Appendix 61

PURCHASE ORDER

ILOILO SCIENCE AND TECHNOLOGY UNIVERSITY

DOC # 70378

Burgos St., LaPaz, Iloilo City

11		YSTEMS INTEGRATION INC.		P.O. No. : 20	AND RESIDENCE OF THE PARTY OF T	
Address:				Date: July 5, 2024		
IN:	602-662	-700-000 Mode of Pro	Mode of Procurement:		Small Value Procurement	
Gentlemer	1:	or production of the second se				
I	Please fu	rnish this Office the following articles subject to the terms and conditions cont		1:		
lace of Delivery. Burgos street, and the			ery Term:	45 Calendar Days upon receipt of P.O		
Date of Delivery: Payment Te			ent Term:	CHARGE		
Stock/						
Property No.	Unit	Description	Quantity 4	Unit Cost 4,296.00	Amount 17,184.00	
1	sets	SOIL SENSOR Brand: MODBUS Model: RS485 Soil Sensor 7 in 1 Measure Items: Temperature, Humidity, Conductivity(EC), PH, Nitrogen, Phosporus, Potassium Power Supply: DC 4.5-30V Max Power consumption:0.5W @ 24V DC Protection Class: IP68, Long term immersion in water use Cable length: default is 2m (can be customized) Operating Environment: -40°C - 80°C Overall Dimensions: 45*15*123mm Output: RS485/4-20mA/0-5V/0-10V	4	4,230.00	17,10 1100	
2	sets	RADIO COMMUNICATOR Brand: AI-THINKER Model: RA-01 LORA Packaging: SMD-16 Size: 17*16*(3.2±0.1)mm Communication, Interface: SPI Programmable bit rate: up to 300Kbs Spectrum range: 410-525MHz Maximum Tranmission power: 18±1dBm Average Working Current: 433MHz: TX: 93mA RX: 12.15mA Standby: 1.6mA 470MHz: TX: 97mA RX: 12.15mA Standby: 1.5mA Power Supply range: 2.5-3.7V, typical value 3.3V Working Temperature: -30°C - 85°C Storage Environment: 40°C~90°C; 90°C RH	8	672.00	5,376.00	
3	pcs	MICROCONTROLLER Brand: PCBFUN Model: Nodemcu V3 Esp8266, Esp-12E Wi-Fi Communication interface voltage: 3.3V. Antenna type: Built-in PCB antenna is available. Wireless: 802.11 b/g/n standard, WiFi: 2.4GHz, support WPA / WPA2 security mode, Support STA/AP/STA + AP three operating modes, Built-in TCP/IP protocol stack to support multiple TCP Client connections (5 MAX) D0 ~ D8, SD1 ~ SD3: used as GPIO, PWM, IIC, etc., port driver capability 15mA AD0: 1 channel ADC Power input: 4.5V ~ 9V (10VMAX), USB-powered Current: continuous transmission: ≈70mA (200mA MAX), Standby: <200uA Transfer rate: 110-460800bps Support UART / GPIO data communication interface Remote firmware upgrade (OTA) Flash size: 4MByte	5	528.00	2,640.00	
4	pcs	MICROCONTROLLER BRAND: PCBFUN MODEL: Pcbfun ESP32 ESP32S CP2102 2.4GHz, WiFi+Bluetooth Development Board Input Voltage: 3.3-12V (using appropriate pins) This board is used with 2.4 GHz dual-mode Wi-Fi and Bluetooth chips by TSMC 40nm low power technology, power and RF properties best, which is safe, reliable, and scalable to a variety of applications.	5	648.00	3,240.00	
		Part 1 of 2		Sub-Total	28,440.00	
(Total An	nount in	Words): Forty One Thousand One Hundred Thirty Eight Pesos Only				
In ca	ase of fa	ilure to make the full delivery within the time specified above, a penalty	of one-tent	h (1/10) of one	percent for every day	
		imposed on the undelivered item/s.	Very truly	Voure 1		
Co	onforme:		very truly	yours,		
		AEP SYSTEMS INTEGRATION INC.	pı	ISS ALL EN R	. NAPUD, DIT	
		Name of Supplier			ion and Finance	
		1 6 JUL 2024			/	
		Date		1 8 JUL Dat	e e	
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PURCHASE ORDER

ILOILO SCIENCE AND TECHNOLOGY UNIVERSITY

DOC # 70378

P.O. No.: 2024-07-185

Burgos St., LaPaz, Iloilo City

	: AEP SYSTEMS INTEGRATION INC.				P.O. No.: 2024-07-185	
		ervana St. Divinaracia Lapaz, Iloilo City			Date : July 5, 2024 Small Value Procurement	
TIN:		-700-000 Mode of Prod	-	Gillali Vi	and i roundinent	
Gentlemen	n: Please fir	rnish this Office the following articles subject to the terms and conditions conta	ained herein	:		
Place of Delivery: Burgos Street, La Paz, Iloilo City Delivery Term:					45 Calendar Days upon receipt of P.O	
Date of Delivery: Payment Term:				CHARGE		
Stock/		Description	Quantity	Unit Cost	Amount	
Property No.	Unit	Description	Quantity	Onit Cost		
5	set	MICROCOMPUTER	1	8,832.00	8,832.00	
		BRAND: RASPBERRY PI MODEL: RASPBERRY PI 4 Broadcom BCM2711, Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz				
,		4GB LPDDR4-3200 SDRAM 2.4 GHz and 5.0 GHz IEEE 802.11 ac wireless, Bluetooth			п	
		5.0, BLE Gigabit Ethernet 2 USB 3.0 ports; 2 USB 2.0 ports. Raspberry Pi standard 40 pin GPIO header (fully backward compatible with previous boards) 2 ×				
		micro-HDMI ports (up to 4kp60 supported) 2-lane MIPI DSI display port 2-lane				
=		MIPI CSI camera port 4-pole stereo audio and composite video port H.265 (4kp60 decode), H264 (1080p60 decode, 1080p30 encode) OpenGL ES 3.0 graphics				
		Micro-SD card slot for loading operating system and data storage 5V DC via USB-				
		C connector (minimum 3A*) 5V DC via GPIO header (minimum 3A*) Power over Ethernet (PoE) enabled (requires separate PoE HAT) Operating temperature: 0 –				
		50 degrees C ambient Comes with plastic cover				
		SIGNAL CONVERTER	5	82.00	410.00	
6	pcs	BRAND: Makerlab MODEL: RS485 to TTL Serial Level Signal		101		
L.		Converter Module MAX485 Features MAX485 chipset Working Voltage: 5V		1		
		5.08mm (0.2") pitch, 2-pin terminals for RS-485 easy communication and wiring 4-pin 2.54mm (0.1") pitch headers for RS485 and Power 4-pin 2.54mm (0.1") pitch				
		headers for DI,DE,RE,RD signals PCB Board Size: 44 x 14mm				
7	pcs	LIQUID FLOW SENSOR	6	312.00	1,872.00	
1	Pes	BRAND: SEAFLO				
		MODEL: YF-S201 DC 5-18V 1-30L/min 2.0MPa Water Flow Sensor External Threads: 1/2" Temperature: -25~+80 Provide pressure: pressure 1.75-				
		2.0Mpa Operating humidity range: 35%~90%RH (no frost) Use temperature: 80				
		Load capacity: 10 mA (DC 5V) Working voltage range: DC 5~18 v Maximum working current: 15 mA (DC 5V) Minimum Working Voltage: DC 4.5 5V-24V Size:				
		6x4cm Color: BlacK				
8	pcs	WIFI ADAPTOR MODULE	4	396.00		
		BRAND: Makerlab		Sub-Total	12,698.00	
		MODEL: ESP8266 Serial WiFi Wireless ESP-01 Adapter Module Arduino UNO R3 and the compatible board can directly connect to this module.				
		Warranty Period: 1 year				
		***** Nothing Follows ***** For official use: for the research project entitled, SEEDS Farming: Smart and energy-efficient				
		design system for farming. (Former Title: Smart, Sustainable, and energy efficient fertigation				
		system) - Project Leader: Alex Ledonio Requested by: Richard C. De Leon				
		Part 2 of 2		Grand Total	41,138.00	
(Total Ar	nount in	Words): Forty One Thousand One Hundred Thirty Eight Pesos Only				
In c	ase of fa	ilure to make the full delivery within the time specified above, a penalty	of one-tent	h (1/10) of on	e percent for every day	
		imposed on the undelivered item/s.	Very truly	yours.	Λ	
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		Affind	Amount		41,138.00	
	***************************************	JESSICA M. GENZOLA				
AND DESCRIPTION OF THE PERSON		Accountant IV	50 150 0	20	Love20	