

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

University of Choice

ADDENDUM NO. 1 TO 6 OF 4TH NOVEMBER, 2022

Masinde Muliro University of Science and Technology wishes to notify bidders participating in the tender listed below of the highlighted changes

S/NO.	TENDER NUMBER	TENDER DESCRIPTION	CLARIFICATION	ADDENDUM
1	MMUST/001/SEC/2022- 2023 VICE CHANCELLOR'S OF MASINDE MULIPO UNIVERSITY SCIENCE & TECHNOLOGY C 4 NOV 2022 P.O. Box 190 - 50100 KAKAN Tel: +254 0702 - 59 73 60	METRES HIGH MAST MONOPOLE FLOODLIGHTING AT	APPENDIX 9. BILLS OF QUANTITIES. 1.4 Provision for KPLC Power Supply to the High mast (The Mast to be installed adjacent to the football field and at milimani areas of Main Campus) 2.1 - 3no. 30metre monopoles eight sided (octagonal) continuously tapered and fabricated from 30mm thick heavy duty corrosion free mild steel lighting column for high mast lighting system.	1.4 Connectivity of the high mast to the nearest power supply as advised by the Engineer on site Unit (Item) Quantity (3) 2.1 - 3no. 30metre monopoles eight sided (octagonal) continuously tapered and fabricated from a thick of 3mm to 4mm (as per the drawing) heavy duty corrosion free mild steel lighting column for high mast lighting system.

			Additional requirement	2.4a - Supply and install 16mm x 4 core PVC/SWA/PVC armored copper feeder cable complete with cable glands and cable lags from powerhouse to high mast control pillar or approved equivalent Unit (M) Quantity (450)
			Additional requirement	2.4b - Supply and install hatari tile makers for the underground cables. Unit (M) Quantity (30)
	WASHING THE AND A TELEPOOR	THE S OFFICE OF STATE OF STATE OF	Additional requirement	2.4c - Trenching, laying, tilling with concrete HATARI cable tiles and backfilling in soft ground for the underground cables. Unit (M) Quantity (450)
	P.O. Pon 1900.	V 2022 50100 RAKMATEGA 702-59730017	3.15 - Hold Down Bolts/Foundation Bolts (a) Supply and Cast in reinforced concrete column stanchion M24 Grade 8.8 high tensile steel bolts 450mm long 60mm diameter to BS 7419 supplied with nuts and washers	3.15 - Hold Down Bolts/Foundation Bolts (a) Supply and Cast in reinforced concrete column stanchion M24 Grade 8.8 high tensile steel bolts 450 mm long 25mm diameter to BS 7419 supplied with nuts and washers
2	MMUST/002/SEC/2022- 2023	TENDER FOR SUPPLY, DELIVERY,	Standard PTZ Camera Resolution - 5 mega pixel	Standard PTZ Camera

		INSTALLATION, TESTING AND COMMISSIONING OF CCTV CAMERAS PHASE II AT THE MAIN CAMPUS.	Image sensor - 1/1.8' progressive scan CMOS Effective pixels - Up to 2560 × 1440 Shutter time - 50Hz 1~ 1/30,000s; 60Hz 1~1/30,000s Privacy masking - 24 privacy masks programmable Auto focus - Auto/Semi-automatic/manual Focal Length - 5.7 mm to 205.2 mm RS-485 Protocols - HIKVISION, Pelco-P, Pelco-D, self-adaptive Power Consumption - 24 VAC (Max. 60 W) Hi-PoE (Max. 50 W) Working temperature / humidity40°C to 70°C (-40°F to 158°F) ROI encoding - support	TandemVu 7-inch 4 MP 32X Powered by DarkFighter IR Network Speed Dome 1/2.8" Progressive Scan CMOS with 32× optical zoom and 16× digital zoom 3D DNR, defog, regional exposure, regional focus, rapid focus Expansive night view with up to 200 m IR distance
3	MMUST/003/ICT/2022- 2023 CRAMICE OF STECHNOR O4 NOV 207 P O Box 190 - 50100 Tel: -254 0702 - 3	EQUIPMENT	Pg. 28 - MANDATORY TECHNICAL REQUIREMENTS HP ProDesk 400 G6 Microtower Business PC Specifications Pre-installed (Windows) Genuine Windows 11 Pro 64	(Must have OEM COA stickers) or Provide a Sealed disc for each PC
			Display Screen not provided for	Type TN (twisted nematic) LED backlit LCD Viewable image area (diagonal) 46.9 cm (18.5 in) widescreen Panel active area (W x H) 40.98 x 23.04 cm (16.13 x 9.07

				in) Aspect ratio 16:9 Resolution: 1366 x 768 at 60Hz Viewing angle: (typical)Up to 90° horizontal/65° vertical Brightness: 200 cd/m2
4	MMUST/004/ICT/2022- 2023	TENDER FOR SUPPLY, DELIVERY, INSTALLATION, TESTING, AND COMMISSIONING OF NETWORKING WORKS AT ABA BUILDING	SECTION VIII: BILL OF QUANTITIES FIFTH FLOOR Add; Copper Patch cords	Factory terminated CAT 6 Siemon 3m patch cords – 1000 pcs
5	MMUST/005/ICT/2022- 2023 NOV 2022- P O BOX 190 - 50103 KAKAN Tel: +254 0702 - 59 73 00	TENDER FOR SUPPLY, DELIVERY, INSTALLATION, TESTING, AND COMMISSIONING OF FIBER OPTIC CONNECTIVITY	Pg 79 to 81 SECTION VIII: BILL OF QUANTITIES Manholes & Cover 600mmx600mmx1200mm 10 Pcs	Manholes & Cover 600mmx600mmx1200mm 42 Pcs
6	MMUST/006/TVET/2022- 2023	SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF STRUCTURED CABLING LAN NETWORK, TELEPHONE & CCTV SURVEILLANCE INSTALLATION WORKS AT THE	SCHEDULE 1 - LOWER GROUND FLOOR HORIZONTAL CABLING 1.5 - S110 (100 pair) cross connector punch down blocks 1.6 - S110 to RJ45; 1m cat 6e patch cord 1.7 - 3m, RJ45 to RJ11; cat 6e patch cord	Items 1.5 – 1.9 Withdrawn

	PROPOSED ENGINEERING AND TVET COMPLEX	1.8 - 50 pair cat 6e link from discase to S110 termination block unit. 1.9 - Distribution cases (KRONE type Discase) as follows: (a) 20 Pair Discase	
		1.12 - 24 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent	1.12 - 48 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent
		1.13 - 24 Port 1UH Cat 6 Voice Patch Panel as siemon or approved equivalent	Items 1.13 Withdrawn
		1.21 - 24 Port UTP rack mount/manageable edge switch as C1000- 24P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent.	1.21 - 48 Port UTP rack mount/manageable edge switch as C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent.
CHAMOROUNIVERS	Y OF	2.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)	2.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)
MASSISSION NOV 2022		Unit (No.) Quantity (40)	Unit (No.) Quantity (130)
D BOX 00 - 50100 KAK	CAMEGA	2.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)	2.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)
P. O. 600 702 29		Unit (No.) Quantity (24)	Unit (No.) Quantity (130)
		2.5 - S110 (100 pair) cross connector punch down blocks	Items 2.5 – 2.9 Withdrawn
		2.6 - S110 to RJ45; 1m cat 6e patch cord	
		2.7 - 3m, RJ45 to RJ11; cat 6e patch cord	
		2.8 - 50 pair cat 6e link from disease to	

			S110 termination block unit.	
4			2.9 - Distribution cases (KRONE type Discase) as follows:	
	a		(a) 20 Pair Discase	
			2.12 - 24 Port 1UH Cat 6 UTP Patch Panel as Siemon or approved equivalent	2.12 - 48 Port 1UH Cat 6 UTP Patch Panel as Siemon or approved equivalent
	3		2.13 - 24 Port 1UH Cat 6 Voice Patch Panel as Siemon or approved equivalent	Items 2.13 Withdrawn
			2.21 - 24 Port UTP rack mount/manageable edge switch as C1000- 24P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent.	2.21 - 48 Port UTP rack mount/manageable edge switch as C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent.
	0.8.8	OFFICE	3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)	3.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)
2	VICE CHANCELLORS MASINDE MILLIPO INNVES MANUAL MOVE NO MANUAL MANUAL MOVE NO MA	od /	Unit (No.) Quantity (80)	Unit (No.) Quantity (250)
	0# MO	- surecit	1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)	3.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)
	P. O. Box 190 - 50100 Pel: -254 002 - 79	7360	Unit (No.) Quantity (40)	Unit (No.) Quantity (250)
	Tel: +231		3.5 - S110 (100 pair) cross connector punch down blocks	Items 3.5 – 3.9 Withdrawn
			3.6 - S110 to RJ45; 1m cat 6e patch cord	
			3.7 - 3m, RJ45 to RJ11; cat 6e patch cord	
			3.8 - 50 pair cat 6e link from discase to	

	S110 termination block unit. 3.9 - Distribution cases (KRONE type	
	Discase) as follows: (a) 20 Pair Discase	
	3.12 - 24 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent	3.12 - 48 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent. Unit (No) quantity (5)
	3.13 - 24 Port 1UH Cat 6 Voice Patch Panel as siemon or approved equivalent	Items 3.13 Withdrawn
TERLOP'S OFFICE	3.21 - 24 Port UTP rack mount/manageable edge switch as C1000- 24P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit (No) quantity (3)	3.21 - 48 Port UTP rack mount/manageable edge switch as C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit (No) quantity (5)
O 4 NOV 2022 O 4 NOV 2022 P O. Box 190 50103 KAKAMEGA Tel: +254 0705 59 73 60 11	3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (70)	4.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (410)
P. O. Box 190 Tel: +254 0702 - 59 73	1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)	4.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon)
	Unit (No) quantity (30)	Unit (No) quantity (410)
	4.5 - S110 (100 pair) cross connector punch down blocks	Items 4.5 – 4.9 Withdrawn
	4.6 - S110 to RJ45; 1m cat 6e patch cord	

	 4.7 - 3m, RJ45 to RJ11; cat 6e patch cord 4.8 - 50 pair cat 6e link from disease to S110 termination block unit. 4.9 - Distribution cases (KRONE type Disease) as follows: (a) 20 Pair Disease (b) 100 Pair Disease 	
P. O. Box 190 - 50103 K3	4.12 - 24 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent 4.3 - 24 Port 1UH Cat 6 Voice Patch Panel as siemon or approved equivalent	4.12 - 48 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent. Unit (No) quantity (5) Items 4.3 Withdrawn
	4.23 - 24 Port UTP rack mount/manageable edge switch as C1000- 24P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit (No) quantity (1)	4.23 - 48 Port UTP rack mount/manageable edge switch as C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit (No) quantity (5)
	4.24 - 24 Port UTP rack mount/manageable <u>core</u> switch as Catalyst 9200L 24-port PoE+ 4x1G uplink Switch, Network Essentials or approved equivalent Unit (No) quantity (1)	4.24 - 24 Port UTP rack mount/manageable fiber core switch as Catalyst C9300X-24Y- A- or approved equivalent Unit (No) quantity (1)
	4.27 - 3KVA UPS as APC manufacture or approved equivalent. Unit (No) quantity	4.27 - 3KVA UPS rack mount as APC manufacture or approved

	(1)	equivalent. Unit (No) quantity (1)
	5.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (50)	5.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (160)
	5.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (30)	5.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (160)
04 NGV 202 P O. Box 190 - 50103 Tel: +254 0702 - 50	5.5 - S110 (100 pair) cross connector punch down blocks 5.6 - S110 to RJ45; 1m cat 6e patch cord 5.7 - 3m, RJ45 to RJ11; cat 6e patch cord 5.8 - 50 pair cat 6e link from discase to S110 termination block unit. 5.9 - Distribution cases (KRONE type Discase) as follows:	Items 5.5 – 5.9 Withdrawn
	(a) 20 Pair Discase 5.12 - 24 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent Unit (No) quantity (3)	5.12 - 48 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent Unit (No) quantity (4)
	5.13 - 24 Port 1UH Cat 6 Voice Patch Panel as siemon or approved equivalent	Items 5.13 Withdrawn
	5.21 - 24 Port UTP rack mount/manageable edge switch as C1000-	5.21 - 48 Port UTP rack mount/manageable edge switch as

	Switches or approved equivalent. Unit (No) quantity (3) 6.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity	C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit (No) quantity (4) 6.3 - 3m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (165)
	cord (Nexans/Siemon) Unit (No) quantity	6.4 - 1m, RJ45 to RJ45 UTP cat 6e Partch cord (Nexans/Siemon) Unit (No) quantity (165)
VICE CHAN	punch down blocks 6.6 - S110 to RJ45; 1m cat 6e patch cord 6.7 - 3m, RJ45 to RJ11; cat 6e patch cord 6.8 - 50 pair cat 6e link from discase to S110 termination block unit.	Items 6.5 – 6.9 Withdrawn
P.O. B.	6.12 - 24 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent Unit (No) quantity (3)	6.12 - 48 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent Unit (No) quantity (4)
	6.13 - 24 Port 1UH Cat 6 Voice Patch Panel as siemon or approved equivalent	Item 6.13 Withdrawn
	mount/manageable edge switch as C1000- 24P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit	6.21 - 48 Port UTP rack mount/manageable edge switch as C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit (No) quantity (4)

V CE CHANCELLOES OFFICE MAINDE MULIPO UNIVERSIDO DE MAINDE MULIPO UNIVERSIDO DE MANORE & TECHNO O 4 NOV 2022 P.O. Box 100 50102 KAKAMU	7.5 - S110 (100 pair) cross connector punch down blocks 7.6 - S110 to RJ45; 1m cat 6e patch cord 7.7 - 3m, RJ45 to RJ11; cat 6e patch cord 7.8 - 50 pair cat 6e link from discase to S110 termination block unit. 7.9 - Distribution cases (KRONE type Discase) as follows: (a) 20 Pair Discase 7.12 - 24 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent Unit (No) quantity (3) 7.13 - 24 Port 1UH Cat 6 Voice Patch Panel as siemon or approved equivalent 7.21 - 24 Port UTP rack mount/manageable edge switch as C1000- 24P-4X-L - Cisco Catalyst 1000 Series Switches or approved equivalent. Unit	7.12 - 48 Port 1UH Cat 6 UTP Patch Panel as siemon or approved equivalent Unit (No) quantity (4) Item 7.13 Withdrawn 7.21 - 48 Port UTP rack mount/manageable edge switch as C1000-48P-4X-L - Cisco Catalyst 1000 Series Switches or approved
785-1	(No) quantity (3)	equivalent. Unit (No) quantity (4)
SCHEDULE 2B	: - CCTV INSTALLATIONS.	
	24 Port switch with POE capacity As CISCO WS-C2960-24PC-S Unit (No) quantity (2)	2.5 - 24 Port switch with POE capacity As CISCO C1000-48P-4X-L Unit (No) quantity (2)
	16 Port switch with POE capacity As CISCO WS-C2960-24PC-S Unit (No) quantity (12)	2.6 - 16 Port switch with POE capacity As C1000-16P-2G-L Unit (No) quantity (12)
	TENDER CLOSING DATE AND TIME	EXTENDED TENDER CLOSING DATE AND TIME

	Tuesday 8th November 2022 at 10.00 A.M	Tuesday 15th November 2022 at 10.00 A.M
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Vice Chancellor Masinde Muliro University of Science & Technology