



**MINISTRY OF TRANSPORT, HOUSING AND
URBAN DEVELOPMENT
STATE DEPARTMENT OF PUBLIC WORKS**

BILL OF QUANTITIES

FOR

**THE PROPOSED CONSTRUCTION TO COMPLETION
A STOREY LABORATORY BLOCK**

FOR

CHEBORGEI BOYS HIGH SCHOOL

PREPARED:

COUNTY WORKS OFFICER,
BOX 44,
KERICHO.

CLIENT:

CHEBORGEI BOYS HIGH SCHOOL,
P.O BOX 17-20210,
LITEIN.

2026

ITEM	DESCRIPTION	QTY	UNIT	RATE	CONTRACT AMOUNT Kshs..
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (PROVISIONAL)</u>				
	<u>Site Clearance</u>				
A	Clear site of off grass, shrubs and all vegetation, cart away as directed.	700	SM		
B	Excavate vegetable soil average 200mm deep and cart away as directed.	700	SM		
	<u>Excavation</u>				
C	Excavate over-site to reduce levels commencing from stripped level average 300mm deep and spread on site average 10metres away.	210	CM		
D	Excavate for strip footing starting from reduced level not exceeding 1.20metres deep and cart away as directed.	210	CM		
E	Excavation for columns excess ditto.	137	CM		
F	Return fill-in and rum selected excavated material.	266	CM		
G	Remove and cart away from site surplus excavated material as directed.	81	CM		
	<u>Disposal of water</u>				
H	Keep all excavations free from all water including spring or running water.	ITEM	ITEM		
	<u>Planking and strutting</u>				
J	Uphold the sites of all excavations	ITEM	ITEM		
	<u>Filling</u>				
K	Hardcore filling in making up levels exceeding 300mm thick, depositing and compacting in layers of 125mm maximum thickness.	460	SM		
L	50mm thick Murram blinding to surfaces of fill.	460	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUBSTRUCTURES (ALL PROVISIONAL)</u>				
	<u>Anti-termite treatment</u>				
A	TERMIDOR or YHother equal and approved insecticide with a ten-year guarantee to surfaces of fill and tops of foundations.	460	SM		
	<u>Concrete</u>				
B	50mm thick mass concrete class Q (1:4:8) to bottoms of foundations. /strip footing and column bases	47	SM		
	<u>In-situ concrete; reinforced; class 20/ (20) mm; vibrated.</u>				
C	Foundations in trenches irrespective of thickness	8	CM		
D	150mm thick bed in class 20/20mm	460	SM		
E	Columns bases.	43	CM		
F	Columns footings.	4	CM		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks to foundation columns, strip fnd.</u>				
G	16mm dia.	865	KG		
H	12mm bars	1003	KG		
I	10mm bars	543	KG		
J	8mm bars	158	KG		
	<u>Fabric; B.S. 4483</u>				
K	Reference A62mesh 200x200mm, weight 2.22kgs per square meter (measured net-no allowance made for laps) including bends, tying wire and distance blocks.	460	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Sawn formwork to in-situ concrete as described:</u>				
A	To sides; vertical or battering of strip foundations.	35	SM		
B	Edges of ground floor slab; 75 to 150mm wide.	120	LM		
C	Vertical Columns.	55	SM		
D	Sides of column bases.	114	SM		
	<u>Foundation Walling</u>				
E	200mm thick approved local natural stone; roughly squared to foundation walling; bedding and jointing in cement sand (1:3) mortar.	170	SM		
	<u>Damp proofing</u>				
F	Polythene; 1000 gauge, 150mm laps (no allowance made to laps), horizontal; 1 no. layer laid on Murram blinding	460	SM		
G	200mm wide; B.S. 743 Type A bitumen hessian base 150mm laps (no allowance made for laps); horizontal, 1 no. layer, bedded in cement sand (1:3) mortar.	175	LM		
	<u>In-situ finishing</u>				
H	14mm thick 2 No. coat-work cement sand (1:3) render; wood floated to concrete or block-work base to walls; externally.	170	SM		
	<u>Prepare and apply three coats black bituminous paint on:-</u>				
I	Rendered plinths, externally	170	SM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>ELEMENT NO. 2</u> <u>SUPERSTRUCTURE WALLING.</u> 200mm thick approved local natural stone; chisel dress and make it smooth to superstructure walling; bedding and jointing in cement sand (1:3) mortar for external and internal walling.	780	SM		
	Total For Walling Carried to Summary				

CBHS /LB/05

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>Ring Beam, Columns, Slab ,ramp and Stair.</u>				
	<u>In-situ concrete; reinforced; class 20/(20mm); vibrated</u>				
A	Beams	91	CM		
B	Columns	22	CM		
C	Slab	920	SM		
D	Staircase	12	CM		
E	Ramp	15	CM		
	<u>Reinforcement</u>				
	<u>Bars; high yield steel; cold worked to B.S. 4461 including bends, hooks, tying wire and distance blocks.</u>				
F	D-20mm bars	5480	KG		
G	D-16mm bars	5353	KG		
H	D-12mm bars	912	KG		
I	D-10mm bars	14380	KG		
J	D-8mm bars.	1176	KG		
	<u>Sawn formwork to in-situ concrete as described: -</u>				
K	Columns	330	SM		
L	Beams	510	SM		
M	Slabs	920	SM		
	Total For Frame Carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4.</u>				
	<u>ROOFING</u>				
	<u>Galvanized corrugated sheet roofing: 30gauge; pre-painted.</u>				
A	Roof covering not exceeding 45 degrees from horizontal; fixing to timber structure (m/s) with roofing nails and neoprene washers J bolts nuts neoprene washers and caps on 5mm roof heat insulation.	650	SM		
	<u>Accessories, fixing as necessary to roof</u>				
B	Ridge cap	70	LM		
	<u>CARPENTRY</u>				
	<u>The following in sawn celcured cypress</u>				
C	100 x 50mm sawn cypress tie beam	600	LM		
D	100 x 50mm rafters	350	LM		
E	100 x 50mm wall plate rag-bolted at 1200mm c/c with 12mm diameter bolts (m/s).	84	LM		
F	100 x 50mm king posts	80	LM		
G	100 x 50mm king posts	300	LM		
H	75 x 50mm sawn cypress struts	760	LM		
	50 x 50mm sawn cypress purlins.				
	<u>Wrot cypress, prime grade</u>				
J	200 x 25mm thick fascia board	110	LM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Rain water goods</u>				
A	150 x 100mm box gutter including soldered joints in the running length fixed to fascia board with and including brackets	110	LM		
B	Extra for blocked ends with 75mm dia. outlet 100mm long.	12	NO		
C	Extra for 90-degree bends	12	NO		
D	75mm dia. Rainwater downpipe fixed with and including mild steel straps at 900mm centers, plugged and screwed to wall.	80	LM		
E	Extra, swan-neck bends.	24	NO		
F	Extra; horse shoe bend	24	NO		
	<u>Painting and Decorations</u>				
	<u>On woodwork</u>				
	<u>Prepare and apply one undercoat and two coats of CROWN SOLO or other equal and approved super gloss oil paint to:-</u>				
G	Fascia; 200 to 300mm girth; external	110	LM		
	<u>On metal work</u>				
	<u>Prepare and apply one approved etching primer, one undercoat and two coats of CROWN SOLO or other equal and approved super gloss oil paint to:-</u>				
H	General surface of gutters; over 300mm girth externally	44	SM		
J	Small pipes; eternally.	30	SM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5.</u> <u>DOORS.</u> <i><u>Mild steel casement doors;50x50x3mm thick frame plugged to block work with 100mm long fishtailed 25x25x2mm thick angle section frames at 300mm centres both sides, angles cut,mitred and welded; panels in filled with 4mm thick glazing at top panel and 16gauge black sheet panel at both middle and bottom panels as detailed in the drawing ,one coat manufacturer's primer,complete with all necessary iron monger;all welding ground to smooth finish .</u></i>				
A	Double door with equal leaves 1500x2400mm high including 3 pairs 10mm long purpose made hinges;2no.400mm tower bolts and 1no.300mm D handle. <u>Hardwood paneled</u>	12	NO		
B	Single door size 900x2400mm high complete with timber frames with lock <u>Painting and Decorations</u>	12	NO		
C	Touch up primer,prepare and apply two undercoats and one finish coat of matt oil paint to surfaces of metal doors(both inside and outside)	87	SM		
D	Touch up primer, prepare and apply two undercoats and one finish coat of gloss paint to surfaces of timber doors(both inside and outside)	52	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6.</u>				
	<u>WINDOWS</u> <u>Supply, assemble and fix the following purpose-made mild steel casement window; standard metal section from approved manufacturer complete with frame, transoms, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved iron monger and one coat manufacturers primer; all welding ground to smooth finish as described</u>				
A	Window, overall size 1500 x 1200mm high	60	NO		
	<u>Glazing</u>				
B	5mm thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty.	108	SM		
C	150x20mm clay tile weathered and throated window cill.	96	LM		
	<u>Painting and Decorations</u>				
	<u>On metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -</u>				
D	General window surfaces; over 300mm girth internal	108	SM		
E	General window surfaces; over 300mm girth external	108	SM		
	Total Carried to collection				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7.</u>				
	<u>FINISHES.</u>				
	<u>Wall Finishes</u>				
	<u>Plaster; 12mm thick 2 No. coat, 9mm first coat of cement sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled to concrete or block work base generally: -</u>				
A	Walls; internally	1900	SM		
B	Extra over horizontal pointing in 10mm thick rod in cement and sand (1:3) mortar to external wall.	990	SM		
	<u>Finishes to:</u>				
C	Soffits of slab and surfaces of staircase.	920	SM		
D	Beams	361	SM		
E	columns	156	SM		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats of first quality plastic emulsion paint to:-</u>				
F	Plastered beams and columns externally	517	SM		
	<u>Prepare and apply three coats of first quality of black bituminous paint to:-</u>				
G	Wall surfaces internally.	1900	SM		
H	Surfaces of staircase and soffit of slab.	920	SM		
	Total Carried to collection				

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CBHS/LB/16

NO	DESCRIPTION	AMOUNT
1.	<u>GRAND SUMMARY</u> TOTAL FOR FROM PAGE,<i>CBHS /LB/16</i>	
	TOTAL CONTRACT SUM CARRIED TO FORM OF TENDER.	
AMOUNT IN WORDS TENDERER'S NAME ADDRESS SIGN & STAMP DATE WITNESS NAME ADDRESS SIGN & STAMP DATE		