



**PURCHASE ORDER**

05-04-2023 - CAT - ICT Supply

Supplier : MICRODATA SYSTEMS AND MANAGEMENT, INC.	P.O. No. : 23-05-220
Address : Crystal Bldg. 199 CM Recto St., Addition Hills San Juan City, Metro Manila	Date : May 3, 2023
Tel.No. : 705-7777	RC Code : 113 / ICTO
TIN : 000-132-948-000 / Philgeps no.: 2001-483029	Mode of Procurement Public Bidding

**GENTLEMEN :**

Please furnish this office the following articles subject to the terms and conditions contained herein.

Purpose : Additional AP for the entire CNU campus	Delivery Term : 30 calendar days upon receipt of NTP
Place of Delivery : Cebu Normal University	Payment Term : Through ADA from 5 to 7 days after complete delivery
Date of Delivery : June 2, 2023	

Acct Code	Qty	Unit	Description	Unit Cost	Total Amount
	80	units	Indoor Access Point - Aruba AP-505 (RW) Unified A - Country of Origin: USA  Dual Radio: 5 Ghz and 24 Ghz 802.11ax 2x2 MIMO Up to 256 associated client devices per radio 16 BSSIDS per radio Supported Frequency Bands: • 2.400 to 2.4835GHz ISM • 5.150 to 5.250GHz U-NII-1 • 5.250 to 5.350GHz U-NII-2A • 5.470 to 5.725GHz U-NII-2C • 5.725 to 5.850GHz U-NII-3/ISM • 5.850 to 5.895GHz U-NII-4 Supported Radion Technologies • 802.11b: Direct-sequence spread-spectrum (DSSS) • 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM) • 802.11ax: Orthogonal frequency-division  multiple access (OFDMA) with up to 8 resource units Supported Modulation Types: • 802.11b: BPSK, QPSK, CCK • 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM (proprietary extension) • 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM (proprietary extension) • 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM	21,697.50	1,735,800.00

PAGE 1 OF 4 SHEETS	GROSS PAYABLE AMOUNT	1,735,800.00
	DISCOUNT, if any	-
	NET PAYABLE AMOUNT	1,735,800.00

**GRAND TOTAL**

is on page 4

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth ( 1/10) of 1 percent for every day of delay shall be imposed.

CONFORME :

*Ray Montemayor*  
 SUPPLIER'S SIGNATURE OVER PRINTED NAME and DATE

FILOMENA T. DAYAGBIL, Ed.D.  
 OIC - SUC President III

Funds Available :

ROCHE P. OCAMPO  
 Accountant

ALOBS NO. :  
 AMOUNT :



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 Date of Delivery : June 2, 2023  
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 Payment Term : Through ADA from 5 to 7 days after complete delivery

Acct Code	Qty	Unit	Description	Unit Cost	Total Amount
	20	units	Power Sources: The AP supports direct DC power and Power over Ethernet Dimensions/Weight: 160mm (W) x 161mm (D) x 37mm (H) 500g Should be included in the Gartners Leaders Quadrant as of 2020  Outdoor Access Point - Aruba AP-565 (RW) Outdoor 11ax AP - Country of Origin: USA Hardware Variants • 5 GHz Antennas 5.4 dBi • 2.4 GHz Antennas 3.2 dBi • BLE/802.15.4 Antennas 3.3d Bi Supported Frequency Bands: - 2.400 to 2.4835 GHz (ISM) - 5.150 to 5.250 GHz (U-NII-1) - 5.250 to 5.350 GHz (U-NII-2A) - 5.470 to 5.725 GHz (U-NII-2C) - 5.725 to 5.850 GHz (U-NII-3/ISM) - 5.850 to 5.875 GHz (U-NII-4) WIFI RADIO SPECIFICATIONS • AP type: Outdoor Hardened, Wi-Fi 6 dual radio, 5 GHz 2x2 MIMO and 2.4 GHz • Software-configurable dual radio supports 5 GHz (Radio 0) and 2.4 GHz (Radio 1) • 5 GHz:	35,000.00	700,000.00

<b>PAGE 2 OF 4 SHEETS</b>	<b>GROSS PAYABLE AMOUNT</b>	700,000.00
	<b>DISCOUNT, if any</b>	-
	<b>NET PAYABLE AMOUNT</b>	700,000.00

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CONFORME : **FILOMENA T. DAYAGBIL, Ed.D.**  
SUPPLIER'S SIGNATURE OVER PRINTED NAME and DATE OIC - SUC President III

Funds Available : **ROCHELLE OCAMPO**  
 Accountant



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Acct Code	Qty	Unit	Description	Unit Cost	Total Amount
			Two spatial stream Single User (SU) MIMO for up to 1.2 Gbps wireless data rate with individual 2SS HE80 802.11ax client devices, or with two 1SS HE80 80 MU-MIMO capable client devices simultaneously • 2.4 GHz - Two spatial stream Single User (SU) MIMO for up to 574 Mbps (287 Mbps) wireless data rate with individual HE40 (HE20) 802.11ax client devices or with two 1SS HE40 (HE20) 802.11ax MU-MIMO capable client devices simultaneously • Up to 256 associated client devices per radio • Up to 16 BSSIDs per radio Available channels: Dependent on configured regulatory domain • Dynamic frequency selection (DFS) optimizes the use of available RF spectrum • Supported radio technologies: - 802.11b: Direct-sequence spread-spectrum (DSSS) - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM) - 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 16 resource units (RU) • Supported modulation types: - 802.11b: BPSK, QPSK, CCK		

<b>PAGE 3 OF 4 SHEETS</b>	<b>GROSS PAYABLE AMOUNT</b>		-
	<b>DISCOUNT, if any</b>		-
	<b>NET PAYABLE AMOUNT</b>		0.00

**GRAND TOTAL**  
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CONFORME : 5/6/23  
 SUPPLIER'S SIGNATURE OVER PRINTED NAME and DATE  
 FILOMENA T. DAYAGBIL, Ed.D.  
 OIC - SUC President III

Funds Available : \_\_\_\_\_  
 ALOBS NO. : \_\_\_\_\_  
 AMOUNT : \_\_\_\_\_  
 ROCHE E. OCAMPO  
 Accountant



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			- 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM (proprietary extension) - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM (proprietary extension) - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM • 802.11n high-throughput (HT) support: HT 20/40 • 802.11ac very high throughput (VHT) support: VHT 20/40/80 • 802.11ax high efficiency (HE) support: HE20/40/80 • Supported data rates (Mbps): - 802.11b: 1, 2, 5.5, 11 - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 - 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM - 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM - 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40) • 802.11n/ac/ax Packet aggregation: A-MPDU, A-MSDU • Transmit power: Configurable in increments of 0.5 dBm Additional Requirements: - Service Warranty for one (1) year - With indoor/outdoor wall mount/ceiling mount bracket		

<b>PAGE 4 OF 4 SHEETS</b>	<b>GROSS PAYABLE AMOUNT</b>	-
	<b>DISCOUNT, if any</b>	-
	<b>NET PAYABLE AMOUNT</b>	0.00

<b>GRAND TOTAL</b>	IN FIGURES : <b>Php2,435,800.00</b>
	IN WORDS : <b>TWO MILLION FOUR HUNDRED THIRTY FIVE THOUSAND EIGHT HUNDRED PESOS ONLY</b>

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CONFORME : **ROMEO T. DAYAGBIL, Ed.D.**  
SUPPLIER'S SIGNATURE OVER PRINTED NAME and DATE **OIC -SUC President III**

Funds Available : \_\_\_\_\_  
**ROCHE B. OCAMPO**  
Accountant  
 ALOBS NO. : \_\_\_\_\_  
 AMOUNT : \_\_\_\_\_