UCEP Bangladesh

Specification for the Equipment of 4ir Lab setup

Materials Delivery Location: UCEP Rajshahi TVET Institute, UCEP Rajshahi Region

Sl.	Name of the Item	Specification	Qty	UoM	Unit Price	Total Price
					BDT	BDT
1	Computer for PLC Programming (Desktop PC)	Desktop PC Configuration Processor: Intel Core i5 14400 14th Gen Raptor Lake Processor:2.5-3.5 Ghz, RAM: 16GB DDR4 3200MHz, Mother Board: GIGABYTE H610M K DDR4 Micro ATX Motherboard, 14th. Generation Intel® Core, Storage: 512GB M.2 PCIe Gen4 NVMe SSD. Monitro: 21.45" 100Hz Full HD Business Monitor, Brand: HP/DEL UPS: Power 650VA Offline, T-Wolf Ironcore Office mATX Mid Tower Casing With 200W PSU, A4TECH 3000N V-TRACK 2.4G Wireless BANGLA Keyboard, A4TECH FG10 Fstyler Wireless Mouse	1	Set		
2	SIMATIC S7-1200 CPU, Including Programming Software TIA-V19 Floating Licence, Lifetime	CPU 1214C, compact CPU, DC/DC/DC, onboard I/O: 14 DI 24 V DC; 10 DO 2 A; 2 AI 0-10 V DC, power supply: AC 85-264 V AC at 47-63 Hz, Brand: SIEMENS Germany, Made in China	2	No		
3	SIMATIC S7-1200 Analog Module	SM 1234 analog input/output module SM 1234 AI 4 x 13 bit / AQ 2 x 14 bit. Part No number. 6ES7234-4HE32-0XB0. Dimensions W x H x D ,Brand: SIEMENS Germany, Made in China	1	No		
4	SIMATIC S7-1200, Communication Module	SIMATIC S7-1200, Communication Module CM 1241, RS422/485, 9-pole D-sub, Part No.6ES7241-1CH32-0XB0, Brand: SIEMENS Germany, Made in China	1	No		
5	SIMATIC S7-1200 Temperature Module	SAnalog Input Module SM1231 Part No.6ES7231-5PD32-0XB0, 4xAI RTD Brand: SIEMENS Germany, Made in China	2	No		

Sl.	Name of the Item	Specification	Qty	UoM	Unit Price BDT	Total Price BDT
6	Human Machine Interface HMI with Programming Software	DOP-110IG Series,DOP-100 Series Display Size and Type: 10.4" TFT LCD, Display Colors: 16-bit, Resolution (pixels): 800 x 600 Luminance (cd/m2): 300, MCU:ARM Cortex-A8 (800 MHz), Flash ROM (Bytes) 256 RAM (MB) 256, USB 1 USB Slave Ver 2.0 / 1 USB Host Ver 2.0, COM1 RS-232 COM2RS-232 (supports hardware flow control) / RS-485, COM3RS-232 (supports hardware flow control) / RS-422 / RS-485, Brand: Taiwan, Made in China	2	No		
7	SINAMICS V20 VFD	Part No:6SL3210-5BB21-5UV1;Rated Power:1.5KW;Nominal …3 phase Output, Input AC220V , Brand: SIEMENS Germany, Made in China	2	No		
8	Delta 750W AC servo systems(Drive+Motor+All Connectiopn Cable)	ASDA-B2 or ASDA-A2 series, offer high-precision motion control for industrial automation, featuring 220VAC input, 3000 RPM rated speed, and a 2.39 Nm rated torque (7.16 Nm peak), Brand: Delta Taiwan, Made in China	1	No		
9	Onboard Spear Parts and Fixing Accessories	Control Cable: 0.5 rm = 1coil, Power Cable: 2rm = 40 yards Relay 24vdc, 14pin with base (Schneider Electric) = 7pcs, MCB, TPN-63A (Schneider Electric) =1pcs, MCB, SP-16A (Schneider Electric) = 4pcs, Proximity sensor (PNP/NPN)-1pcs, Photo sensor (PNP /NPN) – 1pcs, Voltage Protector AC 220V = 1pcs, Push Switch=2pcs, Selector Switch=2pcs, Toggle Switch=2pcs, Limit Switch=1pcs, Rotatory encoder= 1pcs, Magnetic Contact = 3pcs, Overload Relay=1pcs, Industrial Connector=30pcs, Potentiometer 5K=1pcs, Cable tie and cable lugs , Industrial Tower Lamp-R, Y, B with buzzer Signal=1set, Operator Panel=1 set, Network Router=1pcs, Brand: China, Made in China	1	Lot		

Sl.	Name of the Item	Specification	Qty	UoM	Unit Price BDT	Total Price BDT
10	Industrial IoT Gateway	Model: Miot5 , Brand / Origin: China Security: Verified & Password Protected Access Connectivity: Bridged Remote Web Dashboard & Cloud integration, PLC Memory: Read/Write all Digital & Analog registers, Motor Parameters: Live monitoring of Ampere, RPM, Frequency, & Run-Stop status, Sensor Telemetry: Read Encoder Data, Temperature, & Pressure Actuator Operations: Remote command over Relays, Magnetic Contactors, Solenoid Valves, & Pneumatic Cylinders, Domain Service: Dedicated URL routing for 36 Months, Global browser-based access and remote operations	1	No		
11	Power Supply for S7 1200 PLC Unit	SIEMENS Power Supply- SITOP PSU100S – 1no power supply input: 120/230 V AC output: 24 V DC/5 A Brand Siemens Germany, Made in Austria	2	Pcs		
12	Panel Type Trainer Steel + Wooden Table	Table Dimension: Table bade wooden: L-48 inch x W-28 inch, Steel Table Fream 4 leg H- 26inch + 2 inch wheel=4pcs, break type, Table Features: a) Build with PLC panel on the tabletop bead (L48=inch x W=8 inch, h- 28 inch, Table Features: b) Build with 22 inch Monitor and CPU mounting kit, Table Features: c), Build with induction motor mounting paddle, Table Fream Holobox and Open Type Panel Sheet Thikness: 1mm, powder coated, with all necessary, component mounting, cutting and hole, Brand: BD, Made in BD	1	Set		
13	Induction Motor	0.75KW, 3phase 440	3	Pcs		
14	Heating Cooling Experiment Panel	Panel Size: 10 inch x 12 inch, including 200W Heter, Cooling Fan, RTD Sensor, and Heter+Cooling Fan Indecator	1	Set		
15	Pneumatic Control System	Solenoid Valve (Airtech/SMC) 0.15-0.8 MPa, 24vdc – 3nos Pneumatic Cylinder, SMC, MA20x40, 0.7MPa – 2nos Air Control Regulator 10bar – 1no Pressure Transmitter (WIKA)- 0-10 bar, 4-20ma, 24vdc – 1no Made in China	1	Set		

Sl.	Name of the Item	Specification	Qty	UoM	Unit Price BDT	Total Price BDT
16	Air Compressor	•VOLTAGE: 220V-240V, Tank Capacity: 12L, Including Oil Water Separator Regulator Trap Filter •FREQUENCY: 50/60Hz •EXHAUST PRESSURE: 0.7Mpa •DIAPLACEMENT:45L/min •MOTOR POWER: 700W •SPEED: 1500RPM, Brand: China, Made in China	1	Set		
17	Connecting Wire for External Control Circuit	Black: 0.65 RM: 3 Feet, including I & U lugs-both end=10nos, Red: 0.65 RM: 3 Feet, including I & U lugs-both end=10nos, Blue: 0.65 RM: 3 Feet, including I & U lugs-both end=10nos	1	Set		
18	Liquid Level Transmitter	Model: WRT-136, Range: 0-5M Supply:12-36VDC, Output:4-20mA Brand: China, Made in China	1	Pcs		
19	Infrared Temperature Sensor	HW-DT100, 0-200C Range, Output: 4-20mA Brand: China, Made in China	1	Pcs		
20	PLC Lab Setup	Along with the PLC equipment and lab setup, they will also provide an training of the programs. (7 days training)	1	Lot		
21	**02 years warranty period for all the products**					
	Sub Total Without VAT					
	Add VAT as per Govt Rules					
	Grand Total including VAT & AIT as per Govt Rules					