

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
PROPOSED TUITION BLOCK AT LWOMBEI SEC.					
ELEMENT NO.1					
SUBSTRUCTURES					
ALL PROVISIONAL					
NOTE; All work measured under this element is upto and including the floorslab but excluding the finishes thereon:-					
A	Clear the site of all bush scrub undergrowth and small trees grub up roots and cart away or burn all arising	705	SM		
B	Excavate oversite average 150mm deep to remove vegetable soil load up wheel and cart away.	518	SM		
C	Excavate for strip foundation trenches occuring not exceeding 1.5metres deep commencing from reduced level	174	CM		
D	Ditto but for column	87	CM		
E	Allow for keeping excavations free from mud and all water including spring and running water by pumping pailing or other approved means.		ITEM		
F	Allow for planking and strutting to sides of excavations		ITEM		
Disposal					
G.	Load surplus excavated material and cart away from site	78	CM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	Filling				
A	Return fill in and ram selected excavated material around foundations.	165	CM		
	Hardcore as described				
B	Approved hardcore filling including levelling consolidating and/or hand packing on blinding(m.s)	518	SM		
	Blinding				
C	50mm Thick layer murrum or other equal and approved blinding to the surface of hardcore;rolled smooth to receive polythene sheeting(m.s)	518	SM		
	Insecticide treatment				
D	'TERMIDOR" or other equal and approved chemical insecticide treatment prepared and applied according to the manufacturer's printed instructions.	518	SM		
	Damp proof membrane				
E	500 Gauge polythene or other equal and approved plastic sheet damp proof membrane laid over blinding(measured nett - allow for laps)	518	SM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	In-situ concrete work				
	Mass concrete (1:4:8/38-38mm aggregate)				
A	50mm Thick blinding under foundations	51	CM		
B	50 mm thick blinding under column bases	72	SM		
	Vibrated reinforced concrete (1:2:4/20-20mm) aggregate as described in:				
C	Strip foundations	31	CM		
D	Column bases and columns	27	CM		
E	150mm Thick floor slab	532	SM		
	Steel reinforcement				
	Supply and fix bar/rod reinforcement including bending hooks tyingwire cutting spacers and supporting all in position as described.				
	High tensile square twisted bars to B.S.4461				
F	16 mm diameter	2287	KG.		
G	12 mm diameter	308	KG.		
H	10 mm diameter	665	KG.		
I	8 mm diameter	496	KG.		
	Mesh reinforcement				
J	Fabric mesh reinforcement to B.S. 4483 ref: A65 including laps tyingwire and spacer blocks complete(measured nett-allow for laps)	532	SM		
	Sawn formwork as described to:				
K	Vertical sides of foundations	421	SM		
L	Edges of floor slab 75-150mm high	132	LM		
M	Sides of columns	111	SM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
A	Foundation walling 200mm Thick Natural Stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoopiron in every alternate course Plinth area finishes	312	SM		
B.	12mm Thick cement and sand (1:3) wood float render to plinth area	46	SM		
C.	Prepare and apply three coats black bitumastic paint to rendered area	46	SM		
<i>Carried to collection</i>					

COLLECTION		
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Brought down from page	LSS/ 4	
TOTAL FOR ELEMENT NO. 1 SUBSTRUCTURES CARRIED TO SUMMARY		

LSS/ 4

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO.2				
	R.C. FRAME & STEEL FRAMES				
	Vibrated reinforced concrete (1: 2:4/20 - 20mm aggregate) as described in:-				
A.	Ringbeam/beams	46	CM		
B.	Columns	21	CM		
C.	1st floor slab	72	CM		
D	Ramp	7	CM		
E	Concrete worktops	3	CM		
F	Stair case	4	CM		
	Steel reinforcement				
	Supply and fix steel bar/rod reinforcement including bending hooks tyingwire cutting spacer blocks and supporting all in position				
	High tensile square twisted bars to B.S. 4461 as described in ;				
G	12 mm diameter	6142	KG.		
H	10 mm diameter	3042	KG.		
I	8 mm diameter	3008	KG.		
J	16 mm diameter	5217	KG.		
K	20 mm diameter	1034	KG.		
	Sawn formwork as described to:				
L	Soffites of suspended slabs	472	SM		
M	Sides and soffites of beams	153	SM		
N	Sides of columns	180	SM		
O	Sides and soffites of stair case and ramp	48	SM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
Hand Rail To Sides of Balcony and Stair Case area					
A.	100mm diameter rectangular section mild steel welded ballustades in stair case and ramp .	84	LM		
B	100mm diameter Round Stanchion casted on slab in balcony.	112	LM		
C	1.5"Square tube welded on 100mm stanchion as handrails	184	LM		
D	1.0"Square tube welded on 100mm stanchion as decoration on the handrails	192	LM		
Painting					
E	Prepare and apply one coat of red oxide primer before transporting to site and another on site to general surfaces of steel columns surfaces including preparing and applying two coats gloss oil paint	572	LM		
<i>Carried to collection</i>					

COLLECTION			
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TOTAL FOR ELEMENT NO. 2			
R.C. FRAME/STEEL FRAME			
CARRIED TO SUMMARY			

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 3				
	EXTERNAL WALLING				
	Approved Natural Stone walling bedded and jointed in cement and sand (1:3) mortar with recessed joints as described in:-				
A.	200mm Thick reinforced with and including 20swg x 25mm wide hoopiron in every third course	868	SM		
B	Extra over walling for eaves crossing	124	LM		
	Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)				
C	200mm Wide levelled and bedded in cement and sand (1:3) mortar under walls	124	LM		
<i>Carried to collection below</i>					

	COLLECTION			
	Brought down from page	LSS/ 7	Above	
	TOTAL FOR ELEMENT NO.3			
	EXTERNAL WALLING			
	CARRIED TO SUMMARY			

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 4				
	INTERNAL WALLING				
	Approved Natural Stone walling bedded and jointed in cement and sand (1:3) mortar with recessed joints as described in:-				
A.	200mm Thick reinforced with and including 20swg x 25mm wide hoopiron in every third course	762	SM		
B	200mm Thick reinforced with and including 20swg x 25mm wide hoopiron in every third course dwaff to a height of 1.2m high to allow formation of reinforced concrete worktops in laboratory structure.	36	SM		
	Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)				
C	200mm Wide levelled and bedded in cement and sand (1:3) mortar under walls	127	LM		
<i>Carried to collection below</i>					

	COLLECTION			
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	TOTAL FOR ELEMENT NO.4			
	INTERNAL WALLING			
	CARRIED TO SUMMARY			

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 5				
	ROOFING				
	Construction				
	All timber to be sawn cypress of G.S. grade seasoned to an equilibrium moisture content of between 9% and 15% and to the requirement of K.S. 02 771 of 1991 treated with approved wood preservative				
A.	100 x 50mm Wall plate on and including 10mm cement and sand (1:4) mortar bed by black mild steel anchor bolts (m.s.)	128	LM		
	The following in 16 No. Nailed timber trusses spanning clear 5200mm (average) height 1350mm including hoisting and placing 3000mm above floor slab level				
B.	100 x 50mm Trussed rafter	414	LM		
C.	100 x 50mm Tie beam	368	LM		
D.	100 x 50mm Strut/tie	667	LM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	Independent members				
A	75x 50mm purlins	654	LM		
	Covering				
B	Gauge 30"GCI" box profile sheet roofing fixed on purlins(m.s.)	498	SM		
C	Gauge 30g Ridge capping to match covering	57	LM		
D	Ditto but valleys to match covering Wrot cypress	26	LM		
E	25 x 225mm Fascia board fixed to end of rafters(m.s)	133	LM		
F	25 x 225mm Barge board fixed to end of battens	66	LM		
	Painting Prime only back of wood before fixing				
G	Surfaces of fascia 100-200mm girth Knot prime stop and apply one under coat and two finishing coats gloss oil paint to;	133	LM		
H	General surfaces of wood 200 - 300mm girth	159	LM		
Carried to collection					

	COLLECTION	
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	TOTAL FOR ELEMENT NO.5 ROOFING AND RAINWATER WATER GOODS CARRIED TO SUMMARY	

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ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 6				
	WINDOWS				
	Supply and fix the following purpose made welded mild steel casement windows comprising of one inch z section framing, T sections				
A.	Window overall size 1500mmx1200mm high	40	NO		
B	Window overall size 1200mmx1000mm high	1	NO		
C	Window overall size 900mmx600mm high	6	NO		
	Glazing				
	5mm thick clear sheet glass in metal putty in:-				
D	Panes exceeding 0.1 sq m but not exceeding 1.50	80	SM		
	Window Cill				
E	Ex. 250 x 75mm Thick precast concrete window cill weathered and throated, reinforced as necessary , finished fair faced including hoisting and bedding in cement and sand (1:3) mortar	115	LM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	Painting				
	Prepare and apply one under coat and two finishing gloss oil paint to ;				
A.	General surfaces of metal (windows) internally	97	SM		
B	General surfaces of metal (windows) externally	97	SM		
Carried to collection					

	COLLECTION				
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	Brought Down from page	LSS/ 13	Above		
	TOTAL FOR ELEMENT NO.6 WINDOWS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO.7				
	DOORS				
	Metal doors				
A.	900mm wide x 2400mm high overall mild steel doors with side lights	9	NO.		
B	900X2100mm high overall solid core flush doors	11	NO		
	Painting to:				
C	General surfaces of Metal	39	SM		
D	General surfaces of wood	42	SM		
Carried to collection					

	COLLECTION				
	Brought down from page	LSS/ 14	Above		
	TOTAL FOR ELEMENT NO. 7				
	DOORS				
	CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 8				
	FINISHES				
	Floors and Skirtings Insitu cement and sand (1:3) screeded beds, with steel trowelled finish , on concrete				
A.	20mm Thick backing finished with a wood float steel trowelled rough	894	SM		
B	Supply and lay terrazzo floor finish withing the laboratory and all walk ways including the veranda, stairs, ramp and balconies.	239	SM		
C	Ditto but to all skirtings and plinth	115	LM		
D	Supply and fix 300mm x 300 chinese cerramic files in c/s slurry to all office & classroom floor area.	825	SM		
E	Ditto but to all skirtings and plinth	267	LM		
	EXTERNAL WALL FINISHES				
	External walls 12mm thick cement, sand render, with wood float finish, as described to:-				
F	Walls/Concrete surfaces of beams	968	SM		
	Painting and decorating Prepare and apply one undercoats and two finishing coats exterior quality plastic emulsion paint on :-				
G	Rendered concrete and external wall surfaces	968	SM		
Carried to collection					

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
INTERNAL WALL AND SUSPENDED SLAB FINISHES					
Internal walls					
12mm thick cement, sand and lime plaster, with steel trowelled finish, as described to:-					
A.	Walls	2312	SM		
Painting and decorating					
Prepare and apply one undercoats and two finishing coats plastic emulsion paint on :-					
B	Suspended soffit of 1st floor R.C slab	532	SM		
C	Plastered walls, suspended slab and beams	2844	SM		
<i>Carried to collection</i>					

COLLECTION		
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TOTAL FOR ELEMENT NO. 8 FINISHES CARRIED TO SUMMARY		

NO.	SUMMARY ELEMENT	
1	SUBSTRUCTURES	LSS/ 4
2	R.C. FRAME	LSS/ 6
3	EXTERNAL WALLING	LSS/ 7
4	INTERNAL WALLING	LSS/ 8
5	ROOFING	LSS/ 11
6	WINDOWS	LSS/ 13
7	DOORS	LSS/ 14
8	FINISHES	LSS/ 16
	<i>CARRIED TO GRAND SUMMARY</i>	

LSS/ 17

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	PC AND PROVISIONAL SUMS				
A.	Allow a provisional sum of Kenya Shillings five hundred thousand only (500,000.00) for Contingencies		SUM		500,000.00
B	Allow a provisional sum of Kenya Shillings six hundred thousand(600,000.00) only for electrical Works		SUM		600,000.00
C	Allow a provisional sum of kenya shillings three hundred thousand(300,000)for plumbing works complete with all accessories and Construction of a bio-digester.		SUM		300,000.00
D	Allow a provisional sum of Kenya Shillings five hundred and fifty thousand only(550,000) for Project supervision .		SUM		550,000.00
E	Allow a prime cost sum of kenya shillings two hundred and fifty thousand only for plan certification, approval and registration by the Natonal Construction Authority.		SUM		250,000.00
Carried to collection					2,200,000.00

	Brought Down from Page No. PC/ 1 Above	2,200,000.00
	TOTAL FOR PC AND PROVISIONAL SUMS	2,200,000.00 !
	CARRIED TO GRAND SUMMARY	

GRAND SUMMARY

ITEM	DESCRIPTION		
1	BUILDING WORKS	LSS/17	
2	PROVISIONAL SUMS	PS/1	
	SUB-TOTAL - 1		
	ADD LABORATORY FITTINGS AND ACCESSORIES		
	SUB-TOTAL - 2		
	ADD 16%VAT		
	TOTAL FOR WORKS		

AMOUNT IN WORDS.....

ADDRESS.....

SIGNATURE.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....