BILL OF QUANTITIES
AUC COMPOUND WATER SUPLY

ITEM	DESCRIPTION	UNIT	QNTY	UNIT PRICE BIRR	TOTAL BIRR
1	**Supply of GS Pipes and Fittings**				
	A. GS PIPES AND FITTINGS FOR TRANSMISSION LINE & EXPANSION WORKS				
	Supply GS pipes and fittings PN16 with coupling units and all accessories for complete installation of the lines and fittings.				
1.1	**Pressure pipes of standard 6mt length**				
1.1.1	DN76mm	m	240.00		
1.1.2	DN50mm	m	130.00		
1.2	**Fittings**				
	Bends				
1.2.1	DN76mm 90^0 bends	No	25.00		
1.2.2	DN76mm 45^0 bends	No	3.00		
1.2.3	DN50mm 90^0 bends	No	3.00		
1.2.4	DN50mm 45^0 bends	No	2.00		
	Unions				
1.2.5	DN76mm unions	No	5.00		
1.2.6	DN50mm unions	No	3.00		
	Tee's				
1.2.7	DN76/76/76mm 90^0 GS Tee	No	3.00		
1.2.8	DN76/76/50mm 90^0 GS Tee	No	3.00		
	Reducers				
1.2.9	DN76/63mm	No	1.00		
1.2.10	DN76/50mm	No	1.00		
1.2.11	DN50/19mm	No	4.00		
	Externally threaded nipples				
1.2.12	DN76mm	No	3.00		
1.2.13	DN50mm	No	3.00		
1.2.14	DN19mm	No	3.00		
	Total for Pipes and Fittings				

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ITEM	DESCRIPTION	UNIT	QNTY	UNIT PRICE BIRR	TOTAL BIRR
2	**CONSTRUCTION OFTRANSMISION and EXPANSION LINES**				
2.1	**EXCAVATION & EARTHWORKS**				
2.1.1	Trench excavation in ordinary soil having 60cm wide and a max. depth of 80cm	m^3	130		
2.1.2	Trench excavation in soft rocks to a maximum depth of 80cm	m^3	10		
2.1.3	Cutting the road and compound asphalt at the top of the trench width	m	60		
2.1.4	Removal of stone pavement in the compound at the top of the trench width	m	100		
2.1.5	Back filling with selected excavated material with proper compaction	m^3	130		
2.1.6	Disposal of unsuitable and surplus excavated materials outside of the compound	m^3	42		
2.2	**PIPE LAYING,**				
	Pipe laying in trench and on the ground surface, price includes installation of bends, tees, reducers and other accessories				
2.2.1	Laying of GS pipes DN 76mm in trench	m	340		
2.3.2	Laying of GS pipes DN50mm in trench	m	100		
2.3	**CONSTRUCTION OF THRUST BLOCKS AND CONCRETE SUPPORT**				
	Supply and construction of grade C15 concrete thrust blocks and concrete support for pipes including excavation, backfill, concrete, formwork, etc				
2.3.1	For DN 76mm 90^0 bends anchor block (C-20, 100cm long x 50cm wide x 60cm depth)	No.	3.0		
2.3.2	For DN 76mm 45^0 bends anchor blocks (C-20 concrete 100cm long x 50cm wide x 60cm depth)	No.	2.0		
2.3.3	Concrete support at the wellhead (C-20 concrete 175cm depth by 50cm x 50cm cross-sectional area where 75cm of the depth is anchored into the ground)	No.	1.0		
2.4	**ASPHALT, STONE PAVEMENT AND GRASS REINSTATMENT**				
	Reinstate asphalt, stone pavement and garden grass to the original state for the trench width				
2.4.1	Supply materials and construct the cut asphalt to the orginal state	m	60.0		
2.4.2	Re-use the materials and construct the the removed stone pavement to the orginal state	m	100.0		
2.4.3	Supply materials and construct the dug grass land to the orginal state for the trench width	m	180.0		
2.5	**PRESSURE TESTING AND DISINFECTION**				
2.5.1	Pipeline testing and commissioning for the whole work,	LS	1		
2.5.2	Disinfection of pipe lines: flushing with clear water, filling with water containing 0.15 g/l calcium hypochloride, left for 24 hours. This includes supply of all necessary equipment, chemical and water	LS	1		
	Total for Construction of Transmission and Expansion Lines				
	GRAND TOTAL CARRIED TO SUMMARY				