

REPUBLIC OF KENYA



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

STATE DEPARTMENT FOR PUBLIC WORKS

PROPOSED CONSTRUCTION OF 8 NO. CLASSROOMS

AT

IMUSALI PRIMARY SCHOOL

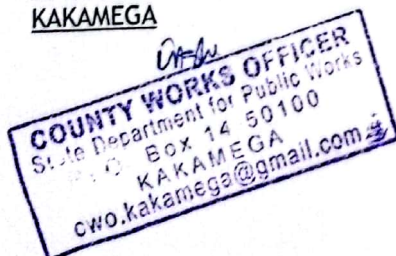
TENDER No. _____

BILL OF QUANTITIES

CLIENT: PMC IMUSALI PRIMARY SCHOOL

PREPARED;

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



FUNDED BY;

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

MAY, 2021

ITEM	COLLECTION	DESCRIPTION	KSHS	CTS
	Brought Forward From Page GP/1			
	Brought Forward From Page GP/2			
	Brought Forward From Page GP/3			
	Brought Forward From Page GP/4		50,000	00
	Brought Forward From Page GP/5			
	Brought Forward From Page GP/6		50,000	00
	Brought Forward From Page GP/7			
	Brought Forward From Page GP/8		50,000	00
	Brought Forward From Page GP/9			
	Brought Forward From Page GP/10			
	Brought Forward From Page GP/11			
	Brought Forward From Page GP/12		50,000	00
	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO BILL No. 1 SUMMARY		200,000	00

ITEM	DESCRIPTION	AMOUNT
<u>BILL NO.1 SUMMARY</u>		
1	PARTICULAR PRELIMINARIES FROM PAGE PP/06	58,000
2	GENERAL PRELIMINARIES FROM PAGE GP/13	200,000
TOTAL CARRIED TO GRAND SUMMARY		258,000

PL/01

BILL NO : 2

BILL OF QUANTITIES

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI 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	90	53,460
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	200	82,800
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	450	53,100
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 calcured timber form work to column bases, girth exceeding 200mm but not exceeding 300mm	137	SM	300	41,100
Total carried to collection					296,720

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

TEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Form work to foundation strip</u>				
A	Softwood sawn celcured timber formwork of girt exceeding 150mm but not exceeding 255mm	76	SM	200	15,200
	<u>Reinforcement to column bases (Provisional)</u>				
B	12mm high tensile steel bars including tying wires, spacer blocks and hooks to BS 4461	1095	KG	160	175,200
	<u>Reinforcement to foundation strip (Provisional)</u>				
C	10mm diameter, ditto Links	650	KG	160	104,000
D	8mm diameter, ditto	225	KG	160	36,000
	<u>Concrete works</u>				
	<u>mass concrete class 10 - 15mm (1:3:6) aggregate in :-</u>				
E	50mm thick blinding under strip foundation	115	SM	300	34,500
F	Ditto in column bases	82	SM	300	24,600
	<u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u>				
G	Column bases	42	CM	12,500	525,000
H	Foundation strip	23	CM	12,500	278,500
	<u>Formwork to stub column</u>				
I	Softwood sawn celcured timber formwork to column	95	SM	300	28,500
	<u>Reinforcement to stub column (All provisional)</u>				
J	16mm diameter high tensile square steel bars to BS 4461 including tying wires, hooks and spacer blocks all in position.	717	KG	160	114,720
K	Ditto but 12mm bars (circular columns)	144	KG	160	23,040
L	Ditto but 8mm bars	233	KG	160	37,280
	<u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u>				
M	Stub Column	6	CM	12,500	75,000
	<u>Expansion joint</u>				
N	25mm Thick flexell in expansion joint	8	SM	550	4,400
O	25x12 Mastic sealant	64	LM	350	22,400
	Total carried to collection				1,507,340

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-				
A	150mm thick Class 20/20mm reinforced vibrated concrete to ground floor slab	352	SM	1200	422,400
	Plinth treatment				
B	12mm thick render (400 mm girth) of cement to sand (1:4) to receive bituminous paint (M.s)	62	SM	300	18,600
C	Prepare and apply one undercoat and two finishing coats of black bituminous paint	62	SM	300	18,600
	Plunking and strutting				
D	Allow for plunking and strutting to sides of excavations		ITEM		25,000
	Removal of water				
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		25,000
	Disposal				
F	Load surplus excavated material and cart away from site distance not less than 500 metres	195	CM	300	58,500
	Fillings				
G	Return fill in and ram selected excavated materials around foundation	390	CM	300	117,000
	Paving slabs				
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	850	105,400
Total carried to collection					790,500

SP/4

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>COLLECTION</u>					
	Brought forward from page SP/1				298,720
	Brought forward from page SP/2				1,507,340
	Brought forward from page SP/3				650,560
	Brought forward from page SP/4				790,500
Total for Element No. 01 Substructure Carried to Summary page					3,247,120

SP /5

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI 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	160	191,200
B	12mm diameter ditto (circular).	240	KG	160	38,400
C	8mm diameter ditto	413	KG	160	66,080
	Formwork to:-				
D	Softwood sawn timber formwork to columns	186	SM	300	55,800
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	160	136,800
G	16mm diameter bar	1984	KG	160	317,440
H	12mm diameter bar	508	KG	160	81,280
I	8mm diameter bar	930	KG	160	148,800
	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	1100	283,800
	Water proofing				
M	200mm wide bituminous felt damp proof course bedded in (1:3) cement sand mortar	127	LM	120	15,240
TOTAL CARRIED TO COLLECTION PAGE					2,091,840

PROPOSED CONSTRUCTION OF SNO.CLASSROOMS AT IMUSALI 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	160	460,800
B	Ditto to D10mm	2,000	KG	160	320,000
	<u>Formwork to edges of slab</u>				
C	Softwood sawn formwork to edges of floor slab exceeding 75mm but exceeding 150mm	103	LM	180	18,540
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	320	188,800
	<u>Concrete Works</u>				
	<u>Vibrated reinforced concrete class 20-20mm aggregate (1:2:4) in:-</u>				
EF	150mm thick suspended slab	352	SM	1200	422,400
					1,516,140
TOTAL COLLECTION					
<u>COLLECTION</u>					
Brought forward from page SP/6					2,091,840
Brought forward from above					1,516,140
Total for Element No. 02 Superstructure Frame Carried to Summary					3,607,980

PROPOSED CONSTRUCTION OF 8NO. CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 03				
	DOORS				
	<u>Galvanized steel casement standard door complete with hinges ,stars, fasteners, permanent vent with mosquito gauze and sheet 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 to:-</u>				
A	1200mm x 2400 high door complete with 50 x 2400 fixed angle frame with 'UNION' 1- lever steel door lock, 3 x 200mm lockable tower bolts.	4	NO	1450	58,000
	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					65,200

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI 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 ,stars, fasteners, permanent vent with mosquito gauze and sheet good 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) 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 hanglights; one fixed bottom light and two fixed light	12	NO	11,000	132,000
B	Window size 1500x1000mm precast vent blocks fixed to aproval <u>Burglar proofing</u>	8	SM	8,600	68,800
	<u>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:-</u>				
C	1500 x 1200mm with 40x25x3mm burglar proofing in varied approved patterns, curves	20	NO	1,100	22,000
	<u>Glazing</u>				
D	6mm thick clear glass fixed to metal frame (M.S) with putty in panes exceeding 0.50m2 but not exceeding 1.0m2.	23	SM	900	20,700
	<u>VENT BLOCKS</u>				
E	Supply and fix 450x250 precast concrete vent blocks jointed in cement sand mortar (1:3)	15	SM	700	10,500
Total carried to collection					254,000

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI 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	400	12,800
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	46	SM	300	13,800
Carried to Collection					26,600
<u>Collection</u> Brought forward from page SP/09 Brought down from above					254,000 26,600
Total for Element No. 04 Windows Carried to Summary					280,600

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Element No. 05					
Floor finishes					
A	24mm thick cement sand screed (1:3) mortar backing trowelled rough and hard to receive terrazzo	352	SM	210	73,920
B	15mm thick terrazzo chipings(1:3) mortar trowelled smooth graded and polished to approval.	352	SM	1500	528,000
C	Plastic deviding strips	608	LM	90	54,720
D	100 x 25mm thick terrazzo skirting	176	LM	350	61,600
plaster					
E	12mm thick cement lime sand (1:1:6) plaster trowelled smooth to receive paint(m.s), internal walls	480	SM	210	100,800
F	Ditto but render to key in external walls	158	SM	210	33,180
G	Ditto to columns and beams	80	SM	210	16,800
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	SM	300	144,000
I	Prepare and apply one undercoat and two finishing coats of first grade silk matt plastic emulsion paint to internal walls	158	SM	300	47,400
Soffits of suspended floor slab					
J	12mm thick plaster trowelled smooth to receive paint(m.s)	335	SM	300	100,500
K	Prepare and apply one undercoat and two finishing coats of first grade silk matt plastic emulsion paint	335	SM	300	100,500
Total for Element No. 06 Finishes Carried to Summary					1,261,420

PROPOSED CONSTRUCTION OF 8NO CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Summary page for Ground Floor.</u>				
	Substructure brought forward from page SP/05				3,247,120
	Superstructure Frame brought forward from page SP/07				3,607,980
	Doors brought forward from page SP/08				65,200
	Windows brought forward from page SP/10				280,600
	Finishes brought forward from page SP/11				1,261,420
	Total for Ground Floor Works Carried to Main Summary				8,462,320

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

TEM	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	160	191,200
B	12mm diameter ditto,	240	KG	160	38,400
C	8mm diameter ditto, stirrups	414	KG	160	66,240
	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	160	130,400
G	16mm diameter bar	1984	KG	160	317,440
G	12mm diameter bar	508	KG	160	81,280
H	8mm diameter bar	761	KG	160	121,760
	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	1100	311,300
	Water proofing				
L	200mm wide bituminous felt damp proof course bedded in (1:3) cement sand mortar	128	LM	100	12,800
	Total for Element No.01 Superstructure /Frame				2,083,620

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 02				
	DOORS				
	<u>Galvanized steel casement Doors standard door complete with hinges ,stars, fasteners, permanent vent with mosquito gauze and sheet 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 to:-</u>				
A	1200mm x 2400 high door complete with 50 x 2400 fixed angle frame with 'UNION' 1- lever steel door lock, 3 x 200mm lockable tower bolts.	4	NO	14500	58,000
	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.02 Doors					65,200
Carried to Summary					

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO. 03					
Windows					
<u>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</u>					
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	11,000	132,000
B	Window size 1500 x 1000mm precast vent blocks fixed to approval <u>Burglar proofing</u>	8	SM	8600	68,800
<u>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:-</u>					
C	1500 x 1200mm with 45x25x3mm burglar proofing in varied approved patterns, curves	20	NO	1100	22,000
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	900	32,400
VENT BLOCKS					
E	Supply and fix 450x250 precast concrete vent blocks jointed in cement sand mortar (1:3)	15	SM	700	10,500
Total carried to collection					265,700

PROPOSED CONSTRUCTION OF SNO.CLASSROOMS AT IMUSALI 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	450	16,200
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	9,000
	Carried to collection				25,200
	<u>Collection</u> Brought forward from page SP/15				265,700
	Brought down from above				25,200
	Total for Element No. 03 Windows Carried to Summary				290,900

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Element No. 05					
Floor finishes					
A	trowelled rough and hard to receive terrazzo	315	SM	210	66,150
B	granded and plished to approval.	315	SM	1,500	472,500
C	Plastic deviding strips	608	LM	80	48,640
D	100 x 25mm thick terrazzo skirting	176	LM	300	52,800
plaster					
E	smooth to receive paint(m.s), internal walls	480.	SM	210	100,800
F	Ditto but render to key in external walls	158	SM	210	33,180
G	Ditto to columns and beams	80	SM	210	16,800
Painting and decoration					
H	Prepare and apply one undercoat and two finishing coats of first grade vynl 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 vynl 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	1,500	75,000
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	300	15,000
Total Finishes carried to collection					1,048,870

PROPOSED CONSTRUCTION OF SMO CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>Finishes and Ceiling Board</u>					
A	12mm thick chipboard ceiling panel 'V' jointed edges at 600/c both ways (ms)	352	SM	500	176,000
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
<u>Painting and Decorating</u>					
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	150	31,500
<u>Fabricate and fix the following unrot cypress timber</u>					
F	75 x 50mm bandering	391	LM	100	39,100
G	50 x 50mm bandering	754	LM	90	67,860
Total Carried to Collection					548,160
COLLECTION					
Brought forward from page SP 17					1,045,870
Brought down from above					548,160
Total for Element No. 04 Finishes Carried to Summary					1,597,030

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Summary page for First Floor					
	Superstructure Frame brought forward from page SP/13				2,083,600
	Doors brought forward from page SP/14				65,200
	Windows brought forward from page SP/16				270,900
	Finishes brought forward from page SP/18				1,597,050
	Total for First Floor Works Carried to Main Summary				4,036,750

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 06				
	ROOFS CONSTRUCTION				
	<u>Roof trusses</u>				
	<u>The following in hardwood timber roof trusses of various sizes assembled and fixed according to the engineer's detailed specification</u>				
	<u>Sawn calculated first grade cypress in :-</u>				
A	150 x50mm rafters	330	LM	300	99,000
B	Ditto tie beam	246	LM	300	73,800
C	Ditto struts & ties	288	LM	300	86,400
D	75x50 purlins	504	LM	150	75,600
	<u>Sawn calculated second grade cypress in :-</u>				
E	100x50mm. Wall plate bolt to beams	90	LM	250	22,500
	<u>Mild steel</u>				
F	12mm diameter rag bolt 150mm long built into prepared mortice in concrete(m.s)	62	NO	200	12,400
G	150x50x6mm Angle cleat.	62	NO	200	12,400
	<u>Sundries</u>				
H	Drill hole in 150mm thick softwood for 12 diameter bolt	62	NO	150	9,300
I	Cut mortice 225mm deep in reinforced concrete beam for and including embedding 12mm diameter bolt with concrete (1:2:4) and make good.	62	NO	200	12,400
	<u>Roof Covering</u>				
J	28 gauge prepainted galvanized IT5 box profile corrugated sheets laid and secured on 75x50 timber purlins using 'J' bolts and washers.	528	SM	1050	554,400
	<u>Biuiders work in conection with interant foul drainage.</u>				
K	Ridge cap	50	LM	350	17,500
L	Valley Ridge cap	24	LM	350	8,400
	Total carried to collection				984,100

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Rainwater Goods					
Fabricate and assemble in gauge 18 prepainted steel sheet					
A	250 x 225mm box gutter	90	LM	650	58,500
B	75mm diameter down pipe clipped onto concrete wall with and including holder bats at 900mm centres	48	LM	550	26,400
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
Prepare and apply one approved,primer,one undercoat and two coats of 'CROWN SOLO' or other equal and					
F	General surfaces of gutters,over 300mm girth external	90	LM	150	13,500
G	Small pipes,externally	48	LM	150	7,200
Tongue and grooved timber to eaves					
H	25x100mm tongue & grooved boarding secret nailed to sawn cypress cypress bearers or brandering at 600mm centres	68	SM	800	54,400
Prepare and apply one approved,primer,one undercoat and two coats of 'CROWN SOLO' or other equal and					
approved polyurethane varnish to:-					
I	Surfaces of eaves,over 300mm girth external	68	SM	300	20,400
Total Carried to Collection					187,600
COLLECTION					
Brought forward from page SP/20					98,400
Brought down from above					187,600
Total for Element No.06 Roof construction Carried to Summary					1,171,700

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL,

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.06 STAIRS				
	Vibrated reinforced concrete class (1:1:4) 20mm aggregate as described in:-				
A	Stairs	1	CM	12,500	12,500
B	200mm thick stair landing	4	SM	800	3,200
C	Stair beam	2	CM	12,500	25,000
	Sawn formwork as described to:-				
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	100	1,200
H	Edge of stair landing girth 75mm -150mm	6	LM	100	600
I	Edge of riser 75mm -150mm	24	LM	100	2,400
	Reinforcement (All Provisional)				
	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.				
J	12 diameter bar	175	KG	160	28,000
K	10mm diameter bar	221	KG	160	35,360
	Stair finishes				
	20mm thick cement sand (1:3) screed to:-				
L	Stair	6	SM	250	1,500
M	Landing	4	SM	250	1,000
N	Sides of stair width 300mm	15	LM	100	1,500
	Total Carried to Collection				117,360

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>8.0mm thick granite to:-</u> Stair tread 300mm wide	60	LM	250	15,000
B	Stair riser 150mm high	64	LM	250	16,000
C	Landing	4	SM	800	3,200
D	Sides of stair overall width 300mm	15	LM	200	3,000
	<u>Cement lime (1:1:6) sand plaster as described to:-</u>				
E	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	350	7,700
	<u>Ballustrating</u>				
H	75mm x 25mm x 3mm rectangular hollow section (RHS) steel bottom rails welded and fixed in position	24	LM	400	9,600
I	75mm x 25mm x 3mm ditto middle rail ditto	24	LM	400	9,600
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	200	14,400
	<u>Sundries</u>				
K	Weld baluster to metal rail	72	NO	220	15,840
L	Extra over baluster for fanged end	48	NO	220	10,560
M	Make hole in reinforced concrete for fanged end and make good in cement sand mortar	48	NO	220	10,560
					117,460
Total Carried to Collection					

PROPOSED CONSTRUCTION OF ENGL CLASSROOMS AT INTISALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and weld on steel hand rail 4.00mm steel flat width 100mm	24	LM	420	9,600
B	Supply and fix onto steel top rail 1125mm wide mahogany or other equal and approved HARDWOOD handrail with three labour <u>Prepare and apply three coats of prime grade gloss paint etc</u>	24	LM	200	4,800
C	Metal surface grith 100 - 200mm (top rail, middle rail and bottom rail)	48	LM	220	10,560
D	Metal surface grith not exceeding 100mm	144	LM	220	31,680
E	Prepare and apply three coats of clear varnish on general surface of wood grith 200 - 300mm	24	LM	300	7,200
Total Carried to Collection					63,840
<u>COLLECTION</u>					
Brought forward from page SP 22					112,360
Brought forward from page SP 23					112,460
Brought down from above					
Total for Element No. 07 Stairs Carried to Summary					224,820

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT 08					
Vibrated reinforced concrete (1:2:4)20mm aggregate as described in:-					
A	150mm thick ramp slab	30	SM	1200	36,000
B	200mm thick ramp landing	5	SM	1200	6,000
C	Ramp beam	4	CM	12,500	50,000
Sawn formwork as described to:-					
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	120	7,200
H	Edges of ramp landing 75-150mm	10	LM	120	1,200
Reinforcement (all provisional)					
The following in high tensile reinforcement square twisted bar to B.S 4461 as described including cutting to lengths, bending all, twisting and fixing, including all necessary tying and spacing blocks					
I	20mm diameter bar	202	KG	160	32,320
J	16mm Ditto	186	KG	160	29,760
K	12mm Ditto	922	KG	160	147,520
L	10mm Ditto	334	KG	160	53,440
M	8mm Ditto	35	KG	160	5,600
Ramp finishes					
N	20mm thick cemet sand (1:3) screed to. Ramp	30	SM	220	6,600
O	Ramp landing	5	SM	220	1,100
P	sides of ramp width 200mm	18	LM	100	1,800
TOTAL CARRIED TO COLLECTION					404,040

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>15mm thick terrazzo chips to</u> Ramp	30	SM	1500	45,000
B	Ramp landing	5	SM	1500	7,500
C	sides of ramp overall width 200mm <u>cement lime sand (1:1:6) plaster as described to;</u>	18	LM	400	7,200
D	12mm thick in two coats to sloping soffites of ramp	30	SM	250	7,500
E	12mm thick in two coats to horizontal soffites of ramp	5	SM	250	1,250
F	Prepare and apply one undercoat and two finishing coats of vinyl matt emulsion paint on plastered surface	35	SM	350	12,250
<u>Balusterting</u>					
G	75mm x25mm x 3mm rectangular hollow section (RHS) steel bottom rail welded and fixed in position	30	LM	400	12,000
H	75mm x 25mm x 3mm ditto to middle rail	15	LM	400	6,000
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	250	42,500
J	<u>sundries</u> weld balusters to metal rail	516	NO	250	129,000
K	Extra over baluster for fanged end	170	NO	250	42,500
L	Make hole in reinforced for fanged end and make good in cement sand mortar	170	NO	250	42,500
TOTAL CARRIED TO COLLECTION					355,200

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and weld on steel hand rail 4mm steel flat width 100mm	34	LM	450	15,300
B	Supply and fix onto steel top rail 1125 x50 mm wrot mahongany or other equal and approved HARDWOOD HANDRAIL with three labours <u>prepare and and apply three coats of prime grade gloss paint to:</u>	34	LM	400	13,600
C	metal surface girth 100-200mm (top rail ,midddle rail and bottom rail	170	LM	150	25,500
D	Metal surface girth not exceeding 100mm	516	LM	150	77,400
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					136,900
COLLECTION					
Brought forward from page SP/25					404,040
Brought forward from page SP/26					355,200
Brought forward from above					136,900
Total for ELEMENT NO 08 Ramp carried to collection main sammary					896,140

PROPOSED CONSTRUCTION OF ENO CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<u>MAIN SUMMARY</u>					
1	GROUND FLOOR WORKS FROM PAGE SP 12				8,462,320
2	FIRST FLOOR WORKS FROM PAGE SP 19				4,086,750
4	ROOF WORKS FROM PAGE SP 21				1,171,700
5	STAIR CASE WORKS FROM PAGE SP 24				298,660
6	RAMP WORKS FROM PAGE SP 27				896,140
TOTAL FOR BUILDER'S WORKS CARRIED TO GRAND SUMMARY					14,865,570

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
PRIME COST AND PROVISIONAL SUMS					
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 contingencies 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

GRAND SUMMARY

PROPOSED CONSTRUCTION OF 8NO.CLASSROOMS AT IMUSALI PRIMARY SCHOOL

GRAND SUMMARY						
ITEM	DESCRIPTION	PAGE	OFFICIAL USE		TENDERER'S AMOUNT	
			KSH.	CT.	KSHS.	CT.
1	PRELIMINARIES FROM PAGE	PL/01			2,50,000	00
2	BUILDER'S WORKS FROM PAGE	SP/28			14,865,570	00
3	P C & PROVISIONAL SUMS FROM PAGE <i>N/B: INCLUSIVE OF ALL GOVERNMENT TAXES</i>	PC/1			1,480,000	00
	TOTAL CARRIED TO FORM OF TENDER				16,595,570	00

Amount of tender in words : Kenya Shillings

SIXTEEN MILLION FIVE HUNDRED AND NINETY FIVE THOUSAND FIVE HUNDRED AND SEVENTY SHILLINGS ONLY.

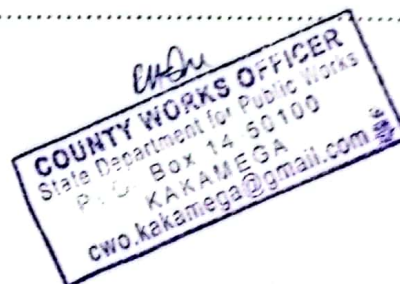
Tenderer's name.....

Tenderer's Signature and Stamp.....

Address..... 68658

Witness Name and Signature *ABDULLAHI ABDI ALI*

Address:.....



NOTES

1. All dimensions are in millimeters.
2. Foundation depth to be determined on site.
3. Provide 20mm clear cover to all reinforcement.
4. Provide 10mm lap length for all reinforcement.
5. Provide 10mm lap length for all reinforcement.
6. Provide 10mm lap length for all reinforcement.
7. All walls to be constructed with concrete or masonry.
8. All floors to be constructed with concrete or masonry.
9. All roofs to be constructed with concrete or masonry.
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18. All roofs to be constructed with concrete or masonry.
19. All roofs to be constructed with concrete or masonry.
20. All roofs to be constructed with concrete or masonry.

ELECTRICAL NOTES

1. All electrical work to be in accordance with the National Electrical Code (NEC).
2. All electrical work to be in accordance with the National Electrical Code (NEC).
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19. All electrical work to be in accordance with the National Electrical Code (NEC).
20. All electrical work to be in accordance with the National Electrical Code (NEC).

ASBESTOS TESTING

1. All asbestos testing to be in accordance with the National Fire Protection Association (NFPA).
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19. All asbestos testing to be in accordance with the National Fire Protection Association (NFPA).
20. All asbestos testing to be in accordance with the National Fire Protection Association (NFPA).

WOODWORK SCHEDULE

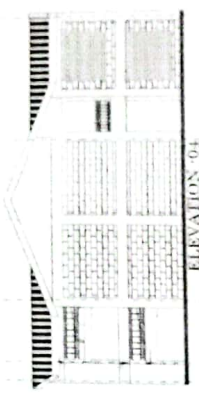
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MATERIALS

NO.	DESCRIPTION	QTY	UNIT
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GENERAL NOTES

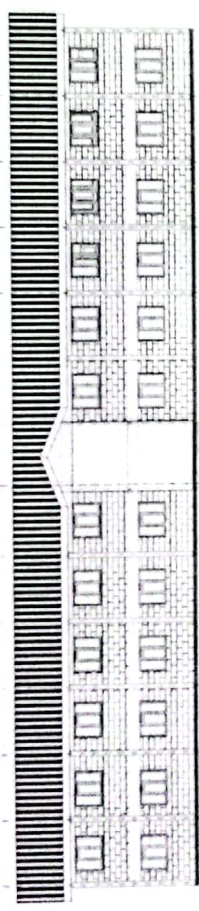
1. All work to be in accordance with the National Building Code of the Philippines.
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20. All work to be in accordance with the National Building Code of the Philippines.



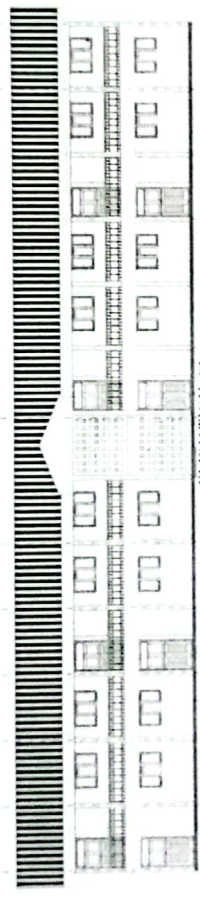
ELEVATION -01



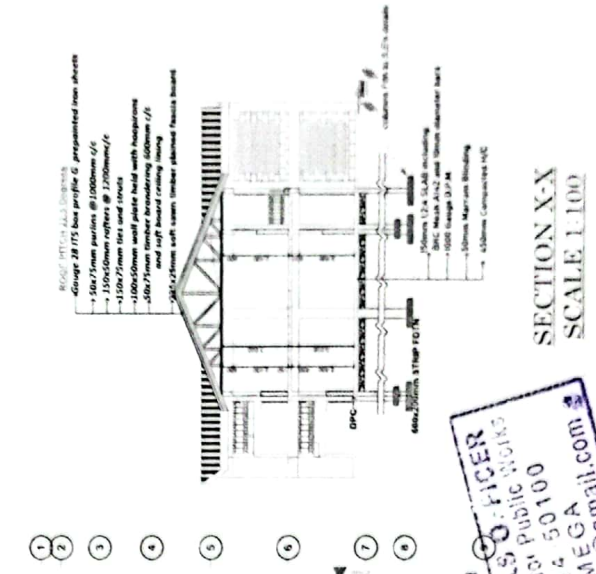
ELEVATION -02



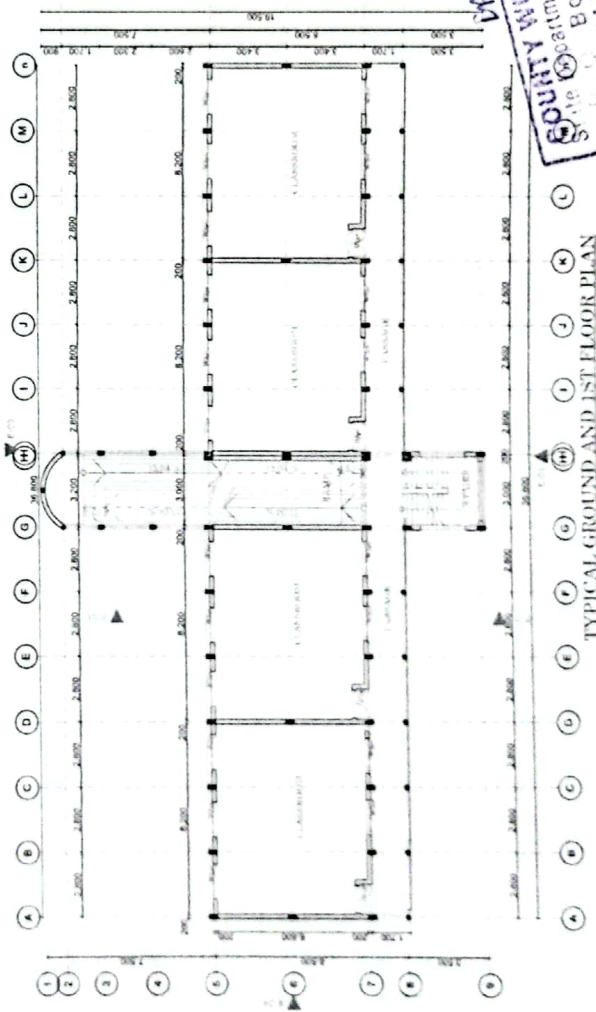
ELEVATION -03



ELEVATION -04



SECTION X-X
SCALE 1:100



TYPICAL GROUND AND 1ST FLOOR PLAN

MANAGER
COUNTY WORKS OFFICER
 County of Public Works
 Box 14 50100
 KAKAMEGA
 CWO.kakamega@gmail.com