

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>GROUND FLOOR</u></b> <b><u>ELEMENT NO. 01</u></b> <b><u>Substructure</u></b> <b><u>Site clearence (All Provisional)</u></b>				
A	Excavate vegetable soil avarage 150mm deep from ground level and dispose all the arising materials.	532	SM	90	47,880.00
B	Excavate from stripped level to reduce level depth not exceeding 1500mm	160	CM	100	16,000.00
C	Soil wheel and deposit on site and later spread as directed by the project manager	160	CM	150	24,000.00
	<b><u>Excavation to column bases</u></b>				
D	Excavate for square columns bases depth not exceeding 1.5 metres and dispose off the excavated material as directed	216	CM	250	54,000.00
	<b><u>Excavation to foundation trenches</u></b>				
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	82	CM	850	69,700.00
F	Excavate for foundation strip from stripped, of depth not exceeding 1.5m and dispose off as directed by the P.M	195	CM	250	48,750.00
	<b><u>Form work to column bases</u></b>				
G	Soft sawn celcured timber form work to column bases, girth exceeding 200mm but not exceeding 300mm	134	SM	300	40,200.00
H	Cut and uproot existing 1no. Small tree not exceeding 600mm thick girth and burn all arising,remove away from site as directed by pm.		Item		10,000.00
	<b>Total carried to collection</b>				<b>310,530.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>Form work to foundation strip</u></b>				
A	Softwood sawn celcured timber formwork of girt exceeding 150mm but not exceeding 255mm	88	SM	300	26,400.00
	<b><u>Reinforcement to column bases (Provisional)</u></b>				
B	12mm high tensile steel bars including tying wires, spacer blocks and hooks to BS 4461	1034	KG	160	165,440.00
	<b><u>Reinforcement to foundation strip (Provisional)</u></b>				
C	10mm diameter, ditto	536	KG	160	85,760.00
D	8mm diameter, ditto	258	KG	160	41,280.00
	<b><u>Concrete works</u></b>				
	<b><u>mass concrete class 10 - 15mm (1:3:6)aggregate in :-</u></b>				
E	50mm thick blinding under strip foundation	130	SM	300	39,000.00
F	Ditto in column bases	95	SM	300	28,500.00
	<b><u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u></b>				
G	Column bases	38	CM	12,500	475,000.00
H	Foundation strip	26	CM	12,500	325,000.00
	<b><u>Formwork to stub column</u></b>				
I	Softwood sawn celcured timber formwork to column	110	SM	300	33,000.00
	<b><u>Reinforcement to stub column (All provisional)</u></b>				
J	16mm diameter high tensile square steel bars to BS 4461 including tying wires, hooks and spacer blocks all in position.	615	KG	160	98,400.00
K	Ditto but 12mm bars for circular columns	250	KG	160	40,000.00
L	Ditto but 8mm bars links	235	KG	160	37,600.00
	<b><u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u></b>				
M	Stub Column	9	CM	12,500	112,500.00
	<b><u>Expansion joint</u></b>				
N	25mm Thick flexell in expansion joint	4	SM	650	2,600.00
O	25x12 Mastic sealant	15	LM	450	6,750.00
	<b>Total carried to collection</b>				<b>1,517,230.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
A	<b><u>Foundation walling</u></b> 225mm thick approved natural stone walling reinforced with 20mm thick hoop iron at every second course and laid with (1:3) cement sand mortar	260	SM	1200	312,000.00
B	<b><u>Hardcore filling</u></b> 300mm thick approved hardcore filling consolidated in 150mm layers and well compacted.	410	SM	350	143,500.00
C	<b><u>Murram Blinding</u></b> 75mm thick approved hardcore filling consolidated two layers and well compacted.	410	SM	250	102,500.00
D	Prepare and apply "Gladiator TC"(organophosphates chlorpyritos) coverage 8SM per litre as "HIGH CHEM LTD" or other equal and approved.	410	SM	150	61,500.00
E	1000 Gauge Damp Proof membrane with lap allowance of 200mm	410	SM	150	61,500.00
F	Mesh fabric reinforcement with 150mm laps allowance allowance for laps) reference A 142 to BS 1483.	410	SM	400	164,000.00
G	<b><u>Formwork to edges of slab</u></b> Soft sawn timber formwork to edges of ground floor slab, girth exceeding 75mm but not exceeding 150mm	106	LM	150	15,900.00
<b>Total carried to collection</b>					<b>860,900.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>Class 20/20mm aggregate, mix (1:2:4) Vibrated concrete to:-</u></b>				
A	150mm thick Class 20/20mm reinforced vibrated concrete to ground floor slab	410	SM	1200	492,000.00
	<b><u>Plinth treatment</u></b>				
B	12mm thick render (400 mm girth) of cement to sand (1:4 ) to receive bituminous paint (M.s )	56	SM	250	14,000.00
C	Prepare and apply one undercoat and two finishing coats of black bituminous paint	56	SM	350	19,600.00
	<b><u>Plunking and strutting</u></b>				
D	Allow for plunking and strutting to sides of excavations		ITEM		10,000.00
	<b><u>Removal of water</u></b>				
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		10,000.00
	<b><u>Disposal</u></b>				
F	Load surplus excavated material and cart away from site distance not less than 500 metres	164	CM	150	24,600.00
	<b><u>Fillings</u></b>				
G	Return fill in and ram selected excavated materials around foundation	329	CM	200	65,800.00
	<b><u>Paving slabs</u></b>				
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.	64	SM	1050	67,200.00
	<b>Total carried to collection</b>				<b>703,200.00</b>
	<b><u>COLLECTION</u></b>				
	Brought forward from page SH/1				310,530.00
	Brought forward from page SH/2				1,517,230.00
	Brought forward from page SH/3				860,900.00
	Brought forward from page above				703,200.00
	<b>Total for Element No. 01 Substructure Carried to Summary page</b>				<b>3,391,860.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>ELEMENT NO. 02</u></b>				
	<b><u>SUPERSTRUCTURE FRAME</u></b>				
	<b><u>COLUMNS</u></b>				
	<i>Reinforced (Provisional)</i>				
A	16mm high tensile reinforcing steel bars including spacers, hoks and tying wire all to position to BS 4461	1126	KG	160	180,160.00
B	12mm diameter ditto for circular	458	KG	160	73,280.00
C	8mm diameter ditto	368	KG	160	58,880.00
	<b><u>Formwork to:-</u></b>				
D	Softwood sawn timber formwork to columns	218	SM	300	65,400.00
E	Vibrated reinforced concrete (1:2:4) / 20-20mm aggregate in columns	16	CM	12,500	200,000.00
	<b><u>Main and intermediate beams</u></b>				
	<b><u>Reinforcement (All Provisional)</u></b>				
F	25mm high tensile reinforcing steel bars including spacers, hooks and tying wires to position	1112	KG	160	177,920.00
G	20mm diameter ditto	712	KG	160	113,920.00
H	16mm diameter ditto	2238	KG	160	358,080.00
I	12mm diameter bar	584	KG	160	93,440.00
J	8mm diameter bar	1038	KG	160	166,080.00
	<b><u>Main intermediate Beams</u></b>				
	<b><u>Concrete works</u></b>				
K	Class 20/20mm aggregate, mix (1:2:4) Vibrated and reinforced concrete beams	40	CM	12,500	500,000.00
	<b><u>Formwork to:-</u></b>				
L	Softwood cypress sawn celcured timber formwork to sides and soffit of ring beam	460	SM	300	138,000.00
	<b><u>Walling</u></b>				
	<b><u>200mm Thick Walling</u></b>				
M	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	248	SM	1400	347,200.00
	<b><u>Water proofing</u></b>				
N	200mm wide bituminous felt damp proof course bedded in (1:3) cement sand mortar	106	LM	120	12,720.00
	<b>TOTAL CARRIED TO COLLECTION PAGE</b>				<b>2,485,080.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>Suspended Floor Slab</u></b>				
	<b><u>Reinforcement (Provisional)</u></b>				
A	12mm high tensile square reinforcement steel bars, including tying wires and spacer blocks all to position	1,440	KG	160	230,400.00
B	Ditto to D10mm bars	2,000	KG	160	320,000.00
C	Ditto to D8mm bars	640	KG	160	102,400.00
	<b><u>Formwork to edges of slab</u></b>				
D	Softwood sawn formwork to edges of floor slab exceeding 75mm but exceeding 150mm	106	LM	150	15,900.00
E	Sawn softwood formwork to soffits of suspended floor slab	410	SM	300	123,000.00
	<b><u>Concrete Works</u></b>				
	<b><u>Vibrated reinforced concrete class 20-20mm aggregate (1:2:4) in:-</u></b>				
F	150mm thick suspended slab	310	SM	1200	372,000.00
G	100mm diameter timber poles 3000mm long for props at 600mm c/c	510	NO	250	127,500.00
	<b><u>Expansion joint</u></b>				
H	25mm Thick flexell in expansion joint	16	SM	650	10,400.00
I	25x12 Mastic sealant	60	LM	450	27,000.00
	<b>TOTAL COLLECTION</b>				<b>1,328,600.00</b>
	<b><u>COLLECTION</u></b>				
	Brought forward from page EM/5				2,485,080.00
	Brought forward from above				1,328,600.00
	<b>Total for Element No. 02 Superstructure Frame Carried to Summary</b>				<b>3,813,680.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>ELEMENT NO. 03</u></b>				
	<b><u>DOORS</u></b>				
	<b><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></b>				
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.	3	NO	11,000	33,000.00
	<b><u>Painting and Decoration</u></b>				
B	Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of Doors	9	SM	350	3,150.00
	<b>Total for Element No.03 Doors Carried to Summary</b>				<b>36,150.00</b>

PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL

ITEM	DESCRIPTION		UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 04</u></b>				
	<b><u>Windows</u></b>				
	<b><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></b>				
A	1500 x 1500mm frame all welded joints ground smooth and finished with red oxide coat with two side hanglights; one fixed bottom light and two fixed light	9	NO	10,000	90,000.00
B	Ditto to Window size 1500 x 900mm	6	SM	7,000	42,000.00
	<b><u>Glazing</u></b>				
C	4mm thick clear glass fixed to metal frame (M.S) with putty in panes exceeding 0.50m2 but not exceeding 1.0m2.	23	SM	1100	25,300.00
	<b><u>Window Cill</u></b>				
D	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	23	LM	250	5,750.00
	<b><u>Painting and Decoration</u></b>				
E	Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of windows	46	SM	350	16,100.00
	<b>Total for Element No. 04 Windows Carried to Summary</b>				<b>179,150.00</b>



**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>Element No. 05</u></b>				
	<b><u>Floor finishes</u></b>				
A	32mm thick cement sand screed (1:3) mortar coloured screed finished cement grout/slurry smooth with steel float.	410	SM	280	114,800.00
B	100 x 25mm thick terrazzo skirting	220	LM	100	22,000.00
	<b><u>plaster</u></b>				
C	12mm thick cement lime sand (1:1:6) plaster trowelled smooth to receive paint(m.s), internal walls	282	SM	250	70,500.00
D	Ditto but render to key in external walls	64	SM	250	16,000.00
E	Ditto to columns and beams	142	SM	250	35,500.00
	<b><u>Painting and decoration</u></b>				
F	Prepare and apply one undercoat and two finishing coats of first grade vinyl silk emulsion paint to internal walls	282	SM	300	84,600.00
G	Prepare and apply one undercoat and two finishing coats of first grade vinyl silk emulsion paint to internal walls	142	SM	300	42,600.00
	<b><u>Soffits of suspended floor slab</u></b>				
H	12mm thick plaster trowelled smooth to receive paint(m.s)	310	SM	250	77,500.00
I	Prepare and apply one undercoat and two finishing coats of first grade vinyl silk emulsion paint	310	SM	300	93,000.00
	<b>Total for Element No. 06 Finishes Carried to Summary</b>				<b>556,500.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Summary page for Ground Floor</u></b>				
	Substructure brought forward from page EM/04				3,391,860.00
	Superstructure Frame brought forward from page EM/06				3,813,680.00
	Doors brought forward from page EM/07				36,150.00
	Windows brought forward from page EM/08				179,150.00
	Finishes brought forward from page EM/ 09				556,500.00
	<b>Total for Ground Floor Works Carried to Main Summary</b>				<b>7,977,340.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>FIRST FLOOR</u></b>				
	<b><u>ELEMENT- 01</u></b>				
	<b><u>SUPERSTRUCTURE FRAME</u></b>				
	<b><u>COLUMNS</u></b>				
	<b><u>Reinforcements (Provisional )</u></b>				
A	16mm high tensile reinforcing steel bars including spacers, hoks tying wires all to positions to BS 4461 columns	1126	KG	160	180,160.00
B	12mm diameter ditto, circular columns	458	KG	160	73,280.00
C	8mm diameter ditto, stirrups	368	KG	160	58,880.00
	<b><u>Formwork to:-</u></b>				
D	Softwood sawn timber formwork to square/ rectangular/round columns	218	SM	300	65,400.00
	<b><u>Concrete works</u></b>				
E	Vertical reinforced concrete (1:2:4) class 20/20mm aggregate reinforced to columns	16	CM	12,500	200,000.00
	<b><u>Beams</u></b>				
	<b><u>Reinforcement (All Provisional)</u></b>				
F	16mm high tensile reinforcing steel bars including spacers, hooks and tying wires to position .	2633	KG	160	421,280.00
G	8mm diameter bar	778	KG	160	124,480.00
	<b><u>Main and intermediate beams</u></b>				
	<b><u>Concrete works</u></b>				
H	Class 20/20mm aggregate, mix (1:2:4) Vibrated and reinforced concrete beams	30	CM	12,500	375,000.00
	<b><u>Formwork</u></b>				
I	Softwood cypress sawn celcured timber formwork to sides and soffits of ring beam	365	SM	300	109,500.00
	<b><u>200mm Thick Walling</u></b>				
J	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	218	SM	1400	305,200.00
	<b>Total for Element No.01 Superstructure /Frame Carried to Summary</b>				<b>1,913,180.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>ELEMENT NO. 02</u></b>				
	<b><u>DOORS</u></b>				
	<b><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></b>				
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.	3	NO	12000	36,000.00
	<b><u>Painting and Decoration</u></b>				
B	Prepare and apply one undercoat and two finishing coats of first quality clear polyethene varnish to doors internal & externally	18	SM	350	6,300.00
	<b><u>VERANDAH SUPORTING BALUTRADES</u></b>				
C	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 by PM	50	SM	3200	160,000.00
	<b><u>Painting and decoration</u></b>				
D	Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of balustrades	50	SM	300	15,000.00
	<b>Total for Element No.02 Doors</b>				
	<b>Carried to Summary</b>				<b>217,300.00</b>

PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ELEMENT NO. 03</u></b>				
	<b><u>Windows</u></b>				
	<b><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></b>				
A	1500 x 1500mm frame all welded joints ground smooth and finished with red oxide coat with two side hanglights; one fixed bottom light and two fixed light	9	NO	10,000	90,000.00
B	Ditto to Window size 1500 x 900mm	6	SM	7000	42,000.00
	<b><u>Glazing</u></b>				
C	4mm thick clear glass fixed to metal frame (M.S) with putty in panes exceeding 0.50m2 but not exceeding 1.0m2.	29	SM	1100	31,900.00
	<b><u>Window Cill</u></b>				
D	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	23	LM	200	4,600.00
	<b><u>Painting and Decoration</u></b>				
E	Prepare and apply one undercoat and two finishing coats of first quality gloss oil paint both internal and external surface of windows	58	SM	300	17,400.00
	<b>Total for Element No. 03 Windows Carried to Summary</b>				<b>185,900.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>Element No. 05</u></b>				
	<b><u>Floor finishes</u></b>				
A	32mm thick cement sand screed (1:3) mortar coloured screed finished cement grout/slurry smooth with steel float.	310	SM	280	86,800.00
B	100 x 25mm thick screed skirting	172	LM	100	17,200.00
	<b><u>plaster</u></b>				
C	12mm thick cement lime sand (1:1:6) plaster trowelled smooth to receive paint(m.s), internal walls	282	SM	250	70,500.00
D	Ditto but render to key in external walls	65	SM	250	16,250.00
E	Ditto to gable walls ,columns and beams	172	SM	250	43,000.00
	<b><u>Painting and decoration</u></b>				
F	Prepare and apply one undercoat and two finishing coats of first grade vinyl silk emulsion paint to internal walls	282	SM	300	84,600.00
	<b><u>Painting and decoration</u></b>				
G	Prepare and apply one undercoat and two finishing coats of first grade vinyl silk emulsion paint to columns and Beams.	172	SM	300	51,600.00
	<b><u>Ceiling Board</u></b>				
H	12mm thick chipboard ceiling panel 'V' jointed edges at 600c/c both ways (ms)	410	SM	1100	451,000.00
I	125 x 25mm cypress softwood cornice moulded and plugged to wall	238	LM	100	23,800.00
J	600x600mm access trap door with 50x50mm timber to edges.	4	NO	800	3,200.00
	<b><u>Painting and Decorating</u></b>				
K	Prepare and apply one undercoat and two finishing coats of first grade plastic emulsion paint to ceiling surface	410	SM	350	143,500.00
L	Ditto but cornice	238	LM	150	35,700.00
	<b><u>Fabricate and fix the following unwrot cypress timber</u></b>				
M	75 x 50mm brandering	454	LM	120	54,480.00
N	50 x 50mm brandering	906	LM	100	90,600.00
	<b>Total for Element No. 04 Finishes Carried to Summary</b>				<b>1,172,230.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>Summary page for First Floor</u></b>				
	Superstructure Frame brought forward from page EM/11				1,913,180.00
	Doors brought forward from page EM/12				217,300.00
	Windows brought forward from page EM/13				185,900.00
	Finishes brought forward from page EM/ 14				1,172,230.00
	<b>Total for First Floor Works Carried to Main Summary</b>				<b>3,488,610.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>ELEMENT NO. 06</u></b>				
	<b><u>ROOFS CONSTRUCTION</u></b>				
	<b><u>Roof trusses</u></b>				
	<b><u>The following in hardwood timber roof trusses of various sizes assembled and fixed according to the engineer's detailed specification</u></b>				
	<b><u>Sawn calculated first grade cypress in :-</u></b>				
A	150 x50mm rafters	388	LM	300	116,400.00
B	Ditto tie beam	294	LM	300	88,200.00
C	Ditto struts & ties	341	LM	300	102,300.00
D	75x50 purlins	658	LM	150	98,700.00
	<b><u>Sawn calculated second grade cypress in :-</u></b>				
E	100x50mm. Wall plate bolt to beams	94	LM	250	23,500.00
	<b><u>Mild steel</u></b>				
F	12mm diameter rag bolt 150mm long built into prepared mortice in concrete(m.s)	40	NO	150	6,000.00
G	150x50x6mm Angle cleat.	40	NO	100	4,000.00
	<b><u>Sundries</u></b>				
H	Drill hole in 150mm thick softwood for 12 diameter bolt	40	NO	100	4,000.00
I	Cut mortice 225mm deep in reinforced concrete beam for and including embedding 12mm diameter bolt with concrete (1:2:4) and make good.	40	NO	200	8,000.00
	<b><u>Roof Covering</u></b>				
J	28 gauge prepainted galvanized IT5 box profile corrugated sheets laid and secured on 75x50 timber purlins using roofing nails and washers.	572	SM	1300	743,600.00
	<b><u>Biuiders work in conection with interanal foul drainage.</u></b>				
K	Ridge cap	100	LM	350	35,000.00
L	Valley Ridge cap	14	LM	350	4,900.00
	<b>Total carried to collection</b>				<b>1,234,600.00</b>



**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>Rainwater Goods</u></b>				
	<b><u>PVC GUTTERS</u></b>				
A	150mm half diameter PVC gutter	88	LM	650	57,200.00
B	100mm diameter down pipe clipped onto concrete wall with and including holder bats at 900mm centres	36	LM	450	16,200.00
C	Extra over gutter for making hole size 75mm	6	NO	350	2,100.00
D	Extra over gutter for stripped end	6	NO	350	2,100.00
E	Extra over down pipe for shoe	6	NO	350	2,100.00
	<b><u>Prepare and apply one approved,primer,one undercoat and two coats of 'CROWN SOLO' or other equal and</u></b>				
F	General surfaces of gutters,over 300mm girth external	88	LM	150	13,200.00
G	Small pipes,externally	36	LM	150	5,400.00
	<b><u>Wrot cypress</u></b>				
H	250x25mm fascia board	114	LM	200	22,800.00
	<b><u>Painting and Decorating</u></b>				
	<i><u>Prepare,knot,prme,stop,and apply undercoat two finishing</u></i>				
I	Surface 200-300mm girth	114	LM	150	17,100.00
	<b>Total Carried to Collection</b>				<b>138,200.00</b>
	<b><u>COLLECTION</u></b>				
	Brought forward from page EM/16				1,234,600.00
	Brought down from above				138,200.00
	<b>Total for Element No.06 Roof construction Carried to Summary</b>				<b>1,372,800.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>ELEMENT NO.06 STAIRS</u></b>				
	<b><u>Vibrated reinforced concrete class (1:1:4) 20mm aggregate as described in:-</u></b>				
A	Stairs	1	CM	13,000	13,000.00
B	200mm thick stair landing	4	SM	1900	7,600.00
C	Stair beam	2	CM	13,000	26,000.00
	<b><u>Sawn formwork as described to:-</u></b>				
D	Stoping soffits of stairs	7	SM	300	2,100.00
E	Horizontal soffit of stair landing	6	SM	300	1,800.00
F	Sides of stair beam	4	SM	300	1,200.00
G	Edge of sloping stair girth 300mm	12	LM	150	1,800.00
H	Edge of stair landing girth 75mm -150mm	6	LM	150	900.00
I	Edge of riser 75mm -150mm	24	LM	150	3,600.00
	<b><u>Reinforcement (All Provisional)</u></b>				
	<b><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></b>				
J	12 diameter bar	175	KG	160	28,000.00
K	10mm diameter bar	221	KG	160	35,360.00
	<b><u>Stair finishes</u></b>				
	<b><u>20mm thick cement sand (1:3) screed to:-</u></b>				
L	Stair	6	SM	250	1,500.00
M	Landing	4	SM	250	1,000.00
N	Sides of stair width 300mm	15	LM	100	1,500.00
	<b>Total Carried to Collection</b>				<b>125,360.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
A	<u><b>15mm thick terrazzo to:-</b></u> Stair tread 300mm wide	26	LM	250	6,500.00
B	Stair riser 150mm high	28	LM	250	7,000.00
C	Landing	4	SM	1,500	6,000.00
D	Sides of stair overall width 300mm	26	LM	250	6,500.00
E	<u><b>Cement lime (1:1:6) sand plaster as described to:-</b></u> 12mm thick in two coats to sloping soffites of stairs	6	SM	250	1,500.00
F	12mm thick in two coats of horizontal soffites of landing	4	SM	250	1,000.00
G	Prepare and apply one undercoat and two finishing coats of vinyl matt emulsion paint on plastered surface	22	SM	350	7,700.00
H	<u><b>Ballustrating</b></u> 75mm x 25mm x 3mm rectangular hollow section (RHS) steel bottom rails welded and fixed in position	24	LM	400	9,600.00
I	75mm x 25mm x 3mm ditto middle rail ditto	24	LM	400	9,600.00
J	25mm x 25mm x3mm rectangular hollow section (RHS) baluster 1200mm long twice counter sunk, one end fanged and built into concrete bed (m.s)	72	NO	200	14,400.00
K	<u><b>Sundries</b></u> Weld baluster to metal rail	72	NO	250	18,000.00
L	Extra over baluster for fanged end	48	NO	250	12,000.00
M	Make hole in reinforced concrete for funged end and make good in cement sand mortar	48	NO	250	12,000.00
<b>Total Carried to Collection</b>					<b>111,800.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
A	Supply and weld on steel hand rail 4.00mm steel flat width 100mm	18	LM	350	6,300.00
B	Supply and fix onto steel top rail 1125mm wrot mahogany or other equal and approved HARDWOOD handdrail with three labour <b><u>Prepare and apply three coats of prime grade gloss paint to:</u></b>	18	LM	250	4,500.00
C	Metal surface girth 100 -200mm ( top rail, middle rail and bottom rail)	18	LM	220	3,960.00
D	Metal surface girth not exceeding 100mm	136	LM	200	27,200.00
E	Prepare and apply three coats of clear varnish on general surface of wood girth 200 - 300mm	18	LM	200	3,600.00
	<b>Total Carried to Collection</b>				<b>45,560.00</b>
	<b><u>COLLECTION</u></b>				
	Brought forward from page EM/18				125,360.00
	Brought forward from page EM/19				111,800.00
	Brought down from above				45,560.00
	<b>Total for Element No. 07 Stairs Carried to Summary</b>				<b>282,720.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>ELEMENT 08</u></b>				
	<b><u>Vibrated reinforced concrete (1:2:4)20mm</u></b>				
	<b><u>aggregete as described in:-</u></b>				
A	150mm thick ramp slab	48	SM	1500	72,000.00
B	200mm thick ramp landing	14	SM	1500	21,000.00
C	Ramp beam	4	CM	13,000	52,000.00
	<b><u>Sawn formwork tas described to:-</u></b>				
D	slope soffit of ramp	48	SM	250	12,000.00
E	horizontalsoffit of ramp landing	14	SM	250	3,500.00
F	sides of ramp beam	28	SM	250	7,000.00
G	Edges of slopping ramp girth 75-150mm	18	LM	100	1,800.00
H	Edges of ramp landing 75-150mm	9	LM	100	900.00
	<b><u>Reinforcement (all provisional)</u></b>				
	<b><u>The following in high tensile reinforcement square twisted</u></b>				
	<b><u>bar to B.S 4461 as described inculding cutting to lenghs</u></b>				
	<b><u>,bending all ,twisting and fixing ,inculding all necessary</u></b>				
	<b><u>tying and spacing blocks</u></b>				
I	20mm diameter bar	120	KG	160	19,200.00
J	16mm Ditto	110	KG	160	17,600.00
K	12mm Ditto	545	KG	160	87,200.00
L	10mm Ditto	195	KG	160	31,200.00
M	8mm Ditto	20	KG	160	3,200.00
	<b><u>Ramp finishes</u></b>				
	20mm thick cemet sand (1:3)screed to.				
N	Ramp	48	SM	250	12,000.00
O	Ramp landing	14	SM	250	3,500.00
P	sides of ramp width 200mm	9	LM	100	900.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>345,000.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
A	<b><u>15mm thick terrazzo chips to</u></b> Ramp	48	SM	1500	72,000.00
B	Ramp landing	16	SM	1500	24,000.00
C	sides of ramp overall width 200mm	9	LM	250	2,250.00
	<b><u>cement lime sand (1:1:6) plaster as described to;</u></b>				
D	12mm thick in two coats to sloping soffites of ramp	48	SM	250	12,000.00
E	12mm thick in two coats to horizontal soffites of ramp	60	SM	250	15,000.00
F	Prepare and apply one undercoat and two finishing coats of vinyl matt emulsion paint on plastered surface	38	SM	250	9,500.00
	<b><u>Balusterting</u></b>				
G	75mm x25mm x 3mm rectangular hollow section (RHS) steel bottom rail welded and fixed in position	60	LM	350	21,000.00
H	75mm x 25mm x 3mm ditto to middle rail	60	LM	350	21,000.00
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)	104	NO	200	20,800.00
	<b><u>sundries</u></b>				
J	weld balusters to metal rail	305	NO	200	61,000.00
K	Extra over baluster for fanged end	104	NO	200	20,800.00
L	Make hole in reinforced for fanged end and make good in cement sand mortar	104	NO	200	20,800.00
	<b>TOTAL CARRIED TO COLLECTION</b>				<b>300,150.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
A	Supply and weld on steel hand rail 4mm steel flat width 100mm	30	LM	350	10,500.00
B	Supply and fix onto steel top rail 1125 x50 mm wrot mahongany or other equal and approved HARDWOOD HANDRAIL with three labours  <b><u>prepare and and apply three coats of prime grade gloss paint to:</u></b>	60	LM	150	9,000.00
C	metal surface girth 100-200mm (top rail ,middlle rail and bottom rail	92	LM	120	11,040.00
D	Metal surface girth not exceeding 100mm	172	LM	120	20,640.00
E	prepare and apply three coats of clear varnish on general surface of wood girth 200-300mm	60	LM	120	7,200.00
<b><u>Total carried to collection</u></b>					<b>58,380.00</b>
<b><u>COLLECTION</u></b>					
Brought forward from page EM/21					345,000.00
Brought forward from page EM/22					300,150.00
Brought forward from above					58,380.00
<b>Total for ELEMENT NO 08 Ramp carried to collection main sammary</b>					<b>703,530.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>MAIN SUMMARY</u></b>				
1	GROUND FLOOR WORKS FROM PAGE EM/10				7,977,340.00
3	FIRST FLOOR WORKS FROM PAGE EM/15				3,488,610.00
4	ROOF WORKS FROM PAGE EM/17				1,372,800.00
5	STAIR CASE WORKS FROM PAGE EM/20				282,720.00
6	RAMP WORKS FROM PAGE EM/23				703,530.00
	<b>TOTAL FOR BUILDER'S WORKS CARRIED TO GRAND SUMMARY</b>				<b>13,825,000.00</b>



**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b><u>PRIME COST AND PROVISIONAL SUMS</u></b>				
A	Allow prime cost Sum of Kenya Shillings Three Hundred Thousand ( Kshs.300,000.00) only for <b>Electrical Installation</b> and upgrading of main switch to be executed by a nominated Sub-Contractor		Sum		300,000.00
B	Allow for profit for Main Contractor on item "A" above		4%		12,000.00
C	Allow for attendance for Main Contractor on item "A" above		Sum		12,000.00
D	Allow for a prime cost sum of Kenya shillings Two Hundred and Seventy Thousand,(Kshs.270,000.00) only for Project Manegement Team ( <b>State Department of Publick Works</b> )		Sum		270,000.00
E	Allow a provisional sum of Kenya shillings One Hundred Thousand (Ksh. 100,000.00) only for <b>contigencies</b> to be spent at the discretion of the pm.		Sum		100,000.00
	<b>TOTAL FOR PRIME COST AND PROVISIONAL SUMS CARRIED TO GRAND SUMMARY</b>				<b>694,000.00</b>

**PROPOSED CONSTRUCTION OF 6NO.CLASSROOMS AT EMWIRU MIXED DAY SECONDARY SCHOOL**

<b><u>GRAND SUMMARY</u></b>						
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>PAGE</b>	<b>OFFICIAL USE</b>		<b>TENDERER'S AMOUNT</b>	
			<b>KSH.</b>	<b>CT.</b>	<b>KSHS.</b>	<b>CT</b>
1	PRELIMINARIES FROM PAGE	PL/01	120,000	00		
2	BUILDER'S WORKS FROM PAGE	EM/24	13,825,000	00		
3	P C & PROVISIONAL SUMS FROM PAGE	PC/1	694,000	00		
	<b>N/B; INCLUSIVE OF ALL GOVERNMENT TAXES</b>					
	<b>TOTAL TENDER CARRIED TO FORM OF TENDER</b>		<b>14,639,000.00</b>	<b>00</b>		

Amount of tender in words : Kenya Shillings

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Tendere's name.....

Tenderer's Signature and Stamp

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Address.....

Witness Name and Signature .....

Address:.....

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