

REPUBLIC OF KENYA

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF PUBLIC WORKS

BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF DORMITORY BLOCK AT MWAGHOGHO SEC SCHOOL.

TAITA TAVETA COUNTY VOI SUB-COUNTY.

ISSUED BY: -

COUNTY WORKS OFFICE M.O.P.W P.O. BOX 820 VOI PREPARED BY: -

COUNTY QUANTITY SURVEYOR M.O.P.W P.O. BOX 820 VOI..

MARCH, 2024

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PROPOSED DORMITORY BLOCK				
	ELEMENT NO.1				
	SUBSTRUCTURES (ALL PROVISIONAL) Excavations				
A	Clear site of all shrubs and undergrowth including grubbing up of roots and dispose off as directed.				
		451	SM	50	22,550.00
В	Excavate top vegetable soil avarage 300mm thick and dispose away from site	451	SM	100	45,100.00
С	Excavate trenches for strip foundation not exceeding 1.5 metres from reduced level	162	СМ	185	29,970.00
D	Excavate trenches for column bases foundation not exceeding 1.5 metres from reduced level	19	СМ	185	0.00 3,515.00
	Filling and Carting away				0.00
Е	Return, fill and ram with selected and approved excavated material around excavations				
		127	СМ	100	12,700.00
F	Load and cart away excavated materials from site	54	СМ	145	7,830.00
G	Approved hardcore bed handpacked, well watered and compacted laid in layers of 150mm thick	370	SM	440	162,800.00
Н	50 mm selected fine material to hardcore surfaces, well rolled and leveled to receive concrete	370	SM	200	74,000.00
I	Apply "Termidor" or any other similar and approved anti termite chemical treatment on blinded surfaces	370	SM	150	55,500.00
J	500 gauge polythene sheeting with sides and end laps as described laid on blinded surfaces	370	SM	100	37,000.00
					,
	Carried to Collection				450,965.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Plain concrete (1:4:8) in	Z11	01111	MIL	711100111
A	50mm Thick blinding to strip foundation <u>Vibrated reinforced concrete grade 20/20 (1:2:4) in:</u>	121	SM	600	72,600.00
В	Strip footing	22	СМ	14,000	308,000.00
С	Column bases	13	СМ	14,000	182,000.00
D	150mm Thick ground bed	370	SM	1,500	555,000.00
	Sawn formwork to:				
E	Edges of floor bed 75 - 150mm high	99	LM	140	13,860.00
F	Sides of strip footing	87	SM	310	26,970.00
G	Sides of column	89	SM	310	0.00 27,590.00
	Mild Steel reinforcement as described including cutting to length, bending and fixing including all necessary tying wires and spacing blocks (all provisional)				0.00
Н	8mm diameter high tensile square twisted bars	100	KG	140	14,000.00
I	10 mm diameter high tensile square twisted bars	370	KG	140	51,800.00
J	12 mm diameter high tensile square twisted bars	1,270	KG	140	177,800.00
K	16 mm diameter high tensile square twisted bars	740	KG	140	103,600.00
	Steel fabric mesh reinforcement to B.S. 4483				
L	No. A 142 fabric weighing 2.22Kg/sm fixed in bed	370	SM	440	162,800.00
	Carried to Collection				1,696,020.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Natural stone walling in cement and sand (1:3) mortar and including reinforcing with 20 x 3mm thick hoop iron in every alternate course.				
A	200mm Thick walling	270	SM	1,200	324,000.00
	<u>Plinths</u>				
В	12mm thick cement and sand (1:3) render to plinths	99	SM	210	20,790.00
С	Prepare and apply three coats bituminous paint to rendered plinths				
		99	SM	210	20,790.00
D	Allow for keeping the whole of the excavations free from all water; include for draining or other wise keeping all works free from water as necessary over the entire contract period				
		1	ITEM	5,000	5,000.00
Е	Allow for maintaining and upholding sides of excavations and keeping excavations clear of all fallen materials, rubbish etc	1	ITEM	5,000	5,000.00
	Paving Slabs around building				
F	600 x 600 x 50mm thick precast concrete paving slabs bedded and jointed in cement and sand (1:4) mortar laid on and including 50mm thick sand bed	108	SM	1,400	151,200.00
	Carried to Collection				526,780.00
	COLLECTION				
	FROM PAGE 1				450,965.00
	FROM PAGE 2				1,696,020.00
	FROM ABOVE				526,780.00
	TOTAL FOR ELEMENT NO. 1 CARRIED TO				520,100.00
	(SUBSTRUCTURES) SUMMARY				
		KSHS			2,673,765.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 2				
	REINFORCED CONCRETE SUPERSTRUCTURE				
	Vibrated reinforced concrete (1:2:4) Class 20/20 in:				
A	Beams	16	CM	9,000	144,000.00
В	Columns		G) (2.222	0.00
D	Columns	8	СМ	9,000	72,000.00
С	150mm Suspended slab	370	SM	1,350	0.00 499,500.00
		3,0	01.1	1,330	.33,300.00
Е	150 mm thick landing	7	Sm	1,800	12,600
	Formwork to:				
F	Soffites of landing	7	Sm	210	1,470
G	Sloping soffites and sides of staircase	16	Sm	390	6,240
Н	Edges of suspended slab 75 - 150 mm high	99	Lm	90	8,910
I	Edges of staircase risers ditto	31	Lm	90	2,790
J	Sides and soffites of beams	172	SM	375	64,500.00
					0.00
K	Sides of column	115	SM	375	43,125.00
					0.00
L	Soffites of suspended slab	370	SM	375	138,750.00
	Steel reinforcement as described including cutting to length,	310	0111	373	130,730.00
	bending, hoisting and fixing including all necessary tying wires and spacing blocks (all provisional)				
M	8 mm diameter high tensile square twisted bars	2,400	KG	140	336,000.00
		2,400	KG	140	330,000.00
N	12 mm ditto	2,800	KG	140	392,000.00
		_,			0.00
О	10 mm ditto	1,070	KG	140	149,800.00
	ne. Po.				0.00
Р	16mm ditto	1,680	KG	140	235,200.00
	TOTAL FOR ELEMENT NO. 2 (REINFORCED CONCRETE)				
	CARRIED TO SUMMARY				2,106,885.00

DESCRIPTION	QTY	UNIT	RATE	AMOUNT
ELEMENT NO. 3				
200 mm wide approved quality 3-ply bituminous felt damp proof course under walls	187	LM	140	26,180.00
100 mm thick Ditto	29	LM	90	2,610.00
Smooth Machine cut dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course				
200mm Thick walling externally and Internally	472	SM	1,600	755,200.00
100mm ditto	65	SM	1,400	91,000.00
Eave filling to 200mm thick wall extreme height 300mm	187	LM	340	63,580.00
TOTAL FOR ELEMENT NO. 3 CARRIED TO (WALLING) SUMMARY				
	ELEMENT NO. 3 WALLING 200 mm wide approved quality 3-ply bituminous felt damp proof course under walls 100 mm thick Ditto Smooth Machine cut dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course 200mm Thick walling externally and Internally 100mm ditto Eave filling to 200mm thick wall extreme height 300mm	ELEMENT NO. 3 WALLING 200 mm wide approved quality 3-ply bituminous felt damp proof course under walls 187 100 mm thick Ditto 29 Smooth Machine cut dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course 200mm Thick walling externally and Internally 472 100mm ditto Eave filling to 200mm thick wall extreme height 300mm 187	ELEMENT NO. 3 WALLING 200 mm wide approved quality 3-ply bituminous felt damp proof course under walls 187 LM 100 mm thick Ditto 29 LM Smooth Machine cut dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course 200mm Thick walling externally and Internally 472 SM 100mm ditto 65 SM Eave filling to 200mm thick wall extreme height 300mm 187 LM TOTAL FOR ELEMENT NO. 3 CARRIED TO	ELEMENT NO. 3 WALLING 200 mm wide approved quality 3-ply bituminous felt damp proof course under walls 187 LM 140 100 mm thick Ditto 29 LM 90 Smooth Machine cut dressed natural stone walling in cement and sand (1:4) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course 200mm Thick walling externally and Internally 472 SM 1,600 100mm ditto 63 SM 1,400 Eave filling to 200mm thick wall extreme height 300mm 187 LM 340

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.4				
	ROOFING				
A	Cement sand Roof Screed 25mm thick finished to receive collas (MS)				
	Cement sand Roof Screed 25mm thick missied to receive conas (ivis)	370	SM	310	114,700.00
В	Apply Two cioats collas on cement sand roof screed				
В	Appry 1 wo cloats conas on cement sand roof screed	370	LM	240	88,800.00
	TOTAL FOR ELEMENT NO. 4 (ROOFING) CARRIED				
	TO SUMMARY				203,500.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.5				
	DOORS				
	Wrot Hardwood framed frames and framings				
A	150 x 50 mm; 2 No. labours; plugged door frame	57	lm	1,000	57,000.00
В	40×35 mm moulded architrave	57	lm	140	7,980.00
С	25 x 25mm moulded quadrants	57	lm	140	7,980.00
	45mm Thick semi-solid core flush doors to B.S 459: part 2 veneered both sides with internal quality plywood and lipped on all edges in approved hardwood	31	1111	110	1,200.00
D	Single swing door size 840 x 2060 mm high	10	NI-	10,000	100,000,00
Е	Framed battened door size 1590 x 2060 mm high with 1No. 300 x 900mm fanlight infilled with glass and approved beading all round	10	No.	10,000	100,000.00
	METAL WORK - PURPOSE - MADE UNITS	3	No.	18,000	54,000.00
	Doors and gates				
	Mild steel casement doors; 100 x 50 x 3mm thick frame plugged to concrete or blockwork with 100mm long fishtailed 25 x 25 x 2mm thick angle section, 50 x 50 x 3mm thick angle section frames at 300mm centres both sides, angles cut, mitred and welded; panels infilled with glazing (m/s), one coat manufacturer's primer, complete with all necessary ironmongery; all welding ground to smooth finish				
	Double door;1200 x 2400mm high, including 6 pairs 150mm long purpose made hinges; 4 lever steel lock (m/s) and 1No. 300mm aluminium D handle (m/s); all welded	2	No.	22,000	44,000.00
G	Double door; 1500 x 2400mm high, including 6 pairs 150mm long purpose made hinges; ditto	3	No.	28,500	85,500.00
Н	Iron mongery Supply and fix the following to UNION catalogue or other equal and approved To softwood, hardwood or the like fixing with screws Three lever mortice lock complete with set lever aluminium handle furniture	1	No.	4,200	4,200.00
T					
I	Indicator bolt	10	No.	2,500	25,000.00
	Carried to Collection				385,660.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	100mm steel butt hinges	24	prs	290	6,960.00
	To concrete or blockwork; fixing with bolts; plugging				
В	Rubber door stop complete with 38 mm rawl bolt	20	No.	150	3,000.00
С	Four lever rebated steel door lock.	4	No.	5,000	20,000.00
D	300mm diameter D handle	5	No.	340	1,700.00
	<u>Painting and Decorations</u>)	INO.	340	1,700.00
	Prepare and apply one coat etching primer, one undercoat and two coats gloss oil paint to Crown Solo or other equal and approved to:				
Е	General surfaces of glazed casement metal doors; over 300mm girth internal	12	sm	235	2,820.00
	On wood	12	3111	233	2,020.00
	Aluminium primer or other equal and approved wood primer before fixing: -				
F	Backs of frame, board, etc over 100mm but not exceeding 200mm girth	57	lm	35	1,995.00
	Knot, prime and stop; prepare and apply one undercoat and two coats of gloss oil paint	3,	1111	33	2,333.66
G	General surfaces of timber doors over 300mm girth; external				
Н	Frames; over 100mm but not exceeding 200mm girth; internal	38	sm	235	8,930.00
		57	lm	90	5,130.00
I	Frames not exceeding 100mm girth; internal	114	lm	20	2,280.00
	Carried to Collection				72.017.00
	Carried to Collection COLLECTION				52,815.00
	FROM PAGE 7				385,660.00
	FROM ABOVE				52,815.00
	TOTAL FOR ELEMENT NO. 5 CARRIED TO				,
	(DOORS) SUMMARY				438,475.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.6 WINDOWS Bull-nosed burnt clay, finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement and sand (1:3) mortar				
A	150 x 25mm thick clay window sill	57	lm	140	7,980.00
В	6mm thick ceramic tiles finish to internal surfaces of window sills; 150mm girth	57	lm	200	11,400.00
С	Wrot Mahogany 150 x 25 mm thick window boards including bull-nosed edges and 25 x 25 mm bearer; plugged, counter sinking and flush pelleting.	57	lm	150	8,550.00
D	15 x 15mm quadrant bead Pelmet box	57	lm	25	1,425.00
E	Comprising 150 x 25mm wide fascia, 2 No. 150 x 25mm ends 100mm long; 100 x 25mm blockboard top; and 50 x 25mm wrot cypress bearer; plugged	57	lm	240	13,680.00
F	Curtain Tracks; "Silent Gliss" Stardand I-section light duty brass single curtain track screwed to soffits of timber pelmet top (m/s) with brass plated screws, one bracket runner per 75mm of rail, two end stops per length and complete accessories to approval				
		57	lm	380	21,660.00
	Carried to Collection				64,695.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish.				
	Steel; for glazing with putty, lugs to two jambs, cutting and pinning to concrete or blockwork, fixing to head and sill with screws; plugging				
A	Window, overall size 1800 x 1800mm high with 2 No. middle-hung openable light size 900 x 900 mm high.	12	No	12,000	144,000.00
В	Window, overall size 900 x 900mm high complete with 1 No. top hung light size 900 x 900 mm high Glazing	8	No.	3,000	24,000.00
С	4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with putty	36	sm	1,600	57,600.00
D	Ditto but obscured panes ditto <u>Painting and Decorations</u>	7	sm	2,000	14,000.00
	On Metal work				
	Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to: -				
Е	General window surfaces; over 300mm girth internal	42	sm	235	9,870.00
F	General window surfaces; over 300mm girth external On wood Aluminium primer or other equal and approved wood primer before fixing: -	42	sm	235	9,870.00
G	Backs of frame, board, etc over 200mm but not exceeding 300mm girth	57	lm	50	2,850.00
	Carried to Collection				262,190.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Prepare and apply three coats polyurethane clear varnish on				
	woodwork internally				
A	Frames; 200 to 300mm girth	57	lm	50	2,850.00
В	Frames not exceeding 100mm girth; internal	57	lm	25	1,425.00
	Carried to Collection				360,655.00
	COLLECTION				
	COLLIGITO .				
	FROM PAGE 9				64,695.00
	FROM PAGE 10				262,190.00
	FROM ABOVE				360,655.00
	TOTAL FOR ELEMENT NO. 6 CARRIED TO				
	(WINDOWS) SUMMARY				687,540.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 7				
	EXTERNAL FINISHES				
A	Extra over walling for smooth chisel dressing with flush pointed				
	vertical joints and recessed horizontal joints	288	SM	140	40,320.00 0.00
	Bag wash finish to external wall surfaces with cement grout	288	SM	170	48,960.00 0.00
	12mm thick 2 coat gauged Lime (1:2:9) plaster to:				
В	Beams and columns	135	SM	210	28,350.00
	Prepare and apply three coats of first grade silk vinyl emulsion paint				
	to:				
D	Plastered surfaces of beams and columns	134	SM	235	31,490.00
					,
	TOTAL FOR ELEMENT NO. 7 CARRIED TO				
	(EXTERNAL FINISHES) SUMMARY				
	•				149,120.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 8				
	INTERNAL FINISHES				
	<u>FLOORS</u>				
A	40mm thick coloured cement sand screed steel trowelled smooth	370	SM	340	125,800.00
В	100 x 20mm Thick coloured screed skirting <u>CEILING</u>	402	LM	30	12,060.00
С	15mm thick cement sand plaster to soffits of concrete	370	SM	310	114,700.00
D	Ditto sides and soffites of sloping staircase and landing Prepare and apply three coats first grade plastic emulsion paint to:	25	Sm	240	6,000
E	plastered ceiling surfaces Roof finishes	370	SM	230	85,100.00
F	32 mm thick cement sand (1:3) roof screed	370	Sm	290	107,300
G	Prepare and apply 2 coats roofing paint <u>WALLING</u>	370	Sm	190	70,300
Н	12mm (minimum) two-coat plaster; 9mm first coat of cement sand (1:6), 3mm second coat of cement and lime putty (1:10); steel Walls Prepare and apply three coats first grade plastic emulsion paint to:	686	sm	210	144,060.00
I	Plastered walls	686	SM	235	161,210.00
4	STAIRCASE BALUSTRADING			•••	
A B	25 x 25 x 3 mm mild steel SHS balusters 900 mm high 50 x 3 mm mild steel flat bar screwed to handrail	32 7	No Lm	320 155	10,240 1,085
					·
С	Ditto bottom rail	7	Lm	155	1,085
D	75×50 mm hardwood hand rail with four labours	7	Lm	440	3,080
E	Mortice in concrete size 50 x 50 x 50 mm deep and	22	3.7	100	2.200
	grout with cement sand (1:3) mortar	32	No	100	3,200
F	Fanged end of 25 x 25 mm SHS balusters	32	No	100	3,200
	CARRIED TO SUMMARY				848,420
	COLLECTION FROM PAGE 16				149,120.00
	FROM ABOVE				848,420.00
	TOTAL FOR ELEMENT NO. 8 CARRIED TO (INTERNAL FINISHES) SUMMARY				997,540.00

ITEM	DESCRIPTION	OTV	LINIT	DATE	ANACHINIT
		QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 9 BUILDER'S WORK IN CONNECTION WITH SPECISLIST SERVICES (provisional)				
	Builder's work in connection with Plumbing and drainage installations				
A	<u>Labour and Materials</u> Form or leave hole in 100mm reinforced concrete worktop, 425mm wide for wash-hand basin and later make good	6	No.	500	3,000.00
В	Form or leave hole in 200mm thick natural stone wall for large pipe and later make good	5	No.	140	700.00
С	Ditto for small pipe and ditto	5	No.	150	750.00
D	Form or leave hole in 100mm thick natural stone wall for small pipe and later make good	10	No.	150	1,500.00
Е	Cut horizontal or vertical chase in natural stone walling for small pipes and later make good	27	lm	240	6,480.00
F	Ditto for large pipes	10	lm	340	3,400.00
	MANHOLES Consisting of 150mm thick class 20 / (20mm) bed, 100mm thick masonry walling in cement / sand (1:3) mortar 100mm thick suspended cover slab reinforced with 8mm dia. Mild steel bars at 20mm centresboth ways, concrete class 'Q' benching and channelling for pipe, 12mm thick cement/sand (1:3) rendering to sides and bottom, inclinding all necessary excavations, formwork, approved filling and cart away				
G	800×1000 mm internal dimensions;1500mm average depth to invert including 600×450 mm heavy duty cast iron cover with hand holes and frame and step irons staggered at 300mm centres	3	No	18,500	55,500.00
	Labour and material				
Н	Building in ends of 100mm diameter pipes to manholes	3	No.	190	570.00
I	Ditto, 150mm diameter ditto	3	No.	200	600.00
	Carried to Collection				72,500.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Builder's work in connection with electrical installations Cut away for and make good after Electricain installing aconcealed conduit system to the following points including cutting or leaving all holes, mortices, sinkings in the structure and its finishes and for all making good therewith:-				
A	Lighting point with associated switch point	30	No.	240	7,200.00
В	External security light fittings with ditto	4	No	240	960.00
С	Single socket outlet point.	4	No.	240	960.00
D	Twin socket outlet points	5	No.	240	1,200.00
Е	DP switch outlet point	4	No.	240	960.00
F	Consumer unit	1	No.	500	500.00
G	Meter board	1	No.	1,500	1,500.00
	<u>Manholes</u>				
Н	450 x 450 x 600mm deep power and telecom manholes consisting 150mm thick concrete bed, 100mm thick natural stone wall in c/s (1:3) mortar, 100mm suspended cover slab reinforced with 8 mm diameter mild steel bars at 20mm centres both ways, 12mm c/s (1:3) rendering to sides and bottoms and reinforced concrete cover with BRC A142 mesh				
		1	No.	18,500	18,500.00
	Carried to Collection				31,780.00
	COLLECTION				
	FROM PAGE 14				72,500.00
	FROM PAGE 15				31,780.00
	Allow for Mechanical works (internal plumbing and drainage)				500,000.00
	TOTAL FOR ELEMENT NO. 9 (BUILDERS WORK IN CONNECTION WITH SPECIALIZED WORKS) CARRIED TO SUMMARY				604,280.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 10				
	EXTERNAL SOIL DRAINAGE				
A	Excavate trench for drain pipe average 1000 mm deep				
11		45	T	140	6. 2 00
	part return, fill and ram and part cart away from site	45	Lm	140	6,300
В	100 mm diameter heavy duty drain pipe laid in trench	45	Lm	600	27,000
С	$600 \times 450 \times 1000$ mm average deep manhole including				
	precast concrete cover with mild steel angle framing	9	No	3,500	31,500
	Septic tank size 7.6 m long x 3.5 m wide x 2.5m deep				
D	Excavate pit for septic tank not exceeding 1.5 m deep	40	Cm	240	9,600
Е	Ditto 1.5 - 3.0 m deep	27	Cm	280	7,560
F	Extra cover for rock excavation	35	Cm	600	21,000
G	Return, fill and ram	12	Cm	90	1,080
Н	Cart away suprlus excavated material from site	35	Ст	140	4,900
I	50 mm thick approved murram blinding to receive surface				
	bed	14	Sm	70	980
J	Mass concrete (1:3:6) in 150 mm surface bed	14	Sm	1,400	19,600
K	Mass concrete (1:4:8) in 450 x 600 x 230 mm average				
	high bending	2	No	3,500	7,000
L	Reinforced concrete (1:2:4) in 125 mm cover slab	27	Sm	1,500	40,500
М	Ditto scum baffles	6	Cm	14,000	84,000
	Total carried to collection				261,020

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Sawn formwork to:				
A	Soffites of suspended slab	27	Sm	365	9,855
В	Sides and soffites of scum baffle	9	Sm	365	3,285
С	Edges of cover slab 75 - 150 mm high	14	Lm	100	1,400
D	Box out formwork to form opening size 600 x 450 mm	4	No	240	960
	High yield reinforcement bars				
Е	8 mm diameter bars	135	Kg	150	20,250
F	12 mm ditto	145	Kg	150	21,750
G	10 mm ditto	120	Kg	150	18,000
Н	200 mm coral block walling	62	Sm	1,500	93,000
I	600 x 450 x 50 mm pre cast concrete cover with				
	$50 \times 50 \times 3$ mm angle framing all round	4	No	3,500	14,000
J	15 mm thick cement sand (1:3) plaster internally and				
	externally	86	Sm	250	21,500
K	20 mm step iron coated with bitumen	7	No	450	3,150
	Soak pit 2 m diameter x 4.5 m deep				
L	Excavate pit not exceeding 1.5 m deep	7	Cm	250	1,750
М	Ditto 1.5 - 3.0 m deep	7	Cm	260	1,820
N	Ditto 3.0 - 4.5 m deep	7	Cm	270	1,890
0	Extra over for rock excavation	20	Cm	600	12,000
Р	Cart away surplus excavated material from site	20	Cm	150	3,000
Q	Mass concrete (1:3:6) in strip foundation	2	Cm	8,500	17,000
R	Reinforced concrete (1:2:4) in 125 mm cover slab	4	Sm	1,350	5,400
	Total carried to collection				250,010

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Sawn formwork to:				
A	Soffites of suspended slab	4	Sm	350	1,400
В	Edges of cover slab 75 - 150 mm high	8	Lm	100	800
С	Box out formwork to form opening size 600 x 450 mm	1	No	250	250
D	10 mm diameter high yield reinforcement bars	40	Kg	135	5,400
Е	200 mm coral block walling	15	Sm	1,200	18,000
F	15 mm thick cement sand (1:3) plaster externally	8	Sm	250	2,000
G	600 x 450 mm pre cast concrete cover a.b.d	1	No	3,500	3,500
Н	Approved hardcore filling	20	Cm	1,500	30,000
	<u>Testing</u>				
I	Allow for testing of drainage system to the satisfaction of				
	the project manager	1	Item	2,000	2,000
	Total carried to collection below				63,350
	COLLECTION				
	Brought forward from page / 16				261,020
	Brought forward from page / 17				250,010
	Brought down from above				63,350
	TOAL OF EXTERNAL SOIL DRAINAGE				
	CARRIED TO SUMMARY				574,380

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SECTION SUMMARY				
1	SUBSTRUCTURES FROM PAGE	3			2,319,312
2	REINFORCED CONCRETE SUPERSTRUCTURE				
	FROM PAGE	4			2,076,495
3	WALLING FROM PAGE	5			727,800
4	ROOFING FROM PAGE	6			210,900
5	DOORS FROM PAGE	8			1,239,726
6	WINDOWS FROM PAGE	11			614,840
7	EXTERNAL FINISHES FROM PAGE	12			157,570
8	INTERNAL FINISHES FROM PAGE	13			1,066,498
9	BUILDERS WORK FOR SPECIALIST WORKFROM PAGE	15			105,200
10	EXTERNAL SOIL DRAINAGE	18			470,590
	SUB-TOTAL; BUILDER'S WORKS TOTAL FOR DORMITORY BLOCK TO GRAND SUMMARY				8,988,931

PROPOSED DOMITORY BLOCK AT BURA GIRLS' HIGH SCHOOL SCHEDULE 1:	ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
LIGHTING AND POWER Supply, install, trest and commission the following:		PROPOSED DOMITORY BLOCK AT BURA GIRLS' HIGH SCHO		01,11	14112	11110 0111
Supply, install, test and commission the following: 1.01 10A white moulded lighting switches as Crabtree or approved equivalent as follows: a) One gang one way		SCHEDULE 1:	•			
101 10A white moulded lighting switches as Crabtree or approved equivalent as follows: a						
equivalent as follows: a) One gang one way b) two gang two way c) Two gang one way 1.02 Lighting fittings complete with appropriate lamps as follows: a) 1200mm, 1x86W, hare hatten fluorescent fitting as THORN Cat No. PP136 or approved equivalent b) Emergency Light as CHLORIDE GENT c) 100W Spherical screwneck fitting as THORN CAT. No. MTCHOO d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLGII00 8 No 1,000 103 Lighting points in 3x1.5mm sq PVC SC Copper cables in 20mm DIA HG Conduits a) For one way switching a) For one way switching POWER CIRCUITS 104 Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 Way 100A SPEN Consumers unit complete with integral isolator without MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 2,000.00		Supply, install, test and commission the following:-				
b) two gang two way c) Two gang one way Lighting fittings complete with appropriate lamps as follows:- a) 1200mm, Ix36W, bare batten fluorescent fitting as THORN Cat No. PP156 or approved equivalent b) Emergency Light as CHLORIDE GENT c) 100W Spherical screwneck fitting as THORN CAT. No. MTCHOO d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 Lighting points in 3x1.5mm sq PVC SC Copper cables in 20mm DIA HG Conduits a) For two way switching 6 No 1,200 61,200.00 POWER CIRCUITS Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 1.04 HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 2.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.09 PWER DISTRIBUTION 1.09 Way 100A SPStN Consumers unit complete with integral isolator without MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 2,000.00 2 No. 2,000 2,000.00 2 No. 1,000 3,000.00 2 No. 2,000 2,000.00 2 No. 2,000 2,000.00 2 No. 2,000 3,000.00 2 No. 2,000 2,000.00 2 No. 2,000 2,000.00 3 No. 1,000 3,000.00 2 No. 2,000 2,000.00 3 No. 1,000 3,000.00 3 No. 2,000 2,000.00 2 No. 2,000 2,000.00 3 No. 2,000 2,000.00 4 N	1.01					
1.02 Lighting fittings complete with appropriate lamps as follows:- a) 1200mm, Ix36W, bare batten fluorescent fitting as THORN Cat No. PP136 or approved equivalent b) Emergency Light as CHLORIDE GENT		a) One gang one way	7	No.	300	2,100.00
1.02 Lighting fittings complete with appropriate lamps as follows: a) 1200mm, lx36W, bare batten fluorescent fitting as THORN Cat No. PP136 or approved equivalent b) Emergency Light as CHLORIDE GENT 4 No 6,000 24,000.00 c) 100W Spherical screwneck fitting as THORN CAT. No. MTCHOO 8,000.00 d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 d) 1,000		b) two gang two way	2	No.	450	900.00
a) 1200mm, 1x36W, hare batten fluorescent fitting as THORN Cat No. PP136 or approved equivalent b) Emergency Light as CHLORIDE GENT c) 100W Spherical screwneck fitting as THORN CAT. No. MTCHOO d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLGHOO Elighting points in 3x1.5mm sq PVC SC Copper cables in 20mm DIA HG Conduits a) For one way switching for two way switching		, ,	2	No.	450	900.00
No. PP136 or approved equivalent b) Emergency Light as CHLORIDE GENT 4 No 6,000 24,000.00	1.02	Lighting fittings complete with appropriate lamps as follows:-				
c) 100W Spherical screwneck fitting as THORN CAT. No. MTCIIOO d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100 8 No 3,500 28,000.00 1.03 Lighting points in 3x1.5mm sq PVC SC Copper cables in 20mm DIA HG Conduits a) For one way switching 36 No 1,200 61,200.00 a) For two way switching POWER CIRCUITS 1.04 Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP 3 No. 1,000 3,000.00 b) 30A SP c) 60A SP 1 No. 2,000 2,000.00			22	No.	1,500	33,000.00
MTCHOO d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLGI100 8 No 3,500 28,000.00 1.03 Lighting points in 3x1.5mm sq PVC SC Copper cables in 20mm DIA HG Conduits a) For one way switching 36 No 1,200 61,200.00 a) For two way switching 6 No 1,900 11,400.00 POWER CIRCUITS 1.04 Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&TN Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 2,000.00		b) Emergency Light as CHLORIDE GENT	4	No	6,000	24,000.00
Lighting points in 3x1.5mm sq PVC SC Copper cables in 20mm DIA HG Conduits a) For one way switching 36 No 1,200 61,200.00 a) For two way switching 6 No 1,900 11,400.00			8	No	1,000	8,000.00
HG Conduits a) For one way switching 36 No 1,200 61,200.00 a) For two way switching 6 No 1,900 11,400.00 11,400.00 POWER CIRCUITS 1.04 Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm p No 2,000 18,000.00 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA 2 No. 2,000 4,000.00 1.07 2.04 Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP 3 No. 1,000 3,000.00 b) 30A SP 3 No. 1,000 3,000.00 c) 60A SP 1 No. 2,000 2,000.00 2,000.00 c) 60A SP 1 No. 2,000 2,000.00 c) 60A SP 1 No.		d) 100W Tungsten Bulkhead fitting as THORN CAT. No. OLG1100	8	No	3,500	28,000.00
a) For two way switching POWER CIRCUITS Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&xN Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 3,000.00 c) 60A SP	1.03					
POWER CIRCUITS 1.04 Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 18,000.00 18,		a) For one way switching	36	No	1,200	61,200.00
1.04 Socket outlet points in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits 9 No 2,000 18,000.00 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 9 No 750 6,750.00 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 2 No. 2,000 4,000.00 1.07 20A Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC 10 M. 1,625 16,250.00 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1 No. 7,000 7,000.00 1.00 MCBs 3 No. 1,000 3,000.00 b) 30A SP 3 No. 1,000 3,000.00 c) 60A SP 1 No. 2,000 2,000.00		a) For two way switching	6	No	1,900	11,400.00
DIA HG PVC conduits 1.05 13A twin white moulded socket outlet plates as CRABTREE or approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA 2 No. 2,000 4,000.00		POWER CIRCUITS				
approved equivalent 1.06 Power point in 3x 2.5mm sq PVC SC Copper cables in 20mm DIA HG PVC conduits for Hand driers 1.07 20A Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 2,000.00 3 000.00 2 No. 2,000 4,000.00 4,000.00 4,000.00 4,000.00 1,400.00 1,400.00 1,400.00 1,400.00 1,400.00 1,000 1,000 3,000.00 3,000.00 2,000.00	1.04		9	No	2,000	18,000.00
HG PVC conduits for Hand driers 1.07 20A Double pole switch 2 No. 700 1,400.00 1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 2,000 2,000.00 1 No. 2,000 2,000.00	1.05		9	No	750	6,750.00
1.08 Sub-mains in 3x 25mm sq PVC SC Copper cables in 20mm DIA HG PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 1,000 3,000.00 3,000.00 2,000.00 2,000.00	1.06		2	No.	2,000	4,000.00
PVC POWER DISTRIBUTION 1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1.10 MCBs a) 10A SP b) 30A SP c) 60A SP 1 No. 7,000 7,000.00 7,000.00	1.07	20A Double pole switch	2	No.	700	1,400.00
1.09 9Way 100A SP&N Consumers unit complete with integral isolator without MCBs 1 No. 7,000 7,000.00 1.10 MCBs 3 No. 1,000 3,000.00 b) 30A SP 3 No. 1,000 3,000.00 c) 60A SP 1 No. 2,000 2,000.00	1.08		10	M.	1,625	16,250.00
a) 10A SP b) 30A SP c) 60A SP 3 No. 1,000 3,000.00 1,000 3,000.00 1,000 2,000.00	1.09	9Way 100A SP&N Consumers unit complete with integral isolator	1	No.	7,000	7,000.00
b) 30A SP 3 No. 1,000 3,000.00 c) 60A SP 1 No. 2,000 2,000.00	1.10	MCBs				
c) 60A SP 1 No. 2,000 2,000.00		a) 10A SP	3	No.	1,000	3,000.00
c) 60A SP 1 No. 2,000 2,000.00		b) 30A SP	3	No.	1,000	3,000.00
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE 230,900.00		,	1			2,000.00
	TOTAL	CARRIED FORWARD TO PRICE SUMMARY PAGE				230,900.00

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1.12	25mm sq 2Core PVC/SWA/PVC Copper cable	100	M.	1,260	126,000.00
1.12	Standard MOPW cable Loop- in- Box 18Gauge	1	lot	4,500	4,500.00
1.13	60/80A Cut out complete with Lucy connectors	1	No.	2,000	2,000.00
1.14	Earthing at Loop- in -Box MOW requirements	1	No.	1,500	1,500.00
TOTAL CARRIED FORWARD TO PRICE SUMMARY PAGE					134,000.00

ITEM	DESCRIPTION	OTV	UNIT	RATE	AMOUNT
		1 011	UNII	KAIL	AMOUNT

PRICE SUMMARY PAGE

ITEM	DESCRIPTION	KSHS
1	Total for schedule 1	
1	Total for schedule 2	
2	CONTINGENCY SUM:	
	TOTAL CARRIED FORWARD TO FORM OF TENDER	

TOTAL AMOUNT IN WORDS : - Kenya Shillings	
Tenderer's Name and Stamp	
Signature Date	
PIN NoVAT Certificate No	
Witness Address	
Signature of Witness	

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	PRIME COST AND PROVISIONAL SUMS	QII	CIVII	KIIL	THIVECTVI
	Prime cost				
A	Provide a prime cost sum of Kenya shilings Two hundred and fifty				
	thosuand for plumbing works				250,000
В	Provide a prime cost sum of Kenya shilings One hundred and Seventy				
	thousand for Supply and commissioning of fire extinguishers				170,000
	Provisional sums				
С	Provide a provisional sum of Kenya shilings Two hundred thousand for contigencies				200,000
D	Provide a provisonal sum of Kenya shilings two hundred and Fifty				
	thousand for project management				250,000
Е	Provide 95 double decker beds @kshs.15,000 each				1,425,000
	TOTAL OF PRIME COST AND PROVISIONAL SUMS CARRIED TO MAIN SUMMARY				2,295,000
	SUMS CARRIED TO MAIN SUMMART		L	L	2,293,000

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SECTION SUMMARY				
1.00	SUBSTRUCTURES FROM PAGE	3			2,673,765.00
2.00	REINFORCED CONCRETE SUPERSTRUCTURE FROM PAGE	4			2,106,885.00
3.00	WALLING FROM PAGE	5			938,570.00
4.00	ROOFING FROM PAGE	11			203,500.00
5.00	DOORS FROM PAGE	14			438,475.00
6.00	WINDOWS FROM PAGE	16			687,540.00
7.00	EXTERNAL FINISHES FROM PAGE	17			149,120.00
8.00	INTERNAL FINISHES FROM PAGE	19			997,540.00
9.00	BUILDERS WORK FOR SPECIALIST WORKFROM PAGE	21			604,280.00
10.00	EXTERNAL SOIL DRAINAGE				574,380.00
	SUB-TOTAL; BUILDER'S WORKS TOTAL FOR DORMITORY BLOCK TO GRAND SUMMARY			9,374,055.00	

GRAND SUMMARY PAGE

ITEM	DESCRIPTION	Kshs	CTS	Kshs	CTS
	GRAND SUMMARY PAGE NO	FOR OFFICIAL USE		FOR CONTR.USE	
A	PARTICULAR AND GENERAL PRELIMINARIES			400,000.00	
В	TOTAL OF BUILDERS WORKS			9,374,055.00	
С	TOTAL OF ELECTRICAL WORKS			-	
D	P.C. AND PROVISIONAL COST SUMS			2,295,000.00	
	SUB- TOTAL			12,069,055.00	
D	ADD 16% V.A.T			1,931,048.80	
	CARRIED TO FORM OF TENDER			14,000,103.80	

Name of Contractor
Address
Date
01
Signature
Witness Name
Witness Name
Address
Address
Date
Date
Signature
Jignature

GS/1





