

<b>COUNTY</b>	<b>NAKURU</b>
<b>SUB-COUNTY</b>	<b>NJORO</b>
<b>WARD</b>	<b>MAUCHE</b>
<b>PROJECT</b>	<b>KAPTICH WATER PROJECT</b>
<b>SUBJECT</b>	<b>PIPING AND INSTALLATION OF AN ELEVATED STEEL</b>
<b>BILL NO 1</b>	

	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
1	<b>PIPE WORK RISING MAIN</b>				
1.1	2 “ G.I. pipes class ‘B’	No	55		
1.2	2 “ PVC pipes class ‘E’	No	250		
	<b>Total</b>				
1.3	Add 15% for fittings				
	<b>Sub total</b>				
1.4	Clear the pipeline route of all shrubs bushes and remove from site	m	1830		
1.5	Excavate pipeline trench average width 0.45m and depth between 0.75m-1m over medium ground and place the soil heap for backfilling	m	1830		
1.6	Lay ,test and commission all pipes in trench and backfill	No	1830		
1.7	Valve Chamber - Supply materials and construct a 1m x 1m valve chamber in:- raft foundation n.e. 1.0m deep, 2.56 m <sup>3</sup> reinforced concrete 1:2:4 150mm thick in foundation strip,150mm thick wall jointed on the outside and 3 coats plastered on the inside with 1:3 cement sand mortar and fabricate and fix a 0.6mx0.45m lockable 16g steel plate man hole cover.	No	3		
	<b>Sub total</b>				

	<b>TOTAL FOR RISING MAIN</b>				
<b>2</b>	<b>DISTRIBUTION MAINS</b>				
2.1	2”G.I. pipes class ‘B’	No	40		
2.2	2”PVC pipes class ‘D’	No	150		
	<b>Sub total</b>				
2.3	Add 15% for fittings				
	<b>TOTAL</b>				
2.4	Clear the pipeline route of all shrubs bushes and remove from site	m	1140		
2.5	Excavate pipeline trench average width 0.45m and depth between 0.75m-1m over medium ground and place the soil heap for backfilling	m	1140		
2.6	Lay, test and commission all PVC and G.I pipes in trench and backfill	No	190		
2.7	Valve Chamber - Supply materials and construct a 1m x 1m valve chamber in:- raft foundation n.e. 1.0m deep, 2.56 m <sup>3</sup> reinforced concrete 1:2:4 150mm thick in foundation strip,150mm thick wall jointed on the outside and 3 coats plastered on the inside with 1:3 cement sand mortar and fabricate and fix a	No	4		
	<b>Sub total</b>				
	<b>TOTAL FOR DISTRIBUTION MAINS</b>				
	<b>TOTAL FOR PIPING</b>				
	<b>BILL NO 2</b>				
<b>3</b>	<b>INSTALLATION OF ELEVATED STEEL TOWER ON A 10M HIGH STEEL TOWER TO RECEIVE 2 NO 10m<sup>3</sup> PLASTIC TANKS</b>				
	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>

3.1	Excavate foundation trench size 1.2m x 1.2m x 1.2m and cart away excavated material.	cm	8.5		
3.2	Ditto but excavation in rock	cm	1.2		
3.3	Provide and cast reinforced concrete base for foundation for the steel tower	cm	13.5		
3.4	Supply and erect 10m high steel tower. The stower should be constructed with 100m x 100m x 4mm RHS and designed considering a wind velocity of 30m/s using B>S 5950 part 1 and CP3 chapter 5 part 1	item	1		
3.5	Supply and erect steel walkway of grating type 600mm wide with hand rails.	item	1		
3.6	Supply and erect steel for frame base for tank and line base with timber planks to minimize damage to plastic tank bottom	item	1		
3.7	Supply and erect external ladder to the specification of Engineer	item	1		
3.8	Supply and install 10m <sup>3</sup> plastic tank to the platform of steel tower and including fixing the intake and off take pipes and fittings	no.	2		
3.9	Supply paints and paint steel tower with one coat of red-oxide primer at works and two coats of bright aluminium paint at works.	item	1		
3.1	Allow for plumbing works and fittings	item	1	86,000	86,000
3.11	Transport of all materials to site.	1/s	1		
	<b>TOTAL</b>				
	<b>SUMMARY</b>				
	<b>BILL NO 1</b>				
	<b>BILL NO 2</b>				
	<b>TOTAL</b>				
	<b>Add 5 % Supervision</b>				
	<b>TOTAL</b>				
	<b>Add 16% V.A.T</b>				

	<b>GRAND TOTAL</b>				







