

18	MDP and ELECTRICAL ROOM (ECB) 200AT, 3P, 240V, MCCB, NEMA1 ENCLOSURE, WITH SINGLE PHASING SENSOR TIRPPING PROTECTION, AND SURGE PROTECTION DEVICE PANEL "S", IN NEMA-1,BOLT-ON TYPE ENCLOSURE GA. 16, G.I, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, DEADFRONT AND LEVER HANDLE LOCK WITH KEY. MAIN:1-200AT/250AF, 22kAIC, 3P, 230V, MCCB; BRS: 4-30AT/100AF, 10kAIC, 3P, 230V, MCCB; BRS: 4-100AT/100AF, 10kAIC, 2P, 230V, MCCB; BRS: 4-30AT/100AF, 10kAIC, 2P, 230V, MCCB; BRS:		1	set/s					
19	UPS PANEL PANEL "U1 & U2", IN NEMA-1,BOLT-ON TYPE ENCLOSURE GA. 16, G.I, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, DEADFRONT AND LEVER HANDLE LOCK WITH KEY. MAIN: 1-100AT/250AF, 22kAIC, 3P, 230V, MCCB; BRS: 6-30AT/100AF, 10kAIC, 3P, 230V, MCB;		1	set/s					
20	RACK PANEL w/ ATS PANEL "Rack Panel", IN NEMA-1,BOLT-ON TYPE ENCLOSURE GA. 16, G.I, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, DEADFRONT AND LEVER HANDLE LOCK WITH KEY. MAIN: 2-100AT/250AF, 22kAIC, 3P, 230V, MCCB; BRS: 6-30AT/100AF, 10kAIC, 2P, 230V, MCB; AUTOMATIC TRASFER SWITCH WITH TIMER WITH 2-30AT, 2P, 10kAIC, 230B, MCB 30AT, ECB, NEMA 3R ENCLOSURE (IP65)		1	set/s					
	PULL-BOX, BOXES AND ACCESORIES								
21	Utility box deep type gauge 16 metal		16	Pcs					
22	Junction box gauge 16 metal		16	Pcs					
23	Pull Box Metal Box (NEMA 3R)		10	Pcs					
24	Pull Box Metal Box (NEMA 1)		4	Pcs					
	SYSTEM GROUNDING (Under Miscellaneous)								
25	Surge Protection Device		1	set/s					
26	5/8" X 10ft Copper Weld Ground Rod		3	Pcs					
	OTHERS – Miscellaneous and Relocation of Existing Panelboard and Circuits								
27	Relocation of Existing Panelboard and Circuits		1	lot					
28	Consumables (Terminal Lugs, Bolts, Hacksaw, Accessories, Conduit Connectors, Locknut & Bushing etc.)		1	lot					
29	Electrical Tape		15	Roll (s)					
30	3/8" Ø Expansion Bolt		50	Pcs					
31	1/2" Ø Metal Clamp		120	Pcs					
32	3/8" Ø Full Threaded Rod (3m)		15	Length					
33	2" Ø Unistrut conduit clamp		15	Pcs					
34	Rubber Tape		5	Roll (s)					
35	3/8" Drill bit		15	Pcs					

36	1/2" Drill bit		15	Pcs					
37	Tie Wire		2	Kg					
	CHSS OFFICE - ADDITIONAL POWER SUPPLY								
38	PANEL "Q (CHSS)", IN NEMA-1, BOLT-ON TYPE ENCLOSURE GA. 16, G.I, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, DEADFRONT AND LEVER HANDLE LOCK WITH KEY. MAIN:1-80AT/250AF, 22kAIC, 3P, 230V, MCCB; BRS: 4-30AT/100AF, 10kAIC, 2P, 230V, MCB; BRS: 6-20AT/100AF, 10kAIC, 2P, 230V, MCB;		1	set/s					
39	Wiring and Rough Ins INCLUDED		1	lot					
	CSM - ADDITIONAL POWER SUPPLY								
40	PANEL "CSM", IN NEMA-1, BOLT-ON TYPE ENCLOSURE GA. 16, G.I, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, WITH COMPLETE TERMINAL LUGS AND GROUNDING BUS, DEADFRONT AND LEVER HANDLE LOCK WITH KEY. MAIN: 1-100AT/250AF, 22kAIC, 3P, 230V, MCCB; BRS: 4-30AT/100AF, 10kAIC, 2P, 230V, MCB; BRS: 6-30AT/100AF, 10kAIC, 2P, 230V, MCB;		1	set/s					
41	Wiring and Rough Ins INCLUDED		1	lot					
42	Emergency Lighting Fixtures and associated battery packs		22	set/s					
	PACU								
43	INROW SPLIT INDOOR INVERTER AIR COOLED at least PACU shall be direct expansion, air-cooled Inrow. at least cooling capacity: 41.6 kW Inrow split indoor unit, inverter compressor - at least 3 years warranty - Inclusive of Supply, Installation, Startup, Testing, and Commissioning - Inclusive of Basic Preventive Maintenance (3 years, SEMI-ANNUAL)		1	lot					
	Server Rack and UPS								
44	42U Perforated Network Server Cabinet at least 600mm x 1200mm x 1991mm		1	set/s					
45	Rack PDU Switched		2	set/s					
46	UPS 10kVA/10kW(2U) On-Line UPS with Rail Kit		1	lot					
47	UPS compatible 5-20KVA External Battery Pack(3U), 1 string of 12V9Ahx20pcs		2	set/s					
48	Installation and Commissioning of Server Rack, PDU and UPS		1	lot					
	BACKUP INVERTER SPLIT TYPE AIRCON								
49	2.5 Inverter Split Type Aircon Location: Admin Data Center		2	Lot					

	with timer and mechanism to automatically alternate between the two split type Aircon								
	Includes supply, installation and commissioning of the split type aircon and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none"> Warranty: At least 3 years warranty for Outdoor PCB At least 1 year warranty for parts & labor At least 5 years warranty for compressor 								
50	3HP Inverter Split Type Aircon Location: CHSS Server Room		2	Lot					
	with timer and mechanism to automatically alternate between the two split type Aircon								
	Includes supply, installation and commissioning of the split type aircon and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none"> Warranty: At least 3 years warranty for Outdoor PCB At least 1 year warranty for parts & labor At least 5 years warranty for compressor 								
51	2.5 Inverter Split Type Aircon Location:CSM Server Room		2	Lot					
	with timer and mechanism to automatically alternate between the two split type Aircon								
	Includes supply, installation and commissioning of the split type aircon and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none"> Warranty: At least 3 years warranty for Outdoor PCB At least 1 year warranty for parts & labor At least 5 years warranty for compressor 								
52	Relocation of Existing Split type aircon		1	Lot					
	Includes relocation of existing Split type Aircon in Admin Building Data Center to the CARIM Server Room								
	Includes transfer, installation and commissioning of the split type aircon and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none"> Warranty: At least 1 years warranty 								
	HCI, Enterprise Backup and Recovery and VDI								
53	HCI Server Appliance		3	nodes					
	Includes supply, installation, commissioning, configuration, documentation and training of the HCI Server Appliance and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none"> Warranty: At least 3 years warranty 								
54	HCI Server Appliance needed Software and Perpetual license		1	lot					

55	Top of Rack Switch Network Switch		2	unit/s					
	Includes supply, installation, commissioning, configuration, documentation and training of the Top of Rack Switch Network Switch and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none">Warranty: At least 3 years warranty								
56	10G SFP+ LC SR 300m MMF Transceiver		20	unit/s					
	Includes supply, installation, commissioning, configuration, documentation and training of the 10G SFP+ LC SR 300m MMF Transceiver								
	<ul style="list-style-type: none">Warranty: At least 3 years warranty								
57	10G SFP+ LC LR 10km SMF XCVR Transceiver		4	unit/s					
	Includes supply, installation, commissioning, configuration, documentation and training of the 10G SFP+ LC LR 10km SMF XCVR Transceiver								
	<ul style="list-style-type: none">Warranty: At least 3 years warranty								
58	DNS Server with perpetual Hypervisor (VMWARE)for HCI		1	unit/s					
59	Windows server 2022 datacenter - 16 core (perpetual) commercial		6	unit/s					
60	Enterprise Backup and Recovery Appliance/Server		1	lot					
	Includes supply, installation, commissioning, configuration, documentation and training of the Enterprise Backup and Recovery Appliance/Server and electrical requirements needed to function in the assigned location								
	<ul style="list-style-type: none">Warranty: At least 3 years warranty								
	Fiber Optic Cable								
61	Fiber Optic Cable Runner System for the new route of the University Fiber Backbone		1	Lot					
62	10G High Density Fiber Patch Cord		420	pieces					
63	Admin Data Center to CARIM II		1	Lot					

	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
64	Admin Data Center to CHSS Cultural Complex		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
65	Admin Data Center to Proposed Student Dormitory		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
66	Admin Data Center to Proposed Faculty and Staff Housing		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
67	Admin Data Center to CHSS Data Center (NEW)		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								

68	Admin Data Center to Existing Football Stadium		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
69	Training Gym to Football Stadium		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
70	Admin Data Center to PPO/FORMER HKC Building		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
71	Admin Data Center to SOM Building		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
72	Kalimudan to Coconut Tissue Culture Building		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								

73	Carim II to Carim I		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
74	Carim II to Carim III		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
75	CSM to Infectious Disease Building		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
76	CSM to NICER Building		1	Lot					
	Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								
	Pulling, testing and termination of fiber optic cores to designated ODF								
	Fiber Optic Cable Rehabilitation								
77	CSM Building to CSM Dorm ANNEX Building		1	Lot					
	Repair and Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation								
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout								
	Repair, Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials								

	Pulling, testing and termination of fiber optic cores to designated ODF									
78	CSM Building to CSM Dorm ANNEX II Building		1	Lot						
	Repair and Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation									
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout									
	Repair, Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials									
	Pulling, testing and termination of fiber optic cores to designated ODF									
79	Admin Building to Guard House		1	Lot						
	Repair and Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation									
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout									
	Repair, Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials									
	Pulling, testing and termination of fiber optic cores to designated ODF									
80	Admin Building to EBL Building		1	Lot						
	Repair and Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation									
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout									
	Repair, Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials									
	Pulling, testing and termination of fiber optic cores to designated ODF									
81	Re-termination of Other Buildings		1	Lot						
	Repair and Supply of Fiber Optic Cable (FOC), PE protective pipes and all necessary materials needed for cable layout and installation									
	Combination of aerial & canal system, direct underground burial and concrete underground burial FOC layout									
	Repair, Supply and installation of fiber optic housing hardware, fiber optic patch panel (LIU) and other necessary equipment and materials									
	Pulling, testing and termination of fiber optic cores to designated ODF									
82	Transfer and Retermination of the 78 ports fibers in Admin building to the new location and the new High Density Optical Distribution Frame		1	Lot						

Duly authorized to sign the Bid for and behalf of: _____