps	cm	8		
M	150mm thick solid ground floor slab	sm	368		
N	150mm ramp	sm	10		
	Mesh fabric reinforcement				
P	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	368		
Q	Ditto; to ramps	sm	10		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
A	Assorted bars	Kg	6720		
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
B	Sides of strip footing	sm	62		
C	Sides of column starters	sm	45		
D	Sides of column bases	sm	47		
E	Soffits of ramp	sm	10		
F	Sides and soffits of ground beam	sm	123		
G	Edges: ground floor slab 75mm - 150mm girth	m	85		
	Foundation Walling				
H	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	246		
	Imported Fill				
J	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	345		
K	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	519		
	Blinding				
L	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	345		
	Anti-termite treatment				
M	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	345		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	DPM				
A	Gauge 1000 polythene damp proof membrane	sm	368		
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to				
B	Plinths: externally	sm	39		
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to				
C	Plinths: externally	sm	39		
	Carried to Collection				
	COLLECTION				
	From Page Rst / 1				
	From Page Rst/ 2				
	From Page Rst/ 3				
	From Page Rst / 4				
	From Page Rst / 5				
	From Page Rst / 6 (Above)				
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
A	Columns	cm	6		
B	Ring beam and lintel	cm	14		
C	Gutter beam	cm	36		
D	Roof beam	cm	7		
E	100mm thick vanity tops	sm	6		
	Reinforcement				
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
F	Assorted bars	Kg	7560		
	Formwork				
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
G	Sides of columns	sm	89		
H	Sides and soffits of ring beam and lintels	sm	166		
J	Sides and soffits gutter beam	sm	363		
K	Sides and soffits of roof beam	sm	80		
L	Soffits of vanity tops	sm	6		
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 3: WALLING				
	External Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
A	200mm thick walls	sm	214		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
B	200mm wide	m	86		
	Internal Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
C	200mm thick walls	sm	141		
D	150mm thick walls	sm	47		
E	100mm thick walls	sm	68		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
F	200mm wide	m	47		
G	150mm wide	m	16		
H	100mm wide	m	23		
	Aluminium glazed Partitions				
J	Fabricate supply and fix 50mm x 50mm approved powder coated aluminium in approved framing with including 8mm thick laminated safety glass fixed with glass beading all to architects details and approval	sm	14		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Concrete Vents				
A	300mm x 300mm precast concrete vents blocks laid and jointed with cement and sand mortar; painted to detail; all to Architect's details and specifications	sm	27		
	Coping				
B	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	51		
	Carried to Collection				
	COLLECTION				
	From Page Rst / 8				
	From Page Rst/ 9 (Above)				
	WALLING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 4: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**				
A	Roof covering	sm	352		
	Under-roof sisalation				
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to;	sm	352		
	Tensile shade Canopy				
C	Supply, fabricate and fix tensile sail shade canopy system to manufacturer's specification comprising high-density UV stabilized waterproof HDPE/PVC shade fabric, complete with galvanized mild steel support posts, edge cables, tensioning accessories, base plates, anchor bolts, fixing brackets, turnbuckles, stainless steel fittings, all necessary accessories, to architects approval	sm	175		
	Unframed mild steel work as described complete with bolts, nuts, washers, splash plates and base plates; including drilling, hoisting and placing at roof level, one coat red oxide primer before fixing and final two coats paint on completion to approval				
	TRUSS T1 (2No.)				
D	75mm x 75mm x 4mm thick RHS (8.5Kg/m)	Kgs	306		
E	100mm x 75mm x 13.5mm thick SHS (13.5Kg/m)	Kgs	559		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	TRUSS T2 (2No.)				
A	75mm x 75mm x 4mm thick RHS (8.5Kg/m)	Kgs	306		
B	100mm x 75mm x 13.5mm thick SHS (13.5Kg/m)	Kgs	559		
	TRUSS T3 (2No.)				
C	75mm x 75mm x 4mm thick RHS (8.5Kg/m)	Kgs	104		
D	100mm x 75mm x 13.5mm thick SHS (13.5Kg/m)	Kgs	314		
	TRUSS T4 (4No.)				
E	75mm x 75mm x 4mm thick RHS (8.5Kg/m)	Kgs	249		
F	100mm x 75mm x 13.5mm thick SHS (13.5Kg/m)	Kgs	827		
G	Zed purlins 150mm x 50 mm x 25mm x 2mm (6.14kg/m)	Kgs	1256		
H	12mm diameter anti-sag rods (0.888Kg/m)	Kgs	25		
	Rainwater goods				
	610mm girth x 2mm thick mild steel gutter: fixed to fascia with and including steel flat brackets at 1500 mm (maximum) centres: holes for down pipes as necessary: closed ends				
J	Mild steel gutter to details	m	57		
	Extra over rainwater goods for :-				
K	100mm diameter outlet	No	8		
L	Stopped end	No	4		
	Wrot celcured cypress				
M	100mm x 25mm T & G eaves boarding fixed to bearers	sm	48		
N	50mm x 50mm runners	m	78		
P	50mm x 50mm bearers	m	79		
	Wrot celcured prime grade cypress				
Q	250mm x 38mm fascia board and verge boards	m	78		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to				
A	General surfaces of eaves	sm	48		
B	Surfaces between 200mm and 300mm girth	m	78		
	Carried to Collection				
	COLLECTION				
	From Page Rst / 10				
	From Page Rst / 11				
	From Page Rst / 12 (above)				
	ROOFING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 5; WINDOWS				
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement				
A	250mm x 100mm thick cill	m	29		
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to				
B	Window cills; 200mm to 300mm wide	m	29		
	Wrot mahogany: prime grade, selected				
C	200mm x 20mm thick window board	m	29		
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces				
D	Over 100mm but not exceeding 200mm girth: window board	m	29		
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces				
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	29		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Steel Windows				
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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				
A	900mm width x 1000mm overall size	No	15		
B	1150mm width x 3150mm overall size	No	12		
C	3600mm width x 1000mm overall size	No	2		
D	4900mm width x 1800mm overall size	No	1		
	Glazing				
	6mm thick glass and glazing to casements with linseed putty				
E	Windows; pane size to Architect's details	sm	73		
	8mm thick laminated glass and glazing to casements with linseed putty				
F	Windows; pane size to Architect's details	sm	34		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
G	Windows; both sides measured	sm	145		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page Rst / 13				
	From Page Rst / 14 (Above)				
	WINDOWS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 6; DOORS				
	Timber doors				
A	Supply and fix 50mm thick hollow core flush door; overall size 800mm x 2000 mm high; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule (D10)	No	5		
B	Ditto 1000mm x 2000mm (D11)	No	2		
C	Ditto 900mm x 2400mm with clear laminated glass vision panel (D13, D15)	No	9		
	Solid Timber Doors				
D	50mm thick sibgle leaf solid panelled mvule door comprising of 200 x 50mm thick polished mahogany top and bottom rails, 150 x 50mm thick polished mahogany intermediate rails and hinge stile overall size 900mm x 2400mm high; to Architect's door schedule (D25)	No	5		
	Wrot cypress: prime grade; selected				
E	200mm x 50mm thick door frames	m	99		
F	Ditto transomes	m	99		
G	50mm x 75mm Architrave: splayed	m	99		
H	12mm diameter hardwood quodrant	m	99		
J	225mm x 50mm thick rebated polished mvule door frames	m	36		
K	Ditto transomes	m	36		
L	75mm x 25mm Architrave: splayed	m	36		
M	12mm diameter hardwood quodrant	m	36		
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces				
N	Over 100mm but not exceeding 200mm girth	m	135		
P	Not exceeding 100mm girth	m	135		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces				
A	Over 100mm but not exceeding 200mm girth	m	270		
B	Not exceeding 100mm girth	m	270		
C	General timber surfaces: doors	sm	104		
	Glazing				
	6mm thick clear glass with safety film to door fixed with glass beading				
D	Doors; pane size to Architect's details	sm	9		
	Metal Doors				
	Supply and fix the following steel door; complete with all necessary ironmongery, steel sections, frame, mullion and stiles (refer to Architect's details)				
E	1400mm x 3150mm pressed steel double leaf door complete with; 75mm x 25mm vertical stile; 75mm x 25mm to and bottom stile; 8mm thick laminated safety glass complete with frames ; hinges, stays, fasteners, assembled and fixed to opening including cutting and pinning lugs; to Architect's detail and specification(D16)	No	12		
	Aluminium Framed Door				
	Supply and fix aluminium framed doors with approved powder coated aluminium in framing in sections of size 100mm x 50mm x 2mm thick fixed to wall / beam / column around openings, including glazing with 8mm thick laminated glass; secured to the framing using approved glazing strips and glazing beading including waterproofing all joints using approved silicon sealing compounds with all the necesarry ironmongery and fittings; all to Architect's door schedules' details and approval				
F	Single leaf doors; overall size 800mm x 2100mm overall height (D6)	No	1		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
G	Doors; both sides measured	sm	106		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval				
A	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	31 1/2		
B	Stainless steel (304) thumb turn indicator locks	No	7		
C	Four lever mortice locks with furniture	No	14		
D	Polished stainless steel door handles	No	42		
E	Rubber door stopper	No	21		
F	2mm thick satin stainless steel kick plate screwed to door surfaces	No	42		
G	2mm thick satin stainless steel push plate screwed to door surfaces	No	21		
H	Aluminium coat hanger	No	21		
	Carried to Collection				
	COLLECTION From Page Rst / 15 From Page Rst/ 16 From Page Rst/ 17 (Above)				
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 7; FINISHES				
	FLOOR FINISHES				
	Screed: cement and sand (1:3) on concrete: wood floated finished				
A	32mm thick screed to receive ceramic tiles	sm	324		
	Ceramic Tiles				
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
B	400mm x 400mm x 8mm thick tiles	sm	324		
C	150mm high skirting	m	217		
	WALL FINISHES:				
	Internal wall finishes				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
D	Walls	sm	726		
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to				
E	Walls to receive ceramic tiles (m.s.)	sm	134		
F	Vanity tops	sm	6		
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
G	400mm x 400mm x 8mm thick tiles	sm	134		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
H	Walls	sm	726		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	EXTERNAL WALL FINISHES				
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to				
A	Walls and concrete surfaces	sm	214		
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications				
B	Externally to walls and concrete surfaces	sm	214		
	CEILING & BEAM FINISHES				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
C	Sides and soffits of beams	sm	609		
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary				
D	Ceiling: patterns to Architect's approval and detail	sm	156		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
E	Beams	sm	609		
	STEPS AND RAMP AND FINISHES				
	Screed: cement and sand (1:3): on concrete wood floated				
F	20mm thick: to ramps	sm	10		
G	20mm thick: to 300mm wide treads to receive ceramic tiles	m	130		
H	20mm thick: 150mm high risers ditto	m	195		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4);				
A	300mm wide treads	sm	130		
B	150mm high risers	m	195		
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
C	20mm thick: to ramps	m	10		
D	20mm thick; to vanity tops	sm	6		
	Carried to Collection				
	COLLECTION				
	From Page Rst / 19				
	From Page Rst/ 20				
	From Page Rst/ 21 (Above)				
	FINISHES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 8; JOINERY & FIXTURES				
	CONCRETE SHELVES				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
A	38mm thick concrete shelves	sm	96		
	Mesh fabric reinforcement				
B	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	96		
	Formwork				
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
C	Soffits of shelves	sm	96		
D	Edges: of shelves depth not exceeding 75mm	m	182		
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to				
E	Walls to receive terrazzo (m.s.)	sm	192		
	Terrazzo				
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
F	20mm thick; shelves	sm	192		
	BUFFET COUNTER				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
G	100mm thick concrete plinth	sm	7		
H	50mm thick counter top and shelves	sm	11		
	Mesh fabric reinforcement				
J	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	18		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
A	Soffits of counter tops and shelves	sm	11		
B	Edges: Plinths 75mm - 150mm girth	m	14		
C	Edges: of counter tops depth not exceeding 75mm	m	21		
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
D	100mm thick walls	sm	10		
	Screed: cement and sand (1:3) on concrete: wood floated finished				
E	20mm thick screed	sm	18		
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
F	Walls	sm	20		
	Supply and fix 20mm thick Medium Density Fibreboard (MDF), complete with runners and bearers including edge lipping, brackets or supports and all necessary fixings to;-				
G	Side boards	sm	2		
H	Divisions	sm	3		
J	Shelving	sm	2		
K	Bottoms	sm	3		
L	150mm high Skirting	m	5		
	Door				
M	Supply and fix approved doors complete with frames, hinges and handles overall size 450mm x 730mm	No	7		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Drawers				
A	Supply and fix Drawer size 700 x 600 x 245mm high, constructed of 20mm thick MDF bottom, top, sides and divisions all properly glued, housed and blocked together including all necessary grooves fixing to position and apply thtree coats of approved varnish as per architects approval	No	3		
B	Ditto; Drawer size 300mm x 600mm x245mm high	No	3		
	Terrazzo				
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
C	20mm thick to shelves,counter tops	sm	8		
	Ceramic Tiles				
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
D	400mm x 400mm x 8mm thick tiles	sm	4		
E	150mm high skirting	m	9		
	Supply and fix approved granite with adhesive; to regular pattern: bedding and jointing in cement mortar (1:4) grouting joints with proprietary grouting laid on cement sand base (m/s)				
F	20mm thick granite top	sm	3		
	Prepare surfaces: apply three coats of approved varnish: on timber surfaces: to				
G	General timber surfaces	sm	22		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
H	Walls	sm	20		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Steel Cabinets **Purpose-made stainless steel cabinets fabricated from 1.2mm thick stainless steel sheet, including doors, including doors, shelves stiffeners, hinges, locks, handles, and all necessary accessories, fixed to wall with brackets and plugs, complete as specified all to architectes details and specifications**				
A	600mm x 900mm high	No	14		
B	1200mm x 450mm high open shelves	No	22		
	Carried to Collection				
	COLLECTION From Page Rst / 22 From Page Rst/ 23 From Page Rst/ 24 From Page Rst/ 25 (Above)				
	JOINERY & FIXTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	RESTAURANT				
	SUMMARY				
	ELEMENT No.		**PAGE No.**		
	1. SUBSTRUCTURE		Rst / 6		
	2. REINFORCED CONCRETE SUPERSTRUCTURE		Rst /7		
	3. WALLING		Rst / 9		
	4. ROOF		Rst/ 12		
	5. WINDOWS		Rst / 15		
	6. DOORS		Rst / 18		
	7. FINISHES		Rst / 21		
	8. JOINERY FITTINGS AND FIXTURES		Rst / 25		
	TOTAL RESTAURANT CARRIED TO MAIN SUMMARY				

WORKSHOP 1

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	56		
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1		
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1		
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1		
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1		
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1		
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1		
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	162		
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	162		
	Earthworks, Excavations and Fillings				
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	243		
L	Excavate for column bases commencing from the reduced level not exceeding 1.5m deep	cm	3		
M	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	9		
N	Extra over excavation in different classes of rock	cm	128		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
B	Allow for keep excavations free of water including any necessary pumping	Item			
C	Return, fill and ram selected soil in foundations	cm	183		
D	Remove surplus soil and dispose as directed	cm	72		
	Mass concrete class 15/20: in				
E	50mm thick blinding under strip footing	sm	38		
F	Ditto to column bases	sm	8		
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in				
G	Strip footing	cm	10		
H	Column bases	cm	3		
J	Columns	cm	2		
K	Ground beam	cm	4		
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
L	150mm thick solid ground floor slab	sm	131		
M	150mm ramp	sm	9		
	Mesh fabric reinforcement				
N	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	131		
P	Ditto; to ramps	sm	9		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
A	Assorted bars	Kg	2280		
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
B	Sides of strip footing	sm	13		
C	Sides of column starters	sm	23		
D	Sides of column bases	sm	12		
E	Soffits of ramp	sm	9		
F	Sides and soffits of ground beam	sm	50		
G	Edges: ground floor slab 75mm - 150mm girth	m	51		
	Foundation Walling				
H	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	93		
	Imported Fill				
J	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	121		
K	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	182		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Blinding				
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	121		
	Anti-termite treatment				
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	121		
	DPM				
C	Gauge 1000 polythene damp proof membrane	sm	131		
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to				
D	Plinths: externally	sm	23		
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to				
E	Plinths: externally	sm	23		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page WKS1 / 1				
	From Page WKS1 / 2				
	From Page WKS1/ 3				
	From Page WKS1 / 4				
	From Page WKS1 / 5				
	From Page WKS1 / 6				
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
A	Columns	cm	3		
B	Ring beam and lintel	cm	9		
	Reinforcement				
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
C	Assorted bars	Kg	1440		
	Formwork				
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
D	Sides of columns	sm	34		
E	Sides and soffits of ring beam and lintels	sm	112		
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 3: WALLING				
	External Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
A	200mm thick walls	sm	156		
B	200mm thick gable walls	sm	20		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
C	200mm wide	m	62		
	Internal Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
D	200mm thick walls	sm	11		
E	150mm thick walls	sm	35		
F	100mm thick walls	sm	5		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
G	200mm thick walls	m	10		
H	150mm thick walls	m	12		
J	100mm thick walls	m	2		
	Aluminium glazed Partitions				
K	Fabricate supply and fix 50mm x 50mm approved powder coated aluminium in approved framing with including 8mm thick laminated safety glass fixed with glass beading all to architects details and approval	sm	19		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Concrete Vents				
A	300mm x 300mm precast concrete vents blocks laid and jointed with cement and sand mortar; painted to detail; all to Architect's details and specifications	sm	8		
	Coping				
B	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	69		
	Carried to Collection				
	COLLECTION				
	From Page WKS1 / 9				
	From Page WKS1 / 10				
	WALLING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 4: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal timber purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**				
A	Roof covering **Under-roof sisalation**	sm	185		
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to; ***The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes***	sm	185		
C	200mm x 50mm purlins	m	152		
D	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	36		
E	100mm x 50mm common rafters	m	264		
F	200mm x 50mm ridge board	m	19		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Timber Trusses				
	The following in 10 No. trusses				
A	150mm x 50mm principal rafters	m	91		
B	100mm x 50mm struts and ties	m	150		
C	150mm x 50mm tie beam	m	70		
	UPVC rainwater goods				
D	125mm x 150mm box gutter fixed with manufacturer's approved brackets at 600mm centres	m	37		
	Extra over rainwater goods for :-				
E	100mm diameter outlet	No	8		
F	Stopped end	No	4		
	Wrot celcured prime grade cypress				
G	250mm x 38mm fascia board and verge boards	m	55		
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to				
H	Surfaces between 200mm and 300mm girth	m	55		
	Carried to Collection				
	COLLECTION From Page WKS1 / 11 From Page WKS1 / 12 (above)				
	ROOFING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 5; WINDOWS				
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement				
A	250mm x 100mm thick cill	m	20		
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to				
B	Window cills; 200mm to 300mm wide	m	20		
	Wrot mahogany: prime grade, selected				
C	200mm x 20mm thick window board	m	20		
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces				
D	Over 100mm but not exceeding 200mm girth: window board	m	20		
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces				
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	20		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Steel Windows				
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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				
A	600mm width x 2400mm overall size	No	3		
B	3000mm width x 1000mm overall size	No	3		
C	3600mm width x 2000mm overall size	No	1		
	Glazing				
	6mm thick glass and glazing to casements with linseed putty				
D	Windows; pane size to Architect's details	sm	18		
	6mm thick obscured glass and glazing to casements with linseed putty				
E	Windows to washroom areas; pane size to Architect's details	sm	3		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
F	Windows; both sides measured	sm	42		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page WKS1 / 13				
	From Page WKS1/ 14 (Above)				
	WINDOWS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 6; DOORS				
	Timber doors				
A	Supply and fix 50mm thick hollow core flush door; overall size 900mm x 2400 mm high; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule (D8)	No	3		
B	Ditto 1000mm x 2400mm (D12)	No	1		
C	Ditto 800mm x 2400mm (D10)	No	2		
	Wrot cypress: prime grade; selected				
D	200mm x 50mm thick veneered postformed door frames	m	38		
E	Ditto transomes	m	38		
F	50mm x 75mm Architrave: splayed	m	38		
G	12mm diameter hardwood quodrant	m	38		
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces				
H	Over 100mm but not exceeding 200mm girth	m	38		
J	Not exceeding 100mm girth	m	38		
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces				
K	Over 100mm but not exceeding 200mm girth	m	76		
L	Not exceeding 100mm girth	m	76		
M	General timber surfaces: doors	sm	29		
	Glazing				
	6mm thick clear glass with safety film to door fixed with glass beading				
N	Doors; pane size to Architect's details	sm	2		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Aluminium Framed Door				
	Supply and fix aluminium framed doors with approved powder coated aluminium in framing in sections of size 100mm x 50mm x 2mm thick fixed to wall / beam / column around openings, including glazing with 8mm thick laminated glass; secured to the framing using approved glazing strips and glazing beading including waterproofing all joints using approved silicon sealing compounds with all the necesarry ironmongery and fittings; all to Architect's door schedules' details and approval				
A	Single leaf doors; overall size 800mm x 2100mm overall height (D6)	No	1		
	Galvanised Steel Roller Shutters				
	Supply and install industrial type motorized hot dipped galvanised roller shutter face mounted doors with 75mm x 4mm solid steel slats. Supplied and installed complete including all necessary frames, channel guides, canopy covers, fixing lugs, ironmongery and emergency manual opening mechanism. Including sealing all around the perimeter of the door with silicone sealant on a backing cord with minimum joint size 10mm x 10mm internally and externally; complete with all necessary ironmongery and fixed in position to Architect's details				
B	Purpose made mild steel roller shutter door 3600mm x 3000mm; complete with frame; one coat red oxide primer; all ironmongery and fixing accessories; as detailed in the Architect's schedule (D13)	No	2		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
C	Doors; both sides measured	sm	44		

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval				
A	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	10 1/2		
B	Stainless steel (304) thumb turn indicator locks	No	3		
C	Four lever mortice locks with furniture	No	3		
D	Polished stainless steel door handles	No	12		
E	Rubber door stopper	No	7		
F	2mm thick satin stainless steel kick plate screwed to door surfaces	No	12		
G	2mm thick satin stainless steel push plate screwed to door surfaces	No	6		
H	Aluminium coat hanger	No	7		
	Carried to Collection				
	COLLECTION From Page WKS1 / 16 From Page WKS1/ 17 From Page WKS1/ 18 (Above)				
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 7; FINISHES				
	FLOOR FINISHES				
	Screed: cement and sand (1:3) on concrete: wood floated finished				
A	32mm thick screed to receive ceramic tiles	sm	118		
	Ceramic Tiles				
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
B	400mm x 400mm x 8mm thick tiles	sm	23		
C	150mm high skirting	m	41		
	WALL FINISHES:				
	Internal wall finishes				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
D	Walls	sm	278		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
E	Walls	sm	278		
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to				
F	Walls to receive ceramic tiles (m.s.)	sm	8		
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
G	400mm x 400mm x 8mm thick tiles	sm	8		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	EXTERNAL WALL FINISHES				
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to				
A	Walls and concrete surfaces	sm	176		
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications				
B	Externally to walls and concrete surfaces	sm	176		
	CEILING & BEAM FINISHES				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
C	Sides and soffits of beams	sm	112		
	Accoustic Celing				
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary				
D	Ceiling: patterns to Architect's approval and detail	sm	28		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
E	Beams	sm	112		
	RAMP FINISHES				
	Screed: cement and sand (1:3): on concrete wood floated				
F	20mm thick: to ramps	sm	9		
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
G	20mm thick: to ramps	m	9		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	**Ramp/ Steps railing** 900mm high balustrading in mild steel steel comprising 25 x 50mm diameter mild steel rectangular hollow section(RHS) handrail, 50mm x 50mm SHS balusters (standards) at 1000mm centres with one end grouted to concrete floor and other end welded to handrail; 25 x 6mm flat profile at 100mm centers; powder coated to approval; all as per architect's detail	m	5		
	Carried to Collection				
	COLLECTION From Page WKS1 / 19 From Page WKS1 / 20 From Page WKS1 / 21 (Above)				
	FINISHES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	WORKSHOP 1				
	SUMMARY				
	ELEMENT No.		**PAGE No.**		
	1. SUBSTRUCTURE		WKS1 / 7		
	2. REINFORCED CONCRETE SUPERSTRUCTURE		WKS 1 /8		
	3. WALLING		WKS 1 / 10		
	4. ROOF		WKS1 / 12		
	5. WINDOWS		WKS1 / 15		
	6. DOORS		WKS1 / 18		
	7. FINISHES		WKS1 / 21		
	TOTAL WORKSHOP 1 CARRIED TO MAIN SUMMARY				

WORKSHOP 2

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	56		
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1		
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1		
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1		
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1		
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1		
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1		
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	162		
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	162		
	Earthworks, Excavations and Fillings				
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	243		
L	Excavate for column bases commencing from the reduced level not exceeding 1.5m deep	cm	3		
M	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	9		
N	Extra over excavation in different classes of rock	cm	128		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
B	Allow for keep excavations free of water including any necessary pumping	Item			
C	Return, fill and ram selected soil in foundations	cm	183		
D	Remove surplus soil and dispose as directed	cm	72		
	Mass concrete class 15/20: in				
E	50mm thick blinding under strip footing	sm	38		
F	Ditto to column bases	sm	8		
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in				
G	Strip footing	cm	10		
H	Column bases	cm	3		
J	Columns	cm	2		
K	Ground beam	cm	4		
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
L	150mm thick solid ground floor slab	sm	131		
M	150mm ramp	sm	9		
	Mesh fabric reinforcement				
N	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	131		
P	Ditto; to ramps	sm	9		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
A	Assorted bars	Kg	2280		
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
B	Sides of strip footing	sm	13		
C	Sides of column starters	sm	23		
D	Sides of column bases	sm	12		
E	Soffits of ramp	sm	9		
F	Sides and soffits of ground beam	sm	50		
G	Edges: ground floor slab 75mm - 150mm girth	m	51		
	Foundation Walling				
H	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	93		
	Imported Fill				
J	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	121		
K	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	182		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Blinding				
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	121		
	Anti-termite treatment				
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	121		
	DPM				
C	Gauge 1000 polythene damp proof membrane	sm	131		
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to				
D	Plinths: externally	sm	23		
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to				
E	Plinths: externally	sm	23		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page WKS2 / 1				
	From Page WKS2 / 2				
	From Page WKS2/ 3				
	From Page WKS2 / 4				
	From Page WKS2 / 5				
	From Page WKS2 / 6				
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
A	Columns	cm	3		
B	Ring beam and lintel	cm	9		
	Reinforcement				
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
C	Assorted bars	Kg	1440		
	Formwork				
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
D	Sides of columns	sm	34		
E	Sides and soffits of ring beam and lintels	sm	112		
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 3: WALLING				
	External Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
A	200mm thick walls	sm	156		
B	200mm thick gable walls	sm	20		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
C	200mm wide	m	62		
	Internal Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
D	200mm thick walls	sm	11		
E	150mm thick walls	sm	35		
F	100mm thick walls	sm	5		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
G	200mm thick walls	m	10		
H	150mm thick walls	m	12		
J	100mm thick walls	m	2		
	Aluminium glazed Partitions				
K	Fabricate supply and fix 50mm x 50mm approved powder coated aluminium in approved framing with including 8mm thick laminated safety glass fixed with glass beading all to architects details and approval	sm	19		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Concrete Vents				
A	300mm x 300mm precast concrete vents blocks laid and jointed with cement and sand mortar; painted to detail; all to Architect's details and specifications	sm	8		
	Coping				
B	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	69		
	Carried to Collection				
	COLLECTION				
	From Page WKS2 / 9				
	From Page WKS2 / 10				
	WALLING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 4: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal timber purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**				
A	Roof covering	sm	185		
	Under-roof sisalation				
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to; ***The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes***	sm	185		
C	200mm x 50mm purlins	m	152		
D	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	36		
E	100mm x 50mm common rafters	m	264		
F	200mm x 50mm ridge board	m	19		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Timber Trusses				
	The following in 10 No. trusses				
A	150mm x 50mm principal rafters	m	91		
B	100mm x 50mm struts and ties	m	150		
C	150mm x 50mm tie beam	m	70		
	UPVC rainwater goods				
D	125mm x 150mm box gutter fixed with manufacturer's approved brackets at 600mm centres	m	37		
	Extra over rainwater goods for :-				
E	100mm diameter outlet	No	8		
F	Stopped end	No	4		
	Wrot celcured prime grade cypress				
G	250mm x 38mm fascia board and verge boards	m	55		
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to				
H	Surfaces between 200mm and 300mm girth	m	55		
	Carried to Collection				
	COLLECTION From Page WKS2 / 11 From Page WKS2 / 12 (above)				
	ROOFING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 5; WINDOWS				
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement				
A	250mm x 100mm thick cill	m	20		
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to				
B	Window cills; 200mm to 300mm wide	m	20		
	Wrot mahogany: prime grade, selected				
C	200mm x 20mm thick window board	m	20		
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces				
D	Over 100mm but not exceeding 200mm girth: window board	m	20		
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces				
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	20		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Steel Windows				
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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				
A	600mm width x 2400mm overall size	No	3		
B	3000mm width x 1000mm overall size	No	3		
C	3600mm width x 2000mm overall size	No	1		
	Glazing				
	6mm thick glass and glazing to casements with linseed putty				
D	Windows; pane size to Architect's details	sm	18		
	6mm thick obscured glass and glazing to casements with linseed putty				
E	Windows to washroom areas; pane size to Architect's details	sm	3		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
F	Windows; both sides measured	sm	42		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page WKS2 / 13				
	From Page WKS2/ 14 (Above)				
	WINDOWS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 6; DOORS				
	Timber doors				
A	Supply and fix 50mm thick hollow core flush door; overall size 900mm x 2400 mm high; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule (D8)	No	3		
B	Ditto 1000mm x 2400mm (D12)	No	1		
C	Ditto 800mm x 2400mm (D10)	No	2		
	Wrot cypress: prime grade; selected				
D	200mm x 50mm thick veneered postformed door frames	m	38		
E	Ditto transomes	m	38		
F	50mm x 75mm Architrave: splayed	m	38		
G	12mm diameter hardwood quodrant	m	38		
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces				
H	Over 100mm but not exceeding 200mm girth	m	38		
J	Not exceeding 100mm girth	m	38		
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces				
K	Over 100mm but not exceeding 200mm girth	m	76		
L	Not exceeding 100mm girth	m	76		
M	General timber surfaces: doors	sm	29		
	Glazing				
	6mm thick clear glass with safety film to door fixed with glass beading				
N	Doors; pane size to Architect's details	sm	2		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Aluminium Framed Door				
	Supply and fix aluminium framed doors with approved powder coated aluminium in framing in sections of size 100mm x 50mm x 2mm thick fixed to wall / beam / column around openings, including glazing with 8mm thick laminated glass; secured to the framing using approved glazing strips and glazing beading including waterproofing all joints using approved silicon sealing compounds with all the necesarry ironmongery and fittings; all to Architect's door schedules' details and approval				
A	Single leaf doors; overall size 800mm x 2100mm overall height (D6)	No	1		
	Galvanised Steel Roller Shutters				
	Supply and install industrial type motorized hot dipped galvanised roller shutter face mounted doors with 75mm x 4mm solid steel slats. Supplied and installed complete including all necessary frames, channel guides, canopy covers, fixing lugs, ironmongery and emergency manual opening mechanism. Including sealing all around the perimeter of the door with silicone sealant on a backing cord with minimum joint size 10mm x 10mm internally and externally; complete with all necessary ironmongery and fixed in position to Architect's details				
B	Purpose made mild steel roller shutter door 3600mm x 3000mm; complete with frame; one coat red oxide primer; all ironmongery and fixing accessories; as detailed in the Architect's schedule (D13)	No	2		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
C	Doors; both sides measured	sm	44		

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval				
A	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	10 1/2		
B	Stainless steel (304) thumb turn indicator locks	No	3		
C	Four lever mortice locks with furniture	No	3		
D	Polished stainless steel door handles	No	12		
E	Rubber door stopper	No	7		
F	2mm thick satin stainless steel kick plate screwed to door surfaces	No	12		
G	2mm thick satin stainless steel push plate screwed to door surfaces	No	6		
H	Aluminium coat hanger	No	7		
	Carried to Collection				
	COLLECTION From Page WKS2 / 16 From Page WKS2/ 17 From Page WKS2/ 18 (Above)				
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 7; FINISHES				
	FLOOR FINISHES				
	Screed: cement and sand (1:3) on concrete: wood floated finished				
A	32mm thick screed to receive ceramic tiles	sm	118		
	Ceramic Tiles				
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
B	400mm x 400mm x 8mm thick tiles	sm	23		
C	150mm high skirting	m	41		
	WALL FINISHES:				
	Internal wall finishes				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
D	Walls	sm	278		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
E	Walls	sm	278		
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to				
F	Walls to receive ceramic tiles (m.s.)	sm	8		
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.				
G	400mm x 400mm x 8mm thick tiles	sm	8		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	EXTERNAL WALL FINISHES				
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to				
A	Walls and concrete surfaces	sm	176		
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications				
B	Externally to walls and concrete surfaces	sm	176		
	CEILING & BEAM FINISHES				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
C	Sides and soffits of beams	sm	112		
	Accoustic Celing				
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary				
D	Ceiling: patterns to Architect's approval and detail	sm	28		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
E	Beams	sm	112		
	RAMP FINISHES				
	Screed: cement and sand (1:3): on concrete wood floated				
F	20mm thick: to ramps	sm	9		
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
G	20mm thick: to ramps	m	9		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	**Ramp/ Steps railing** 900mm high balustrading in mild steel steel comprising 25 x 50mm diameter mild steel rectangular hollow section(RHS) handrail, 50mm x 50mm SHS balusters (standards) at 1000mm centres with one end grouted to concrete floor and other end welded to handrail; 25 x 6mm flat profile at 100mm centers; powder coated to approval; all as per architect's detail	m	5		
	Carried to Collection				
	COLLECTION From Page WKS2 / 19 From Page WKS2 / 20 From Page WKS2 / 21 (Above)				
	FINISHES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	WORKSHOP 2				
	SUMMARY				
	ELEMENT No.		**PAGE No.**		
	1. SUBSTRUCTURE		WKS2 / 7		
	2. REINFORCED CONCRETE SUPERSTRUCTURE		WKS 2 /8		
	3. WALLING		WKS 2 / 10		
	4. ROOF		WKS2 / 12		
	5. WINDOWS		WKS2/ 15		
	6. DOORS		WKS2 / 18		
	7. FINISHES		WKS2 / 21		
	TOTAL WORKSHOP 2 CARRIED TO MAIN SUMMARY				

POWER HOUSE

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	43		
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1		
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1		
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1		
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1		
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1		
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1		
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	116		
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	116		
	Earthworks, Excavations and Fillings				
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	174		
L	Excavate for column bases commencing from the reduced level not exceeding 1.5m deep	cm	3		
M	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	12		
N	Extra over excavation in different classes of rock	cm	95		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
B	Allow for keep excavations free of water including any necessary pumping	Item			
C	Return, fill and ram selected soil in foundations	cm	104		
D	Remove surplus soil and dispose as directed	cm	85		
	Mass concrete class 15/20: in				
E	50mm thick blinding under strip footing	sm	41		
F	Ditto to column bases	sm	8		
G	Cable trench	sm	14		
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in				
H	Strip footing	cm	10		
J	Column bases	cm	3		
K	Columns	cm	2		
L	Ground beam	cm	6		
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
M	Cable trench	cm	5		
N	150mm thick solid ground floor slab	sm	107		
P	150mm ramp	sm	12		
	Mesh fabric reinforcement				
Q	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	107		
R	Ditto; to ramps	sm	12		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
A	Assorted bars	Kg	3120		
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
B	Sides of strip footing	sm	35		
C	Sides of column starters	sm	19		
D	Sides of column bases	sm	12		
E	Soffits of ramp	sm	12		
F	Sides and soffits of ground beam	sm	58		
G	Sides of cable trench	sm	57		
H	Edges: ground floor slab 75mm - 150mm girth	m	51		
	Foundation Walling				
J	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	142		
	Imported Fill				
K	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	89		
L	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	134		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Blinding				
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	89		
	Anti-termite treatment				
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	89		
	DPM				
C	Gauge 1000 polythene damp proof membrane	sm	107		
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to				
D	Plinths: externally	sm	23		
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to				
E	Plinths: externally	sm	23		
	Grating				
	Supply and fix 38mm thick heavy duty moulded FRP grating with anti-slip grit surface, mesh size 38mm x 38mm, complete with stainless steel saddle clips and all necessary accessories, fixed to concrete all in accordance with the Architect's details and specifications.				
F	Trench grating	sm	15		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page PH/ 1				
	From Page PH / 2				
	From Page PH/ 3				
	From Page PH / 4				
	From Page PH / 5				
	From Page PH / 6				
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
A	Columns	cm	2		
B	Ring beam and lintel	cm	7		
	Reinforcement				
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
C	Assorted bars	Kg	1080		
	Formwork				
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
D	Sides of columns	sm	25		
E	Sides and soffits of ring beam	sm	75		
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 3: WALLING				
	External Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
A	200mm thick walls	sm	70		
B	200mm thick gable walls	sm	14		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
C	200mm wide	m	34		
	Internal Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
D	200mm thick walls	sm	30		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
E	200mm thick walls	m	12		
	Concrete Vents				
F	300mm x 300mm precast concrete vents blocks laid and jointed with cement and sand mortar; painted to detail; all to Architect's details and specifications	sm	16		
	Coping				
G	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	14		
	WALLING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 4: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**				
A	Roof covering ***The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes***	sm	116		
B	200mm x 50mm purlins	m	75		
C	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	30		
D	100mm x 50mm common rafters	m	178		
E	200mm x 50mm ridge board	m	15		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Timber Trusses				
	The following in 10 No. trusses				
A	150mm x 50mm principal rafters	m	77		
B	100mm x 50mm struts and ties	m	96		
C	150mm x 50mm tie beam	m	58		
	UPVC rainwater goods				
D	125mm x 150mm box gutter fixed with manufacturer's approved brackets at 600mm centres	m	31		
	Extra over rainwater goods for :-				
E	100mm diameter outlet	No	4		
F	Stopped end	No	4		
	Wrot celcured prime grade cypress				
G	250mm x 38mm fascia board and verge boards	m	31		
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to				
H	Surfaces between 200mm and 300mm girth	m	31		
	Carried to Collection				
	COLLECTION				
	From Page PH / 10				
	From Page PH/ 11 (above)				
	ROOFING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 5; DOORS				
	Steel-Doors				
A	3000mm x 2400mm pressed solid steel louver double door complete with; 100mm x 50mm x 3mm RHS top and middle rail; 100mm x 50mm x 3mm RHS bottom rail; 18 gauge mild steel louvres with 20mm overlap; 100mm x 50mm x 3mm R.H.S sub frame; hinges, stays, fasteners, assembled and fixed to opening including cutting and pinning lugs; complete with purpose made latch lock; 300mm long pull handles; and any other ironmongery item; to Architect's pattern, detail and specification (D04)	No.	2		
B	Ditto; 2400mm x 2400mm (D05)	No.	1		
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval				
C	Rubber door stopper	No	3		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
D	Doors; both sides measured	sm	41		
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 6; FINISHES				
	FLOOR FINISHES				
	Screed: cement and sand (1:3) on concrete: wood floated finished				
A	20mm thick screed to receive terrazzo	sm	81		
B	20mm thick: to ramps	sm	12		
	Terrazzo				
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
D	To ramps	sm	12		
	WALL FINISHES:				
	Internal wall finishes				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
F	Walls	sm	144		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
G	Walls	sm	144		
	EXTERNAL WALL FINISHES				
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to				
H	Walls and concrete surfaces	sm	84		
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications				
J	Externally to walls and concrete surfaces	sm	84		
	FINISHES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	POWERHOUSE				
	SUMMARY				
	ELEMENT No.		**PAGE No.**		
	1. SUBSTRUCTURE		PH / 7		
	2. REINFORCED CONCRETE SUPERSTRUCTURE		PH /8		
	3. WALLING		PH / 9		
	4. ROOF		PH / 11		
	5. DOORS		PH / 12		
	6. FINISHES		PH /13		
	TOTAL POWERHOUSE CARRIED TO MAIN SUMMARY				

REFUSE ROOM

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**				
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	24		
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1		
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1		
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1		
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1		
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1		
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1		
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	49		
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	49		
	Earthworks, Excavations and Fillings				
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	74		
L	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	6		
M	Extra over excavation in different classes of rock	cm	16		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item			
B	Allow for keep excavations free of water including any necessary pumping	Item			
C	Return, fill and ram selected soil in foundations	cm	64		
D	Remove surplus soil and dispose as directed	cm	16		
	Mass concrete class 15/20: in				
E	50mm thick blinding under strip footing	sm	18		
F	Ditto to column bases	sm	4		
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in				
G	Strip footing	cm	5		
H	Column bases	cm	3		
J	Columns	cm	1		
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
K	150mm thick solid ground floor slab	sm	44		
L	150mm ramp	sm	4		
	Mesh fabric reinforcement				
M	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	44		
N	Ditto; to ramps	sm	4		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
A	Assorted bars	Kg	960		
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
B	Sides of strip footing	sm	15		
C	Soffits of ramp	sm	4		
D	Sides of column starters	sm	8		
E	Sides of column bases	sm	6		
F	Sides and soffits of ground beam	sm	26		
G	Edges: ground floor slab 75mm - 150mm girth	m	28		
	Foundation Walling				
H	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm^2	sm	51		
	Imported Fill				
J	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	36		
K	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	54		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Blinding				
A	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	36		
	Anti-termite treatment				
B	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	36		
	DPM				
C	Gauge 1000 polythene damp proof membrane	sm	44		
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to				
D	Plinths: externally	sm	13		
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to				
E	Plinths: externally	sm	13		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	COLLECTION				
	From Page RR/ 1				
	From Page RR / 2				
	From Page RR/ 3				
	From Page RR / 4				
	From Page RR / 5				
	From Page RR / 6				
	SUBSTRUCTURES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE				
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in				
A	Ring beam and lintel	cm	3		
B	Columns	cm	1		
	Reinforcement				
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions				
C	Assorted bars	Kg	480		
	Formwork				
	Formwork: Marine ply boards reinforced with timber or steel frames to:-				
D	Sides of columns	sm	13		
E	Sides and soffits of ring beam	sm	33		
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT No. 3: WALLING				
	External Walls				
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.				
A	200mm thick walls	sm	53		
B	200mm thick gable walls	sm	14		
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar				
C	200mm wide	m	21		
	Concrete Vents				
D	300mm x 300mm precast concrete vents blocks laid and jointed with cement and sand mortar; painted to detail; all to Architect's details and specifications	sm	6		
	Coping				
E	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	14		
	WALLING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 4: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**				
A	Roof covering ***The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes***	sm	49		
B	200mm x 50mm purlins	m	31		
C	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	12		
D	100mm x 50mm common rafters	m	70		
E	200mm x 50mm ridge board	m	6		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	Timber Trusses				
	The following in 4 No. trusses				
A	150mm x 50mm principal rafters	m	31		
B	100mm x 50mm struts and ties	m	39		
C	150mm x 50mm tie beam	m	24		
	UPVC rainwater goods				
D	125mm x 150mm box gutter fixed with manufacturer's approved brackets at 600mm centres	m	12		
	Extra over rainwater goods for :-				
E	100mm diameter outlet	No	4		
F	Stopped end	No	4		
	Wrot celcured prime grade cypress				
G	250mm x 38mm fascia board and verge boards	m	12		
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to				
H	Surfaces between 200mm and 300mm girth	m	12		
	Carried to Collection				
	COLLECTION				
	From Page RR / 10				
	From Page RR/ 11 (above)				
	ROOFING CARRIED TO FLOOR SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 5; DOORS				
	Steel-Doors				
A	3000mm x 2400mm pressed solid steel louver double door complete with; 100mm x 50mm x 3mm RHS top and middle rail; 100mm x 50mm x 3mm RHS bottom rail; 18 gauge mild steel louvres with 20mm overlap; 100mm x 50mm x 3mm R.H.S sub frame; hinges, stays, fasteners, assembled and fixed to opening including cutting and pinning lugs; complete with purpose made latch lock; 300mm long pull handles; and any other ironmongery item; to Architect's pattern, detail and specification (D04)	No.	1		
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval				
B	Rubber door stopper	No	1		
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval				
C	Doors; both sides measured	sm	15		
	DOORS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT NO. 6; FINISHES				
	FLOOR FINISHES				
	Screed: cement and sand (1:3) on concrete: wood floated finished				
A	20mm thick screed to receive terrazzo	sm	33		
B	20mm thick: to ramps	sm	4		
	Terrazzo				
	Insitu 20mm thick terrazzo including divised strip and polished smooth laid on prepared screed (m/s)				
C	Ramps	sm	4		
	WALL FINISHES:				
	Internal wall finishes				
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to				
D	Walls	sm	67		
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction				
E	Walls	sm	67		
	EXTERNAL WALL FINISHES				
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to				
F	Walls and concrete surfaces	sm	67		
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications				
G	Externally to walls and concrete surfaces	sm	67		
	FINISHES CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	REFUSE ROOM				
	SUMMARY				
	ELEMENT No.		**PAGE No.**		
	1. SUBSTRUCTURE		RR / 7		
	2. REINFORCED CONCRETE SUPERSTRUCTURE		RR /8		
	3. WALLING		RR / 9		
	4. ROOF		RR / 11		
	5. DOORS		RR / 12		
	6. FINISHES		RR /13		
	TOTAL REFUSE ROOM CARRIED TO MAIN SUMMARY				

GATE HOUSE

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional) **Pricing Notes:** **(i) Site Visit** **The Tenderer is advised to visit the site before pricing and ascertain the nature of any existing buildings, terrain, services and site constraints. NO claims arising from the tenderers ignorance will be entertained. Allow for protection of existing services and structures.** **(ii) Bulk Excavation** **Site clearance of bush, vegetation, mass excavation has been executed by others under Bulk Excavation Work-Package. However, part of the bulk excavation has been left intact and to be undertaken within this scope as measured here under.** **(iii) Rock level and types shall be agreed with consultants prior to commencement of respective excavations** **Classes of Rock** **(a) Class I:** **Softrock of the type known locally as "tuff" or "magadi" which in the opinion of the Structural Engineer cannot be considered as hardrock shall be known as ClassI rock. Murram and Kunker is specifically excluded and will be reckoned as common excavation.** **(b) Class II:** **Very weathered black trap or lava containing many fissures and faults shall be known as ClassII rock. This type of rock contains stones and boulders of unweathered or incompletely weathered black trap or lava. A boulder or out crop of harder rock 13.5 cu.metre or less, and first quality blue, grey or green building stone in a formation which is massive and geologically homogeneous, will be deemed to be Class II rock.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	(c) Class III: **Black trap in a formation which is massive and geologically homogeneous shall be known as ClassIII rock. The opinion of the Structural Engineer in classifying rock shall be final and binding. Common excavation shall mean excavation in any material which are not solid rock as defined in this Clause.** **(iv) Blasting** **No blasting will be allowed without the written permission of the Engineer. Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works.** **The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense. Tenderers are advised to price the tender in conjunction with the notes made on the engineer's drawings. Fill material shall be deposited in layers of approved thickness, with each layer compacted to required densities: all as prescribed and approved by the engineer. Cutting down trees shall be deemed to include obtaining necessary permits from the relevant authorities. Disposal of such trees, stumps and roots shall be in accordance with the requirements of such authorities.** **The contractor shall ensure that the trucks are not over-filled with loose materials and all roads shall be kept clean by regular sweeping. NOTE: Contractor's are reminded to visit the site and ascertain the scope and other site conditions likely to affect their pricing.**			
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Carefully cutdown existing hedges and grub-up their roots; average height 600mm; cartaway debris and all arising	m	38	
B	Cut down trees and grub up stumps and roots; Girth exceeding 600mm but not exceeding 900mm; cartaway debris and all arising	No.	1	
C	Cut down trees and grub up stumps and roots; Girth exceeding 900mm but not exceeding 1200mm; cartaway debris and all arising	No.	1	
D	Cut down trees and grub up stumps and roots;Girth exceeding 1200mm but not exceeding 1500mm; cartaway debris and all arising	No.	1	
E	Cut down trees and grub up stumps and roots; Girth exceeding 1500mm but not exceeding 1800mm; cartaway debris and all arising	No.	1	
F	Carefully grub up existing stumps and roots; Girth exceeding 1800mm but not exceeding 2100mm; cartaway debris and all arising	No.	1	
G	Cut down trees and grub up stumps and roots; Girth exceeding 2400mm but not exceeding 2700mm; cartaway debris and all arising	No.	1	
H	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	21	
J	Top soil excavation; average 150mm thick depth to reduced levels	sm	21	
	Earthworks, Excavations and Fillings			
K	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	32	
L	Excavate for strip foundation commencing from the reduced level not exceeding 1.5m deep	cm	4	
M	Extra over excavation in different classes of rock	cm	18	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
A	Allow for upholding and supporting sides of excavations including any necessary plunking and strutting	Item		
B	Allow for keep excavations free of water including any necessary pumping	Item		
C	Return, fill and ram selected soil in foundations	cm	26	
D	Remove surplus soil and dispose as directed	cm	10	
	Mass concrete class 15/20: in			
E	50mm thick blinding under strip footing	sm	11	
	Vibrated reinforced insitu concrete class 25/30; mixed with hydophobic impregnation additive & crystalysing hydrophobic impregnation to structural Eng. Specification; with minimum cube crushing strength of 30N/mm² at 28 days; in			
F	Strip footing	cm	3	
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
G	150mm thick solid ground floor slab	sm	16	
	Mesh fabric reinforcement			
H	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	16	
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
J	Assorted bars	Kg	360	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
A	Sides of strip footing	sm	10	
B	Edges: ground floor slab 75mm - 150mm girth	m	16	
	Foundation Walling			
C	200mm thick chisel dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 10N/mm²	sm	30	
	Imported Fill			
D	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	13	
E	Approved imported murram filling to make up levels compacted in layers not exceeding 150mm thick, compacted to 98% MDD	cm	20	
	Blinding			
F	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	13	
	Anti-termite treatment			
G	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	13	
	DPM			
H	Gauge 1000 polythene damp proof membrane	sm	16	
	25mm thick cement and sand (1:4) rendering: on concrete or stonework: wood float: to			
J	Plinths: externally	sm	8	
	Prepare surfaces and apply undercoat and two finishing coats black bitumastic or other equal approved water resistant paint: on rendered surfaces: to			
K	Plinths: externally	sm	8	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page GH/ 1			
	From Page GH / 2			
	From Page GH/ 3			
	From Page GH / 4			
	From Page GH / 5			
	SUBSTRUCTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: REINFORCED CONCRETE SUPERSTRUCTURE			
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	Ring beam and lintel	cm	2	
	Reinforcement			
	Supply and fix high yield deformed ribbed bars to BS 4449/1997; Grade 460B high yield strength Type 2; Proof stress of 500N/mm^2, in structural concrete work including cutting, bending, hoisting, tying wire, spacing tods and support all positions			
B	Assorted bars	Kg	240	
	Formwork			
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
C	Sides and soffits of ring beam	sm	17	
	REINFORCED CONCRETE SUPERSTRUCTURE WORKS CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 3: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	29	
B	200mm thick gable walls	sm	9	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
C	200mm wide	m	15	
	Internal Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
D	100mm thick walls	sm	8	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
E	200mm wide	m	3	
	Coping			
F	300mm wide x 50mm thick precast concrete weathered and throated to wall	m	9	
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **24 Gauge concealed interlocking roof sheeting fixed to internal steel purlins (m.s) using approved clips screw fixed to the purlins with approved wafer head self tapping screws. The sheeting will be a double interlocking concealed fix profil, roll formed in continuous length from centified steel or aluminium. The profile shall be roll formed with four ribs and centres not exceeding 233mm and a cover width not exceeding 700mm including all necessary curvatures, hoisting, placing and connections to strctural Engineer details**			
A	Roof covering **Under-roof sisalation**	sm	21	
B	Supply and fix 5mm thick heavy duty, self extinguishing, double sided reflective foil roof insulation with a closed cell polyethelene foam core that provides a radiant barrier, thermal insulation and a moisture barrier, laid to roof structure (m.s) to receive roof covering (m.s) to manufacturer's specification to; ***The following in sawn celcured 2nd grade cypress with and including all necessary nailing/bolting, drilling holes***	sm	21	
C	200mm x 50mm purlins	m	24	
D	100mm x 50mm wall plate fixed with and including hoop iron fixed to ringbeam	m	8	
E	100mm x 50mm common rafters	m	45	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	UPVC rainwater goods			
A	125mm x 150mm box gutter fixed with manufacturer's approved brackets at 600mm centres	m	8	
	Extra over rainwater goods for :-			
B	100mm diameter outlet	No	2	
C	Stopped end	No	4	
	Wrot celcured cypress			
D	100mm x 25mm T & G eaves boarding fixed to bearers	sm	5	
E	50mm x 50mm runners	m	8	
F	50mm x 50mm bearers	m	9	
	Wrot celcured prime grade cypress			
G	250mm x 38mm fascia board and verge boards	m	8	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
H	General surfaces of eaves	sm	5	
J	Surfaces between 200mm and 300mm girth	m	8	
	Carried to Collection			
	COLLECTION			
	From Page GH / 9			
	From Page GH/ 10 (above)			
	ROOFING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; WINDOWS			
	Approved concrete cill; twice throated, twice weathered: bedded and jointed in cement sand (1:3) mortar: pointed in matching coloured cement			
A	250mm x 100mm thick cill	m	5	
	12mm thick one coat bed; wood floated to receive precast window cills (m/s); to concrete or block work base; generally to			
B	Window cills; 200mm to 300mm wide	m	5	
	Wrot mahogany: prime grade, selected			
C	200mm x 20mm thick window board	m	5	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
D	Over 100mm but not exceeding 200mm girth: window board	m	5	
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
E	Surfaces over 100mm but not exceeding 200mm girth: window board	m	5	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Steel Windows			
	Supply and fix the following purpose made mild steel casement windows; with 50mm x 50mm with 50mm thick "Z" section framing, for both openable and fixed panels and 16mm thick solid bar burglar proofing to the inside behind the 25mm T - sections maximum spacing for both 250 - 350mm horizontal and 250 - 350mm vertically including all coupling mullions etc; and complete with bronze handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pining 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			
A	900mm width x 600mm overall size	No	1	
B	900mm width x 1500mm overall size	No	2	
C	1000mm width x 1500mm overall size	No	2	
	Glazing			
	6mm thick glass and glazing to casements with linseed putty			
D	Windows; pane size to Architect's details	sm	6	
	6mm thick obscured glass and glazing to casements with linseed putty			
E	Windows to washroom areas; pane size to Architect's details	sm	1	
	Prepare surfaces and apply three coats of approved paint to mild steel metal surfaces; spray painted to approval			
F	Windows; both sides measured	sm	13	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	COLLECTION			
	From Page GH / 11			
	From Page GH/ 12 (above)			
	WINDOWS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 6; DOORS			
	Timber doors			
A	Supply and fix 50mm thick hollow core flush door; overall size 900mm x 2400 mm high; composed of 5 mm plywood facing both sides over a kraft paper honeycomb core; including hardwood lipping to edges; to Architect's door schedule (D2)	No	1	
	Solid Timber Doors			
B	50mm thick sibgle leaf solid panelled mvule door comprising of 200 x 50mm thick polished mahogany top and bottom rails, 150 x 50mm thick polished mahogany intermediate rails and hinge stile overall size 900mm x 2400mm high; to Architect's door schedule (D1)	No	1	
	Wrot cypress: prime grade; selected			
C	200mm x 50mm thick door frames	m	6	
D	Ditto transomes	m	6	
E	50mm x 75mm Architrave: splayed	m	6	
F	12mm diameter hardwood quodrant	m	6	
G	225mm x 50mm thick rebated polished mvule door frames	m	6	
H	Ditto transomes	m	6	
J	75mm x 25mm Architrave: splayed	m	6	
K	12mm diameter hardwood quodrant	m	6	
	Prepare and apply one coat of approved wood primer on timber surfaces in contact with concrete or masonry surfaces			
L	Over 100mm but not exceeding 200mm girth	m	12	
M	Not exceeding 100mm girth	m	12	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare surfaces: apply three coats of approved varnish on wood: to surfaces			
A	Over 100mm but not exceeding 200mm girth	m	24	
B	Not exceeding 100mm girth	m	24	
C	General timber surfaces: doors	sm	8	
	Supply and fix approved ironmongery; matching screws, locks complete with set of keys; with parts and complete replacement available from authorized local dealers; finish to Architect's door schedule and approval			
D	Pairs of 100mm stainless steel polished butt hinges and stainless screws	Prs	3	
E	Four lever mortice locks with furniture	No	2	
F	Polished stainless steel door handles	No	4	
G	Rubber door stopper	No	2	
H	2mm thick satin stainless steel kick plate screwed to door surfaces	No	4	
J	2mm thick satin stainless steel push plate screwed to door surfaces	No	2	
K	Aluminium coat hanger	No	2	
	Carried to Collection			
	COLLECTION From Page GH / 14 From Page GH/ 15 (Above)			
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 7; FINISHES			
	FLOOR FINISHES			
	Screed: cement and sand (1:3) on concrete: wood floated finished			
A	32mm thick screed to receive ceramic tiles	sm	13	
	Ceramic Tiles			
	Supply and fix approved ceramic tiles; non-slip floor tiles; to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
B	400mm x 400mm x 8mm thick tiles	sm	13	
C	150mm high skirting	m	20	
	WALL FINISHES:			
	Internal wall finishes			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
D	Walls	sm	54	
	Backing: 10mm cement/sand (1:4): on masonry or concrete: wood float finished: to			
E	Walls to receive ceramic tiles (m.s.)	sm	21	
	Supply and fix approved ceramic wall tiles to regular pattern; bedding and jointing in cement mortar (1:4); grouting joints with matching cement.			
F	400mm x 400mm x 8mm thick tiles	sm	21	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
A	Walls	sm	54	
	EXTERNAL WALL FINISHES			
	External cement and sand (1:3) render: steel trowelled: on masonry or concrete: to			
B	Walls and concrete surfaces	sm	38	
	Prepare surfaces: apply weather proof textured cement based paint on wall and column surfaces: on rendered wall as per manufacturer's specifications			
C	Externally to walls and concrete surfaces	sm	38	
	CEILING & BEAM FINISHES			
	Plaster: 12mm cement/lime putty/sand: steel trowelled: on masonry or concrete: to			
D	Sides and soffits of beams	sm	17	
	Wrot celcured cypress			
E	25mm Tongue and Groove (T&G) boarding fixed to and including brandering	sm	9	
F	75mm coved cornice	m	12	
	Prepare wall and apply internal paints as per Architects requirement and approval; two coats of approved undercoat; one coat of skimming between the undercoats; and two final coats of approved paint all as per Architect's instruction			
G	Beams	sm	17	
	Prepare surfaces: apply three coats of approved varnish : on timber surfaces: to			
H	Softboard ceiling internally	sm	9	
J	Surfaces 0 - 100mm girth; cornice	m	12	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	600mm x 600mm laid in grid suspended semi recessed sound reflective acoustic panels in approved grid system fixed with metal suspended hangers as specified by manufacturers complete with white perimeter trims and wall angles as necessary			
A	Ceiling: patterns to Architect's approval and detail	sm	5	
	Carried to Collection			
	COLLECTION			
	From Page GH / 16			
	From Page GH/ 17			
	From Page GH/ 18 (above)			
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	GATE HOUSE			
	SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. SUBSTRUCTURE		GH / 6	
	2. REINFORCED CONCRETE SUPERSTRUCTURE		GH /7	
	3. WALLING		GH / 8	
	4. ROOF		GH / 10	
	5. WINDOWS		GH / 13	
	5. DOORS		GH / 15	
	6. FINISHES		GH / 18	
	TOTAL GATE HOUSE CARRIED TO MAIN SUMMARY			

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

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GAS CAGE

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 1; SUBSTRUCTURES (All Provisional)			
A	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	17	
B	Top soil excavation; average 150mm thick depth to reduced levels	sm	17	
	Earthworks, Excavations and Fillings			
C	Mass excavation on plinth area, not exceeding 1.5metres from reduced levels and cart away to a place approved by local authority	cm	32	
D	Remove surplus soil and dispose as directed	cm	32	
	Mass concrete class 15/20: in			
E	50mm thick blinding under strip footing	sm	17	
	Imported Fill			
F	300mm thick imported hardcore bed well compacted in layers not exceeding 150mm thick	sm	17	
	Blinding			
G	50mm thick approved quality quarry dust blinding to surfaces of hardcore	sm	17	
	Anti-termite treatment			
H	Approved anti-termite chemical treatment: applied by approved professional pest control specialist: applied strictly in accordance with the manufacturer's instructions: 10 year guarantee	sm	17	
	DPM			
J	Gauge 1000 polythene damp proof membrane	sm	17	
	Mesh fabric reinforcement			
K	Mesh reinforcement No. A142 size 200mm x 200mm weighing 2.24 kg per square metre: in floor slab: including all necessary supports	sm	17	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Vibrated reinforced insitu concrete class 25/30; with minimum cube crushing strength of 30N/mm² at 28 days; in			
A	150mm thick solid ground floor slab	sm	17	
	Formwork: Marine ply boards reinforced with timber or steel frames to:-			
B	Edges: ground floor slab 75mm - 150mm girth	m	16	
	Carried to Collection			
	COLLECTION			
	From Page GC/ 1			
	From Page GC / 2			
	SUBSTRUCTURES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT No. 2: WALLING			
	External Walls			
	Machine dressed natural stone walling bedded in cement and sand mortar (1:3) with minimum stone crushing strength of 7N/mm² and reinforced with hoop iron gauge 500 in every alternative course.			
A	200mm thick walls	sm	8	
	Bituminous hessian base to BS 743 type A: or other equal approved damp-proof course: in cement/ sand (1:3) mortar			
B	200mm wide	m	15	
	GAS CAGE			
	Supply, fabricate and install mild steel gas cage comprising 50mm x 50mm x 3mm thick horizontal members, 50mm x 50mm x 3mm thick and 25mm x 25mm x 3mm thick vertical members formed from approved mild steel sections arranged in the specified pattern; members securely welded, ground smooth and fixed to concrete/masonry structure with approved brackets, bolts or anchor plates; including all necessary cutting, drilling, hoisting and fixing in position; finished with one coat of red oxide primer and two coats of approved paint to Architect's approval; all complete as per drawings and specifications.			
C	Gas cage	sm	36	
	WALLING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 3: ROOFING **(ALL PROVISIONAL)** **Roof Covering** **Supply and fix standing seam pre-painted galvanised iron roofing sheets laid on steel purlins complete with all necessary fixing clips, fasteners, laps, flashings and accessories in accordance with the Engineer's details and specifications.**			
A	Roof covering **Unframed mild steel work as described complete with bolts, nuts, washers, splash plates and base plates; including drilling, hoisting and placing at roof level, one coat red oxide primer before fixing and touch up on completion to approval**	sm	17	
B	25 x 25 x 3mm RHS purlins x (2.07kg/m)	Kgs	55	
C	50 x 50 x 3mm RHS Rafters x (4.24kg/m)	Kgs	81	
	ROOFING CARRIED TO FLOOR SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 4; DOORS			
	Steel-Doors			
A	1000mm x 2000mm mild steel door complete with; 100mm x 50mm x 3mm RHS top and middle rail; 100mm x 50mm x 3mm RHS vertical rail; hinges, stays, fasteners, assembled and fixed to opening including cutting and pinning lugs; complete with purpose made latch lock; 300mm long pull handles; and any other ironmongery item; to Architect's pattern, detail and specification	No.	1	
	DOORS CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	ELEMENT NO. 5; FINISHES			
	FLOOR FINISHES			
	Screed: cement and sand (1:3) on concrete: wood floated finished			
A	32mm thick screed	sm	16	
	WALL FINISHES:			
	Keying and Pointing			
F	Form keyed and pointed finish to exposed masonry walling, including striking and finishing joints in cement and sand mortar and brushing the wall face to produce a uniform textured keyed appearance	sm	16	
	FINISHES CARRIED TO SUMMARY			

Item	Description	Unit	Qty	Rate
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC			
	GAS CAGE			
	SUMMARY			
	ELEMENT No.		**PAGE No.**	
	1. SUBSTRUCTURE		GC / 2	
	2. WALLING		GC/ 3	
	3. ROOF		GC/ 4	
	4. DOORS		GC/ 5	
	5. FINISHES		GC/ 6	
	TOTAL GAS CAGE CARRIED TO MAIN SUMMARY			

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

Amount (Kshs)

BUILDERS WORKS SUMMARY

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	BUILDERS WORKS SUMMARY				
	ELEMENT NO.		**PAGE NO.**		
	1. ADMINISTRATION BUILDING		ADM/ 26		
	2. TEACHING BUILDING		TBS / 1		
	3. AQUA CENTRE		ACQ / 31		
	4.VISITOR'S CENTER AND MUSEUM		VCM / 25		
	5.RESTAURANT		RST / 27		
	6. WORKSHOP 1		WKS1 / 21		
	7. WORKSHOP 2		WKS2 / 21		
	8. POWER HOUSE		PH / 14		
	9. REFUSE ROOM		RR / 14		
	10. GATE HOUSE		GH / 19		
	11. GASE CAGE		GC / 7		
	TOTAL BUILDERS WORKS CARRIED TO GRAND SUMMARY				

EXTERNAL WORKS

Item	Description	Unit	Qty	Rate	Amount (Ksh)
	ELEMENT N0 01; ROADS, PARKING AND DRIVEWAYS				
	Site preparation				
A	Clear site of all vegetation including small and large trees, scrubs and bushes, excavate to remove top vegetable soil and heap as directed on site; average depth of 250mm	sm	4647		
	Excavation				
B	Mass excavation to reduce levels: not exceeding 1.5m deep from stripped level	cm	2324		
	Disposal of Excavated material				
C	Load and cart away surplus excavated material from site to approved dumping sites.	cm	2324		
	Treatment of Surfaces				
D	Grade and compact subgrade to 2.5% falls:bottoms of excavations: compact to 100% B.S compaction to receive road paving works; to engineer's approval	sm	4647		
	Fillings				
E	Murram: graded to falls and cross falls: compacted to 100% B.S standard compaction	cm	1394		
F	300mm Thick hand-packed stone: graded to falls and cross falls: compacted to 100% B.S standard compaction	sm	4647		
G	50mm Quarry stone dust filling: ditto: finished to receive cabro blocks (measured separately)	sm	4647		
	Precast concrete units: Mix 1:2:4 (12 mm aggregate): vibrated				
H	600mm x 600mm x 50mm thick paving slabs: smooth finished: pointed and jointed in cement and sand (1:4) mortice bedded on and including 50m thick compacted sand bed	sm	3577		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Ksh)
	Precast concrete units: Mix 1:2:4 (12 mm aggregate): vibrated				
A	125mm x 250mm Kerb: half battered: bedded jointed and pointed in cement and sand (1:3) mortar:125 x 100 mm channel laid on and including 300 x 100 mm concrete class 15/20 foundation: 100x200 mm haunching excavation formwork	m	212		
B	Ditto: Curved to radius	m	30		
	Approved concrete paving blocks: on sand or quarry stone chippings (measured separately)				
C	80mm heavy duty pre-cast concrete paving blocks with minimum strength of 50N/mm^2 laid to slope on quarry dust and compacted	sm	1078		
	Markings and signs				
D	Prepare and apply approved road paint to all carpark marking and signs including paved areas; 100 mm wide in girth; colour to approval	m	115		
	Carried to Collection				
	COLLECTION				
	From Page EW / 1				
	From Page EW / 2 (above)				
	PARKING & PAVED AREAS: CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Ksh)
	ELEMENT NO. 2; FOUL WATER DRAINAGE				
	WATER DRAINAGE				
	Excavation of trenches including maintaining sides and keeping bottoms free from water, mud and fallen materials, grading bottoms, backfilling and carting away surplus excavated material				
A	150mm Upvc drain pipe average depth 600 mm	m	391		
	Mass concrete class 15/20: in				
B	Concrete haunching	cm	59		
	Terrain UPVC class D buried drains:golden brown, medium duty: solvent cement welded joints:				
C	150mm diameter pipe: laid in trench	m	142		
D	Ditto; 100mm diameter	m	249		
	Extra Over uPVC Soil Pipework for the following:				
E	100mm DN uPVC tee	No.	46		
	600mm x 450mm internal dimensions masonry manholes all in accordance with the contract drawings; include for class 20 concrete bases and covers slab, step irons and heavy duty mild steel manhole cover and frame				
F	Depth not exceeding 1.5 metres	No	31		
	1050mm internal diameter class 20 concrete manholes all in accordance with the contract drawings; include for class 20 concrete bases and covers slab, step irons and heavy duty mild steel manhole cover and frame				
G	Depth exceeding 1.5metres n.e 3.0metres	No	13		
	Carried to Collection				

Item	Description	Unit	Qty	Rate	Amount (Ksh)
	Connection to existing sewerline				
A	Allow for connection to existing sewer line	Item	1		
	Testing and commisioning				
B	Allow for testing of the whole foul drainage installation to the satisfaction of the engineer and the local authority represantative and making good	Item	1		
	Carried to Collection				
	COLLECTION				
	From Page EW / 3				
	From Page EW / 4 (above)				
	TOTAL FOR STORM AND FOUL WATER DRAINAGE				

Item	Description	Unit	Qty	Rate	Amount (Ksh)
	ELEMENT NO. 3;WILD FISH POND				
A	Clear site of all vegetation including small trees, scrubs and bushes, grub up their roots and burn the arrisings	sm	170		
B	Top soil excavation; average 150mm thick depth to reduced levels	sm	170		
C	Excavate for wild fish pond commencing from existing ground level: not exceeding 1.5 m deep	cm	225		
D	Remove surplus soil from site to a place approved by local authority	cm	225		
	Dam Liner				
	Supply, deliver, lay and fix approved HDPE geomembrane dam liner, as specified, to base and sides of fish pond, laid on well-prepared smooth subgrade, including overlaps, thermal welding of joints, testing of seams, sealing around pipe penetrations, protection against puncture, and all necessary accessories complete in accordance with the Engineer's and Manufacturer's instructions.				
E	To base and sides of walls	sm	339		
	TOTAL FOR WILD FISH POND WORKS CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Ksh)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	EXTERNAL WORKS SUMMARY				
	ELEMENT No.		**PAGE No.**		
	1. ROADS, PARKING AND DRIVEWAYS		EW / 2		
	2. FOUL AND STORM WATER DRAINAGE		EW/ 4		
	3. WILD FISH POND		EW/ 5		
	TOTAL EXTERNAL WORKS CARRIED TO MAIN SUMMARY				

PRIME COST AND PROVISIONAL SUMS

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PRIME COSTS AND PROVISIONAL SUMS				
	BUILDER'S WORK IN CONNECTION WITH SERVICES (PROVISIONAL)				
	ELECTRICAL				
	Cutting and forming chases, mortices, holes in walls and concrete structure for electrical conduits and making good disturbed surfaces for the following				
A	Distribution Boards	No	180		
B	Light Points	No	1,620		
C	Switches	No	1,350		
D	Single Socket	No	90		
E	Double Socket	No	630		
F	TV Point	No	90		
G	Dp Switch	No	90		
H	Cooker control unit	No	90		
J	Single non switched	No	180		
	BUILDERS WORKS IN CONNECTION WITH SERVICES (MECHANICAL) CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	BUILDER'S WORK IN CONNECTION WITH SERVICES (PROVISIONAL)				
	MECHANICAL				
	Cutting and forming chases, mortices, holes in walls and concrete structure for mechanical pipes and making good disturbed surfaces.				
A	Wc inlet point	No	270		
B	WHB inlet Point	No	270		
C	Kitchen Sink inlet point	No	90		
D	Shower inlet point	No	270		
E	Washing Machine inlet point	No	90		
F	Dhobi Sink inlet point	No	90		
G	Wc Drainage point	No	270		
H	WHB Drainage Point	No	270		
J	Kitchen Sink Drainage point	No	90		
K	Shower drainage Point/Floor trap	No	270		
L	Washing Machine drainage	No	90		
M	Dhobi Sink Drainage point	No	90		
	BUILDERS WORKS IN CONNECTION WITH SERVICES (MECHANICAL) CARRIED TO SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROVISIONAL SUMS **The following Provisional Sums are to be measured on completion and priced in accordance with the rates contained in these bills of Quantities or pro-rata thereto or deducted in the whole if not required**				
A	Signage		sum		
	PRIME COST SUMS CARRIED TO GRAND SUMMARY				

Item	Description	Unit	Qty	Rate	Amount (Kshs)
	PROPOSED BLUE SKILLS TRAINING AND EMPLOYMENT CENTRE (BSTEC) ON PLOT LR NO. KISUMU MUNICIPALITY / BLOCK 9 / 101 FOR THE KISUMU NATIONAL POLYTECHNIC				
	PROVISIONAL SUMS				
	ELEMENT No.		**PAGE No.**		
	1. BWIC ELECTRICAL WORKS		PS/ 1		
	2. BWIC MECHANICAL WORKS		PS / 2		
	3. PROVISIONAL SUMS		PS / 3		
	TOTAL PROVISIONAL SUMS CARRIED TO MAIN SUMMARY				

DAYWORKS

Item	Description	Unit	Qty	Rate
	DAYWORKS			
	(All Provisional)			
	Labour			
	Rates for labour shall include for all payments made in accordance with statutory requirements, overtime payments, bonus and incentive payments, travelling allowances and expenses to workmen actually employed on the completion of the Works, supervisory,administrative, clerical, welfare and safety costs, use and waste of protective clothing, tools, overheads and profit, establishment and other charges not covered in the Preliminaries			
A	Skilled labourers	Hrs	1	
B	Unskilled labourers	Hrs	1	
	Plant			
	The rates for plant shall include for all repairs, maintenance, standing or non-operating time, drivers, operators, helpers, fuel, oil, grease and perts, insurances, licences, costs of bringing to site and removing from site and overheads, profits, establishment and other charges not included in preliminaries. Payments shall be based on 'the nett actual hours or parts of an hour employed			
C	Lorry (8 tonne capacity)	Hrs	1	
D	Tipper (8 tone capacity)	Hrs	1	
E	Pneumatic compressors 160 CFM with three jacks complete with drillers, breakers, chisels, plugs, feathers and the like	Hrs	1	
F	Water pump complete with engine; 10CM/Hr output	Hrs	1	
G	Power hand tools (power drill, grinders, jack hammer etc)	Hrs	1	
H	Poker vibrators complete	Hrs	1	
J	Mobile crane, 10 tons	Hrs	0	
K	14 Cu. Ft Concrete mixer	Hrs	1	
L	9 Cu. Ft Concrete mixer	Hrs	1	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Plant cont'd			
A	JCB - Backhoe excavator; 2Ton	Hrs	1	
B	Bulldozer	Hrs	1	
C	Motor grader 140G CAT	Hrs	1	
D	Compactor roller; single drum CAD25D	Hrs	1	
E	Power generator; 11.5KVA	Hrs	1	
F	Water bowser 10,000Ltrs.	Hrs	1	
G	Steel Prop (1 No.)	Day	1	
H	Steel Scaffolding (per set)	Day	1	
	Materials			
	The rates of materials used in Daywork shall be the nett cost to the Contractor after the deduction of all discounts and shall include for all haulage, storage, handling insurances, use of plant and hoisting, overheads and profit, establishment and other charges not included in preliminaries. All materials shall be as described herein			
J	Ordinary Portland Cement (50kg bag)	Bag	1	
K	Clean river sand	tonne	1	
L	12-20mm graded coarse aggregate	tonne	1	
M	Graded crushed stone (crusher run - 0 to 6mm)	tonne	1	
N	Ready mix concrete class 20	cm	1	
P	Ready mix concrete class 25	cm	1	
Q	Ready mix concrete class 35	cm	1	
R	Murram	tonne	1	
S	Hardcore	tonne	1	
T	Red soil	tonne	1	
U	Steel reinforcement bars	Kg	1	
V	Sawn cypress timber 100 x 50mm	m	1	
W	Clear glass; 6mm thick	sm	1	
	Carried to Collection			

Item	Description	Unit	Qty	Rate
	Distibution of materials and labour in Contractor's rates for purposes of rate fluctuation computation Materials ……..% Labour ...……..%			
	Carried to Collection			
	<u>COLLECTION</u> From Page DW/1 From Page DW/2 From Page DW/3 (above)			
	DAYWORKS CARRIED TO GRAND SUMMARY			

Amount (Ksh)

Amount (Ksh)

Amount (Ksh)

GRAND SUMMARY

GRAND SUMMARY

General Summary	PAGE
Bill No. 1: General Preliminaries	
Bill No. 2: Particular Preliminaries	
Bill No. 3: Environmental, Social, Health & Safety activities	
Bill No. 4: Builders Works	
Bill No. 5: External Works	
Bill No. 6: Plumbing , Drainage, Air Conditioning & Firefighting	
Bill No. 7: Electrical Installation works & ICT installation Works	
Bill No. 8: Lift Installation	
Bill No. 9: Provisional Sums	
Subtotal of Bills	
Total for Daywork (Provisional Sum) *	
Specified Provisional Sums not included in subtotal of bills[ii]	
Total of Bills Plus Provisional Sums (A + B + C) [i]	
Bid Price (F) (Carried forward to Letter of Bid)	
16% VAT (G) (Carried forward to Letter of Bid)	

Amount