

**KAMAKWA PIPES STORE - LOT 1A**

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
<b>1.00</b>	<b>BILL 1 - PRELIMINARY AND GENERAL ITEMS</b>				
	<i>Provisional Sums ( Special requirements)</i>				
A	Provide Kshs. 100,000 for site setup establishment and removal on completion. Mobilization and demobilization of equipment and personel and disposal of all waste material away from site as directed by the project Engineer.	Ls	1.0		
B	Provide Kshs. 20,000 for any costs associated with compliance with Environmental ,Health and Safety requirements.	Ls	1.0		
C	Add 10% for contractor's Markup on provisional sum for items A&B above	%			
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ITEM	DESCRIPTION	UNIT	QTY	RATE (Kshs)	AMOUNT (Kshs)
<b>2.00</b>	<b>2.00: SUBSTRUCTURE</b>				
	<b>ELEMENT NO. 1</b>				
	<b>SUBSTRUCTURE (ALL PROVISIONAL)</b>				
A.	Excavate oversite average 150 mm deep to remove vegetable top soil and including cutting of shrubs, bushes and trees less than 0.5m diameter all to specifications and cart away to an approved Tip by Local Authority.	S.M.	312		
	<b>Excavations including maintaining and supporting sides, keeping free from water, mud and fallen</b>				
B.	Excavate to reduced level soil in the building area to average depth 1 m from the stripped level and cart to spoil/stock pile for re-use.	C.M.	180		
C.	Foundation trenches 0 - 1.50 m deep from reduced levels.	C.M.	46		
D.	For Column Bases 0 - 1.50 m deep from reduced levels.	C.M.	80		
E.	Extra over excavation for excavating in Hard rock.	C.M.	4		
F.	Ditto Soft Rock	C.M.	4		
	<b>Disposal</b>				
G.	Backfill selected excavated or imported materials to fill the uneven ground surface and around the foundations ( Rate to include the cost of mechanical compaction to 100% MDD)	C.M.	120		
H.	Load, wheel and deposit surplus excavated materials to an approved dumping site by Local Authority	C.M.	120		
I.	300 mm Thick layers of approved hardcore filling well compacted including 50 mm murrum blinding.	S.M.	180		
	<b>Damp-proof membrane</b>				
J.	1000 Gauge polythene sheeting laid over hardcore with 300 mm side and end laps (measured nett-no allowance for laps).	S.M.	180		
	<b>Anti-termite treatment</b>				
K.	Chemical anti-termite treatment as "Gladiator" or other approved insecticide to surfaces of hardcore and tops of walls.	S.M.	180		
	<b>Concrete work</b>				
	<b>Mass concrete class 15/20 aggregate as described in:-</b>				
L.	100 mm Thick blinding under strip foundations and Bases.	S.M.	45		
	<b>Sub-Total page 02 Taken to collection page</b>				

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ITEM	DESRPTION	UNIT	QTY	RATE (Kshs)	AMOUNT (Kshs)
	<b>Reinforced concrete class 25/20 aggregate as described in:-</b>				
M.	Strip Foundation /Ground Beams	C.M.	12		
N.	Columns and Column Bases	C.M.	11		
O	150 mm Thick grade slab.	CM	29		
	<b>Reinforcement (Provisional)</b>				
	<b>High tensile steel reinforcement to B.S 4461 and 4449</b>				
P	D16 Diameter bars	KG.	262		
Q	D12 Diameter bars	KG.	720		
R	D8 Diameter bars	KG.	84		
	<b>Mesh fabric reinforcement</b>				
S	B.R.C mesh fabric reinforcement ref. A 142 laid in surfaces bed with 300 mm side and end laps (measured nett-no allowance for laps).	S.M.	180		
	<b>Sawn formwork as described to:-</b>				
T	Sides of strip foundations / ground beams	S.M.	13		
U	Sides of Columns and Column Bases.	S.M.	46		
V	Sides of grade slab 150 mm thick.	SM	14		
	<b>150mm natural and hard quarry stones to foundation walling in cement and sand (1:3) mortar and even smoothed on the both sides as described and including reinforcement at each alternate course with hoop iron all materials and workmanship to Approval of the Engineer:-</b>				
W	150 mm Thick walling reinforced at each alternate course with hoop iron.	S.M.	87		
	<b>Bituminous felt damp proof course laid on and levelled in cement sand mortar (1:4) under:-</b>				
X	150 mm Thick walls.	L.M.	58		
	<b>Paving slabs</b>				
Y	600 x 600 x 50 mm Precast concrete paving slabs bedded, jointed and grouted in cement and sand (1:1) onto and including 100mm thick compacted murrum and 150 x 50mm Precast concrete Edging.	S.M.	70		
	<b>Sub- Total Page 3 Taken to Summary Page</b>				

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3.00	<b>3.0: R. C. SUPERSTRUCTURE</b>				
	<b>Reinforced concrete class 25/20 aggregate as described in:-</b>				
A.	Beams	C.M.	14		
B.	Columns	C.M.	7		
	<b>Reinforcement (Provisional)</b>				
	<b>High tensile reinforcement to B.S. 4461 as described</b>				
C.	16mm Diameter bars	KG.	1,350		
D.	12 mm Diameter bars	KG.	216		
E	8 mm Diameter bars	KG	613		
	<b>Smooth surface Marine Ply formwork as described to:-</b>				
F	Sides and soffits of beams, ring beams and lintels.	S.M.	146		
G	Sides columns	S.M.	101		
4.00	<b>4.0: WALLING</b>				
	<b>Walling</b>				
	<b>150mm Ndarugu machine dressed natural quarry stones to walling in cement and sand (1:3) mortar to be keypointed on the external side and flash-smoothened even on the internal side as described and including reinforcement at each alternate course with hoop iron all materials and workmanship to Approval of the engineer:-</b>				
A.	150 mm Thick walling externally	S.M.	350		
B.	150 mm Ditto gable walls	S.M.	20.8		
	<b>Sub- Total Page 4 Taken to Summary Page</b>				<b>0</b>



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6.00	<b>6.0: FINISHES</b>				
	<u>Cement/sand (1:3) as described in:-</u>				
A.	50 mm Thick cement/ sand rendered floor mixed with red oxide powder	S.M.	200		
	<u>Wall finishes</u>				
	<u>Pointing</u>				
	<u>Cement/sand (1:3) steel trowelled smooth to:-</u>				
B	Flash joints internally	S.M.	348		
C.	Keyed joints externally	S.M.	348		
	<u>Emulsion paint</u>				
	<u>Prepare surface and apply one mist coat and 3 finishing coats of high quality gloss oil paint of approved colour as manufactured and supplied by CROWN PAINTS or BASCO PAINTS similar approved to:-</u>				
D	Plastered walls surfaces internally	S.M.	65		
E	Metallic surfaces	S.M.	5		
	<u>Prepare surface and apply one mist coat and 3 finishing coats of high interior quality Permacote/ Weather Guard paint of approved colour as manufactured and supplied by CROWN PAINTS or BASCO PAINTS similar approved to:-</u>				
F	Rendered walls surfaces externally	S.M.	65		
	<u>6.0 Ventilation</u>				
A.	Precast concrete vents laid in 1:3 cement mortar	S.M	13.5		
	<u>7.0 DOORS</u>				
	<u>In mild steel</u>				
A	4000 x 3000 x 3 mm high rolling door Steel casement door, with all rolling rails and rollers, fixing lugs welded together including all ironmongery, priming in CROWN ZINC chromate and 3 coats gloss painting, all to engineers details and approval.	NO.	1		
	<b>Sub- Total Page 6 Taken to Summary Page</b>				