

**TENDER NO: KCO/15/01/FY24 EXTENTION OF WATER PIPELINE FOR MAGOGONI PRIMARY SCHOOL COMMUNITY**

**BILL OF QUANTITIES**

ITEM	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b>A</b>	<b>WATER PIPELINE</b>				
<b>1</b>	<b>EARTHWORKS</b>				
1.1	Clearance of pipeline way leave, and remove material from site and dispose off, nominal: 100mm-300mm, pipeline and access track	4,100	M <sup>2</sup>		-
1.2	Excavate for water pipes in normal soil not exceeding 1.5m depth and average 600mm deep, partfill and rum remainder	1,968	M <sup>3</sup>		-
1.3	Trim Trench, Back-fill and reinstate after Pipe installation.	1,968	M <sup>3</sup>		-
1.4	Extra over excavation for excavating in rocks	590	M <sup>3</sup>		-
	<b>PIPE WORK</b>				
<b>2</b>	<b>Pipe Laying</b>				
2.1	Procure and deliver to site DN 110mm HDPE Pipes - PN 20	4,100	M		-
2.2	Procure and deliver to site DN 100mm G.I. pipe - Class B	3	Pcs		-
2.3	Distribute, lay and join in trench DN 110mm HDPE Pipes including making provision for pipe-fittings as per specifications by butt fusion method	82	Joint		-
<b>3</b>	<b>Procure pipe fittings deliver and install along the pipeline as directed by the Engineer, PN 16</b>				
3.1	Sluice valve - 4" AVK	2	Pc		-
3.2	Sluice valve - 3" AVK	1	Pcs		-
3.3	1" dia Gate valve Pegler	3	Pcs		-
3.4	1" dia G.I. Sockets	4	Pcs		-
3.5	1" dia Air Valve - Vent-o-matt	4	Pcs		-
3.6	1" dia GI Union	4	Pcs		-
3.7	110mm dia HDPE adaptor	8	Pcs		-
3.8	Thread Seal Tape	8	Pcs		-
<b>4</b>	<b>VALVE CHAMBER</b>				
4.1	Construct valve chambers with external diameter not exceeding 0.8m x 0.8m rendered both sides with a 2" Concrete beam all external, painted in blue gloss paint, to fit the required valves and connections	5	No.		-
<b>5</b>	<b>PIPELINE TESTING</b>				
5.1	Test the entire Pipeline 1½ times the normal working pressure and sterilize the Pipeline at 500m interval	1	LS		-
<b>6</b>	<b>MARKER POSTS</b>				
6.1	Fabricate mark post and place them at 200 m intervals. Inscribe with writings in term of pipe size and type, paint with 2 coat of light blue gloss paint	2	M		-
6.2	Provide for connection fee, fixed deposit and Kiosk License to the water service provider	1	No		-
<b>B</b>	<b>WATER KIOSK</b>				
7	Construction of a water kiosk with an overhead tank of 5,000 litres. Including supply and installation of all necessary pipeworks and fittings as provided in the drawing	2	LS		-
	<b>TOTAL OF WATER WORKS CARRIED TO MAIN SUMMARY</b>				-

