

REPUBLIC OF KENYA



MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS,
HOUSING & URBAN DEVELOPMENT

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED CONSTRUCTION OF 8 NO. CLASSROOMS

AT

LUSUI PRIMARY SCHOOL

TENDER No. Proposed construction of 8 No. classrooms at Lusui primary sch.

BILL OF QUANTITIES

QAANA CONTRACTORS LTD
P. O. Box 484 - 70200,
WAJIR

CLIENT: PMC LUSUI PRIMARY SCHOOL

PREPARED:

COUNTY WORKS OFFICER
P. O. Box 14 - 50100
KAKAMEGA

FUNDED BY:

NG- CDF, IKOLOMANI CONSTITUENCY
P. O. Box 2773-50100,
KAKAMEGA.

WMA
COUNTY WORKS OFFICER
State Department for Public Works
P. O. Box 14 50100
KAKAMEGA
cwo.kakamega@gmail.com

MARCH, 2021

000001

BILL NO : 2

BILL OF QUANTITIES

QANA CONTRACTORS LTD
P.O. Box 484 - 70200,
NAIROBI

000089

PROPOSED CONSTRUCTION OF END CLASSROOMS AT USU PRIMARY SCHOOL

DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>ITEM NO. 06</u>				
<u>ROOF CONSTRUCTION</u>				
<u>Roof truss:</u>				
<u>The trusswork is hardwood timber roof trusses of various sizes assembled and fixed according to the engineer's detailed specification</u>				
<u>As per calculated first grade trusses in 2-150x25mm rafters</u>	530	LM	350	185,500
<u>As per beam</u>	240	LM	350	84,000
<u>As per struts & ties</u>	288	LM	350	100,800
<u>75x50 purlins</u>	514	LM	150	77,100
<u>As per calculated second grade trusses in 2-100x50mm. Wall plate bolt to beams</u>	62	LM	320	19,840
<u>12mm diameter eye bolt 150mm long built into prepared mixture in concrete (m.s)</u>	62	NO	100	6,200
<u>50x50x6mm Angle cleat</u>	62	NO	100	6,200
<u>Samirags</u>	62	NO	100	6,200
<u>Drill hole in 150mm thick softwood for 12 diameter bolt</u>				
<u>Car mortise 25mm deep in reinforced concrete beam for and including embedding 12mm diameter bolt with concrete (1.24) and make good.</u>	62	NO	150	9,300
<u>Roof Covering</u>				
<u>20 gauge prepainted galvanized IIS box profile corrugated sheets laid and secured on 75x50 timber purlins using J bolts and washers.</u>	528	SM	1150	607,200
<u>Timbers work in connection with internal foul drainage.</u>				
<u>Ridge cap</u>	50	LM	360	18,000
<u>Valley Ridge cap</u>	24	LM	350	8,400
<u>Total carried to collection</u>				1,068,200

SP/20



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Rainwater Goods					
A	<u>Fabricate and assemble in gauge 18 prepainted steel sheet</u> 250 x 225mm box gutter	90	LM	800	72,000
B	75mm diameter down pipe clipped onto concrete wall with and including holder bats at 900mm centres	48	LM	750	36,000
C	Extra over box gutter for making hole size 75mm	8	NO	300	2,400
D	Extra over box gutter for stripped end	8	NO	300	2,400
E	Extra over down pipe for shoe	8	NO	300	2,400
<u>Prepare and apply one approved,primer,one undercoat and two coats of 'CROWN SOLO' or other equal and</u>					
F	General surfaces of gutters,over 300mm girth external	90	LM	120	10,800
G	Small pipes,externally	48	LM	120	5,760
<u>Tongue and grooved timber to eaves</u>					
H	25x100mm tongue & grooved boarding secret nailed to sawn cypress cypress bearers or brandering at 600mm centres	68	SM	700	47,600
<u>Prepare and apply one approved,primer,one undercoat and two coats of 'CROWN SOLO' or other equal and</u>					
<u>approved polyurethane varnish to:-</u>					
I	Surfaces of eaves,over 300mm girth external	68	SM	300	20,400
Total Carried to Collection					199,760
COLLECTION					
Brought forward from page SP/20					1,068,220
Brought down from above					199,760
Total for Element No.06 Roof construction Carried to Summary					1,267,980

SP/21



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO.06 STAIRS					
<u>Vibrated reinforced concrete class (1:1:4) 20mm aggregate as described in:-</u>					
A	Stairs	1	CM	12,500	12,500
B	200mm thick stair landing	4	SM	900	3,600
C	Stair beam	2	CM	12,500	25,000
<u>Sawn formwork as described to:-</u>					
D	Stoping soffits of stairs	7	SM	300	2,100
E	Horizontal soffit of stair landing	6	SM	300	1,800
F	Sides of stair beam	4	SM	300	1,200
G	Edge of sloping stair girth 300mm	12	LM	90	1,080
H	Edge of stair landing girth 75mm -150mm	6	LM	90	540
I	Edge of riser 75mm -150mm	24	LM	90	2,160
Reinforcement (All Provisional)					
<u>The following in high tensile reinforcement square twisted bar to B.S 4461 as described including cutting to lengths, bending, twisting and fixing, including all necessary tying and spacer blocks.</u>					
J	12 diameter bar	175	KG	150	26,250
K	10mm diameter bar	221	KG	150	33,150
Stair finishes					
<u>20mm thick cement sand (1:3) screed to:-</u>					
L	Stair	6	SM	120	720
M	Landing	4	SM	120	480
N	Sides of stair width 300mm	15	LM	90	1,350
Total Carried to Collection					111,930



SP /22

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>8.0mm thick granite to:-</u> Stair tread 300mm wide	60	LM	150	9,000
B	Stair riser 150mm high	64	LM	150	9,600
C	Landing	4	SM	1,200	4,800
D	Sides of stair overall width 300mm	15	LM	150	2,250
E	<u>Cement lime (1:1:6) sand plaster as described to:-</u> 12mm thick in two coats to sloping soffites of stairs	6	SM	200	1,200
F	12mm thick in two coats of horizontal soffites of landing	4	SM	200	800
G	Prepare and apply one undercoat and two finishing coats of vinyl matt emulsion paint on plastered surface	22	SM	300	6,600
H	<u>Ballustrating</u> 75mm x 25mm x 3mm rectangular hollow section (RHS) steel bottom rails welded and fixed in position	24	LM	350	8,400
I	75mm x 25mm x 3mm ditto middle rail ditto	24	LM	350	8,400
J	25mm x 25mm x 3mm rectangular hollow section (RHS) baluster 1200mm long twice counter sunk, one end fanged and built into concrete bed (m.s)	72	NO	150	10,800
K	<u>Sundries</u> Weld baluster to metal rail	72	NO	200	14,400
L	Extra over baluster for fanged end	48	NO	210	10,080
M	Make hole in reinforced concrete for fanged end and make good in cement sand mortar	48	NO	210	10,080
Total Carried to Collection					96,410

SP/23



FORM OF TENDER

TO: THE NGCDF IKOLOMANI [Name of Employer] 18 03 2021 [Date]
CONSTITUENCY [Name of Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. 16,543,435.00 [Amount in figures/Kenya Shillings SIXTEEN MILLION, FIVE HUNDRED AND FORTY THREE THOUSAND FOUR HUNDRED AND THIRTY FIVE [Amount in words]]
2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.
3. We agree to abide by this tender until 22-06-2021 [Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this 18TH day of 03 20 21

Signature [Signature] in the capacity of DIRECTOR

duly authorized to sign tenders for and on behalf of
QANNA CONTRACTORS LIMITED [Name of Employer]
of P.O. BOX 484-70200 NAIROBI [Address of Employer]

Witness; Name JUSTUS MITHESO AGOTI

Address [Signature] 144-KHAYEGA

Signature Mitheso

Date 18/03/21



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
GROUND FLOOR					
ELEMENT NO. 01					
Substructure					
Site clearance (All Provisional)					
A	Clear site of all bushes, shrubs and small trees of girth not exceeding 600mm diameter measured 1 metre from ground level and dispose all the arising materials.	594	SM	60	35,640
B	Soil wheel and deposit on site and later spread as directed by the project manager	90	CM	100	9,000
C	Excavate from stripped level to reduce level depth not exceeding 1500mm	178	CM	130	23,140
Excavation to column bases					
D	Excavate for square columns bases depth not exceeding 1.5 metres and dispose off the excavated material as directed	414	CM	250	103,500
Excavation to foundation trenches					
E	Extra over excavation for excavation in rock irrespective of class and dispose the arising materials away from site at distance not less than 100 metres	118	CM	550	64,900
F	Excavate for foundation strip from stripped, of depth not exceeding 1.5m and dispose off as directed by the P.M	172	CM	210	36,120
Form work to column bases					
G	Soft sawn celcured timber form work to column bases, girth exceeding 200mm but not exceeding 300mm	137	SM	300	41,100
Total carried to collection					313,400



SP/1

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Form work to foundation strip</u> Softwood sawn ceclured timber formwork of girt exceeding 150mm but not exceeding 255mm	76	SM	300	22,800
B	<u>Reinforcement to column bases (Provisional)</u> 12mm high tensile steel bars including tying wires, spacer blocks and hooks to BS 4461	1095	KG	150	164,250
C	<u>Reinforcement to foundation strip (Provisional)</u> 10mm diameter, ditto Links	650	KG	150	97,500
D	8mm diameter, ditto <u>Concrete works</u>	225	KG	150	33,750
E	<u>mass concrete class 10 - 15mm (1:3:6) aggregate in :-</u> 50mm thick blinding under strip foundation	115	SM	300	34,500
F	Ditto in column bases <u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u>	82	SM	300	24,600
G	Column bases	42	CM	12,500	525,000
H	Foundation strip <u>Formwork to stub column</u>	23	CM	12,500	287,500
I	Softwood sawn ceclured timber formwork to column <u>Reinforcement to stub column (All provisional)</u>	95	SM	300	28,500
J	16mm diameter high tensile square steel bars to BS 4461 including tying wires, hooks and spacer blocks all in position.	717	KG	150	107,550
K	Ditto but 12mm bars (circular columns)	144	KG	150	21,600
L	Ditto but 8mm bars <u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u>	233	KG	150	34,950
M	Stub Column	6	CM	12,500	75,000
N	<u>Expansion joint</u> 25mm Thick flexell in expansion joint	8	SM	800	6,400
O	25x12 Mastic sealant	64	LM	650	41,600
Total carried to collection					1,505,500

SP / 2



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Foundation walling</u> 200mm thick hand dressed approved natural stone walling reinforced with 20mm thick hoop iron at every second course and laid with (1:3) cement sand mortar	229	SM	800	183,200
B	<u>Hardcore filling</u> 300mm thick approved hardcore filling consolidated in 150mm layers and well compacted.	352	SM	300	105,600
C	<u>Murram Blinding</u> 75mm thick approved hardcore filling consolidated two layers and well compacted.	352	SM	200	70,400
D	Prepare and apply "Gladiator TC"(organophosphates chlorpyritos) coverage 8SM per litre as "HIGH CHEM LTD" or other equal and approved.	352	SM	100	35,200
E	1000 Gauge Damp Proof membrane with lap allowance of 200mm	352	SM	100	35,200
F	Mesh fabric reinforcement with 150mm laps allowance allowance for laps) reference A 142 to BS 1483.	352	SM	400	140,800
G	<u>Formwork to edges of slab</u> Soft sawn timber formwork to edges of ground floor slab, girth exceeding 75mm but not exceeding 150mm	103	LM	200	20,600
Total carried to collection					591,000

SP /3



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete</u> <u>to:-</u>				
A	150mm thick Class 20/20mm reinforced vibrated concrete to ground floor slab	352	SM	1,200	422,400
	<u>Plinth treatment</u>				
B	12mm thick render (400 mm girth) of cement to sand (1:4) to receive bituminous paint (M.s)	62	SM	200	12,400
C	Prepare and apply one undercoat and two finishing coats of black bituminous paint	62	SM	300	18,600
	<u>Plunking and strutting</u>				
D	Allow for plunking and strutting to sides of excavations		ITEM		25,200
	<u>Removal of water</u>				
E	Allow for keeping of the excavation free from mud and all water including spring and running water by pumping, pailing or any other approved means		ITEM		30,500
	<u>Disposal</u>				
F	Load surplus excavated material and cart away from site distance not less than 500 metres	195	CM	300	58,500
	<u>Fillings</u>				
G	Return fill in and ram selected excavated materials around foundation	390	CM	250	97,500
	<u>Paving slabs</u>				
H	600x600x50mm thick precast concrete slabs on including 50mm sand bed and 100mm thick compacted hardcore sub-base to fall, jointing and pointing in cement sand mortar (1:3) and compaction.	124	SM	800	99,200
Total carried to collection					764,310

SP/4



PROPOSED CONSTRUCTION OF 2002 CLASSROOMS AT LUSI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>COLLECTION</u>					
	Brought forward from page SP/1				313,400
	Brought forward from page SP/2				1,505,500
	Brought forward from page SP/3				591,000
	Brought forward from page SP/4				764,300
Total for Element No. 01 Substructure Carried to Summary page					3,174,200

SP / 5



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO. 02					
SUPERSTRUCTURE FRAME					
COLUMNS					
<i>Reinforced (Provisional)</i>					
A	16mm high tensile reinforcing steel bars including spacers, hoks and tying wire all to position to BS 4461	1195	KG	150	179,250
B	12mm diameter ditto (circular).	240	KG	150	36,000
C	8mm diameter ditto	413	KG	150	61,950
Formwork to:-					
D	Softwood sawn timber formwork to columns	186	SM	150	27,900
E	Vibrated reinforced concrete (1:2:4) / 20-20mm aggregate in columns	12	CM	12,500	150,000
Main and intermediate beams					
Reinforcement (All Provisional)					
F	20mm high tensile reinforcing steel bars including spacers, hooks and tying wires to position	855	KG	150	128,250
G	16mm diameter bar	1984	KG	150	297,600
H	12mm diameter bar	508	KG	150	76,200
I	8mm diameter bar	930	KG	150	139,500
Main intermediate Beams					
Concrete works					
J	Class 20/20mm aggregate, mix (1:2:4) Vibrated and reinforced concrete beams	38	CM	12,500	475,000
Formwork to:-					
K	Softwood cypress sawn celcured timber formwork to sides and soffit of ring beam	440	SM	300	132,000
Walling					
200mm Thick Walling					
L	200mm thick medium dressed one side natural stone walling reinforced with 20mm hoop iron at every second course laid with (1:4) cement sand mortar	258	SM	1,100	283,800
Water proofing					
M	200mm wide bituminous felt damp proof course bedded in (1:3) cement sand mortar	127	LM	100	12,700
TOTAL CARRIED TO COLLECTION PAGE					2,000,150

SP / 6



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Suspended Floor Slab</u>				
	<u>Reinforcement (Provisional)</u>				
A	12mm high tensile square reinforcement steel bars, including tying wires and spacer blocks all to position	2,880	KG	150	432,000
B	Ditto to D10mm	2,000	KG	150	300,000
	<u>Formwork to edges of slab</u>				
C	Softwood sawn formwork to edges of floor slab exceeding 75mm but exceeding 150mm	103	LM	220	22,660
D	Sawn softwood formwork to soffits of suspended floor slab	352	SM	300	105,600
E	100mm diameter timber poles 3000mm long for props at 800mm c/c	590	NO	350	206,500
	<u>Concrete Works</u>				
	<u>Vibrated reinforced concrete class 20-20mm aggregate (1:2:4) in:-</u>				
EF	150mm thick suspended slab	352	SM	1,200	422,400
TOTAL COLLECTION					1,489,160
<u>COLLECTION</u>					
Brought forward from page SP/6					2,000,150
Brought forward from above					1,489,160
Total for Element No. 02 Superstructure Frame Carried to Summary					3,489,310



SP / 7

PROPOSED CONSTRUCTION OF TWO CLASSROOMS AT LESUO PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO. 03					
DOORS					
Galvanized steel casement standard door complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet hood assembled and fixed to opening including cutting and priming lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:3) comprising 4x25x3mm stiles, bottom and top rail and 4% intermediate rails, all primed with red oxide oil.					
A	2100mm x 1400 high door complete with 50 x 2400 fixed angle frame with "LONDON" 1-lever steel door lock, 3 x 200mm lockable tower bolts.	4	NO	13,000	52,000
Painting and Decoration					
B	Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of Doors	24	SM	300	7,200
Total for Element No.03 Doors Carried to Summary					59,200



SP/8

PROPOSED CONSTRUCTION OF ENCLASSROOMS AT LUSUY PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	RATE	AMOUNT
ELEMENT NO. 04				
Windows				
<u>Galvanized steel casement windows (supply and fix the following windows casement frames complete with hinges, stays, fasteners, permanent vent with mosquito gauze and sheet good assembled and fixed to opening including cutting and pinning bars to concrete or blockwork surround and bedding frame in cement and sand mortar (1:3) glazing and grill m.s) to:-</u>				
A	1500 x 1200mm frame all welded joints ground smooth and finished with red oxide coat with two side hunglights: one fixed bottom light and two fixed light	12	NO 9700	116,400
B	Window size 1500x1000mm precast vent blocks fixed to approval <u>Burglar proofing</u>	8	SM 8700	69,600
<u>Supply and fix openings galvanized mild steel grill framed 40 x 25 x 3 mm thick R.H.S including pinning bars to concrete or blockwork and bedding frame in cement sand (1:4) mortar to:-</u>				
C	1500 x 1200mm with 40x25x3mm burglar proofing in varied approved patterns, curves	20	NO 800	16,000
Glazing				
D	6mm thick clear glass fixed to metal frame (M.S) with putty in panes exceeding 0.50m ² but not exceeding 1.0m ² .	23	SM 1000	23,000
VENT BLOCKS				
E	Supply and fix 450x250 precast concrete vent blocks jointed in cement sand mortar (1:3)	15	SM 950	14,250
Total carried to collection				236,850



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Window Cill</u> 75mm thick x 250mm wide precast concrete (1:2:4) weathered,throated and grooved and bedded on 200mm thick walls including heavy duty weld mesh and building in concrete blockwork	32	LM	500	16,000
B	<u>Painting and Decoration</u> Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of windows	46	SM	300	13,800
Carried to Collection					29,800
<u>Collection</u>					
Brought forward from page SP/09					236,850
Brought down from above					29,800
Total for Element No. 04 Windows Carried to Summary					266,650



SP/10

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Element No. 05					
Floor finishes					
A	24mm thick cement sand screed (1:3) mortar trowling trowelled rough and hard to receive terrazzo	11	sqm	200	2200
B	15mm thick terrazzo chipings (1:3) mortar trowelled smooth graded and polished to approval.	11	sqm	450	4950
C	Plastic dividing strips	60	lms	50	3000
D	100 x 25mm thick terrazzo skirting	17	lms	300	5100
Plaster					
E	12mm thick cement lime sand (1:1:5) plaster trowelled smooth to receive paint (m.s), internal walls	480	sqm	25	12000
F	Ditto but render to key in external walls	154	sqm	25	3850
G	Ditto to columns and beams	81	sqm	20	1620
Painting and decoration					
H	Prepare and apply one undercoat and two finishing coats of first grade silk matt plastic emulsion paint to internal walls	480	sqm	30	14400
I	Prepare and apply one undercoat and two finishing coats of first grade silk matt plastic emulsion paint to internal walls	154	sqm	30	4620
Soffits of suspended floor slab					
J	12mm thick plaster trowelled smooth to receive paint (m.s)	116	sqm	20	2320
K	Prepare and apply one undercoat and two finishing coats of first grade silk matt plastic emulsion paint	116	sqm	30	3480
Total for Element No. 06 Finishes Carried to Summary					119040

PROPOSED CONSTRUCTION OF 8NO. CLASSROOMS AT LUSU1 PRIMARY SCHOOL.

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Summary page for Ground Floor</u>				
	Substructure brought forward from page SP 05				3,174,210
	Superstructure Frame brought forward from page SP 07				3,489,310
	Doors brought forward from page SP 08				59,200
	Windows brought forward from page SP 10				266,650
	Finishes brought forward from page SP 11				1,190,480
	Total for Ground Floor Works Carried to Main Summary				8,179,850

SP/12



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
FIRST FLOOR					
ELEMENT- 01					
SUPERSTRUCTURE FRAME					
COLUMNS					
Reinforcements (Provisional)					
A	16mm high tensile reinforcing steel bars including spacers, hoks tying wires all to positions to BS 4461 columns	1195	KG	150	179,250
B	12mm diameter ditto,	240	KG	150	36,000
C	8mm diameter ditto, stirrups	414	KG	150	62,100
Formwork to:-					
D	Softwood sawn timber formwork to square/ rectangular/round columns	186	SM	300	55,800
Concrete works					
E	Vertical reinforced concrete (1:2:4) class 20/20mm aggregate reinforced to columns	12	CM	12,500	150,000
Beams					
Reinforcement (All Provisional)					
F	20mm high tensile reinforcing steel bars including spacers, hooks and tying wires to position .	815	KG	150	122,250
G	16mm diameter bar	1984	KG	150	297,600
G	12mm diameter bar	508	KG	150	76,200
H	8mm diameter bar	761	KG	150	114,150
Main and intermediate beams					
Concrete works					
I	Class 20/20mm aggregate, mix (1:2:4) Vibrated and reinforced concrete beams	38	CM	12,500	475,000
Formwork					
J	Softwood cypress sawn celcured timber formwork to sides and soffits of ring beam	440	SM	300	132,000
200mm Thick Walling					
K	200mm thick medium dressed natural stone concrete walling reinforced with 20mm hoop iron at every two second course laid with (1:4) cement sand mortar (External wall)	283	SM	1200	339,600
Water proofing					
L	200mm wide bituminous felt damp proof course bedded in (1:3) cement sand mortar	128	LM	90	11,520
Total for Element No.01 Superstructure /Frame					2,057,470

SP/13



PROPOSED CONSTRUCTION OF 2NO. CLASSROOMS AT LANSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO. 02					
DOORS					
A	Galvanized steel casement Doors standard door complete with hinges, latch, fasteners, permanent vent with mosquito gauze and insect hood assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:3) comprising 40x25x3mm stiles, bottom and top rail and 4No. Intermediate rails, all primed with red oxide mc-angle frame with "UNION" 1-lever steel door lock, 3 x 200mm lockable tower bolts.	4	NO	13,000	52,000
B	Painting and Decoration Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of doors	24	SM	300	7,200
Total for Element No.02 Doors					59,200
Carried to Summary					



SP/14

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO. 03					
Windows					
Galvanized purpose made steel casement windows (supply and fix the following windows using heavy duty steel complete with hinges ,stars, fasteners, permanent opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and					
A	1500 x 1200mm frame all welded joints ground smooth and finished with red oxide coat with two side hanglights: one fixed bottom light and two fixed light	12	NO	9700	116,400
B	Window size 1500 x 1000mm precast vent blocks fixed to approval Burglar proofing	8	SM	8400	67,200
Supply and fix openings galvanized mild steel grill framed 40 x 25 x 3 mm thick R.H.S including pinning lugs to concrete or blockwork and bedding frame in cement sand (1:4) mortar to:-					
C	1500 x 1200mm with 45x25x3mm burglar proofing in varied approved patterns, curves	20	NO	800	16,000
Glazing					
D	6mm thick clear glass fixed to metal frame (M.S) with putty in panes exceeding 0.50m2 but not exceeding 1.0m2.	36	SM	1000	36,000
VENT BLOCKS					
E	Supply and fix 450x250 precast concrete vent blocks jointed in cement sand mortar (1:3)	15	SM	950	14,250
Total carried to collection					249,850



SP /15

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Window Cill</u> 75mm thick x 250mm wide precast concrete(1:2:4) weathered throated and grooved and bedded on 200mm thick walls including all necessary reinforcement and building in	36	LM	550	19,800
B	<u>Painting and Decoration</u> Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of windows	30	SM	300	9000
	Carried to collection				28,800
	<u>Collection</u> Brought forward from page SP/15				249,850
	Brought down from above				28,800
	Total for Element No. 03 Windows Carried to Summary				278,650

SP/16



PROPOSED CONSTRUCTION OF 8NO. CLASSROOMS AT LUSU PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Element No. 05					
Floor finishes					
A	trowelled rough and hard to receive terrazzo	315	SM	205	64,575
B	granded and plished to approval.	315	SM	1,450	456,750
C	Plastic deviding strips	608	LM	60	36,480
D	100 x 25mm thick terrazzo skirting	176	LM	350	61,600
plaster					
E	smooth to receive paint(m.s). internal walls	480	SM	205	98,400
F	Ditto but render to key in external walls	158	SM	205	32,390
G	Ditto to columns and beams	80	SM	205	16,400
Painting and decoration					
H	Prepare and apply one undercoat and two finishing coats of first grade vnyl silk emulsion paint to internal walls	480	SM	300	144,000
Painting and decoration					
I	Prepare and apply one undercoat and two finishing coats of first grade vnyl silk emulsion paint to columns and Beams.	80	SM	300	24,000
VERANDAH SUPORTING BALUTRADES					
J	25mm x 25mm x3mm square hollow section (SHS) vertical baluster spacing at 150mm c/c on horizontal bottom and top rails of 50x50mm @1200mm 75x75x3mm SHS main posts one end fanged and built into concrete bed (m.s) to approval	50	SM	3530	177,500
Painting and decoration					
K	Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of balutrades	50	SM	200	10,000
Total Finishes carried to collection					1,122,095



SP/17

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Finishes ctnd					
Ceiling Board					
A	12mm thick chipboard ceiling panel 'V' jointed edges at 600c/c both ways (ms)	352	SM	1100	387,200
B	125 x 25mm cypress softwood cornice moulded and plugged to wall	210	LM	90	18,900
C	600x600mm access trap door with 50x50mm timber to edges.	4	NO	900	3,600
Painting and Decorating					
D	Prepare and apply one undercoat and two finishing coats of first grade plastic emulsion paint to ceiling surface	352	SM	300	105,600
E	Ditto but cornice	210	LM	120	25,200
Fabricate and fix the following unwrot cypress timber					
F	75 x 50mm brandering	391	LM	90	35,190
G	50 x 50mm brandering	754	LM	80	60,320
Total Carried to Collection					636,010
COLLECTION					
Brought forward from page SP/17					1,122,095
Brought down from above					636 010
Total for Element No. 04 Finishes Carried to Summary					1,758,105

SP/18



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Summary page for First Floor					
	Superstructure Frame brought forward from page SP/13				2,057,470
	Doors brought forward from page SP/14				59,200
	Windows brought forward from page SP/16				278,650
	Finishes brought forward from page SP/ 18				1,758,105
	Total for First Floor Works Carried to Main Summary				4,147,425



SP /19

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and weld on steel hand rail 4.00mm steel flat width 100mm	24	LM	350	8,400
B	Supply and fix onto steel top rail 1125mm wrot mahogany or other equal and approved HARDWOOD handrail with three labour <u>Prepare and apply three coats of prime grade gloss paint to:</u>	24	LM	120	2,880
C	Metal surface girth 100 -200mm (top rail, middle rail and bottom rail)	48	LM	200	9,600
D	Metal surface girth not exceeding 100mm	144	LM	180	25,920
E	Prepare and apply three coats of clear varnish on general surface of wood girth 200 - 300mm	24	LM	200	4,800
Total Carried to Collection					51,600
<u>COLLECTION</u>					
Brought forward from page SP/22					111,930
Brought forward from page SP/23					96,410
Brought down from above					51,600
Total for Element No. 07 Stairs Carried to Summary					259,940

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT 08					
<u>Vibrated reinforced concrete (1:2:4)20mm aggregate as described in:-</u>					
A	150mm thick ramp slab	30	SM	900	27,000
B	200mm thick ramp landing	5	SM	900	4,500
C	Ramp beam	4	CM	12,500	50,000
<u>Sawn formwork tas described to:-</u>					
D	slope soffit of ramp	30	SM	300	9,000
E	horizontal soffit of ramp landing	5	SM	300	1,500
F	sides of ramp beam	50	SM	300	15,000
G	Edges of slopping ramp girth 75-150mm	60	LM	150	9,000
H	Edges of ramp landing 75-150mm	10	LM	150	1,500
Reinforcement (all provisional)					
<u>The following in high tensile reinforcement square twisted bar to B.S 4461 as described including cutting to lenghs ,bending all ,twisting and fixing ,including all necessary tying and spacing blocks</u>					
I	20mm diameter bar	202	KG	150	30,300
J	16mm Ditto	186	KG	150	27,900
K	12mm Ditto	922	KG	150	138,300
L	10mm Ditto	334	KG	150	50,100
M	8mm Ditto	35	KG	150	5,250
Ramp finishes					
N	20mm thick cemet sand (1:3)screeed to. Ramp	30	SM	200	6,000
O	Ramp landing	5	SM	200	1,000
P	sides of ramp width 200mm	18	LM	90	1,620
TOTAL CARRIED TO COLLECTION					377,970

SP /25



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>15mm thick terrazzo chips to</u> Ramp	30	SM	1,200	36,000
B	Ramp landing	5	SM	1,200	6,000
C	sides of ramp overall width 200mm	18	LM	380	6,840
D	<u>cement lime sand (1:1:6) plaster as described to;</u> 12mm thick in two coats to sloping soffites of ramp	30	SM	220	6,600
E	12mm thick in two coats to horizontal soffites of ramp	5	SM	220	1,100
F	Prepare and apply one undercoat and two finishing coats of vinyl matt emulsion paint on plastered surface	35	SM	300	10,500
<u>Balusterting</u>					
G	75mm x 25mm x 3mm rectangular hollow section (RHIS) steel bottom rail welded and fixed in position	30	LM	350	10,500
H	75mm x 25mm x 3mm ditto to middle rail	15	LM	350	5,250
I	25mm x 25mm x 3mm rectangular hollow section (RHS) balusters 1200mm long twice counter sunk, one end fanged and built into concrete bed (MS)	170	NO	220	37,400
<u>sundries</u>					
J	weld balusters to metal rail	516	NO	250	129,000
K	Extra over baluster for fanged end	170	NO	220	37,400
L	Make hole in reinforced for fanged end and make good in cement sand mortar	170	NO	300	51,000
TOTAL CARRIED TO COLLECTION					337,590



SP /26

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and weld on steel hand rail 4mm steel flat width 100mm	34	LM	400	13,600
B	Supply and fix onto steel top rail 1125 x50 mm wrot mahongany or other equal and approved HARDWOOD HANDRAIL with three labours	34	LM	360	12,240
	<u>prepare and and apply three coats of prime grade gloss paint to:</u>				
C	metal surface girth 100-200mm (top rail ,middlle rail and bottom rail	170	LM	90	15,300
D	Metal surface girth not exceeding 100mm	516	LM	90	46,440
E	prepare and apply three coats of clear varnish on general surface of wood girth 200-300mm	34	LM	150	5,100
Total carried to collection					92,680
COLLECTION					
Brought forward from page SP/25					377,970
Brought forward from page SP/26					337,590
Brought forward from above					92,680
Total for ELEMENT NO 08 Ramp carried to collection main sammary					808,240



SP/27

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
MAIN SUMMARY					
1	GROUND FLOOR WORKS FROM PAGE SP/12				8,179,850
3	FIRST FLOOR WORKS FROM PAGE SP/19				4,147,425
4	ROOF WORKS FROM PAGE SP/21				1,267,980
5	STAIR CASE WORKS FROM PAGE SP/24				259,940
6	RAMP WORKS FROM PAGE SP/27				808,240
TOTAL FOR BUILDER'S WORKS CARRIED TO GRAND SUMMARY					14,663,435



PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PRIME COST AND PROVISIONAL SUMS</u>				
A	Allow prime cost Sum of Kenya Shillings Five Hundred Thousand (Kshs. 500,000.00) only for Electrical Installation and upgrading of main switch to be executed by a nominated Sub-Contractor			Sum	500,000
B	Allow for profit for Main Contractor on item "A" above		3%		15,000
C	Allow for attendance for Main Contractor on item "A" above			Sum	15,000
D	Allow for a prime cost sum of Kenya shillings Three Hundred and Fifty Thousand,(Kshs. 350,000.00) only for . Project Management Team (State Department of Public Works)			Sum	350,000
G	Allow a provisional sum of Kenya shillings Six Hundred Thousand (Ksh. 600,000.00) only for contigencies to be spent at the discretion of the pm.			Sum	600,000
TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO GRAND SUMMARY					1,480,000

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT LUSUI PRIMARY SCHOOL

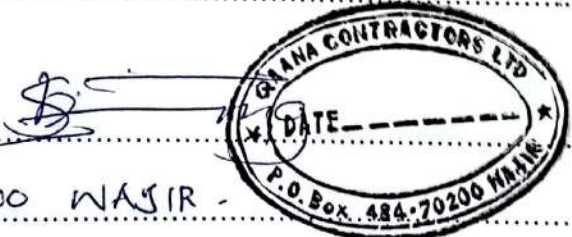
GRAND SUMMARY						
ITEM	DESCRIPTION	PAGE	OFFICIAL USE		TENDERER'S AMOUNT	
			KSH.	CT.	KSHS.	CT.
1	PRELIMINARIES FROM PAGE	PL/01			400,000	00
2	BUILDER'S WORKS FROM PAGE	SP/28			14,663,435	00
3	P C & PROVISIONAL SUMS FROM PAGE	PC/1			1,480,000	00
N/B: INCLUSIVE OF ALL GOVERNMENT TAXES						
TOTAL CARRIED TO FORM OF TENDER					16,543,435	00

Amount of tender in words : Kenya Shillings

SIXTEEN MILLION, FIVE HUNDRED AND FORTY THREE THOUSAND FOUR HUNDRED AND THIRTY FIVE

Tenderer's name... GAANA CONTRACTORS LIMITED

Tenderer's Signature and Stamp



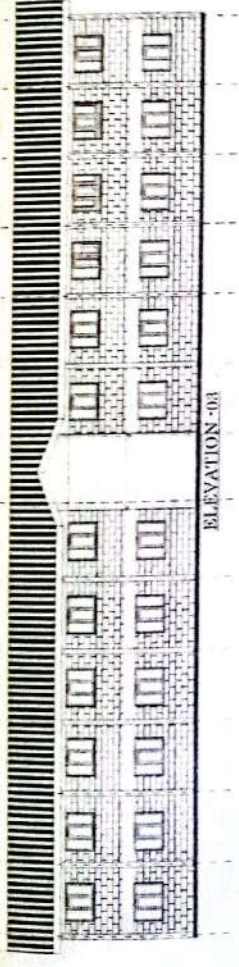
Address... 484, 70200 NAIRI

Witness Name and Signature JUSTUS MIHESO AGOTI *Mheso*

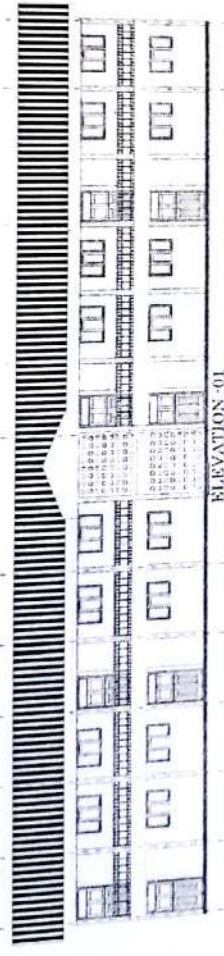
Address: 144 KHAYEGA



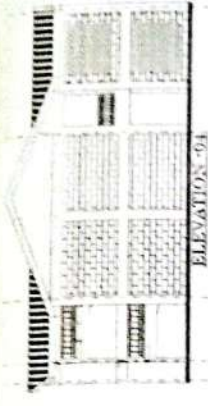
GS/1



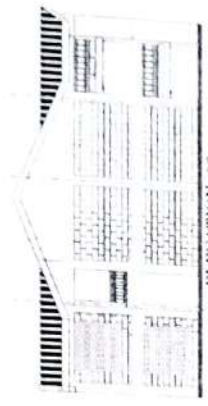
ELEVATION -03



ELEVATION -01



ELEVATION -04



ELEVATION -02

NOTES
 1. All dimensions shall be in accordance with the approved plans.
 2. All work shall be in accordance with the approved plans.
 3. All materials shall be of the highest quality.
 4. All work shall be completed within the specified time.
 5. All work shall be done in accordance with the approved plans.

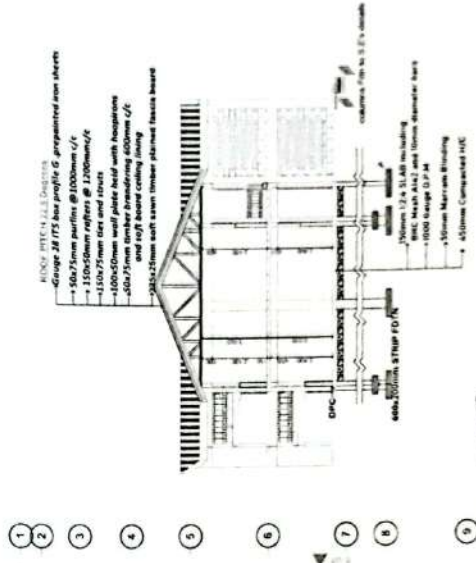
ELECTRICAL NOTES
 All electrical work shall be in accordance with the approved plans.
 All work shall be done in accordance with the approved plans.

DOOR SCHEDULE	
1	6'0" x 2'0" Solid Core
2	6'0" x 2'0" Hollow Core
3	6'0" x 2'0" Solid Core
4	6'0" x 2'0" Hollow Core
5	6'0" x 2'0" Solid Core
6	6'0" x 2'0" Hollow Core
7	6'0" x 2'0" Solid Core
8	6'0" x 2'0" Hollow Core
9	6'0" x 2'0" Solid Core
10	6'0" x 2'0" Hollow Core

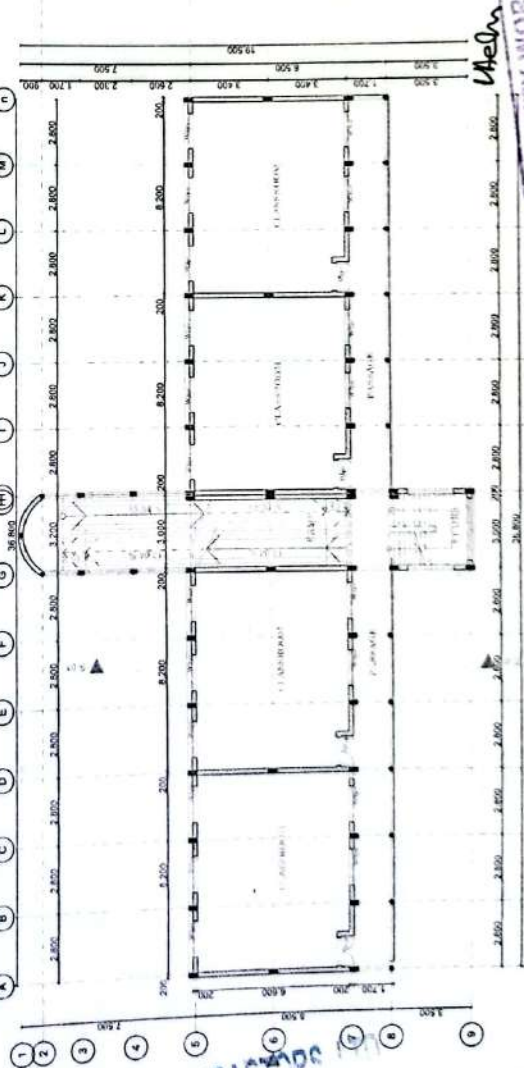
WINDOW SCHEDULE	
1	6'0" x 2'0" Double Hung
2	6'0" x 2'0" Double Hung
3	6'0" x 2'0" Double Hung
4	6'0" x 2'0" Double Hung
5	6'0" x 2'0" Double Hung
6	6'0" x 2'0" Double Hung
7	6'0" x 2'0" Double Hung
8	6'0" x 2'0" Double Hung
9	6'0" x 2'0" Double Hung
10	6'0" x 2'0" Double Hung

FINISHES	
1	Interior Walls
2	Interior Ceilings
3	Exterior Walls
4	Exterior Ceilings
5	Floors
6	Stairs
7	Roofs
8	Basement
9	Foundation
10	Other

PROJECT INFORMATION
 PROJECT NO. 12345
 CLIENT: ABC COMPANY
 ARCHITECT: DEF ARCHITECTS
 CONTRACTOR: GHI CONTRACTORS
 DATE: 12/31/2023



SECTION X-X
 SCALE 1/8"=1'-0"



TYPICAL GROUND AND 1ST FLOOR PLAN

COUNTY WORKS OFFICER
 State Department for Public Works
 P.O. BOX 14 50100
 KAYAKA, OK
 CWC Address: [redacted]@mail.com

030121