

NYEWASCO/RFB/005/2016/2017-LOT 3

GRAND SUMMARY OF BILLS

BILL NO	DESCRIPTION	AMOUNT (KShs)
	<p>1 Kamakwa/Kandara Gravity sewer 2 Provisional Sums</p> <p>Sub-total 1</p> <p>Add 5% contingencies</p> <p>Sub-total 2</p> <p>Add 16% V.A.T</p>	
GRAND TOTAL COST CARRIED TO FORM OF TENDER		

BILL OF QUANTITY (provisional sums)

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	Prime Cost Sums for Specialized Works Allow for acquisition of land easement	Sum	Item	8,000,000	
Total Page 1 Carried to Collection Page					

KAMAKWA / KANDARA GRAVITY SEWER (EATHWORKS)					
ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
CLASS A	GENERAL ITEMS				
	Specified Requirements				
	<i>Testing of works</i>				
A1	Provide Kshs. 150,000 to Carry out testing and cleansing of the Sewers in accordance with the specifications specified in the works requirements	LS	1.00		
CLASS B	EARTHWORKS:				
	TRENCH EXCAVATIONS FOR LAYING PIPES				
	<u>Kamakwa</u>				
B1	Excavation for 800mm trench for laying of uPVC pipes to a depth n.e. 3.0m	CM	10,600.00		
	<u>Kandara</u>				
B2	Excavation for 800mm trench for laying of uPVC pipes to a depth n.e. 3.0m	CM	1,600.00		
	EXTRA EXCAVATIONS				
	Over excavations for manholes:				
B3	soft materials	CM	1,000.00		
B4	class 1 rocks	CM	50.00		
	Over excavations for trenches:				
B5	rock class 1	CM	50.00		
CLASS C	PIPE BEDDING				
C1	Provide 200mm- 300mm Approved Red soil filling compacted in layers of 150mm murrum bedding as per the design details	SM	3,000.00		
CLASS D	PIPE ANCHORAGE				
D1	Provide 200mm X 200mm insitu- reinforced concrete columns on a 500mmX500mm base for the suspended pipe sections as per the design drawings	CM	30.00		
D2	Provide 200mm X 200mm insitu-concrete columns on a 500mmX500mm base for the Kamakwa swamp area as per the design drawings	CM	50.00		
	Sub- Total 01				

GRAVITY SEWER (PIPEWORKS)					
ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
CLASS E	PIPEWORK - SEWERS				
	Provide, lay, and joint class 41 uPVC sewers in standard lengths. Rates to include for surveying and setting out excavation, shoring, disposal of excavated material backfilling of pipe trenches thereafter and cementing of new pipes to new manholes along the line				
	<u>Kamakwa</u>				
E1	150mm uPVC laid at a Depth n.e. 3.0m	LM	2,925.00		
E2	300mm uPVC laid at a Depth n.e. 3.0m	LM	2,200.00		
	200mm UPVC Laid at a Depth ne. 3.0m	LM	1,500.00		
	<u>Kandara</u>				
E2	150mm uPVC laid at a Depth n.e. 3.0m	LM	1,000.00		
CLASS F	PIPEWORK ANCILLARIES FOR BACKDROP MANHOLES				
F1	150mm uPVC DOWN PIPE	LM	50.00		
F2	300mm uPVC DOWN PIPE	LM	15.00		
F3	200mm uPVC DOWN PIPE	LM	15.00		
F5	150mm uPVC ELBOWS	NO	50.00		
F6	200mm uPVC ELBOWS	NO	15.00		
F8	300mm uPVC ELBOWS	NO	10.00		
F9	150mm uPVC TEES	NO	50.00		
F10	200mm uPVC TEES	NO	15.00		
F12	300mm uPVC TEES	NO	10.00		
F13	150mm uPVC ACCESS CUP	NO	50.00		
F14	200mm uPVC ACCESS CUP	NO	40.00		
F16	300mm uPVC ACCESS CUP	NO	10.00		
F17	HOLDERBATS	NO	150.00		
CLASS G	MANHOLES				
	<i>Reinforced concrete manholes as shown on Ring drawings in the following depth ranges, complete with Heavy duty triangular manhole cover and step irons as shown on drawings. Rates to include for excavation, shown on drawings. Rates to include for excavation, shoring, insitu concrete surround for rings and backfilling.</i>				
	<u>Kamakwa Main Trunk</u>				
	Concrete works:-				
G1	Provide 1:2:4 reinforced concrete for manhole base slab	CM	50		
G2	1220mm Dia. Ditto manhole cover slabs	NO	80		
	<u>High Tensile Steel Reinforcement to B.S. 4483</u>				
G3	Y8mm Bars	KG	808.8		
G4	Butemen Coated cast iron steps	No	400		
	<u>Walling</u>				
	<u>Concrete block walling in cement and sand (1:3)mortar:20 gauge x 25mm wide hoop iron reinforcement and column-wall ties in every alternate course: to</u>				
G5	200mm manhole walling	SM	566		
	Sub- Total 02				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	Finishes				
	Cement and Sand (1:3) Screed and Paving				
G6	30mm screeding and Paving Finished with a steel trowel including 12mm backing and 3mm finishing coat	S.M	679.2		
	Manhole covers				
G7	supply and install 560mm X 540mm high density Triangular plastic Manhole covers as per the drawings and specifications	NO	80		
	Kandara				
	Concrete works:-				
G8	Provide 1:2:4 reinforced concrete for manhole base slab	CM	40.00		
G9	1220mm Dia. Ditto manhole cover slabs	NO	40		
	High Tensile Steel Reinforcement to B.S. 4483				
G10	Y8mm Bars	KG	580		
G11	Butemen Coated cast iron steps	No	250		
	Walling				
	Medium quarry dressed stone walling in cement and				
G12	200mm manhole walling	SM	250		
	Finishes				
	Cement and Sand (1:3) Screed and Paving				
G13	30mm screeding and Paving Finished with a steel trowel including 12mm backing and 3mm finishing coat	S.M	150		
	Manhole covers				
G14	supply and install 560mm X 540mm high density Triangular plastic Manhole covers as per the drawings and specifications	NO	40		
	Kamakwa				
	Concrete works:-				
G15	Provide 1:2:4 reinforced concrete for manhole base slab	CM	172.28		
G16	1220mm Dia. Ditto manhole cover slabs	NO	180		
	High Tensile Steel Reinforcement to B.S. 4483				
G17	Y8mm Bars	KG	1819.8		
G18	Butemen Coated cast iron steps	NO	900		
	Walling				
	Concrete Block walling (Masonry) in cement and sand (1:3)mortar:20 gauge x 25mm wide hoop iron reinforcement and column-wall ties in every alternate course: to				
G19	200mm manhole walling	SM	1420		
	Finishes				
	Cement and Sand (1:3) Screed and Paving				
G20	30mm screeding and Paving Finished with a steel trowel including 12mm backing and 3mm finishing coat	S.M	1704		
	Manhole covers				
G21	supply and install 560mm X 540mm high density Triangular plastic Manhole covers as per the drawings and specifications	NO	180		
	Sub- Total 03				
	TOTAL CARRIED TO SUMMARY PAGE				