



**KENYA ELECTRICITY TRANSMISSION CO.**

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**Our Ref: KETRACO/PT/011/2023**

**13<sup>th</sup> April, 2023**

**Notice to all Bidders**

**RE: TENDER ADDENDUM AND CLARIFICATION 1**

**RE: SUPPLY AND DELIVERY OF SCADA & TELECOM EQUIPMENT. (TENDER NO. KETRACO/PT/011/2023)**

The following amendments are made to the specified provisions of tender for Supply and Delivery of SCADA & Telecom Equipment.

**(Tender No. KETRACO/PT/011/2023).**


Find herein the Tender Addendum and Clarification No. 2 consisting of seven pages. This document should be attached to the completed Form of Tender.


The Closing Date shall be **25<sup>th</sup> April 2023 at 10.00am** Local time.

**PETER NJEHIA**  
**SENIOR MANAGER, SUPPLY CHAIN**




LOT 1		SCADA EQUIPMENT			Clarifications Sought by Bidders	KETRACOs Response
Item No	Item	Unit	Qty	Description / Specification.		
1.7	SCADA RTU 540	Pcs	1	SCADA RTU 540 with 5000 data points License inclusive of IEC 104, IEC 61850, MODBUS serial and TCP/IP protocols +SNTP time server port + Integrated HMI license	Advise if we can provide: GE make high performance latest RTU in place of Hitachi RTU540	<b>NO</b> , we are buying strategic spares for existing systems/equipment.
1.10	SICAM PAS and WinCC software	Pcs	1	SICAM PAS and SICAM WinCC software with full Configurator and runtime licenses supporting IEC 104, IEC 61850, Modbus TCP, SNTP, SNMP and redundancy (Licensed for 10,000 data points and over 200 IEDs)	Advise if we can provide: GE make Software in place of SICAM software.	<b>NO</b> , we are buying strategic spares for existing systems/equipment.
1.12	SICAM AK1703 RTU Cards	Pcs	3	Three of each card type SICAM AK1703 RTU Cards: <ul style="list-style-type: none"> <li>• CP2014, 6MF10130CA140AA0 Main cards for SICAM AK1703 siemens RTU</li> <li>• CP2017,</li> <li>• CP2016,</li> <li>• CP2019</li> </ul>	Advise if we can provide: GE make full RTU in place of SICAM AK Cards	<b>NO</b> , we are buying strategic spares for existing systems/equipment.
LOT 2		TELECOM EQUIPMENT				
2.1-2.23	Fiber Optic Patch cables	Pairs			When the unit of Measure for Fiber Optic Products is	By pair, we mean 1 set of duplex patch cable.

								“pair”, does it mean the duplex cable below or two of them? 	
2.1	Fiber Optic Patch cables	Lots						On item 2.1 referenced below, Brugg cables have indicated they do not deal in fiber accessories. Should there be an alternative?	The Alternative manufacturer shall be EFB-Elektronik; EFB-Elektronik - Single mode, Fiber Optic Patch cable 9/125um, 0,9mm, G655 fiber with Aramid Yarn Strength Member, LSZH outer jacket. As Below:
2.2	Fiber Optic Patch cables	Pairs	10	5m duplex single mode FC/UPC-LC/UPC					
2.3	Fiber Optic Patch cables	Pairs	20	5m duplex single mode FC/UPC-FC/UPC					
2.4	Fiber Optic Patch cables	Pairs	10	5m duplex single mode SC/UPC-SC/UPC					
2.5	Fiber Optic Patch cables	Pairs	10	5m duplex single mode LC/UPC-SC/UPC					
2.6	Fiber Optic Patch cables	Pairs	20	5m duplex single mode FC/UPC-SC/UPC					
2.7	Fiber Optic Patch cables	Pairs	15	10m duplex single mode FC/UPC-LC/UPC					
2.8	Fiber Optic Patch cables	Pairs	15	10m duplex single mode FC/UPC-FC/UPC					



2.9	Fiber Optic Patch cables	Pairs	10	10m duplex single mode SC/UPC-SC/UPC
2.10	Fiber Optic Patch cables	Pairs	20	10m duplex single mode LC/UPC-SC/UPC
2.11	Fiber Optic Patch cables	Pairs	20	10m duplex single mode FC/UPC-SC/UPC
2.12	Fiber Optic Patch cables	Pairs	30	20m duplex single mode FC/UPC-LC/UPC
2.13	Fiber Optic Patch cables	Pairs	10	20m duplex single mode FC/UPC-FC/UPC
2.14	Fiber Optic Patch cables	Pairs	20	20m duplex single mode FC/UPC-SC/APC
2.15	Fiber Optic Patch cables	Pairs	20	20m duplex single mode FC/UPC-SC/UPC
2.16	Fiber Optic Patch cables	Pairs	15	20m duplex single mode LC/UPC-SC/UPC
2.17	Fiber Optic Patch cables	Pairs	20	20m duplex single mode FC/UPC-SC/UPC
2.18	Fiber Optic Patch cables	Pairs	60	20m duplex single mode ST/UPC-FC/UPC



2.19	Fiber Optic Patch cables	Pairs	60	40m duplex single mode ST/UPC-FC/UPC		
2.20	Fiber Optic Patch cables	Pairs	25	20m duplex single mode ST/UPC-LC/UPC		
2.21	Fiber Optic Patch cables	Pairs	25	20m duplex multimode ST/UPC-LC/UPC		
2.22	Fiber Optic Patch cables	Pairs	20	10m duplex multimode FC/UPC-LC/UPC		
2.23	Fiber Optic Patch cables	Pairs	20	10m duplex multimode LC/UPC-LC/UPC		
2.25	SFP Modules	Lot		1 lot APAC Opto Electronics Inc. SFP Modules	Manufacturer of SFPs , APAC Opto electronics , has indicated that the minimum order quantity is 10 pcs per item... can KETRACO adjust the figures.	The SFP modules have been adjusted to 10 pieces each as below.
2.26	SFP Modules	Lot	10	S-16.1 (1310 nm, Short-haul) ~20 km Part number LS38-E3S-TC-N-DD		
2.27	SFP Modules	Lot	10	L-16.1 (1310 nm, Long-haul) ~50 km Part number LS38-E3L-TC-N-DD		
2.28	SFP Modules	Lot	10	L-16.2 (1550 nm, Long-haul) ~80 km Part number LS48-E3U-TC-N-DD		

2.29	SFP Modules	Lot	10	LR-16.2 (1550 nm, enhanced Long haul) ~ 120 km Part number LS48-E3U-TC-N-DC
2.30	SFP Modules	Lot	10	S-4.1 (1310 nm, Short-haul) ~20 km Part number LS38-B3S-TC-N-DD
2.31	SFP Modules	Lot	10	L-4.1 (1310 nm, Long-haul) ~50 km Part number LS38-B3L-TC-N-DD
2.32	SFP Modules	Lot	10	L-4.2 (1550 nm, Long-haul) ~80 km Part number LS48-B3L-TC-N-DD
2.33	SFP Modules	Lot	10	X-4.2 (1550 nm, enhanced Long-haul) ~120 km.
2.34	SFP Modules	Lot		Part number: Optoway SPS-53120WG
2.35	SFP Modules	Lot	10	S-1.1 (1310nm, Short-haul) ~30 km Part Number LS38-A3S-TC-N-DD

2.36	SFP Modules	Lot	10	L-1.1 (1310 nm, Long-haul) ~60 km Part number LS38-A3L-TC-N-DD
2.37	SFP Modules	Lot	10	L-1.2 (1550 nm, Long-haul) ~100 km Part Number LS48-A3L-TC-N-DD
2.38	SFP Modules	Lot	10	X-1.2 (1550 nm, enhanced Long-haul) ~120 km Part Number LS48-A3U-TC-N-DD
2.38	SFP Modules	Lot	10	Enhanced extended (1550 nm, Long-haul) ~145 km Part number LS48-A3U-TC-N-DX
2.39	SFP Modules	Lot	10	1000BASE-XD (1310nm) ~ 50km Part number LS48-C3L-TC-N-DD
2.40	SFP Modules	Lot	10	1000BASE-EZX (1550 nm, long haul) ~90 km Part number LS48-C3U-TC-N-DY
2.41	SFP Modules	Lot	10	1000BASE-EZX (1550 nm, enhanced extended long haul) ~120 km Part number LS48-C3U-TC-N-DU