

PROJECT – SENGWER SPRING PROTECTION COMMUNITY WATER SUPPLY PROJECTS.

PROPOSED CONSTRUCTION OF SPRING PROTECTION AND FENCING OF SPRINGS.

Sengwer Spring protection community water supply project Consist of 4No.Springs Koywo Spring, Chepnes, Kipsoyo and Chelach Spring and are located in Sengwer Ward of Marakwet West Sub County. The proposed Spring Site can be accessed through Kapsowar- Chebilbai- Kipnai- Kapcherop-Kamoi Road at Kamoi area.

The Contractor is advised to visit the site and familiarize himself/herself with site conditions prior to bidding.

BILL OF QUANTITIES

Item No.	Item description	Unit	Qty	Rate	Amount
A.	<u>KOYWO SPRING</u>				
1.00	<u>Spring Protection.</u>				
1.1	Clear the bush around the spring as specified	LS	1		
1.2	Remove all hard core fill from the spring	LS	1		
1.3	Clean the spring of any dirt and silt, opening up spring eyes as specified	LS	1		
1.4	Provide materials and Construct spring main sump and water way as specified	LS	1		
1.5	Provide materials and Construct foundation of spring as specified	LS	1		
1.6	Provide materials and Construct spring wing wall and retention wall	m3	8		
1.7	Provide materials and Construct communal drawing slab and masonry shoulder as specified	LS	1		
1.8	Excavate, Provide materials and Construct spiral way and diversion of spring flow during construction as specified	LS	1		

1.9	Excavate, Provide materials and Construct drainage way as specified	LS	1		
1.10	Import clay soil, Compact,handpack and re arrange the stones	m3	2		
1.11	Trench cut off storm drains as specified	m	20		
1.12	Provide and install 1m long 20mm Ø GI off take pipe	No	3		
1.13	Select good clay and clay pack the spring as specified	LS	1		
1.14	provide materials and Re-hand pack the hardcore fill as specified	LS	1		
1.15	provide materials and Cover the hardcore fill with polythene paper gauge 500 as specified	m ²	36		
1.16	Cover the spring body with earth as specified	LS	1		
1.17	Plant grass into the earth fill above as specified	LS	1		
Item No.	Item description	Unit	Qty	Rate	Amount
2,00	Fencing of the intake works.				
2.01	Supply all materials and erect 2400mm cedar posts at 2m centers in 600mm deep holes anchored with 1:3:6 concrete mix with 10 No. cedar posts for supports at collected points.	No	50		
2.02	Supply and install Galvanized 16 Gauge chain link 2.0M height	Pcs	4		
2.03	Gloss paint to gate	Ltrs	4		
2.04	Supply and fix 6 strands of barbed wire gauge 16 at 300mm centers	Roll	1		
2.05	Double leave steel gate comprising of 100mm	No	1		

	dia.GI end posts 2.5M long. Gate dimensions to be 1.0m x 2.0m high with 0.80M wide pedestal gate. The gate to be of 50 x 25mm R.H.S. framing with 50mm x 25mm R.H.S grilles spaced at 200mm centers welded to frame				
	Sub total for Koywo Spring				

Item No.	Item description	Unit	Qty	Rate	Amount
B.	<u>CHEPNES SPRING</u>				
1.00	<u>Spring Protection.</u>				
1.1	Clear the bush around the spring as specified	LS	1		
1.2	Remove all hard core fill from the spring	LS	1		
1.3	Clean the spring of any dirt and silt, opening up spring eyes as specified	LS	1		
1.4	Provide materials and Construct spring main sump and water way as specified	LS	1		
1.5	Provide materials and Construct foundation of spring as specified	LS	1		
1.6	Provide materials and Construct spring wing wall and retention wall	m3	10		
1.7	Provide materials and Construct communal drawing slab and masonry shoulder as specified	LS	1		
1.8	Excavate, Provide materials and Construct spiral way and diversion of spring flow during construction as specified	LS	1		
1.9	Excavate, Provide materials and Construct drainage way as specified	LS	1		

1.10	Import clay soil, Compact,handpack and re arrange the stones	m3	2		
1.11	Trench cut off storm drains as specified	m	40		
1.12	Provide and install 1m long 20mm Ø GI off take pipe	No	3		
1.13	Select good clay and clay pack the spring as specified	LS	1		
1.14	provide materials and Re-hand pack the hardcore fill as specified	LS	1		
1.15	provide materials and Cover the hardcore fill with polythene paper gauge 500 as specified	m ²	42		
1.16	Cover the spring body with earth as specified	LS	1		
1.17	Plant grass into the earth fill above as specified	LS	1		
Item No.	Item description	Unit	Qty	Rate	Amount
2,00	Fencing of the intake works.				
2.01	Supply all materials and erect 2400mm cedar posts at 2m centers in 600mm deep holes anchored with 1:3:6 concrete mix with 10 No. cedar posts for supports at collected points.	No	50		
2.02	Supply and install Galvanized 16 Gauge chain link 2.0M height	Pcs	4		
2.03	Gloss paint to gate	Ltrs	4		
2.04	Supply and fix 6 strands of barbed wire gauge 16 at 300mm centers	Roll	1		
2.05	Double leave steel gate comprising of 100mm dia.GI end posts 2.5M long. Gate dimensions to be 1.0m x 2.0m high with 0.80M wide pedestal gate. The gate to be of 50 x 25mm R.H.S. framing with 50mm x 25mm R.H.S grilles spaced at 200mm centers welded to frame	No	1		

	Sub total for Chepnes Spring				

Item No.	Item description	Unit	Qty	Rate	Amount
C.	<u>KIPSOYO SPRING</u>				
1.00	<u>Spring Protection.</u>				
1.1	Clear the bush around the spring as specified	LS	1		
1.2	Remove all hard core fill from the spring	LS	1		
1.3	Clean the spring of any dirt and silt, opening up spring eyes as specified	LS	1		
1.4	Provide materials and Construct spring main sump and water way as specified	LS	1		
1.5	Provide materials and Construct foundation of spring as specified	LS	1		
1.6	Provide materials and Construct spring wing wall and retention wall	m3	8		
1.7	Provide materials and Construct communal drawing slab and masonry shoulder as specified	LS	1		
1.8	Excavate, Provide materials and Construct spiral way and diversion of spring flow during construction as specified	LS	1		
1.9	Excavate, Provide materials and Construct drainage way as specified	LS	1		
1.10	Import clay soil, Compact, handpack and re arrange the stones	m3	2		
1.11	Trench cut off storm drains as specified	m	40		
	Provide and install 1m long 20mm Ø GI off				

1.12	take pipe	No	3		
1.13	Select good clay and clay pack the spring as specified	LS	1		
1.14	provide materials and Re-hand pack the hardcore fill as specified	LS	1		
1.15	provide materials and Cover the hardcore fill with polythene paper gauge 500 as specified	m ²	42		
1.16	Cover the spring body with earth as specified	LS	1		
1.17	Plant grass into the earth fill above as specified	LS	1		
Item No.	Item description	Unit	Qty	Rate	Amount
2,00	Fencing of the intake works.				
2.01	Supply all materials and erect 2400mm cedar posts at 2m centers in 600mm deep holes anchored with 1:3:6 concrete mix with 10 No. cedar posts for supports at collected points.	No	60		
2.02	Supply and install Galvanized 16 Gauge chain link 2.0M height	Pcs	5		
2.03	Gloss paint to gate	Ltrs	4		
2.04	Supply and fix 6 strands of barbed wire gauge 16 at 300mm centers	Roll	1		
2.05	Double leave steel gate comprising of 100mm dia.GI end posts 2.5M long. Gate dimensions to be 1.0m x 2.0m high with 0.80M wide pedestal gate. The gate to be of 50 x 25mm R.H.S. framing with 50mm x 25mm R.H.S grilles spaced at 200mm centers welded to frame	No	1		
	Sub total for Kipsoyo Spring				

Item No.	Item description	Unit	Qty	Rate	Amount
D.	<u>CHELACH SPRING</u>				
1.00	<u>Spring Protection.</u>				
1.1	Clear the bush around the spring as specified	LS	1		
1.2	Remove all hard core fill from the spring	LS	1		
1.3	Clean the spring of any dirt and silt, opening up spring eyes as specified	LS	1		
1.4	Provide materials and Construct spring main sump and water way as specified	LS	1		
1.5	Provide materials and Construct foundation of spring as specified	LS	1		
1.6	Provide materials and Construct spring wing wall and retention wall	m3	9		
1.7	Provide materials and Construct communal drawing slab and masonry shoulder as specified	LS	1		
1.8	Excavate, Provide materials and Construct spiral way and diversion of spring flow during construction as specified	LS	1		
1.9	Excavate, Provide materials and Construct drainage way as specified	LS	1		
1.10	Import clay soil, Compact,handpack and re arrange the stones	m3	2		
1.11	Trench cut off storm drains as specified	m	40		
1.12	Provide and install 1m long 20mm Ø GI off take pipe	No	3		

1.13	Select good clay and clay pack the spring as specified	LS	1		
1.14	provide materials and Re-hand pack the hardcore fill as specified	LS	1		
1.15	provide materials and Cover the hardcore fill with polythene paper gauge 500 as specified	m ²	42		
1.16	Cover the spring body with earth as specified	LS	1		
1.17	Plant grass into the earth fill above as specified	LS	1		

Item No.	Item description	Unit	Qty	Rate	Amount
2,00	Fencing of the intake works.				
2.01	Supply all materials and erect 2400mm cedar posts at 2m centers in 600mm deep holes anchored with 1:3:6 concrete mix with 10 No. cedar posts for supports at collected points.	No	60		
2.02	Supply and install Galvanized 16 Gauge chain link 2.0M height	Pcs	5		
2.03	Gloss paint to gate	Ltrs	4		
2.04	Supply and fix 6 strands of barbed wire gauge 16 at 300mm centers	Roll	1		
2.05	Double leave steel gate comprising of 100mm dia.GI end posts 2.5M long. Gate dimensions to be 1.0m x 2.0m high with 0.80M wide pedestal gate. The gate to be of 50 x 25mm R.H.S. framing with 50mm x 25mm R.H.S grilles spaced at 200mm centers welded to frame	No	1		
	Sub Total for Chelach Spring				
	Total				
	Add Engineers Supervision(Three months contract period)				75,000.00

	Add publicity sign post for Four sites				
	Grand Total for 4 No Spring Protection & Fencing				