



REPUBLIC OF KENYA

DEPARTMENT OF PUBLIC WORKS

PROPOSED ERECTION & COMPLETION

OF

KITCHEN & DINING HALL

AT

MERILE MIXED SECONDARY SCHOOL

(PHASE I)

LAISAMIS NG-CDF

BILL OF QUANTITIES

PREPARED AND ISSUED BY

SUB COUNTY WORKS OFFICER

MARSABIT

Nov-20

Proposed Kitchen and Dining Hall
(Phase I)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUBSTRUCTURES (ALL PROVISIONAL)				
A.	Excavate over site average 200 mm deep to remove vegetable soil, wheel deposit on site as directed.	384	SM	160	61,440
B	Excavate from stripped level to reduce levels but not exceeding 1.5 meters deep	73	CM	800	58,400
C	Return, fill material and compact in layers not exceeding 150mm high.	36	CM	200	7,200
	Fillings				
D	50mm thick approved muram or quarry dust blinding to hardcore	300	SM	100	30,000
E	250mm thick approved hardcore filling consolidated and laid in layers of 150mm	300	SM	400	120,000
	ANTI-TERMITE TREATMENT				
	Gladiator T.C.: 2% Solution At the rate of 5Litres per square metre To hardcore (m.s)beds and tops of foundations walls	300	SM	350	105,000
G	Load and cart away	36	CM	200	7,200
	Damp proofing				
H	500 gauge polythne or other equal and approved plastic sheet damp proof membrane laid horizontally over blinding with 300mm side and end laps.	300	SM	200	60,000
	Lean concrete 1:4:8				
J	50mm thick lean concrete blinding (1:4:8) class Q in foundation trench	4	CM	10,000	40,000
	carried to collection				489,240

Proposed Kitchen and Dining Hall
(Phase I)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Vibrated reinforced concrete(1:2:4) Class 20/20 in :-				
A	Foundation bases	19	CM	15,000	285,000
B	150mm thick in surface slab	300	SM	2,250	675,000
	Reinforcement				
C	12mm diameter reinforcement square twisted high yield mild steel bars to B.S 4461	303	KG	200	60,600
D	10mm diameter reinforcement square twisted high yield mild steel bars to B.S.4461	144	KG	200	28,800
	B.R.C MESH FABRIC				
	Steel mesh fabric ref No. A142 weighing 2.22kg per square meter laid in surface bed				
E	Measured net.	300	SM	500	150,000
	Sawn formwork				
F	Sawn formwork to edge of surface bed over 75mm and not exceeding 150mm girth	94	LM	200	18,800
	Natural stone walling laid and jointed in cement sand (1:4) mortar and reinforced with 25mm wide hooping iron at each alternative course				
G	200mm thick walling	141	SM	2,050	289,050
	Hessian based bituminous felt damp Proof course to B.S 473 and setting in cement sand(1:4) mortar				
H	200mm wide including leveling bed	102	LM	150	15,300
J	150mm wide including leveling bed	16	LM	120	1,920
					1,524,470
	Collection				
L	Brought forward from page 2				489,240
M	Brought forward from above page 3				1,524,470
	carried to summary				2,013,710

Proposed Kitchen and Dining Hall
(Phase I)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUPERSTRUCTURES				
	WALLING				
	Vibrated reinforced concrete (1:2:4) class 20/20 in				
A.	Ring beams	6	CM	15,000	90,000
	High yield steel reinforcement bars to B.S. 4461 including ties				
B.	12mm diameter reinforcement bars	432	KG	200	86,400
C.	8mm diameter reinforcement bars	135	KG	200	27,000
	sawn cypress formwork to:-				
D.	vertical sides of ring beams	49	SM	1,200	58,800
E.	Soffits of ring beams	7	SM	1,200	8,400
	Natural stone walling laid and jointed in cement sand (1:4) mortar and reinforced with 25mm wide hooping iron at each alternative corner				
F.	200mm thick walling	309	SM	2,050	633,450
G.	150mm thick walling	50	SM	2,000	100,000
J.	Fair rake cutting on 200mm walling	21	LM	450	9,450
	carried to summary				1,013,500

Proposed Kitchen and Dining Hall
(Phase I)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ROOFING The following in second grade celcured sawn cypress, pressure impregnated treated with wood preservative				
A	200x25mm fascia and verge board	112	LM	450	50,400
B	100x50mm wall plate	78	LM	450	35,100
C	150x50mm rafters	388	LM	650	252,200
D	100x50mm struts and ties	512	LM	450	230,400
E	150x50mm tie beams	381	LM	450	171,450
F	75 x50mm purlins	528	LM	400	211,200
	ROOF COVERING 28 gauge prepainted g.c.i roofing sheets laid on purlins (m.s) with 75side and 150mm top and bottom laps.				
G		405	SM	1,200	486,000
H	28 gauge ditto Ridge cap	31	LM	600	18,600
	carried to summary				1,455,350

Proposed Kitchen and Dining Hall
 (Phase I)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>PROVISIONAL SUMS</p> <p>Allow for a provisional sum of Twenty Thousand for Branding as directed by the Project Manager.</p>	1	Item		20,000
	carried to summary				20,000

Proposed Kitchen and Dining Hall
(Phase I)

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUMMARY				
A	Substructures				2,013,710
B	Walling				1,013,500
C	Roofing				1,455,350
D	Provisional sums				20,000
E	GRAND SUMMARY				4,502,560