

BILL NO. 2

MILKING PARLOUR

Item	Description	UNIT	QTY	RATE	AMOUNT
	MILKING PARLOUR <u>SUBSTRUCTURES (All Provisional)</u> Excavations and Earthworks				
A	Excavate oversite average 200mm deep to remove vegetable soil, load, wheel and deposit 100 meters away and later spread and level on site where directed	SM	225	50	11,250
B	Excavate to reduce levels starting from stripped level and column pits not exceeding 1.5M deep.	CM	119	220	26,180
C	Trim and prepare bottoms of excavations to receive	SM	51	100	5,100
D	Remove surplus excavated material and cart away	CM	60	200	12,000
E	Return fill and ram selected excavated material around foundations	CM	35	435	15,225
F	Disposal of Surface water. Provisional Sum.	Item	1	10,000	10,000
	Fillings				
G	300mm thick approved hardcore filling spread, levelled, well rammed and consolidated in 150mm thick layers to receive concrete surface bed.	SM	100	1,300	130,000
H	Level and blind surface of hardcore with 50mm quarry dust to receive concrete surface bed.	SM	100	100	10,000
I	Anti-termite treatment as "Premise 200 sc" distributed by High Chemicals essentials or other equal and approved applied to surface of blinded hardcore and surrounding areas strictly in accordance with manufacturer's instructions (subject to a TEN (10) YEAR GUARANTEE to the satisfaction of the Architect.)	SM	100	175	17,500
J	Make up Levels average thickness not exceeding 250 mm.	CM	2	875	1,750
K	Mass Concrete class 15/20 50mm Thick blinding: under strip foundations and pad footings	SM	62	435	26,970
	CARRIED TO COLLECTION FOR SUBSTRUCTURES				265,975

	MILKING PARLOUR <u>SUBSTRUCTURES CONTINUED</u>	UNIT	QTY	RATE	AMOUNT
A	Vibrated reinforced concrete class 20/20mm in:- Strip foundation	CM	11	11,500	126,500
B	150mm thick ground floor slab	SM	100	1,150	115,000
C	Column bases	CM	4	11,500	46,000
D	Stub column	CM	1.5	11,500	17,250
E	Sawn formwork to: Sides of strip foundations	SM	34	350	11,900
F	Edge of floor bed 75-150mm high	SM	6.5	100	650
	Reinforcement				
G	Fabric Mesh reinforcement Fabric mesh reinforcement to B.S. 4483 ref: A93 weighing 2.22 Kg per square metre in floor slab (measured nett - no allowance for minimum 230mm laps) including tying wire and supports as required	SM	100	240	24,000
	Bases High yield reinforcement bars Y 12	KG	150	147	22,050
	Stub Column High yield reinforcement bars Y12	KG	111	147	16,317
	Stub Column High yield reinforcement bars Y8	KG	81	147	11,907
	Strip Footing High yield reinforcement bars Y8	KG	120	147	17,640
	Y10 High yield reinforcement bars	KG	182	147	26,754
	Ground Beam High yield reinforcement bars Y12	KG	345	147	50,715
	Ground Beam High yield reinforcement bars Y8	KG	180	147	26,460
	Columns High yield reinforcement bars Y12	KG	133	147	19,551
	Columns High yield reinforcement bars Y8	KG	54	147	7,938
	CARRIED TO COLLECTION FOR SUBSTRUCTURES				540,632

Foundation Walling					
A	Rough dressed natural stones or other equal and approved bedded and jointed in cement sand mortar (1:4): 225mm thick walls	SM	111	1,300	144,300
B	Concrete Class 20/20 for Ground Beam	CM	7	11,500	80,500
C	Hessian based bituminous felt or any other equal and approved damp proof course: Horizontal: 200mm wide.	LM	84	100	8,400
D	1000mm gauge polythene dump proof membrane with 300mm welted lap under concrete, on blinded hardcore	SM	100	200	20,000
Plinths					
E	12mm thick mortar cement and sand (1.4) rendered to plinths	SM	100	300	30,000
CARRIED TO COLLECTION FOR SUBSTRUCTURES					283,200

COLLECTION – MILKING PARLOUR SUBSTRUCTURES	Amount Kshs
Brought forward from page 2	265,975
Brought forward from page 3	540,632
Brought forward from page 4	283,200
TOTAL FOR MILKING PARLOUR SUBSTRUCTURES CARRIED TO SUMMARY	1,089,807

Item	Description	UNIT	QTY	RATE	AMOUNT
	MILKING PARLOUR SUPERSTRUCTURE Walling				
A	Masonry walls bedded and jointed in cement and sand (1:4) mortar in: 200mm thick walls reinforced with 32x2mm hoop iron every alternate course	SM	103	1,500	154,500
B	Provide 100mm pipe vents in beam above all doors and Windows with wire gauze and 25mmx400mm approximately in all windows upper middle compartment as permanent ventilation	No.	8	435	3,480
	Ring Beam				
C	Ring Beam High yield reinforcement bars Y12	KG	169	147	24,843
D	Ring Beam High yield reinforcement bars Y8	KG	71	147	10,437
E	Concrete Class 20/20 for Ring Beam	CM	4	11,500	46,000
	Form Work				
F	Sawn Formwork for Lintels	SM	50	350	17,500
	TOTAL FOR WALLING CARRIED TO SUMMARY				256,760

Item	Description	UNIT	QTY	RATE	AMOUNT
	MILKING PARLOUR <u>ROOF CONSTRUCTION</u> The following in assorted timber trusses hoisting and fixing in position 2500 mm above ground floor include all necessary jointing				
A	150x50 Rafters (Top Member) and Tie Beam	LM	138	300	41,400
B	100x50 Struts	LM	50	250	12,500
	Purlins				
C	75X50 Purlins	LM	216	200	43,200
	Ridge Board				
D	225x25mm Ridge Board	LM	14	350	4,900
	Wall plate				
E	100X50 Wall plate	LM	28	250	7,000
	Fascia Board				
F	200x25mm Fascia board	LM	45	250	11,250
	IT4 Sheets				
G	28 gauge roof covering sheets fixed onto timber purlins (m.s)	SM	123	700	86,100
G	Matching ridge capping	LM	15	400	6,000
	TOTAL FOR ROOF CONSTRUCTION CARRIED TO SUMMARY				212,350

Item	Description	UNIT	QTY	RATE	AMOUNT
	MILKING PARLOUR EXTERNAL OPENINGS Doors				
	Steel casement door				
A	Double leaf steel casement door size 2400x2100mm high (D1- External Door)	No.	1	39,400	39,400
B	Single steel casement door size 900x2100mm high (D2- Internal Door)	No.	4	14,750	59,000
C	Ironmongery Supply the following items of ironmongery with matching screw stall as "union" or any other equal and approved (Provisional)	Item	1	17,500	17,500
D	Painting Prepare and apply two undercoats one finishing coat gloss oil paint (Provisional)	Item	1	17,500	17,500
E	Windows (Provisional) Supply and fix steel casement windows consisting of standard angle iron section frames and square rods primed with one coat red oxide complete with steel metal hood permanent vents with nylon mosquito gauze including all ironmongery, standard metal glazing bars, clips coupling, mullions and transom fixing lugs and screw to walling and pointing all around frame	Item	1	43,500	43,500
F	Glazing (Provisional) 5mm thick clear sheet glass and glazing to metal in metal putty in panes 0.10-0.50 square meters	Item	1	17,500	17,500
G	Curtain rods (Provisional)	Item	1	3,000	3,000
H	Painting (Provisional) Touch up manufactures priming coat prepare and apply two undercoats and one finishing coat gloss oil paint to Glazed metal surface (measured over glass)	Item	1	4,000	4,000
	CARRIED TO COLLECTION FOR EXTERNAL OPENINGS				206,000

Item	Description	UNIT	QTY	RATE	AMOUNT
	MILKING PARLOUR FINISHES (provisional)				
	Internal wall finishes				
A	40mm thick 1:4 cement sand render to wall	Item		15,000	15,000
B	10mm thick cement screed to Wall	Item		13,500	13,500
C	Painting <u>Prepare</u> and apply three coats first quality plastic <u>emulsion</u> paint to <u>internal</u> walls	Item		5,000	5,000
	External wall finishes				
D	40mm thick 1:4 cement sand render to ring beam	Item		5,000	5,000
E	Painting <u>Prepare</u> and apply three coats first quality plastic <u>emulsion</u> paint to <u>ring beam</u>	Item		5,000	5,000
	TOTAL FOR WALL FINISHES CARRIED TO SUMMARY				43,500

Floor finishes					
F	40mm thick 1:4 cement sand render to floor	Item		25,000	25,000
G	5mm thick cement screed to floor	Item		15,000	15,000
H	Ditto, but 100mm high skirting	Item		3,500	3,500
TOTAL FOR FLOOR FINISHES CARRIED TO SUMMARY					43,500

Commented [EF1]: what does this mean here?

Ceiling finishes in cold room/office (Provisional)					
A	Suspended ceilings 50x50mm Branderling on trusses at 600mm c/c to receive ceiling board	Item		12,500	12,500
B	12mm soft board suspended at height of 2700mm above and finished floor level	Item		25,000	25,000
C	Painting <u>Prepare</u> and apply three coats first quality plastic emulsion paint to <u>ceiling board</u>	Item		12,500	12,500
	TOTAL FOR CEILING FINISHES CARRIED TO SUMMARY				50,000

D	Electrical installation works (Provisional)	Item	1	129,500	129,500
E	Mechanical works (Provisional)	Item	1	175,000	175,000

COLLECTION – MILKING PARLOUR	Amount Kshs
SUBSTRUCTURES total from page 5	1,089,807
WALLING total from page 6	256,760
ROOF CONSTRUCTION total from page 7	212,350
EXTERNAL OPENINGS total from page 8	201,400
WALL FINISHES total from page 9	43,500
FLOOR FINISHES total from page 10	43,500
CEILING FINISHES total from page 11	50,000
ELECTRICAL INSTALLATION WORKS total from page 11	129,500
MECHANICAL WORKS total from page 11	175,000
SUB TOTAL	2,201,817
ADD 10% CONTINGENCY	220,18,.70
TOTAL MILKING PARLOUR TO BE CARRIED FORWARD TO GRAND SUMMARY	2,421,998.70