



**MINISTRY OF TRANSPORT INFRASTRUCTURE,  
HOUSING AND URBAN DEVELOPMENT  
(STATE DIRECTORATE OF PUBLIC WORKS)**

**BILL OF QUANTITIES**

**FOR**

**PROPOSED COMPLETION OF  
ADMINISTRATION BLOCK AT MERE  
SECONDARY SCHOOL**

**KIENI CONSTITUENCY**



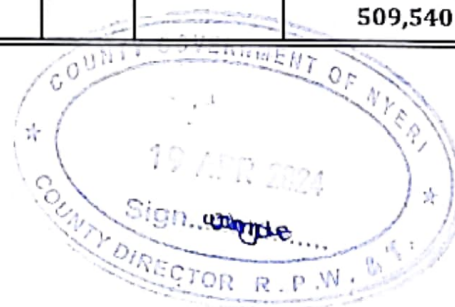
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b><u>PROPOSED SECONDARY SCHOOL ADMINISTRATION BLOCK SUBSTRUCTURES (ALL PROVISIONAL)</u></b> ELEMENT NO. 1 <u>Site Clearance</u>					
A	Clear site of small bushes and grub roots of small trees and cart away	152	M2	50	7,600
<u>Excavations</u>					
B	Excavate to remove top soil average depth 300 mm and cart way arising debris	152	M2	150	22,800
C	Excavate to reduce levels; average depth 300mm and cart away arising debris n.e 1200 mm	228	M3	450	102,600
D	Excavate for foundation trench and snub column bases not exceeding 1.5m deep from stripped level	114	M3	450	51,300
<u>Disposal of excavated materials</u>					
E	Return fill and ram selected excavated materials around foundations	50	M3	150	7,500
F	Cart away surplus excavated materials and spread as directed on site	287	M3	200	57,400
<u>Planking and Strutting</u>					
G	Allow for planking and strutting to sides of all excavations including keeping excavations free from fallen materials		Item		5,000
<b>Carried to Collection</b>					<b>254,200</b>



A	50mm stone dust blinding to surface of hardcore	152	M2	50	7,600
	<u>Damp Proof Membrane</u>				
B	Single layer of 500 gauge polythene sheeting laid on blinded hardcore with 150 mm side laps to	152	M2	130	19,760
	<u>Anti - termite treatment</u>				
C	Treat surface of hardcore with 'Dieldrin' or similar approved ant-termite solution applied strictly in accordance with the manufacturer's instructions	152	M2	200	30,400
	<u>Concrete work</u>				
	<u>Plain concrete class C15 achieving characteristic compressive strength of 15N/mm<sup>2</sup> at 28days of 150mm cubes as per BS Standard of 15th August, 2005 in :- in :-</u>				
D	50mm thick blinding to strip foundations	53	M2	450	23,850
	<u>Vibrated Reinforced concrete class C25 achieving characteristic compressive strength of 25N/mm<sup>2</sup> at 28days of 150mm cubes as per BS Standard of 15th August, 2005 in :-</u>				
E	Strip Foundation	12	M3	13,500	162,000
F	150mm thick ground floor slab	152	M2	1,350	205,200
G	Column bases	7	M2	13,500	94,500
H	Snub Columns	4	M2	13,500	54,000
	<b>Carried to Collection</b>				<b>597,310</b>



	<u>Reinforcement</u>				
	<u>High tensile reinforcement as described including cutting to length, bending and fixing including all necessary tying wires and spacing blocks(All provisional)</u>				
	<u>Bars: high yield deformed steel; cold worked and ribbed to BS 4449</u>				
A	D10	442	KG	190	83,980
	D12	128	KG	190	24,320
	D8	85	KG	190	16,150
	<u>Steel fabric mesh reinforcement to B.S. 4483</u>				
B	BRC mesh fabric reinforcement ref A98 (weighing 2.2kg/m <sup>2</sup> ) laid in slab (measured net-no Sawn formwork to: -	152	M2	450	68,400
C	Vertical and horizontal sides of strip foundation and snub columns	68	M2	550	37,400
D	Vertical edges of slab 75 -150mm high	53	M1	130	6,890
E	<u>Masonry</u>				
	<u>Medium chisel dressed natural quarry stone walling bedded in cement and sand mortar 1:4</u>				
F	200mm Thick walling	124	M2	2,100	260,400
	<u>Cement/sand (1:3)</u>				
G	12mm Thick external rendering to plinth surfaces finished smooth with a wood float	30	M2	400	12,000
	<b>Carried to Collection</b>				<b>509,540</b>



<u>COLLECTION</u>			
From page MH/1			254,200
From page MH/2			597,310
From page MH/3			509,540
<b>Total for Substructures Carried to Summary</b>			<b>1,361,050</b>

COUNTY GOVERNMENT OF ...  
 19 APR 2021  
 Sign: *[Signature]*  
 COUNTY DIRECTOR R.P.M. E.S.

**ELEMENT NO. 2**

**R.C. SUPERSTRUCTURE**

Vibrated Reinforced concrete class C20/25 achieving characteristic compressive strength of 25N/mm<sup>2</sup> at 28days of 150mm cubes as per BS Standard of 15th August, 2005 in :-

A	Ring Beam	4	M3	13,500	54,000
---	-----------	---	----	--------	--------

Reinforcement

High tensile reinforcement as described including cutting to length, bending and fixing including all necessary tying wires and spacing blocks(All provisional)

B	D10	205	KG	190	38,950
---	-----	-----	----	-----	--------

C	D8	197	KG	190	37,430
---	----	-----	----	-----	--------

Sawn formwork as described to:-

D	Vertical sides and soffits of beams	53	M2	550	29,150
---	-------------------------------------	----	----	-----	--------

G	Vertical sides of columns	0	M2	0	0
---	---------------------------	---	----	---	---

**Total for R.C Superstructure Carried to Summary**

**159,530**



<b>ELEMENT NO. 3</b>					
<b>EXTERNAL WALLING</b>					
<u>Approved local stone; machine cut; bedding and jointing in cement mortar (1:3); with a minimum compressive strength of 7N per square millimetre</u>					
A	150 mm thick; reinforced with hoop iron gauge 500 in every alternative course	101	M2	1,950	196,950
<u>Approved hessian based damp proof course</u>					
B	200 mm Wide Hessian based bituminous felt damp proofing course laid and bedded on cement sand (1:4) mortar	48	M1	120	5,760
<b>Total for External Walling Carried to Summary</b>					<b>202,710</b>





**ELEMENT NO. 4**

**INTERNAL WALLING**

Approved local stone; machine cut; bedding and jointing in cement mortar (1:3); with a minimum compressive strength of 7N per square millimetre

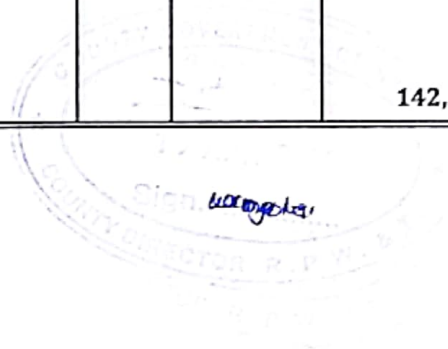
A	150 mm thick; reinforced with hoop iron gauge 500 in every alternative course	71	M2	1,950	138,450
---	---	----	----	-------	---------

Approved hessian based damp proof course

B	200 mm Wide Hessian based bituminous felt damp proofing course laid and bedded on cement sand (1:4) mortar	34	M1	120	4,080
---	--	----	----	-----	-------

**Total for Internal Walling Carried to Summary**

**142,530**





ELEMENT NO. 5

ROOF CONSTRUCTION AND COVERING  
(PROVISIONAL)

All timber to be in Sawn cypress grade II, pressure impregnated and well seasoned. The contractor to allow in his rates for proper joints, mild plates and bolt connections; including cleats, scarfed joints and hoop irons as may be deemed necessary and to structural engineer's approval; including hoisting average 10,000mm high above ground level

A	100 x 50 mm Wall plate	48	M1	400	19,200
B	75x 50 mm purlin	200	M1	350	70,000
C	100 x 50 mm common rafters	124	M1	400	49,600
D	100 x 50Kingpost	23	M1	400	9,200
E	75 x 50mm timber struts and ties	120	M1	350	42,000
F	100 x 50mm tie beam	110	M1	400	44,000
<u>Sheet covering</u>					
<u>30 GAUGE IT 5 BOX PROFILE PRE-PAINTED ROOFING SHEETS</u>					
G	Roof covering	190	M2	1,250	237,500
H	150 x 50 mm ridgecap <u>Wrot Cypress</u>	22	M1	750	16,500
H	250 x 30mm Fascia or barge board	52	M1	750	39,000
<b>Carried to Collection</b>					<b>527,000</b>



<u>PAINING AND DECORATING</u>					
<u>Knot, prime and prepare and apply three coats gloss exterior oil paint on wood surfaces to:</u>					
A	General surfaces of wood	52	M1	90	4,680
<b>Carried to Collection</b>					<b>4,680</b>
<u>COLLECTION</u>					
From page MH/8					527,000
From page above					4,680
<b>Total for Roof Construction Carried to Summary</b>					<b>531,680</b>



**ELEMENT NO. 6**

**WINDOWS**

In- situ Concrete Works:-

A Window cill size 200 x 25mm once sunk, weathered and throated, finished fairface on exposed surfaces

17	M1	350	5,950
----	----	-----	-------

Supply, assemble and fix the following medium duty Z- section steel casement framed windows comprising small panes in various sizes in openable and fixed ligfhts, with and including mild steel framed burglar proofing comprising 16mm diameter round bars with 25 x 4mm thick flat bars framing and vertical members, all primed before fixing, complete with 4mm thick clear glass and all necessary approved ironmongery and fittings fixed to opening including fixing framing to concrete or masonry, making good disturbed surfaces and including two layers of 1 and 5mm mosquito gauze all to architect's drawings and approval.

B Window overall size 1200 x 1500mm high

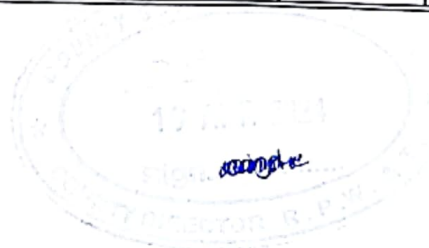
10	NO	15,000	150,000
----	----	--------	---------

C Window overall size 1200 x 1200mm high

2	NO	13,500	27,000
---	----	--------	--------

Carried to Collection

182,950



	<u>GLAZING</u>				
	<u>Sheet, clear</u>				
A	4 mm thick to metal with putty glazing compound	21	M2	1,450	30,450
	<u>PAINTING AND DECORATING</u>				
	<u>Prepare and apply three coats gloss oil paint to metal surfaces</u>				
B	General surfaces both sides measured	21	M2	300	6,300
	<b>Carried to Collection</b>				<b>36,750</b>
	<u>COLLECTION</u>				
	From page MH/10				182,950
	From page above				36,750
	<b>Total for Windows Carried to Summary</b>				<b>219,700</b>



**ELEMENT NO. 7**

**DOORS**

Steel Doors

Purpose made mild steel panelled door overall size 1200x 2100 high made from 32x 32x3mm SHS outer flanging and 25x 25x 3 mm vertical and horizontal members steel panelled plate with 600 mm glazing top complete with lock and all other necessary fittings

A	Double door overall size 1200 x 2100mm high	2	NO	17,600	35,200
B	Single door overall size 900 x 2100mm high	2	NO	15,000	30,000

Timber Doors

Supply and fix the following 45mm thick (finished) solid core flush door faced both sides with interior quality polished mahogany veneer finish on both sides hardwood lipped all round

B	Door size 900 x 2100mm high	7	NO	9,500	66,500
---	-----------------------------	---	----	-------	--------

**Carried to Collection**

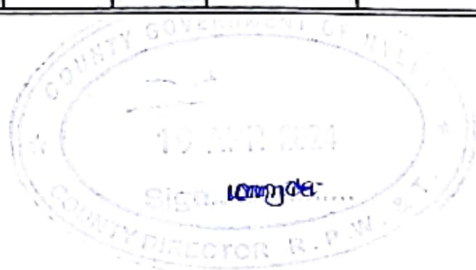
**131,700**



<u>Ironmongery</u>				
<u>Supply and fix the following ironmongery complete with matching screws all as per "union" catalogue or other equal and approved</u>				
A	2 - Lever cylinder lock	7	No	17,500
B	4" x 3" x 3mm thick Antique Brass hinges	11	Prs.	5,500
<u>FRAMES AND FINISHINGS</u>				
<u>Wrot Hardwood</u>				
C	250 x 50mm frame with three labours, plugged	37	M1	55,500
D	50 x 20mm rounded architrave with two labours	37	M1	6,660
E	20mm diameter quadrant beading ditto	37	M1	3,330
<u>PAINTING AND DECORATING</u>				
<u>Prepare and apply one coat aluminium primer on back of wood before fixing</u>				
F	Surfaces not exceeding 100mm girth	37	M1	1,110
G	Surfaces 200 - 300mm girth	37	M1	3,330
<b>Carried to Collection</b>				<b>92,930</b>

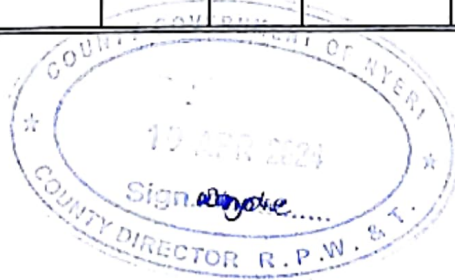


<u>Knot, prime, stop and apply three coats polyurethane clear lacquer to woodwork as described to:-</u>					
A	Surfaces not exceeding 100mm girth	37	M1	30	1,110
B	General surfaces of doors both sides measured	34	M2	300	10,200
<b>Carried to Collection</b>					<b>11,310</b>
<b><u>COLLECTION</u></b>					
	From page MH/12				131,700
	From page MH/13				92,930
	From page above				11,310
<b>Total for Doors Carried to Summary</b>					<b>235,940</b>





<b>ELEMENT NO. 8</b>					
<b>EXTERNAL WALL FINISHES</b>					
<u>Extra over walling for smooth chisel dressing keying and pointing</u>					
A	External wall surfaces	141	M2	430	60,630
B	15 mm thick cement sand (1:3) on beam	26	M2	430	11,180
<u>Prepare and apply three coats plastic emulsion paint to:</u>					
C	Externally rendered surfaces	26	M2	300	7,800
<u>Prepare and apply one undercoat and two coats approved external plastic emulsion paint to:</u>					
E	Externally rendered surfaces	0	M2	300	0
F	Ditto but not exceeding 100mm girth	0	M1	30	0
<b>Total for External Wall Finishes to Summary</b>					<b>79,610</b>



ELEMENT NO. 9

INTERNAL WALL FINISHES

15mm thick gauged lime plaster (1:2:9) as described to:-

A Sides of walls or concrete surfaces

365

M2

430

156,950

PAINTING AND DECORATING

Prepare and apply three coats plastic emulsion paint to:

B Plastered walls

365

M2

300

109,500

Total Internal Finishes to Summary

266,450

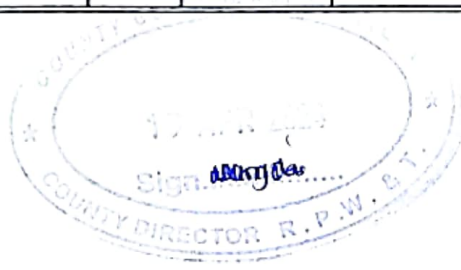


**ELEMENT NO. 10**

**FLOOR FINISHES**

Cement and sand (1:3) screed as described in:-

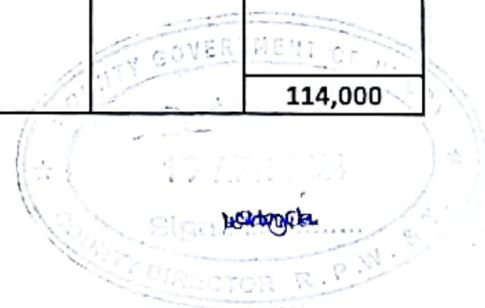
A	30mm Thick floor finish cement sand slurry	152	M2	450	68,400
<b>Total For Floor Finishes to Summary</b>					<b>68,400</b>



<b>ELEMENT NO. 11</b>					
<b>CEILING FINISHES</b>					
<u>Decorative Cornice</u>					
A	Supply and fix 100mm wide decorative cornice .	129	M1	300	38,700
B	Branding	441	M1	350	154,350
C	Ceiling cover	152	M2	2,100	319,200
<u>PAINTING AND DECORATING</u>					
Prepare and apply three coats silk vinyl emulsion paint to:					
C	<u>Surfaces of ceiling</u>	152	M2	300	45,600
<u>Knot, prime, stop and apply three coats gloss paint to woodwork as described</u>					
Internally on:-					
D	<u>Surfaces not exceeding 100mm girth</u>	129	M1	30	3,870
E	Surfaces not exceeding 100mm girth	441	M1	30	13,230
<b>Total for Ceiling Finishes to Summary</b>					<b>574,950</b>



<b>ELEMENT NO. 12</b>					
<b>ELECTRICAL WORKS</b>					
A	Lighting point wired in a 3x1.5mm pvc insulated single core copper cable drawn in a concealed 20mm PVC conduit excluding fitting	9	NO	2,500	22,500
B	Size 30W LED Floodlighting with Photocell	4	NO	5,500	22,000
C	Supply and install 1200mmx 36 watts flourescent fitting	4	NO	3,000	12,000
D	Supply and install Bulkhead fitting	5	NO	1,000	5,000
E	Power points wired in a 3x2.5mm PVC insulated single core copper cable drawn in a concealed 20mm PVC conduit	11	NO	2,600	28,600
F	Supply and install Single switch	9	NO	650	5,850
G	Supply and install double core socket outlet	11	NO	550	6,050
H	Supply and install consumer unit complete	1	NO	12,000	12,000
<b>Total for Electrical and Carried to Collection</b>					<b>114,000</b>



**BILL NO. 01****PROPOSED ADMINISTRATION BLOCK****SUMMARY**

1	SUBSTRUCTURES			1,361,050
2	R.C. SUPERSTRUCTURE			159,530
3	EXTERNAL WALLING			202,710
4	INTERNAL WALLING			142,530
5	ROOFING AND RAINWATER DISPOSAL			531,680
6	WINDOWS			219,700
7	DOORS			235,940
8	EXTERNAL WALL FINISHES			79,610
9	INTERNAL WALL FINISHES			266,450
10	FLOOR FINISHES			68,400
11	CEILING WORKS			574,950
12	ELECTRICAL WORKS			114,000
	PMC ALLOWANCES			100,000
	SUPERVISION ALLOWANCES			20,000
	<b>Total for PROPOSED ADMINISTRATION BLOCK</b>		<b>(KSHS)</b>	<b>4,076,550</b>

