

Sl.	Name of the Item	Specification	QTY	UOM	Unit Price BDT	Total Price BDT	Justification/Remarks
1	Siemens CPU 1200	Product type designation : CPU 1214C AC/DC/relay. SIMATIC S7-1200, compact CPU, onboard I/O: 14 DI 24 V DC; 10 DO relay 2 A; 2 AI 0-10 V DC, power supply: AC 85-264 V AC at 4763 Hz, program/data memory 150 KB Firmware version V4.6;	1	Nos			Module: 4IR01 A (Smart Industrial Automation & IoT-Enabled Control System) module will be developed by assembling these components.
2	SIMATIC S7-1200, Digital input SM 1221, 8 DI, 24 V DC, Sink/Source	Product type designation SM 1221, DI 8x24 V DC. Supply voltage: Rated value (DC) 24 V permissible range, lower limit (DC) 20.4 V permissible range, upper limit (DC) 28.8 V Input current: from backplane bus 5 V DC, max. 105 mA. Digital inputs: from load voltage L+ (without load), max. 4 mA; per channel: output voltage / header; supply voltage of the transmitters / header: present Yes Power loss, typ. 1.5 W	1	Nos			
3	Digital Output Card SM 1222 DQ8 x relay	SIMATIC S7-1200, Digital output SM 1222, 8 DO, 24 V DC, transistor 0.5 A	1	Nos			
4	Human Machine Interfacing	Product type designation: MP277 HMI 10inch-6AV6-643-0CD01-1AX1 Design of display :TFT Screen diagonal: 10.4 inches diagonal Configurable with Siemens WinCC flexible 2005 Standard SP1 software Number of colors: 65,536 Type of supply voltage: DC Rated value (DC): 24 V	1	Nos			
5	VFD 1.5 KW Support IoT Coms	Input Frequency : 50/60Hz Origin: Zhejiang, China Link of Transformation: AC-AC Variable-Frequency Drive Protection Grade: IP20	1	Nos			
6	Single Phase Motor	Input Voltage: 220V/380V Power: 1.5 KW. Horsepower: 2 HP Speed: 1440 rpm. No. of Poles: 4 Voltage: 220 V. Mounting Type: Foot Frequency: 50 Hz. IP Rating: IP55 Material: Aluminium Frame	1	Nos			



7	Computer	Lenovo ThinkCentre Core i7 12th Gen Brand PC, BPC M70S Gen3(11TBS21K00) Processor: Intel Core i7-12700. RAM: 8GB Storage: 512GB SSD. Lenovo Original USB Keyboard & Mouse. Monitor: Lenovo, Warranty 3 Years MPN: 67AFKACBMY. Model: L22e-40 Resolution: FHD (1920 x 1080) Display: 21.45", VA, 75Hz, Anti-glare, 72% NTSC. Ports: 1xHDMI1.4, 1xVGA Features: Low Blue Light, AMD FreeSync Warranty: 3 Years	1	Nos		
8	Industrial Switch	FL SWITCH 1005N- Industrial Ethernet Switch	1	NoS		
9	IoT Networking Device	SIMATIC IOT2020; DC 9...36 V; Max. 1.4 A; RAM SIMATIC IOT2020: 512 MB; BIOS SPI Flash 8 MB	1	set		
10	Raspberry Pi 4 Model B 8GB Complete Set	Raspberry Pi 4 Model B 8GB complete Set including case, SD card, micro HDMI adapter and power adapter. Product package contains: 1. Raspberry Pi 4 Model B 8GB RAM 2. 5V 3A 15 Watt USB type C Power Adapter 3. Red and white Case 4. 32GB UHS-I Micro SD Card Flashed with Latest Raspbian Buster Operating System 5. Micro HDMI to Standard HDMI Adapter	2	Nos		Module: 4IR02 A (IoT Microcontroller & Sensor Network for Industrial Automation) module will be developed by assembling these components & others accessories.
11	Arduino Mega 2560 R3 (Original) with cable	Microcontroller: ATmega2560 Clock: 16MHz ; Flash Memory: 256KB SRAM: 8KB; EEPROM: 4KB; Operating Voltage: 5V ; Input Voltage: 7-12V DC ; I/O Pins: 54 (of which 15 provide PWM output) ADC: 16 ; LED_BUILTIN: 13 ;Length: 101.52mm Width: 53.3mm; Weight: 37g	1	Nos		
12	S500 carbon fiber frame	Drone and Accessories	1	NoS		Module: 4IR03
13	dji 820 kb blidc motor		3	NoS		
14	favourite little bee 30 A		3	NoS		
15	Pixhawk 2.4.8 PX4 autopilot flight controller wpdte barometer		1	NoS		A (Smart Aerial Monitoring & Industrial Inspection System) module will be developed by assembling these components.
16	Skydroid T10		1	set		
17	SkYdroid Two axis gimbal camera		1	NoS		
18	1045 self locking propeller for drone 1CW+2CCW		2	pair		
19	samsung 4s custom battery		2	NoS		
20	Flysky FS i6x10CH 2.4ghz RC transmitter with FS-iA10B Receiver		1	NoS		



21	3D Printer	Model: Neptune 4 Pro 3D Technology: FDM; Brand: ELEGOO Country/Region of Manufacture: UK Features: Adjustable Layer Thickness, Adjustable Print Speed, On-Printer Controls Filament compatibility: PLA, ABS, TPU, PETG, Wood, Marble, etc Filament detection: Yes; File format: stl, .obj, .amf File transfer: USB drive off-line printing Interface: USB, USB 2.0 Item Height: 515mm; Item Length: 475 mm Item Width: 445 mm; Manufacturer Warranty: 1 Year; MAX. hotbed temperature: 110° Celsius MAX. nozzle temperature: 300° Celsius	1	NoS		Module: 4IR04 Additive Manufacturing & Rapid Prototyping System
22	DC Power Supply	30V/-5A, Brand: Twintex, Model: TP-1305EC, Country of origin: Taiwan, Country of manufacture: China	1	Nos		Tools & Equipment for 4IR lab
23	Variac	Brand: Twintex, Model: TDC3KVA, Country of origin: Taiwan, Country of manufacture: China	1	Nos		
24	Digital Storage Oscilloscope (100MHz)	Product Code: MOS005, Model: 1202C+ Brand: Twintex, Origin: Taiwan, China Features: 70MHz, 100MHz, 150MHz and 200MHz bandwidth, 7- inch TFT LCD, WVGA (800*480), Vertical sensitivity: 1mV/div~20V/div, Time-based range: 2ns/div~50s/div 5,000wfms/s waveform acquisition rate 34 auto measurements, Memory depth 64kpts USB drive system software upgrade, USB interface: USB Host, USB Device, pass/Fail	1	Nos		
25	Analogue Portable Wattmeter	Model: ST-2000W, Origin: Taiwan Principle : Electrodynamicometer type See Datasheet for Ranges available Accuracy : ±0.5% of full scale Scale Length : Approx. 135mm(5-3/8") Scale Divisions : 120 Frequency Ranges : AC 25 to 1000Hz (COSØ=1.0) (suitable for DC) AC 25 to 500Hz (COSØ=0.2)	1	Nos		
Sub Total without VAT						
ADD VAT As per Govt Rules						
Grand Total including VAT & AIT As per Govt Rules						-

