



REPUBLIC OF KENYA

**MINISTRY OF TRANSPORT AND INFRASTRUCTURE
DEPARTMENT OF PUBLIC WORKS**

BILLS OF QUANTITIES

FOR

PROPOSED CONSTRUCTION OF 1NO. CLASSROOMS.

AT

DEMESI JUNIOR SECONDARY SCHOOL

IN

SABATIA SUB-COUNTY

**ISSUED BY:
COUNTY WORKS OFFICER
DEPARTMENT OF PUBLIC WORKS
P. O. BOX 1460
MARAGOLI.**

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

NOVEMBER, 2023

BILL NO.1

MEASURED WORKS

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
RENOVATION OF 4NO.CLASSROOMS					
ELEMENT NO.1					
DEMOLITION					
A	Demolish the existing old roof and keep them safe for use elsewhere (approx 418sqm)	1	ITEM	20000	20000
B	Carefully demolish all identified unnecessary partitions to allow more classroom space	1	ITEM	10000	10000
C	Hack off the worn out floor and cart away the debris(approx 288sqm)	1	ITEM	10000	10000
Carried to collection					40,000.00

SPS/ 1

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 2 VERANDAH AND PAVEMENT				
A	Approved hardcore filling hand parked	68	SM	300	20,400.00
B	50mm murrum blinding	68	SM	250	17,000.00
C	Concrete vibrated 1:2:4 / 20-20mm aggregate in 150mm thick floor slab	68	SM	300	20,400.00
D	Sawn formwork to edges of floor slab 75-150mm high	48	LM	250	12,000.00
E	100mm diameter RSH in verandah	15	NO	1000	15,000.00
F	Prepare and apply 3 coats gloss oil paint to general surface of metal	15	NO	150	2,250.00
Carried to collection					87,050.00

SPS/ 2

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 4 Plinth area finishes				
A	12mm Thick cement and sand (1:3) wood float render to plinth area	30	SM	300	9,000.00
B	Prepare and apply three coats black bitumastic paint to rendered area	30	SM	150	4,500.00
Carried to collection					13,500.00

	COLLECTION			
	Brought forward from page	SPS/ 1		40,000.00
	Brought forward from page	SPS/ 2		87,050.00
	Brought down from page	SPS/ 3		13,500.00
	TOTAL FOR ELEMENT NO. 1 DEMOLITION AND BULDING WORKS			140,550.00

SPS/ 3

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO.5				
	R.C. FRAME				
	Vibrated reinforced concrete (1: 2:4/20 - 20mm aggregate) as described in:-				
A.	Ringbeam/beams	5	CM	5000	25,000.00
	Steel reinforcement				
	Supply and fix steel bar/rod reinforcement including bending hooks tyingwire cutting spacer blocks and supporting all in position				
	High tensile square twisted bars to B.S. 4461 as described in ;				
B	12 mm diameter	289	KG.	150	43,350.00
C	8 mm diameter	266	KG.	150	39,900.00
	Sawn formwork as described to:				
D.	Sides and soffites of beams	124	SM	150	18,600.00
Carried to collection					126,850.00

	COLLECTION			
	Brought forward from page	SPS/ 4		126,850.00
	TOTAL FOR ELEMENT NO. 5			126,850.00
	R.C. FRAME			
	CARRIED TO SUMMARY			

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
A	ELEMENT NO. 6				
	EXTERNAL WALLING Extra over walling for eaves closing	270	LM	200	54,000.00
<i>Carried to collection below</i>					54,000.00

	COLLECTION				
	Brought down from page	SPS/ 5	Above		54,000.00
	TOTAL FOR ELEMENT NO.6				54,000.00
	EXTERNAL WALLING				
	CARRIED TO SUMMARY				

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO.7				
	ROOFING				
	Construction				
	All timber to be sawn cypress of G.S. grade seasoned to an equilibrium moisture content of between 9% and 15% and to the requirement of K.S. 02 771 of 1991 treated with approved wood preservative				
A.	100 x 50mm Wall plate on and including 10mm cement and sand (1:4) mortar bed secured to reinforced concrete ringbeam(m.s.) by black mild steel anchor bolts (m.s.)	103	LM	300	30,900.00
	The following in 16 No. Nailed timber trusses spanning clear 5200mm (average) height 1350mm including hoisting and placing 3000mm above floor slab level				
B.	100 x 50mm Trussed rafter	525	LM	300	157,500.00
C.	100 x 50mm Tie beam	293	LM	250	73,250.00
D.	100 x 50mm Strut/tie	443	LM	250	110,750.00
Carried to collection					372,400.00

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO.8 Independent members				
A	75x 50mm purlins	417	LM	250	104,250.00
	Covering				
B	Gauge 30"GCI" Pre-painted sheet roofing fixed on purlins(m.s.)	418	SM	1000	418,000.00
C	Gauge 30 Ridge capping to match covering	37	LM	150	5,550.00
	Wrot cypress				
D	25 x 225mm Fascia board fixed to end of rafters(m.s)	127	LM	250	31,750.00
	Painting				
	Prime only back of wood before fixing				
E	Surfaces 100-200mm girth	127	LM	150	19,050.00
	Knot prime stop and apply one under coat and two finishing coats gloss oil paint to;				
F	General surfaces of wood 200 - 300mm girth	169	LM	150	25,350.00
Carried to collection					603,950.00

RENOVATION OF 4NO. CLASSROOM

	COLLECTION	
	Brought forward from page	90,000.00
	Brought forward from page	603,950.00
	TOTAL FOR ELEMENT NO.8 ROOFING AND RAINWATER WATER GOODS CARRIED TO SUMMARY	693,950.00

SPS/ 8

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 9				
	WINDOWS				
A	Supply and fix steel cas wingow as per 1500 x 1200 sized Glazing 5mm thick clear sheet glass in metal putty in;-	20	NO	4000	80,000.00
B	Panes exceeding 0.1 sq m but not exceeding 1.5 Window Cill	36	SM	1000	36,000.00
C	Ex. 250 x 75mm Thick precast concrete window cill weathered and throated, reinforced as necessary , finished fair faced including hoisting and bedding in cement and sand (1:3) mortar	88	LM	200	17,600.00
Carried to collection					133,600.00

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	Painting				
	Prepare and apply one under coat and two finishing gloss oil paint to ;				
A.	General surfaces of (windows) internally/ external	197	SM	150	29,550.00
B	Provide for pvc gutters and its accessories around the structure including erection of 10,000L tank.		ITEM	85,000	85,000.00
Carried to collection					114,550.00

SPS/10					
	COLLECTION				
	Brought forward from page	SPS/ 9			133,600.00
	Brought Down from page	SPS/ 10	Above		114,550.00
	TOTAL FOR ELEMENT NO.9 WINDOWS CARRIED TO SUMMARY				248,150.00

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO.10				
	DOORS				
A	Metal doors Supply and fix 900mm x 2100mm steel door to demolisher door oppenings	4	NO	10000	40,000.00
B	Painting General surfaces of Metal	8	SM	150	1,200.00
Carried to collection					41,200.00

	COLLECTION			
	Brought down from page	SPS/ 12	Above	41,200.00
	TOTAL FOR ELEMENT NO. 10			41,200.00
	DOORS			
	CARRIED TO SUMMARY			

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	ELEMENT NO. 11				
	FINISHES				
	Floors and Skirtings				
	In situ cement and sand (1:3) screeded beds, with steel trowelled finish , on concrete				
A.	20mm Thick backing finished with a wood float steel trowelled smooth	270	SM	300	81,000.00
	EXTERNAL WALL FINISHES				
	External walls				
	12mm thick cement, sand render, with wood float finish, as described to:-				
B	Walls/Concrete surfaces of beams	270	SM	200	54,000.00
	Painting and decorating				
	Prepare and apply one undercoats and two finishing coats exterior quality plastic emulsion paint on :-				
C	Rendered concrete surfaces and walls externally	270	SM	150	40,500.00
Carried to collection					175,500.00

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
	INTERNAL WALL FINISHES				
	Internal walls				
	12mm thick cement, sand and lime plaster, with steel trowelled finish, as described to:-				
A.	Walls Painting and decorating	378	SM	200	75,600.00
	Prepare and apply one undercoats and two finishing coats plastic emulsion paint on :-				
B.	Plastered walls and beams	378	SM	200	75,600.00
<i>Carried to collection</i>					151,200.00

	COLLECTION				
	Brought forward from page	SPS/ 13			175,500.00
	Brought down from page	SPS/ 14			151,200.00
	TOTAL FOR ELEMENT NO. 11 FINISHES				326,700.00
	CARRIED TO SUMMARY				

RENOVATION OF 4NO. CLASSROOM

NO.	SUMMARY ELEMENT	
1	DEMOLITION AND BUILDING WORKS	SPS/4 140,550.00
2	RC FRAMES	SPS/5 126,850.00
3	EXTERNAL WALLING	SPS/6 54,000.00
4	ROOFING	SPS/9 693,950.00
5	WINDOWS	SPS/11 248,150.00
6	DOORS	SPS/12 41,200.00
7	FINISHES	SPS/14 326,700.00
	<i>CARRIED TO GRAND SUMMARY</i>	1,631,400.00

RENOVATION OF 4NO. CLASSROOM

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	KSHS
A.	PC AND PROVISIONAL SUMS Allow a provisional sum of Kenya Shillings fifty thousand 50,000) for Contingencies,				
			SUM		50,000.00
B	Allow a provisionanal sum of kenya shillings fifty thousand shillings for supervision.				
			SUM		50,000.00
C	Allow a provisional sum of Kenya Shillings seventy Thousand (70,000.00) only for Electrical testing and repair				
			SUM		70,000.00
Carried to collection					170,000.00

	Brought Down from Page No. PC/ 1 Above				170,000.00
	TOTAL FOR PC AND PROVISIONAL SUMS				170,000.00 !
	CARRIED TO GRAND SUMMARY				

GRAND SUMMARY

ITEM	DESCRIPTION		
1	BUILDING WORKS	SPS	1,631,400.00
2	PROVISIONAL SUMS	PS/1	170,000.00
3	SUB-TOTAL 1		1,801,400.00
4	ADD 16% V.A.T		288,224.00
TOTAL FOR WORKS			2,089,624.00

NAME OF TENDERER.....

ADDRESS.....

SIGNATURE.....

DATE.....

NAME OF WITNESS.....

ADDRESS.....

SIGNATURE.....

DATE.....