

ENERGY MONITORING SYSTEM (EMS) AT IIUM KUANTAN CAMPUS

	DESCRIPTION	QTY	BRAND PERPOSED	PER UNIT	TOTAL
1	To wiring cable signal for all DPM to network box at substation OCD (size 14 AWG-2core) *METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-3 unit	50M			
	To wiring soket outlet 13amp single (size cable 2.5mm included soket and base soket)	10M			
	To supply and install device converter rs485	1			
2	To wiring cable signal for all DPM to network box at substation KOS 1 (size 14 AWG-2core) *METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-3 unit	45M			
	To supply and install device converter rs485	1			
3	To wiring cable signal for all DPM to network box at substation KOS 2 (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-3 unit	45M			
	To supply and install device converter rs485	1			
4	To wiring cable signal for all DPM to network box at substation KOM (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-4 unit	60M			
	To supply and install device converter rs485	1			
5	To wiring cable signal for all DPM to network box at substation EDUCARE (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-3 unit LV-1 unit	35M			
	To wiring soket outlet 13amp single (size cable 2.5mm included soket and base soket)	5M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			

6	To supply converter rs485 in substation SPORT *METERS BRAND MIKRO AND KLEMSAN	1			
7	To wiring cable signal for all DPM to network box at substation KAHS (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-3 unit	70M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	10M			
	To supply and install device converter rs485	1			
8	To wiring cable signal for all DPM to network box at substation OSC (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-3 unit LV-1 unit	30M			
	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	5M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			
9	To wiring cable signal for all DPM to network box at substation OSEM (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-3 unit LV-1 unit	35M			
	To supply and install device converter rs485	1			
10	To wiring cable signal for all DPM to network box at substation KON (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-3 unit LV-2 unit	30M			
	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	5M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			
11	To wiring cable signal for all DPM to network box at substation KOP (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-3 unit	75M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			
12	To wiring cable signal for all DPM to network box at substation SSU (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit	15M			
	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	5M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			
13	To wiring cable signal for all DPM to network box at substation LIBRARY (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-3 unit	40M			
	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	5M			
	To supply and install network box (size 4U 53*24*40cm)	1			

	To supply and install device converter rs485	1			
	To wiring cable signal for all DPM to network box at substation KOD (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-4 unit LV-4 unit	40M			
14	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	10M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			
	To wiring cable signal for all DPM to network box at substation MAIMUNAH (size 14 AWG-2core)*METERS BRAND MIKRO AND KLEMSAN HT-1 unit LV-2 unit	25M			
15	To wiring socket outlet 13amp single (size cable 2.5mm included socket and base socket)	10M			
	To supply and install network box (size 4U 53*24*40cm)	1			
	To supply and install device converter rs485	1			
	To supply and install device converter rs485 in substation PPU(*METERS BRAND MIKRO AND KLEMSAN)	4			
16	To wiring cable signal for all DPM to network box at PPU (size 14 AWG-2core)	70M			
18	sim card for network to icloud portal 1years	19			
19	server icloud portal save data 1years	1			
GRAND TOTAL					