

BILL OF QUANTITIES

**PROPOSED LABORATORY,
ADMINISTRATION OFFICES AND
CLASSROOMS FOR BUNYORE BOYS
SECONDARY SCHOOL**

BILL NO.1

Jan-23

WESTERN SCHOOL
SUPPLIES LIMITED
14 SEP 2023
P. O. Box 2758, 50100
KA MEGA-K

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI
Sign: *Jander*

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	TRANSPORT				
B	STORAGE OF MATERIALS				
C	MATERIAL TESTING				
D	GOVERNMENT ACTS REGARDING WORKPEOPLE				
E	INSURANCE				
F	OFFICE OF THE PM & CLERK				
G	WATER & ELECTRICITY				
H	SANITATION				
J	PROTECTION OF THE WORKS				
K	WORK TO BE DELIVERED UP CLEAN				
L	HOARDING				
M	GOVERNMENT APPROVALS				
TOTAL TO FINAL SUMMARY					

WESTERN SCHOOL
SUPPLIES LIMITED
14 SEP 2023
P. O. Box 2758-50100,
KAKAMEGA -Kenya

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BILL NO. 1					
ELEMENT NO. 1: SUBSTRUCTURE (ALL PROVISIONAL)					
EXCAVATION WORKS					
Site preparation					
A	Clear site of works of grass, shrubs, bush and trees, grub up roots, fill with selected soil and burn debris	SM	680	50.00	34,000.00
B	Excavate to remove top vegetable soil 150mm deep and deposit on the site as described.	SM	680	50.00	34,000.00
C	Excavate trenches for strip footing not exceeding 1.5m deep commencing at reduced level	CM	145	300.00	43,500.00
D	Excavate column pits n.e 1.5m deep commencing surface reduced level.	CM	148	300.00	44,400.00
Disposal					
E	Load and cart away surplus excavated materials from site.	CM	100	200.00	20,000.00
F	Return, fill and ram selected excavated material around foundation in layers of 150 mm thick maximum.	CM	193	250.00	48,250.00
Filling					
H	Approved hardcore filling; well watered, rolled and compacted in layers not exceeding 300mm thick	SM	480	350.00	168,000.00
J	50mm Thick marram blinding to hardcore surfaces.	SM	480	250.00	120,000.00
Anti-termite treatment					
<i>Apply "Bayer premise 200 sc" or equal and approved insecticide with a ten year guarantee as described.</i>					
K	To surfaces of blinded hardcore.	SM	480	50.00	24,000.00
Damp proof membrane					
L	Polythene; 1000 gauge; 300 mm laps; no allowance made for laps.	SM	480	100.00	48,000.00
WATER DISPOSAL					
M	Allow for keeping foundations free from water, mud, fallen materials by pumping, bailing or other approved means, etc.	ITEM	10,000		10,000.00
Planking and strutting					
N	Allow for planking and strutting.	ITEM	10,000		10,000.00
Total Carried Forward					604,150.00

WESTERN SCHOOL
SUPPLIES LIMITED
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14 SEP 2023
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14 SEP 2023

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Total Brought Forward				604,150.00
	INSITU REINFORCED CONCRETE				
	<u>50mm Thick mass concrete 1:4:8 class 15/20 in:</u>				
A	Ditto ; columns bases	SM	210	1000	2,100,000.00
	<u>Class 20 Vibrated Reinforced concrete as described in:-</u>				
C	Column bases & columns	CM	40	5000	200,000.00
D	150mm Thick surface slab.	SM	480	1000	480,000.00
	REINFORCEMENTS				
	<u>High yield square twisted rod reinforcement to BS 4461 in structural concrete work including cutting bending hoisting, fixing, tying wire and spacing blocks to:</u>				
	10mm	KG	1,100	140	154,000.00
E	16mm diameter	KG	1,320	180	237,600.00
F	Ditto 8mm	KG	210	130	27,300.00
G	ditto 12mm	KG	1,120	150	168,000.00
	<u>Fabric: BS 4483 Reference A142; mesh 200 x 200 mm weight 2.2 kg per sm (300 mm laps); including bends, tying wire and distance blocks.</u>				
F	In concrete surface slab.	SM	480	400	192,000.00
	Sawn timber formwork as described				
G	To edges of surface slab 75 - 150mm high.	LM	125	100	12,500.00
H	Sides of column bases	SM	230	100	23,000.00
	Walling				
	<u>Load bearing natural stone walling, jointed in cement and sand (1:3) mortar with and including No.20 gauge hoop iron ties 450mm long x 25mm wide bent and tacked into formwork with one end cast into concrete and straightened after removal of formwork and built into mortar joint of walling</u>				
M	200mm Thick walling:	SM	400	1000	400,000.00
	PLINTH FINISHES				
	<u>Waterproof render in:-</u>				
N	15 mm Thick wood float finished to plinths.	SM	75	300	22,500.00
	Paint & Decorations				
P	Prepare surfaces and apply three coats bituminous paint to rendered surfaces (m/s).	SM	75	300	22,500.00
	Carried Forward to Summary of Bill No.02				2753,850.00
	Bill No 01 Ground Floor Element No 01 Substructures				

WESTERN SCHOOL
SUPPLIES LIMITED

14 SEP 2023

P. O. Box 2758-50100,
KAKAMEGA -Kenya

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COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1480 - 50300 MARAGOLI

Sign: *Jander*

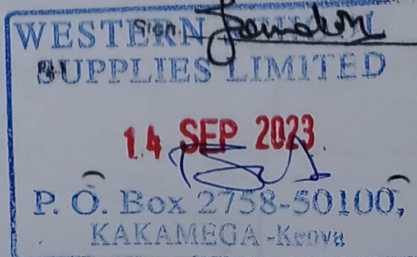
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO. 2: CONCRETE FRAME/WALLING					
WALLING					
External Walls					
	Chisel dressed natural stone walling jointed in cement/sand mortar mix 1:3 including 25 x 4mm thick hoop iron at every alternate courses				
A	200 mm Thick external walls	SM	480	1000	480,000.00
INTERNAL WALLS					
	Machine cut stone walling jointed in cement/sand mortar mix 1:3 including 25 x 4mm thick hoop iron at every alternate courses				
B	150mm Thick walls	SM	300	800	240,000.00
Horizontal damp proof course; one layer of 3- ply bituminous felt or other equal and approved (measured nett - allow for laps)					
	200mm wide levelled and bedded in cement and sand (1:3) mortar under walls				
C		LM	201	100	20,100.00
<i>In situ concrete class 25/20, vibrated and reinforced as described, in:-</i>					
D	Columns	CM	20	5000	100,000.00
E	Beams	CM	60	5000	300,000.00
F	Stairs AND ramp	CM	22	5000	110,000.00
G	150mm thick Suspended slab	SM	400	1000	400,000.00
REINFORCEMENTS					
	<i>High yield square twisted rod reinforcement to BS 4461 in structural concrete work including cutting bending hoisting, fixing, tying wire and spacing blocks to:</i>				
J	10mm diameter	KG	4,000	140	560,000.00
K	Ditto 16mm diameter	KGS	3,850	180	693,000.00
L	Ditto 12mm	KGS	800	150	120,000.00
M	Ditto 8mm	KGS	2,200	130	286,000.00
Sawn formwork: to					
N	Vertical Sides of Columns	SM	200	100	20,000.00
O	Soffits and sides of beams	SM	870	100	87,000.00
C	Formwork to the soffits of the suspended slab.	SM	396	150	59,400.00
	Total Carried Forward				

3,475,500

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI



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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO 4-ROOFING					
A	28 gauge Prepainted G.C.I sheets nailed	SM	600	830	498,000.00
B	28 gauge ridge cap	LM	110	600	66,000.00
<u>The following in swan celcured cypress</u>					
C	150 x 50 mm rafters	LM	550	150	82,500.00
D	150 x 50 mm Tie Beam	LM	420	150	63,000.00
E	100 x 50 mm struts / ties	LM	400	140	56,000.00
F	100 x 50 mm Kingpost	LM	200	140	28,000.00
G	150 x 50 mm wallplate	LM	150	150	22,500.00
H	75 x 50 mm purlins	LM	500	100	50,000.00
J	225 x 25 mm fascia board	LM	122	200	24,400.00
K	Prepare and apply two under coats and one finishing coat of exterior quality super gloss oil paint to wood surfaces 200-300mm girth	LM	122	100	12,200.00
<u>RAIN WATER DISPOSAL</u>					
L	140mm Diameter half round plastic gutter	LM	120	300	36,000.00
M	75mm plastic downpipe	LM	50	600	30,000.00
N	Extra over down pipe for swan neck	NO	12	300	3,600.00
O	Extra over down pipe for shoe	NO	12	300	3,600.00
					975,800.00
TOTAL FOR ROOFING CARRIED TO SUMMARY					

WESTERN SCHOOL SUPPLIES LIMITED
 14 SEP 2023
 P. O. Box 2758-50100,
 KAKAMEGA -Kenya

COUNTY WORKS OFFICER (MOPWA),
 VIHIGA DISTRICT
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 Sign: *Jandoo*

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO. 4: WINDOWS.					
<i>Supply, assemble and fix primed purpose made heavy duty mild steel window comprising standard steel window frame built in wall, 25 x 25 mm Z section frame welded to standard frame in small panes complete with and including permanent ventilators comprising 'T-bars, gauze and metal hood, coupling mullions; oiling and adjusting on completion and fixing of ironmongery such as hinges, locking devices such as windows fasteners, stays locks, bolts etc; all to Architect's approval and in accordance with drawings.</i>					
A	Window size 1500 x 1500mm high overall	NO	40	5500	220,000
B	Window size 600 x 600mm high overall	NO			
C	Window size 1000 x 900mm high overall (W01)	NO	-		
D	Window size 2350 x 700mm high overall (W01)	NO	-		
E	Window size 2950 x 700mm high overall (W01)	NO			
Glazing					
<i>6mm Thick Clear glass and glazing fixed with and including putty to steel windows (m.s)</i>					
F	Panes 0.1 - 0.5 square metres	SM	120	200	24000.00
PAINTING AND DECORATING					
<i>Apply one coat and two finishing coats of gloss oil paint as "Crown Paints" or other approved to metal work in:</i>					
G	General surfaces of windows both sides.	SM	120		
Curtain Rods					
J	25mm Diameter approved wrought iron front and rear rod curtain rail cut to lengths complete with fixings, runners and end stops and screwed or plugged to wall in accordance with the manufacturer's specifications.	LM	110	700	77000.00
Carried Forward to Summary of Bill No.02					321,000.00
Bill No. 01 Ground Floor Element No 03 Windows					

**WESTERN SCHOOL
SUPPLIES LIMITED**
14 SEP 2023
 P. O. Box 2758-50100,
 KAKAMEGA -Kenya

COUNTY WORKS OFFICER (MOP),
 VIHIGA DISTRICT
 P. O. Box 1460 - 50300 MARAGOLI
 Sign: *Jainey*

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELEMENT NO. 5: DOORS Note: All doors to architect's approval and drawing details				
	STEEL DOORS <i>Supply, assemble and fix primed purpose French steel doors comprising heavy duty mild steel frame built into wall oiling and adjusting on completion and fixing of ironmongery such as hinges, locking devices etc; all to Architect's approval and in accordance with drawings</i>				
A	Door overall size 1200 x 2400mm high.	NO	8	1400	112000.00
B	Door overall size 900 x 2400mm high.	NO			
	TIMBER DOORS Door frames <i>Supply, assemble and fix the following purpose mild steel door frame and including one coat of approved red oxide primer by the manufacturer before delivery on site building and bedding frames in concrete columns. The door frames shall conform in every respect with drawings bracketed after item descriptions all to the approval of the Architect.</i>				
C	100x50mm door frame including architrave and quadrant	LM	300	1400	420000.00
	Flush doors <i>45 mm Thick semi solid flush door faced both sides with high interior quality plywood with 50 x 12 mm thick hard wood lipping all round;</i>				
D	Door overall size 900 x 2400 mm high.	NO	8	4500	36000.00
E	Door overall size 800 x 2100mm high	No.			
	Paint & Decorations <i>Apply one coat and two finishing coats of polyurethane clear varnish as to wood work in:</i>				
F	General surfaces.	SM	300	300	90000.00
	<i>Apply one coat and two finishing coats of gloss oil paint as "Crown Paints" or other approved to metal work in:</i>				
G	Framing, generally	LM	300	300	90000.00
H	General surfaces of doors both sides.	SM	150	300	45000.00
	IRON MONGERY <i>Supply and fix the following UNION ironmongery or other equal and approved ironmongery complete with all matching screws and keys (Reference to this particular catalogue is given as a guide to type and quality only and equal and approved alternatives may be used)</i>				
J	100mm brass butt hinges	Prs	8	200	1600.00
K	Two lever mortice lock with pair of lever handles	No	8	200	1600.00
	Ditto but steel locks	No.	-		
M	Rubber Door Stop	No	8	300	2400.00
					798600.00
	Carried Forward to Summary of Bill No.02				
	Bill No. 01 Ground Floor Element No. 5 Doors				

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SUPPLIES LIMITED
14 SEP 2023
P. O. Box 2758-50100,
KAKAMEGA - Kenya

COUNTY WORKS OFFICER (MOPW),
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO. 6: WALL FINISHES					
<u>EXTERNAL FINISHES</u>					
A	External horizontal and vertical keying	SM	350	300	105,000.00
<u>Internal finishes</u>					
<u>Wall Finishes</u>					
<i>Prepare and apply two coats of joint paste plaster to wall surfaces to Architect's Approval as described in:-</i>					
E	General wall surfaces.	SM	530	400	212,000.00
<u>Painting and Decoration</u>					
<i>Apply one coat and two finishing coats of silk vinyl emulsion paint as "Crown Paints" or other equal and approved to:</i>					
F	Plastered wall surfaces.	SM	530	400	212,000.00
<i>15mm thick cement and sand (1:4) backing as described to:-</i>					
G	Sides of walls to receive mazeras wall finish (m.s)	SM			
<i>Supply & fix approved ceramic wall tiles fixed on backing (measured separately) with an approved adhesive jointed and flush pointed with grouting to match tile all to Architect's approval.</i>					
H	General wall surfaces in wet areas	SM	30	1000	30,000.00
					559,000.00
Carried Forward to Summary of Bill No.02					
Bill No. 01 Ground Floor Element No. 06 Wall Finishes					

WESTERN SCHOOL
SUPPLIES LIMITED
14 SEP 2023
P. O. Box 2758-50100,
KAKAMEGA - Kenya

COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO 7: FLOOR FINISHES.					
<u>Floor Finishes</u>					
<u>Screed, Backing & Skirting.</u>					
<u>In situ cement sand (1:3) screeded beds with wood floated finish, on concrete to:-</u>					
A	25mm Thick floor backing	SM	960	300	288,000.00
B	Ditto to 100mm high skirting	LM	200	300	60,000.00
<u>Terrazo</u>					
C	38mm thick polished terrazo finish with dividing strip moulded in cement and sand mortar(1:3)Including plastic dividing strip	SM	960	1600	1,536,000.00
D	100mm high skirting	LM	200	1200	240,000.00
Carried Forward to Summary of Bill No.02					2,124,000.00
Bill No. 01 Ground Floor Element No. 07 Floor Finishes					

**WESTERN SCHOOL
SUPPLIES LIMITED**
 14 SEP 2023 Pg.9
 P. O. Box 2758-50100,
 KAKAMEGA -Kenya

COUNTY WORKS OFFICER (MOPW),
 VIHIGA DISTRICT
 P. O. Box 1460 - 50300 MARAGOLI
 Sign: *[Signature]*

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ELEMENT NO.8 : CEILING FINISHES.					
<u>Ceiling Finishes</u>					
<u>Prepare and apply two coats of joint paste plaster to Architect's Approval as described in:-</u>					
A	Soffits of the suspended slab.	SM	480	300	144,000.00
<u>PAINTING AND DECORATING</u>					
<u>Prepare and apply two coats of premium quality emulsion paint to:-</u>					
B	Plastered concrete soffits	SM	480	300	144,000.00
C	13mm thick chip board ceiling laid on 50x50mm timber branderling	SM	480	900	432,000.00
D	Wrot cypress 50x50mm timber branderling at 600 centres	LM	1,500	100	150,000.00
Carried Forward to Summary of Bill No.02					870,000.00
Bill No. 01 Ground Floor Element No 8 Ceiling Finishes.					

**WESTERN SCHOOL
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14 SEP 2023

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 KAKAMEGA -Kenya

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 VIHIGA DISTRICT
 P. O. Box 1460 - 50300 MARAGOLI
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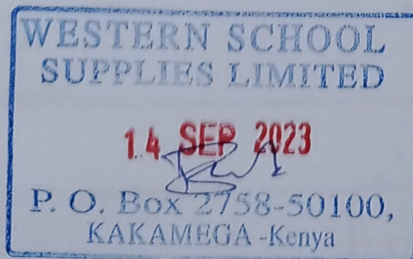
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SUMMARY</u>				2,753,500.00
	Sub structures: Total Brought Forward				
	Concrete Frame & Walling: Total Brought Forward				3,475,500.00
	Roofing: Total Brought Forward				975,800.00
	Windows: Total Brought Forward				321,000.00
	Doors : Total brought forward				798,600.00
	Wall Finishes: Total brought forward				559,000.00
	Floor Finishes: Total brought forward				2,124,000.00
	Ceiling Finishes: Total brought forward				870,000.00
	Carried Forward to Final Summary				11,877,450.00
	Bill No.1 Ground Floor.				

WESTERN SCHOOL
SUPPLIES LIMITED
14 SEP 2023 Pg.11
P. O. Box 2758-50100,
KAKAMEGA -Kenya

COUNTY WORKS OFFICER (MOPW),
VIHIGA DISTRICT
P. O. Box 1480 - 50300 MARAGOLI
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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO. 01 PROVISIONAL & PRIME COST SUMS				
	<u>ELECTRICAL WORKS</u>				
A	Allow a provisional sum of KSH Three Hundred thousand only (Kshs.300,000) for Electrical Installations	Sum			300,000.00
	<u>MECHANICAL WORKS</u>				
B	Allow a provisional sum of Kenya shillings Three Hundred Thousand Only (Kshs. 300,000) Only for Mechanical Installations	Sum			300,000.00
	PROJECT MANAGEMENT				
D	Allow a Provisional sum of Kenya Shillings Two Hundred Thousand (300,000) Only for Engineers Miscellaneous	Sum			300,000.00
	CONTINGENCY				
E	Allow a Provisional sum of Kenya Shillings Five Hundred Thousand (500,000) Only for Contingency.	Sum			500,000.00
	<u>SEPTIC TANK</u>				
F	Allow a provisional sum of Five Hundred Thousand 500,000 for septic tank and soak pit				500,000.00
	PLUMBING WORKS AND DRAINAGE WORKS				
G	Allow a provisional sum of Ksh. Two Hundred thousand 200,000.00for plumbing and drainage works				200,000.00
	WATER TANKS				
J	Allow a provisional sum of Ksh. One Hundred and Fifty thousand (150,000) for water tank				150,000.00
K	<u>General Contract office and administrative cost</u>				1,150,000.00
	Carried Forward to Final Summary				3,400,000.00
	Bill No.1 P.C & PROVISIONAL SUM				



COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOLI
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PROPOSED LABORATORY, ADMINISTRATION OFFICES AND CLASSROOMS FOR BUNYORE BOYS
SECONDARY SCHOOL

ITEM	DESCRIPTION	PAGE	AMOUNT (SHS)
	<u>GRAND SUMMARY</u>		
1	PRELIMINARIES		400,000.00
2	BUILDERS WORK		11,877,450.00
3	P.C AND PROVISIONAL SUMS		3,400,000.00
	SUB TOTAL		15,677,450.00
	ADD 16% VAT		2,508,392.00
TOTAL ESTIMATED COST OF THE PROJECT			18,185,842.00

TENDERER

Signature

Name & Title

Date

Official Stamp

EMPLOYER

Signature

Name & Title

Date

Official Stamp



COUNTY WORKS OFFICER (MOPW)
VIHIGA DISTRICT
P. O. Box 1460 - 50300 MARAGOL
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