



KenGen

KENYA ELECTRICITY GENERATING COMPANY PLC

KGN-SONDU-018-2021

{RFX 5000008622}

TENDER FOR LAYING OF RAW WATER PIPELINE AND CONSTRUCTION OF PRE-STRESSED STEEL WATER TANK.

2nd December, 2021

Addendum 01

In accordance with the “**Tender for Laying of Raw Water Pipeline and Construction Of pre-Stressed Steel Water Tank**” KenGen hereby issues Addendum No.1

Revised Bill of Quantities

Replace the Bill of Quantities (BoQ) on the bid document with the one provided herein.

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>PROPOSED LAYING OF RAW WATER PIPELINE AND ELEVATED WATER TANK-SONDU</u>				
	<u>ELEMENT NO. 1</u>				
	<u>PRELIMINARIES AND GENERAL</u>				
A	Allow mobilisation	ITEM	-	-	-
B	Allow for topo survey and as built pipeline survey	ITEM			
C	Allow for as-built drawings for Elevated tank, control house	ITEM			
D	Allow for compliance with all Environmental aspect and Safety aspect	ITEM			
E	Allow for demobilization	ITEM			
		SHS			
	<u>ELEMENT NO. 2</u>				
	<u>SUBSTRUCTURES WORKS & EXCAVATION WORKS</u>				
	<u>excavations including maintaining and supporting sides and keeping free from water, mud and fallen material</u>				
A	Excavate trench for pipeline not exceeding 1.50 metres deep, starting from reduced levels	CM	1,500		
B	Extra over excavations for excavating in soft rock	CM	150		
C	Micro tunnelling on tarmac road crossing for 8 m road	LM	106		
	<u>Disposal</u>				
D	Return, fill and ram selected excavated material around pipeline	CM	1500		

E	Excavate pit for tower foundation not exceeding 1.50 metres deep, starting from reduced levels	CM	6		
	<u>Plain concrete class 15 in:</u>				
F	50mm blinding under foundations	SM	4		
	<u>Reinforced concrete class (25) as described, in:-</u>				
G	Foundations	CM	8		
	<u>Reinforcement, as described: -[PROVISIONAL]</u>				
	<u>High yield square twisted reinforcement bars to B.S 4461</u>				
H	Assorted reinforcement ranging from Y12 - Y20	Kg	880		
	<u>Sawn formwork as described to: ~</u>				
I	To edge of slabs and sides of columns over 75mm but not exceeding 150mm girth	LM	20		
		SHS			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>PRESSED PANEL TANK [48 METRE CUBIC]</u>				
A	Design, supply, install, test and commission 48 metre cubic pressed steel tank all to meet technical specification as provided in this tender document.	NO	1		

B	Design, supply, install, test and commission water tank tower with catladder 8 M high to receive pressed panel tank ,all to meet technical specification as provided in this tender document.	NO	1		
	-				
	-	SHS			
	<u>ELEMENT NO. 4</u>				
	<u>PIPE WORK</u>				
A	Supply, lay and commission HDPE aquaflex75mm outer diameter PN 12.5- 100 Meter length including butt fusion jointing and all necessary anchors.	LM	850		
	-				
B	Supply, lay and commission HDPE aquaflex 50 mm outer diameter PN 12.5- 100 Meter length including butt fusion jointing and all necessary anchors.	LM	1,800		
	-				
C	Supply, lay and commission HDPE aquaflex 25 mm outer diameter PN 12.5- 100 Meter length including butt fusion jointing and all necessary anchors.	LM	1,000		
D	Supply and install 20 mm diameter and 1500 mm high steel standpipe with all necessary accessories.	NO	95		
	-				
E	Supply and install 200*200*1500mm concrete block for support of standpipe including all necessary concrete surrounds and excavations.	NO	95		
	-				
F	Supply and fix 6.6 x 7.1 x 2.2cm water tap	NO	95		
G	1200* 1500*300 concrete benching at bottom of standpipe	NO	95		
H	Construct concrete manhole including manhole cover size 900*900*1000- 1500 Depth.	NO	8		

I	Supply and Install 200*200*1200 mm high concrete marker post	NO	15		
J	Construct 50mm thick cable and pipe concrete tray size 400*400*800mm with grated/slatted U-drain concrete cover.	LM	800		
		SHS			
		-	-		
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>PUMP AND ELECTRICAL WORKS</u>				
A	Supply and fix submersible pump with capacity of maximum flow of 17.1 litre/second and Minimum head of 8.8 M and maximum head of 25.6 M head containing a duty pump and standby pump with automatic control in topping up tank when at determined level and automatic stop when tank is full, complete with a control panel 415 V 3 phase. Working immersion depth 15 M	NO	2		
	-				
B	Supply and fix lifting chain (stainless steel) for each pump	NO	2		
C	Supply and fix walking ladder and stepping ladder with working platform, which is well secured, plan to be approved by Employer representative before installation.	ITEM	1		
D	Construct 3500*4000*2800 M high masonry control house including but not limited to galvanised roof covering, concrete slab, plastering, painting and a standard steel door. {Plan and drawing to Employer Representative approval}	ITEM	1		

E	Supply and install 4 core 16mm armoured (cu) cable including float switch control.	LM	350		
		SHS			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SUMMARY</u>				
	<u>ELEMENT NO</u>		<u>PAGE</u>		<u>AMOUNT</u>
1	PRELIMINARY AND GENERAL				
2	SUBSTRUCTURES WORKS				
3	PRESSED STEEL PANEL TANK				
4	PIPE WORKS				
5	PUMP AND ELECTRICAL WORKS				
	SUB TOTAL	KSHS			
	ADD 16 % VAT	KSHS			
	GRAND TOTAL	KSHS			

ACKNOWLEDGEMENT OF ADDENDUM No. 1

We, the undersigned hereby certify that the Addendum is an integral part of the document and has been incorporated in the tender document.

Signed

Tenderer:

Date