



**KENYA ELECTRICITY GENERATING COMPANY PLC
KGN-BDD ~02~2023
RFx 5000012907**

**TENDER FOR DECOMMISSIONING, REHABILITATION RELOCATION, AND
INSTALLATION OF WIND MASTS.**

8th June 2023

Addendum No. 1

In Accordance with the “Tender for Decommissioning, Rehabilitation Relocation, And Installation of Wind Masts.” KenGen hereby issues **Addendum No.1**

1. ADDITIONAL SCOPE OF WORKS

The below scope has been added, and shall be part of the technical requirements.

Schedule	Description	Additional scope
SCHEDULE 1	Rehabilitation of wind mast 100m at Gus site 1	1.Erection of guard house (concrete) 1.5m x2mx2m 2. Tensioning of the guy wires 3. The sensors will be installed with new cables 4. Additional two booms for the redundant anemometers installed side by side at the prescribed height in the Technical Specifications provided.
SCHEDULE 2	Decommissioning, Rehabilitation and Relocation of 100 m wind mast from Mt. Kulal and installation at Gus site 2	a. Rehabilitation of guard house at site b. The sensors will be installed with new cables
SCHEDULE 3	Installation of 100m mast at Gus site 3	1.Rehabilitation of guard houses at site
SCHEDULE 5	Rehabilitation of wind masts Ngong III 50m	a. Painting of mast with primer and two coats of reflective paint as per the Aviation requirements b. Fixing, and painting of the gates and angle lines pillars

		<ul style="list-style-type: none"> c. Replacement of the chain link (heavy gauge) 15mx15m d. Additional booms for the redundant anemometer. e. The sensors must be installed with new cables f. The logger Must be fixed with lightning arrestors. g. Rehabilitation of the guard house (Roof replacement and cover with iron sheet to protect the external timber
SCHEDULE 6	Rehabilitation of wind masts Ngong III 80m	<ul style="list-style-type: none"> a. Replacement of the gate 3mx2mX2m (Use square tubes heavy gauge 2.5 inch) b. Painting of square tubes pillars c. The new sensors must be installed with new cables d. Rehabilitation of the guard house (Roof replacement and cover with iron sheet to protect the external timber e. Replacement of the chain link (Heavy gauge) 15mx15m f. The new logger Must be installed with lightning arrestors g. Provide additional booms for the redundant anemometers.
SCHEDULE 7	Schedule for rehabilitation of wind masts Bubisa East	<ul style="list-style-type: none"> a. The sensors will be installed with new cables. b. Additional booms for the redundant anemometer c. Erection of guard house (concrete) 1.5m x2mx2m. The guard house should be raised at least 1m from the ground to minimize flooding. d. Rehabilitation of the fence, new chain link heavy gauge and replacement of two concrete posts. e. Tensioning of the guy wires
SCHEDULE NO 8	Rehabilitation of wind masts Bubisa West	<ul style="list-style-type: none"> a) Tightening of the guy wires to align the mast b) The sensors to be installed with new cables and additional booms for the

		redundant anemometers c) Erection of guard house d) Rehabilitation of the fence (Additional two concrete poles) for reinforcement)
--	--	--

2. REPLACEMENT OF SCHEDULE OF RATES

The Price Schedule is amended, and bidders shall fill this price schedule and disregard that in the tender document.

SCHEDULE NO. 1: REHABILITATION OF WIND MAST 100m at GUS SITE I

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS.
1.0	Supply and Installation of Anemometers 5 units, Wind Vanes 2 units, Temperature sensor 2 units, Barometric Pressure Sensor 1 unit, Humidity sensor 1 unit in accordance with the requirements of IEC standard 61400-12-1 and Technical Specification	Sum	1		
1.1	Supply and Installation of 2 aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard. The aviation light shall be complete with a switch controller.	Sum	1		
1.2	Erection of guard house (concrete) 1.5m x 2m x 2m	Sum	1		
1.3	Tensioning of the guy wires	Sum	1		
1.4	The sensors will be installed with new cables	Sum	1		
1.5	Additional two booms for the redundant anemometers installed side by side at the prescribed height in the Technical Specifications provided.	Sum	1		
	SUB-TOTAL SCHEDULE NO. 1				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO. 1				

SCHEDULE NO. 2: SCHEDULE FOR DECOMMISSIONING, REHABILITATION AND RELOCATION OF 100 m WIND MAST FROM MT. KULAL AND INSTALLATION AT GUS SITE 2

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	RATE KSHS	AMOUNT KSHS.
2.0	Decommissioning of 100m wind Mast and associated equipment from Mt. Kulal Site and restoration of the site and Transportation of the 100m lattice mast and associated instruments from Mt. Kulal to Gus Site 2	Sum	1		
2.1	Cost for the site survey and investigations, supply of foundation materials, detailed foundation designs and provide As-built documentation.	Sum	1		
2.2	Painting of mast with primer and two coats of reflective paint as per the Aviation requirements	Sum	1		
2.3	Installation of the 100m lattice mast complete with guy stays.	Sum	1		
2.4	Installation, testing and commissioning of data logger and sensors complete with iPackGPS, Shelter box, PV panel 15W,SD Card and USB cable. (Logger will be provided by KenGen) The logger should be fitted with GSM network to relay data via email.	Sum	1		
2.5	Supply and Installation of Anemometers 5 units, Wind Vanes 2 units, Temperature sensor 2 units, Barometric Pressure Sensor 1unit, Humidity sensor 1 unit in accordance with the requirements of IEC standard 61400-12-1 and Technical Specification	Sum	1		
2.6	Installation of Chain link fence 2m high with metallic posts for an area measuring 20 m X 10m. Fabrication of gate 2m X 2m gate with lock and padlock	Sum	1		
2.7	Supply and Installation of 2 aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard. The aviation light shall be complete with a switch controller.	Sum	1		
2.8	Installation of Satellite communication system complete with 80Watt Solar panel, 1X 60Ah Battery, wiring, Ethernet surge protection and mounting brackets. Complete build and tested. Satellite Router SIM, VPN Activation fee and	Sum	1		

	communication network setup which includes payment of VPN Activation fees and monthly satellite network connectivity fees inclusive of all data for a period of 12 months.				
2.9	Erection of concrete security guard house measuring 1.5m X 2m x 2m height	Sum			
2.10	Rehabilitation of guard house at site	Sum			
2.11	The sensors will be installed with new cables	Sum			
	SUB-TOTAL SCHEDULE NO. 2				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO.2				

SCHEDULE NO 3: SCHEDULE FOR Installation of 100m mast at Gus site 3

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE KSHS	AMOUNT KSHS.
3.0	Gus Site 2 mobilization and demobilization for installation.	Sum	1		
3.1	Cost for the site survey and investigations, supply of foundation materials, detailed foundation designs and provide As-built documentation.	Sum	1		
3.2	Supply and installation of 100m lattice mast complete with guy stays.	Sum	1		
3.3	Supply, Installation, testing and commissioning of data logger and sensors complete with iPackGPS, Shelter box, PV panel 15W,SD Card and USB cable. The logger should be fitted with GSM network to relay data via email and support web Interface	Sum	1		
3.4	Supply and Installation of Anemometers 5 units, Wind Vanes 2 units, Temperature sensor 2 units, Barometric Pressure Sensor 1 unit, Humidity Sensor 1 unit) in accordance with the requirements of IEC standard 61400-12-1	Sum	1		
3.5	Installation of Chain link fence 2m high with metallic posts for an area measuring 20 m X 20m. Fabrication of gate 2m X 2m gate with lock and padlock	Sum	1		
3.6	Supply and Installation of aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard. The aviation light shall be complete with a switch controller.	Sum	2		
3.7	Installation of Satellite communication system complete with 80Watt Solar panel, 1X 60Ah Battery, wiring, Ethernet surge protection and mounting brackets. Complete build and tested. Satellite Router SIM, VPN Activation fee and communication network setup which includes payment of VPN Activation fees and monthly satellite network connectivity fees inclusive for a period of 12 months.	Sum	1		
3.8	Erection of concrete security guard sentry house measuring 1.5m X 2m x 2m height	Sum	1		

3.9	Supply of operational laptop (network ready with inbuilt data reception and transmission software	Sum	I		
3.10	Rehabilitation of guard houses at site	Sum	I		
	SUB-TOTAL SCHEDULE NO. 3				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO.3				

SCHEDULE NO. 4 DECOMMISSIONING OF 50m MAST AT ELMOLO SITE AND TRANSPORTATION TO NGONG POWER STATION

Item	ITEM DESCRIPTION	Unit	Qty	Rate	Amount
4.0	Decommissioning of the site and retrieval of the logger and all the mast accessories and site restoration	Sum	1		
4.1	Transportation of the mast materials to Ngong Power station	Sum	1		
	SUB-TOTAL SCHEDULE NO. 4				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO.4				

SCHEDULE NO. 5 SCHEDULE FOR REHABILITATION OF WIND MASTS NGONG III 50m

Item No	Item Description	Unit	Qty	Rate	Amount
5.0	Installation, testing, and commissioning of data logger and sensors complete with iPackGPS, Shelter box, PV panel 15W, SD Card and USB cable. (Logger will be provided by KenGen) The logger should be fitted with GSM network to relay data via email.	Sum	1		
5.1	Supply and installation of New Anemometers 4 units, Wind Vanes 2 units, Temperature sensor 2 units, Barometric Pressure Sensor 1 unit, Humidity sensor 1 unit) in accordance with the requirements of IEC standard 61400-12-1	Sum	1		
5.2	Supply and Installation of aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard.	Sum	1		
5.3	Painting of mast with primer and two coats of reflective paint as per the Aviation requirements	Sum	1		
5.4	Fixing, and painting of the gates and angle lines pillars	Sum	1		
5.5	Replacement of the chain link (heavy gauge) 15m x 15m	Sum	1		
5.6	Additional booms for the redundant anemometer.	Sum	1		
5.7	The sensors must be installed with new cables	Sum	1		
5.8	The logger Must be fixed with lightning arrestors.	Sum	1		
5.9	Rehabilitation of the guard house (Roof replacement and cover with iron sheet to protect the external timber	Sum	1		
	SUB-TOTAL SCHEDULE NO. 5				

	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO.5				

SCHEDULE NO. 6 SCHEDULE FOR REHABILITATION OF WIND MASTS NGONG III 80m

Item No	Item Description	Unit	Qty	Rate	Amount
6.0	Supply, Installation, testing, and commissioning of data logger and sensors complete with iPack GPS, Shelter box, PV panel 15W, SD Card and USB cable. The logger should be fitted with GSM network to relay data via email and Must support web-based interface	Sum	1		
6.1	Reinforcement and alignment of the 80m mast members	Sum	1		
6.2	Painting of mast with primer and two coats of reflective paint as per the Aviation requirements	Sum	1		
6.3	Supply and installation of Anemometers 4 units, Wind Vanes 2 units, Temperature sensor 2 unit and Barometric Pressure Sensor 1 unit, Humidity sensor) in accordance with the requirements of IEC standard 61400-12-1	Sum	1		
6.4	Installation of two aviation obstruction light Supply and Installation of aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard.	Sum	1		
6.5	Replacement of the gate 3mx2mX2m (Use square tubes heavy gauge 2.5 inch)	Sum	1		
6.6	Painting of square tubes pillars	Sum	1		
6.7	The new sensors must be installed with new cables	Sum	1		
6.8	Rehabilitation of the guard house (Roof replacement and cover with iron sheet to protect the external timber	Sum	1		
6.9	Replacement of the chain link (Heavy gauge) 15mx15m	Sum	1		

6.10	The new logger Must be installed with lightning arrestors	Sum	l		
6.11	Provide additional booms for the redundant anemometers.	Sum	l		
	SUB-TOTAL SCHEDULE NO. 6				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO. 6				

**SCHEDULE NO. 7 SCHEDULE FOR REHABILITATION OF WIND MASTS
BUBISA EAST**

Item No	Item Description	Unit	Qty	Rate	Amount
7.0	Supply, Installation, testing, and commissioning of data logger and sensors complete with iPackGPS, Shelter box, PV panel 15W, SD Card and USB cable. The logger should be fitted with GSM network to relay data via email and Must support web-based interface	Sum	1		
7.1	Supply and Installation of Anemometers 4 units, Wind Vanes 2 units, Temperature sensor 1 unit and Barometric Pressure Sensor 1 unit, Humidity sensor 1 unit) in accordance with the requirements of IEC standard 61400-12-1	Sum	1		
7.2	Supply and Installation of aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard.	Sum	1		
7.3	The sensors will be installed with new cables.	Sum	1		
7.4	Additional booms for the redundant anemometer	Sum	1		
7.5	Erection of guard house (concrete) 1.5m x2mx2m. The guard house should be raised at least 1m from the ground to minimize flooding.	Sum	1		
7.6	Rehabilitation of the fence, new chain link heavy gauge and replacement of two concrete posts.	Sum	1		
7.7	Tensioning of the guy wires	Sum	1		
	SUB-TOTAL SCHEDULE NO. 7				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO. 7				

**SCHEDULE NO. 8 SCHEDULE FOR REHABILITATION OF WIND MASTS
BUBISA WEST**

Item No	Item Description	Unit	Qty	Rate	Amount
8.0	Supply, Installation, testing, and commissioning of data logger and sensors complete with iPackGPS, Shelter box, PV panel 15W, SD Card and USB cable. The logger should be fitted with GSM network to relay data via email and Must support web-based interface	Sum	1		
8.1	Supply and installation of Anemometers 4 units, Wind Vanes 2 units, Temperature sensor 1 unit and Barometric Pressure Sensor 1 unit, Humidity sensor 1 unit) in accordance with the requirements of IEC standard 61400-12-1	Sum	1		
8.2	Supply and Installation of aircraft aviation warning reflector and light complying with the requirements specified by Kenya civil Aviation Authority and ICAO standard. The aviation light shall be complete with a switch controller	Sum	1		
8.3	Tightening of the guy wires to align the mast	Sum	1		
8.4	The sensors to be installed with new cables and additional booms for the redundant anemometers	Sum	1		
8.5	Erection of guard house	Sum	1		
8.6	Rehabilitation of the fence (Additional two concrete poles) for reinforcement)	Sum	1		
	SUB-TOTAL SCHEDULE NO. 8				
	5% Contingency fee				
	16% VAT				
	TOTAL SCHEDULE NO. 8				

SUMMATION OF SCHEDULES

ITEM	AMOUNT (Kenya Shillings)
SCHEDULE 1	
SCHEDULE 2	
SCHEDULE 3	
SCHEDULE 4	
SCHEDULE 5	
SCHEDULE 6	
SCHEDULE 7	
SCHEDULE 8	
TOTAL FINANCIAL AMOUNT	

3. EXTENSION OF TENDER CLOSING DATE

INITIAL TENDER CLOSING DATE	REVISED TENDER CLOSING DATE
Tender closing date 13th June 2023 at 2.00 pm	Tender closing date 20th June 2023 at 2.00 pm.
Tender opening date 13th June 2023 at 2.30 pm	Tender opening date 20th June 2023 at 2.30 pm.

ACKNOWLEDGEMENT OF ADDENDUM NO.1

We, the undersigned hereby certify that the Addendum is an integral part of the document and the alterations set out in addendum has been incorporated in the Tender for Proposal.

Tenderer.....

Signed.....

Dated.....