



University of Science and Technology of Southern Philippines

Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
End-User Rep.: Dr. Jocelyn B. Barbosa
Location of Project: USTP-CDO Campus

Supplier	: MULTIFACTORS SALES	P.O. No.	: 23-12-1350
Address	: 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date	: December 28, 2023
E-mail Address	: engelndmj@yahoo.com	Mode of Procurement:	Public Bidding
Telephone No.	: (063) 225 - 4981 / 0917 - 711 - 3478		
TIN	: 102 - 730 - 257 - 000		
Purpose	Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023		

Gentlemen:

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

Place of Delivery	: Contact Person for Delivery: SUPPLY OFFICE, USTP-CDO Campus, Lapanan, Misamis Oriental Contact No.: 0955-882-3099	Delivery Term	:
Date of Delivery	: Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term	: Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
LOT 1 - INTERNET OF THINGS DEVICES (P2,460,000.00)					
1	pc/s	INDUSTRIAL OUTDOOR IP CAMERA WITH AI OBJECT DETECTION OFFER: UNV IPC2325SB-DZK-10 Key Features: -High quality image with 5MP, 1/2.7"CMOS sensor -5MP (2880*1620) @ 30/25fps; 4MP (2560*1440) @ 30/25fps; 3MP (2304*1296) @30/25fps; 2MP (1920*1080) @30/25fps -Ultra 265, H.265, H.264, MJPEG -LightHunter technology ensures ultra-high image quality in low illumination environment -120dB true WDR technology enables clear image in strong light scene -Support 9:16 Corridor Mode -Alarm:1 in/1 out, Audio: 1 in/1 out -Smart IR, up to 50m (164ft) IR distance -Supports 256 G Micro SD card -IK10 vandal resistant -IP67 protection -Support PoE power supply Camera -Sensor: 1/2.7",5.0 megapixel, progressive scan, CMOS -Lens: 2.7~13.5mm, AF automatic focusing and motorized zoom lens -DORI Distance: Lens (mm); 2.7, 13.5 Detect (m); 60.8, 303.8 Observe (m); 24.3, 121.5 Recognize (m); 12.2, 60.8 Identify (m); 6.1, 30.4 -Angle of View (H): 106.25° ~ 30.42° -Angle of View (V): 56.36° ~ 17.22° -Angle of View (O): 110.34 ~ 34.18° -Adjustment angle: Pan; 0° ~ 360° Tilt; 0° ~ 90° Rotate; 0° ~ 360° -Shutter: Auto/Manual, 1~1/100000s -Minimum Illumination: Colour; 0.002Lux (F1.2, AGC ON) OLux with IR on	20	54,990.00	1,099,800.00
TOTAL BROUGHT FORWARD					P 1,099,800.00

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

Checked and verified by:
MELANIE A. JALOVER
Head, Procurement Services
PR No. 2023-3482-01

Very truly yours
DR. AMBROSIO S. CULTURA II
President, USTP-System

Conforme:
ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
FEBRUARY 28, 2024

Funds Available:
Date:
LILIBETH M. GADIANE
ACCOUNTANT - FEB 4
Signature Over Printed Name of Chief Accountant/
Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
Amount : 3,199,600.00



University of Science and Technology of Southern Philippines

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Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		1,099,800.00
		-Day/Night: IR-cut filter with auto switch (ICR) -Digital noise reduction: 2D/3D DNR -S/N: >56 dB -IR Range: Up to 50m (164ft) IR range -Wavelength: 850nm -IR On/Off Control: Auto/Manual -Defog: Digital Defog -WDR: 120dB Video -Video Compression: Ultra 265, H.265, H.264, MJPEG -H.264 code profile: Baseline profile, Main profile, High profile -Frame Rate: Main Stream; 5MP (2880*1620), Max 30fps; 4MP (2560*1440), Max 30fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps Sub Stream; 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360, Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps; Third Stream: D1 (720*576), Max 30fps; 640*360, Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps -Video Bit Rate: 128 Kbps ~ 16 Mbps -OSD: Up to 8 OSDS -Privacy Mask: Up to 4 areas -ROI: Up to 8 areas -Motion Detection: Up to 4 areas Image -White Balance: Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2 -Digital Noise Reduction: 2D/3D DNR -Smart IR: Supported -Flip: Normal/Vertical/Horizontal/180°/90°Clockwise/90° Anti-clockwise -HLC: Supported -BLC: Supported Audio -Audio Compression: G.711			
TOTAL BROUGHT FORWARD				P	1,099,800.00

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Checked and verified by:
MELANIE A. JALOVER
Head, Procurement Services
PR No. 2023-2319-1

Very truly yours,
DR. AMBROSIO B. CULTURA II
President, USTP-System

Conforme: **ENGEL R. MONTERO**
MULTIFACTORS SALES

Signature over printed name of Supplier
FEBRUARY 28, 2024
Date

Funds Available:
LILIEETH M. GADIANE
ACCOUNTANT - EFP
Signature Over Printed Name of Chief Accountant/
Head of Accounting Division/Unit

BUR/ObR No. : 23-12-1037
Amount : 3,498,400.00



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TIN	: 102 - 730 - 257 - 000		
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Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		1,099,800.00
		-Two-way Audio: Supported -Suppression: Supported -Sampling Rate: 8KHZ Storage -Edge Storage: Micro SD, up to 256GB -Network Storage: ANR Network -Protocols: IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPOE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS -Compatible Integration: ONVIF (Profile S, Profile G, Profile T), API -Client: EZStation, EZView, EZLive -Web Browser: Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+, Safari 11+ Interface -Audio I/O: Input: impedance 35k0Ω; amplitude 2V [p-p] Output: impedance 600Ω; amplitude 2V [p-p] -Alarm I/O: 1/1 -Network: 1 RJ45 10M/100M Base-TX Ethernet Certifications Certifications: CE; EN 60950-1, UL; UL60950-1, FCC: FCC Part 15 General -Power: DC 12V±25%, PoE (IEEE 802.3af), Power consumption: Max 8.0 W -Material: Metal -Working Environment: -30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing) -Storage Environment: -30°C 60°C (-22°F~ 140°F), Humidity: ≤95% RH (non-condensing) -Surge Protection: 6KV -Ingress Protection: IP67 -Vandal Resistant: IK10			
TOTAL BROUGHT FORWARD				P	1,099,800.00

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Checked and verified by:

MELANIE A. JALOVER
 Head, Procurement Services
 PR No. 2023-2319-1

Very truly yours,

DR. AMBROSIO B. CULTURA II
 President, USTP-System

Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
 FEBRUARY 28, 2024

Date

Funds Available:

LILIEETH M. GADIANE
ACCOUNTANT - EFP

Signature Over Printed Name of Chief Accountant/
 Head of Accounting Division/Unit

BUR/ObR No. : 23-12-1077
 Amount : 3,198,600.00



University of Science and Technology of Southern Philippines

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PURCHASE ORDER

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 End-User Rep.: Dr. Jocelyn B. Barbosa
 Location of Project: USTP-CDO Campus

Supplier : MULTIFACTORS SALES	P.O. No. : 23-12-1350
Address : 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date : December 28, 2023
E-mail Address : engelnmj@yahoo.com	Mode of Procurement: Public Bidding
Telephone No. : (063) 225 - 4981 / 0917 - 711 - 3478	
TIN : 102 - 730 - 257 - 000	
Purpose : Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023	

Gentlemen:

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Date of Delivery : Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term : Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
TOTAL CARRIED FORWARD					1,099,800.00
3	lot	CONTROL SYSTEM (POE) WITH SOLAR POWER BACK-UP SYSTEM INCLUDING INSTALLATION MATERIALS OFFER: SUNSAVER MPPT™ SOLAR CONTROLLER Versions: SS-MPPT-15L Electrical -Peak efficiency: 97.5% -Nominal battery voltage: 12 or 24 volts -Max. battery charging current: 15 amps -Battery voltage range: 7-36 volts -Nominal Max. Output Power / Max Recommended Solar PV Input* -12 volt battery - 200W/260W -24 volt battery - 400W/520W -Max. PV open circuit voltage**: 60 volts (without damage to unit) -Rated load current: 15 amps -Self consumption: 35 milliamps -Transient surge protection: 4 x 1500 watts Environmental -Operating temperature: -40°C to +60°C May derate above the following temperature = 50°C *** -Storage temperature: -55°C to +100°C -Humidity: 100% non-condensing -Tropicalization: Epoxy encapsulation conformal coating marine rated terminals Mechanical -Power terminal: 16 mm2 / #6 AWG -Enclosure: Die cast aluminum with plastic cover IP10, Type 1 Battery Charging -Battery types: Gel, Sealed, AGM, Flooded -4 Stage charging: Bulk, absorption, float, equalize (optional)	4	119,900.00	479,600.00
TOTAL BROUGHT FORWARD					P 1,579,400.00

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

Checked and verified by:

MELANIE A. JALOVER
 Head, Procurement Services
 PR No. 2023-2319-1

Very truly yours,

DR. AMBROSIO B. CULTURA II
 President, USTP System

Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
FEBRUARY 28, 2024

Date

Funds Available:

LILIBETH M. GADIANE
ACCOUNTANT - EFP

Signature Over Printed Name of Chief Accountant/
 Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1039
 Amount : 3,148,400.00



University of Science and Technology of Southern Philippines

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PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
 End-User Rep.: Dr. Jocelyn B. Barbosa
 Location of Project: USTP-CDO Campus

Supplier	: MULTIFACTORS SALES	P.O. No.	: 23-12-1350
Address	: 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date	: December 28, 2023
E-mail Address	: engelndmj@yahoo.com	Mode of Procurement:	Public Bidding
Telephone No.	: (063) 225 - 4981 / 0917 - 711 - 3478		
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Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		1,579,400.00
		Temperature compensation -Coefficient: -5mV/°C/cell (25°C ref) -Range: -30°C to +60°C -Set points: Absorption, float, equalize			
		INDUSTRIAL GRADE EMBEDDED PC SYSTEM OFFER: NANO-N3322 Features: -All aluminum structure; -Onboard Intel Core 12th intelligent processor; -Support 3*HDMI 4K display port, Supports synchronous and asynchronous three display; -Support WIFI + 4G/5G in same time with 3*M.2 slot; -Support 2*COM (support 2*RS232/RS485 mode); -Support DC 12V input; -Applicable system: Windows 10 Compatible, Windows 11, Linux Parameter: -Chassis color: Metallic Grey (Colors can be freely customized) -Material: High quality all aluminium, Onboard Intel Core i3 1215U (six core eight threads, Turbo, 4.4 GHz) -Processor: Onboard Intel Core i5 1235U (ten core twelve threads. Turbo. 4.4 GHz), Onboard Intel Core i7 1255U (ten core twelve threads. Turbo. 4.7 GHz) -Memory: Support 1*DDR5 4800 SODIMM memory slot. Max. 32 GB -BIOS: AMI EFI BIOS -Display chip: Intel(R) UHD Graphics -Display port: 3 HDMI with 4K, Support Synchronous or asynchronous display. Max.4096x2160@Hz -Front I/O: 2 COM support RS232/RS485,1*SIM slot, 4*USB3.1,1*Power button -Rear I/O: 1*DC port, 3 HDMI, 3*Intel 2.5G Lan, 2*RJ45, 1*audio interface(2-in-1),4 Antenna holes -Expansion slot: Support 1*M.2 2280 M-Key slot (NVME) Support 1*M.2 3052 B-key slot (USB3.0 signal, support 4G/5G),	4	109,900.00	439,600.00
			TOTAL BROUGHT FORWARD		P 2,019,000.00

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

Checked and verified by:

MELANIA A. JALOVER
Head, Procurement Services
PR No. 2023-2319-1

Very truly yours,

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President, USTP-System

Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
FEBRUARY 28, 2024
Date

Funds Available:

LILIBETH M. GADIANE
ACCOUNTANT - EFP
Signature Over Printed Name of Chief Accountant/
Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
Amount : 3,198,600.00



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Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		2,019,000.00
		External SIM card slot Support 1*2230 E-key slot (support WIFI, Bluetooth) -Network: 3*Intel i225-V 2.5G Lan -Storage: Support 1*M.2 2280 slot, 1*2.5inch HDD -Input: Support DC 12V input -Other functions: Power-on, timed startup, network wake up, PXE startup, watchdog (level 0-255), TPM2.0 security encryption -Working temp.: 0°C-- +40°C (business HDD), -20°C -- +50°C (industrial SSD). Surface air flow -Working humidity: 5% -- 95% Non-condensing state -Certification: CE,CCC,FCC Class A,RoHS -Application: Industrial Control, Industrial Automation, Robot, IoT gateway, Edge computing, Machine Vision, AGV/ARM, etc.			
		INDUSTRIAL LORA WAN GATEWAY PLUS LTE OFFER: WEBDYN -Sensitivity (-168dB) -Low consumption (end points ~ 10 years battery) -Long distances (up to 20 km direct view) -Frequencies: 915Mhz America/Australia, 868 Europa, India, Russia and Africa, 433 Asia -Low throughput 3 node types -Class A; Most common, RX window only after TX, Best consumption performance -Class B: RX Windows agreed with the Gateway, Not too much applications -Class C: Listen window always open, TX only when it is needed, High consumption. Power supply needed. WebdynEasy LoRaWAN -3G HSPA+, UMTS (B1, B8) -4G: Cat-1, Bands B1, B3, B7, B8, B20, B28 -Ethernet 10/100Mbps/s -LoRaWAN (863-870 MHz)	4	109,900.00	439,600.00
			TOTAL BROUGHT FORWARD		P 2,458,600.00

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MELANIE A. JALOVER
Head, Procurement Services
PR No. 2023-2319-1

Very truly yours,

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President, USTP-System

Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
FEBRUARY 28, 2024

Date

Funds Available:

LILIEETHA M. GADIANE
ACCOUNTANT - EFP

Signature Over Printed Name of Chief Accountant/
Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1039
Amount : 3,198,400.00



University of Science and Technology of Southern Philippines

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TOTAL CARRIED FORWARD					2,458,600.00
		-LoRaWAN (863-870 MHz) -1 port RS485/RS422 -Modbus RTU/TCP -FTP/s HTTP/s -Configuration file format: XML -Data file formats: XML/JSON -SMS -Packet Forwarder Class A, B, C -Embedded LoRaWAN server Class A Strengths and benefits -Embedded LoRaWAN server -Modbus RTU/TCP -IP67. Indoor/Outdoor -Remote configuration (without IP Public) -Reduce maintenance cost -OpenVPN 2.5.5 -Platform independent. Only FTP server -Alarm reporting -Easy massive configuration/update deployment -Price and liability			
LOT 2 - COMPUTER SERVER/LAPTOP (P740,000.00)					
		COMMAND CENTER SERVER WITH COMPLETE POWER BACK-UP AND MONITORING OFFER: TV - LG UN73 DISPLAY -Display Type: 4K UHD -Screen Size: 50 -Resolution: 3840 x 2160 -BLU Type: Direct -TruMotion / Refresh Rate: 60FPS/TM120 VIDEO (PICTURE QUALITY) -Processor: Quad Core Processor 4K -Image Enhancing			
2	lot		1	500,000.00	500,000.00
TOTAL BROUGHT FORWARD					P 2,958,600.00

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 Head, Procurement Services
 PR No. 2023-2319-1

Very truly yours,

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Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
 FEBRUARY 28, 2024
 Date

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 Signature Over Printed Name of Chief Accountant/
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BUR/Obr No. : 23-12-1037
 Amount : 3,198,400.00



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Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		2,958,600.00
		-HDR: Active HDR -HDR10 Pro: Yes (4K/2K) -HLG: Yes (4K/2K) -FILMMAKER MODE™: Yes -HDR Effect: Yes(4K/2K) -Dynamic Tone Mapping / Pro: HDR Dynamic Tone Mapping -Dimming Algorithm: LG Local Contrast -Upscaler: 4K Upscaler -HEVC (Video Decoder): 4K@60P, 10bit -VP9 (Video Decoder): 4K@60P, 10bit -AV1: 4K@60P, 10bit -HGIG Mode: Yes (MR) -Instant Game Response (ALLM) Yes -Picture Mode: Yes 10 modes (Vivid, Standard, Eco, Cinema, Sports, -Game, HDR Effect, Filmmaker, (ISF)Expert(Bright Room), (ISF)Expert (Dark Room)) AUDIO -Speaker (Sound Output): 20W (10W per Channel) -Channel: 2.0ch -Direction: Down Firing -Simultaneous Audio Output: Yes -AI Sound / Pro: AI Sound -AI Acoustic Tuning: Yes -Surround Mode: ULTRA Surround -Clear Voice: Clear Voice III -Bluetooth Surround Ready: Yes (Required Bluetooth) -LG Sound Sync: Yes (Required Bluetooth) -Auto Notification (Bluetooth easy pairing): Yes (Required Bluetooth) -Sound Share: Yes -Audio Codec: AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X AI FUNCTION -ThinQ: Yes -Intelligent Voice Recognition: Yes -Speech to Text: Yes			
TOTAL BROUGHT FORWARD					P 2,958,600.00

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

Checked and verified by:
MELANIE A. JALOVER
 Head, Procurement Services
 PR No. 2023-2319-1

Very truly yours,
DR. AMBROSIO B. CULTURA II
 President, USTP System

Conforme:
ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
 FEBRUARY 28, 2024
 Date

Funds Available:
LILIBETH M. GADIANE
ACCOUNTANT - EFP
 Signature Over Printed Name of Chief Accountant/
 Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
 Amount : 3,198,400.00



University of Science and Technology of Southern Philippines

Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
End-User Rep.: Dr. Jocelyn B. Barbosa
Location of Project: USTP-CDO Campus

Supplier	: MULTIFACTORS SALES	P.O. No.	: 23-12-1350
Address	: 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date	: December 28, 2023
E-mail Address	: engelndmj@yahoo.com	Mode of Procurement:	Public Bidding
Telephone No.	: (063) 225 - 4981 / 0917 - 711 - 3478		
TIN	: 102 - 730 - 257 - 000		
Purpose	Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023		

Gentlemen:

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

Place of Delivery	: Contact Person for Delivery: SUPPLY OFFICE, USTP-CDO Campus, Lapasan, Misamis Oriental Contact No.: 0955-882-3099	Delivery Term	:
Date of Delivery	: Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term	: Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		2,958,600.00
		-LG Voice Search: Yes -Google Assistant: Yes -Amazon Alexa: Yes -AI UX: Yes -AI Home: Yes -AI Recommendation (AI): Yes -Intelligent Edit: Yes -Home Dashboard: Yes -Auto Device Detection: Yes -Smart Speaker Compatible: Yes -Google Home Connection: Yes -Amazon Echo Connection: Yes -LG ThinQ: Yes -LG Smart Speaker (WK7,WK9): Yes -Mobile Connectivity: Yes -ThinQ App: Yes SMART FUNCTION -Operating System (OS): webOS Smart TV -Number of CPUs: Quad -Magic Remote Control: Built-In -Quick Access: Yes -Universal Control: Yes -360° VR Play: Yes -Related Content Search: Yes -LG Store: Yes -DIAL: Yes -Web Browser: Yes -Music Player: Yes -TV On With Mobile: Yes -Wi-Fi TV On: Yes -Bluetooth Low Energy On: Yes (required Bluetooth) -Network File Browser: Yes -Block access to harmful site: Yes -Hotel Mode: Yes -Sports Alert: Yes -Music Discovery: Yes			
TOTAL BROUGHT FORWARD					P 2,958,600.00

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

Checked and verified by:

MELANIA A. JALOVER
Head, Procurement Services
PR No. 2023-2319-1

Very truly yours,

DR. AMBROSIO B. CULTURA II
President, USTP-System

Conforme:

ENGEL R. MONTERO

MULTIFACTORS SALES

Signature over printed name of Supplier
FEBRUARY 28, 2024

Date

Funds Available:

LILIEETH M. GADIANE
ACCOUNTANT - EFP

Signature Over Printed Name of Chief Accountant/
Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
Amount : 3,198,400.00



University of Science and Technology of Southern Philippines

Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
 End-User Rep.: Dr. Jocelyn B. Barbosa
 Location of Project: USTP-CDO Campus

Supplier : MULTIFACTORS SALES	P.O. No. : 23-12-1350
Address : 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date : December 28, 2023
E-mail Address : engelnmj@yahoo.com	Mode of Procurement: Public Bidding
Telephone No. : (063) 225 - 4981 / 0917 - 711 - 3478	
TIN : 102 - 730 - 257 - 000	
Purpose : Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023	

Gentlemen:

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

Place of Delivery : Campus, Lapasan, Misamis Oriental Contact Person for Delivery: SUPPLY OFFICE, USTP-CDO Contact No.: 0955-882-3099	Delivery Term :
Date of Delivery : Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term : Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		2,958,600.00
		BROADCASTING SYSTEM -Digital TV Reception (Terrestrial, Cable, Satellite): Yes -Terrestrial: ISDB-T -Analog TV Reception: Yes -[ATSC] Closed Caption: Yes -EPG (8 days): Yes CONNECTIVITY -Screen Share: Yes -HDMI: 1 (Rear)/2 (Side) -Version: HDMI 2.0 -Simplink (HDMI CEC): Yes -eARC/ARC (Audio Return Channel): ARC (HDMI 2) -USB: 1 (Rear)/1 (Side) -LAN: Yes (Rear) -Component: Yes (Rear, Gender Type) -Composite In (AV): Yes (Rear, Gender Type) -RF In: 1 (RF) -SPDIF (Optical Digital Audio Out): Yes (Rear) -Wifi: Yes (802.11ac) -Bluetooth: Yes (V5.0) POWER & GREEN -Power Supply: AC~100-240V 50-60Hz -Standby Power Consumption: Under 4W -Energy saving Mode: Yes -Energy Standard: Yes ACCESSORY -Remote: MR20 -Battereis: Yes (AA x 2EA) -Power Cable: Yes (TV Detached) ADDITIONAL FEATURE -OSD Language: 26 Languages -Time Machine (DVR): Yes -Digital Recording: Yes -Analog DVR: Yes			
TOTAL BROUGHT FORWARD					P 2,958,600.00

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

Checked and verified by:

MELANIE A. JALOVER
 Head, Procurement Services
 PR No. 2023-2319-1

Very truly yours,

DR. AMBROSIO B. CULTURA II
 President, USTP System

Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
 FEBRUARY 28, 2024
 Date

Funds Available:

LILIEETH M. GADIANE
ACCOUNTANT - EFP

Signature Over Printed Name of Chief Accountant/
 Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
 Amount : 3,148,400.00



University of Science and Technology of Southern Philippines

Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
 End-User Rep.: Dr. Jocelyn B. Barbosa
 Location of Project: USTP-CDO Campus

Supplier	: MULTIFACTORS SALES	P.O. No.	: 23-12-1350
Address	: 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date	: December 28, 2023
E-mail Address	: engelnmj@yahoo.com	Mode of Procurement:	Public Bidding
Telephone No.	: (063) 225 - 4981 / 0917 - 711 - 3478		
TIN	: 102 - 730 - 257 - 000		
Purpose	Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023		

Gentlemen:

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

Place of Delivery	: Contact Person for Delivery: SUPPLY OFFICE, USTP-CDO Campus, Lapasan, Misamis Oriental Contact No.: 0955-882-3099	Delivery Term	:
Date of Delivery	: Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term	: Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
				TOTAL CARRIED FORWARD	2,958,600.00
		-Time Shift: Yes OFFER: SERVER - DELL POWEREDGE R250 Feature -Processor: One Intel Xeon E-2300 series processor with up to 8 cores or one Intel Pentium processor with up to 2 cores -Memory: Four DDR4 DIMM slots, supports UDIMM 128 GB max, speeds up to 3200 MT/s; Supports unregistered ECC DDR4 DIMMs only; Note: For Pentium processor, the maximum memory speed is 2666 MT/s -Storage controllers: Internal controllers: PERC H345, H755, HBA355i, S150 Internal Boot; Internal Dual SD Module or USB or Boot Optimized Storage Subsystem (BOSS-S1): HWRAID 2 x M.2 SSDs External HBAs (non-RAID): HBA355e -Drive bays: Front bays: Up to 4 x 3.5-inch hot swap SAS/SATA (HDD/SSD) max 30.72 TB Up to 2 x 3.5-inch cabled SAS/SATA (HDD/SSD) max 15.36 TB Up to 4 x 3.5-inch cabled SAS/SATA (HDD/SSD) max 30.72 TB -Power supplies: 450 W Bronze 100-240 V AC, cabled 450 W Platinum 100-240 V AC, cabled 700 W Titanium 200-240 VAC, cabled 700 W Titanium 240 V DC, cabled -Cooling options: Air cooling -Fans: Up to four cabled fans -Form Factor: 1U rack server -Embedded management: iDRAC9; iDRAC Direct; iDRAC RESTful API with Redfish; iDRAC Service Manual -Bezel: Optional bezel or security bezel -OpenManage Software: OpenManage Enterprise; OpenManage Power Manager plugin; OpenManage SupportAssist plugin; OpenManage Update Manager plugin -Mobility: OpenManage Mobile -Integrations and Connections: OpenManage Integrations: BMC Truesight, Microsoft System Center, Red Hat Ansible Modules, VMware vCenter and vRealize Operations Manager OpenManage Connections: IBM Tivoli Netcool/OMNIBus; IBM Tivoli Network Manager IP Edition, Micro Focus Operations Manager, Nagios Core, Nagios XI			
TOTAL BROUGHT FORWARD				P	2,958,600.00

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

Checked and verified by:

MELANI A. JALOVER
 Head, Procurement Services
 PR No. 2023-2319-1

Very truly yours,

DR. AMBROSIO B. CULTURA II
 President, USTP-System

Conforme:

ENGEL R. MONTERO
MULTIFACTORS SALES

Signature over printed name of Supplier
 FEBRUARY 28, 2024

Date

Funds Available:

LILIBETH M. GADIANE
ACCOUNTANT - EFPD

Signature Over Printed Name of Chief Accountant/
 Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
 Amount : 3,198,000.00



University of Science and Technology of Southern Philippines

Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
 End-User Rep.: Dr. Jocelyn B. Barbosa
 Location of Project: USTP-CDO Campus

Supplier	: MULTIFACTORS SALES	P.O. No.	: 23-12-1350
Address	: 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date	: December 28, 2023
E-mail Address	: engelnmj@yahoo.com	Mode of Procurement:	Public Bidding
Telephone No.	: (063) 225 - 4981 / 0917 - 711 - 3478		
TIN	: 102 - 730 - 257 - 000		
Purpose	Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023		

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Date of Delivery	: Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term	: Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
			TOTAL CARRIED FORWARD		2,958,600.00
		-Security: Cryptographically signed firmware; Secure Boot; Secure Erase; Silicon Root of Trust; System Lockdown (requires iDRAC9 Enterprise or Datacenter); TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ -Embedded NIC: 2 x 1 GbE LOM -Ports: Front Ports: 1 x USB 2.0, 1 x iDRAC Direct (Micro-AB USB) port Internal Ports: 1 x USB 3.0 (optional) Rear Ports: 1 x USB 2.0, 1 x iDRAC ethernet port, 1 x USB 3.0, 1 x VGA, 1 x Serial port - PCIe: 2 PCIe slots: 1 x8 Gen4 (x16 connector) low profile, half length 1 x8 Gen4 (x8 connector); low profile, half length -Operating System and Hypervisors: Canonical Ubuntu Server LTS; Microsoft Windows Server with Hyper-V; SUSE Linux Enterprise Server; VMware ESXI (support only from Dec'21); Red Hat Enterprise Linux;			
		HIGH END LAPTOP OFFER: ASUS ZENBOOK S 13 OLED UX5304VA-NQ062WS -Color: Basalt Grey -Operating System: Windows 11 Home - ASUS recommends Windows 11 Pro for business -Processor: Intel Core i5-1335U Processor 1.3 GHz (12MB Cache, up to 4.6 GHz, 10 cores, 12 Threads) -Graphics: Intel Iris Xe Graphics -Display: 13.3-inch, 2.8K (2880 x 1800) OLED 16:10 aspect ratio, 0.2ms response time, 60Hz refresh rate, 550nits HDR peak brightness, 100% DCI-P3 color gamut, 1,000,000:1, VESA CERTIFIED Display HDR True Black 500, 1.07 billion colors, PANTONE Validated, Glossy display, 70% less harmful blue light, TÜV Rheinland-certified, SGS Eye Care Display, Non- touch screen, (Screen-to-body ratio)85% -Memory: 16GB LPDDR5 on board -Storage: 512GB M.2 NVMe PCIe 4.0 SSD -I/O Ports: 1x USB 3.2 Gen 2 Type-A, 2x Thunderbolt 4 supports display/power delivery, 1x HDMI 2.1 TMDs, 1x 3.5mm Combo Audio Jack	3	80,000.00	240,000.00
			TOTAL BROUGHT FORWARD		P 3,198,600.00

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

Checked and verified by:

MELANIE A. JALOVER
Head, Procurement Services
PR No. 2023-2319-1

Very truly yours,

DR. AMBROSIO S. CULTURA II
President, USTP-System

Conforme:

ENGEL R. MONTERO

MULTIFACTORS SALES

Signature over printed name of Supplier

FEBRUARY 28, 2024

Date

Funds Available:

LILIEETH M. GADIANE
ACCOUNTANT - EFP

Signature Over Printed Name of Chief Accountant/
Head of Accounting Division/Unit

BUR/Obr No. : 23-12-1037
Amount : 3,198,600.00



University of Science and Technology of Southern Philippines

Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

PURCHASE ORDER

PRN: USTP-GSPB-11-2023-3482-1689
 End-User Rep.: Dr. Jocelyn B. Barbosa
 Location of Project: USTP-CDO Campus

Supplier	: MULTIFACTORS SALES	P.O. No.	: 23-12-1350
Address	: 0005 Juan C Legaspi St., Iligan City, Lanao Del Norte	Date	: December 28, 2023
E-mail Address	: engelnmj@yahoo.com	Mode of Procurement:	Public Bidding
Telephone No.	: (063) 225 - 4981 / 0917 - 711 - 3478		
TIN	: 102 - 730 - 257 - 000		
Purpose	Proposed Procurement of the Supply, Delivery, Installation and Commissioning of ICT Equipment for Lightweight Edge Computer Vision Solution for Smart and Efficient Traffic Management CY 2023		

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Date of Delivery	: Sixty (60) Calendar Days upon receipt of Notice to Proceed	Payment Term	: Full Payment after acceptance of goods

Stock No.	Unit	Description	Qty.	Unit Cost	Amount
TOTAL CARRIED FORWARD					3,198,600.00
		-Keyboard and Student: Backlit Chiclet Keyboard, 1.1mm Key-travel, Touchpad -Camera: FHD camera with IR function to support Windows Hello -Audio, Smart Amp Technology -Built-in speaker -Built-in array microphone -harman/kardon (Premium), -with Cortana voice-recognition support -Network and Communication: Wi-Fi 6E (802.11ax) (Dual band) 2*2+ Bluetooth 5.3 Wireless Card -Battery: 63WHrs, 2S2P, 4-cell Li-ion -Power Supply: TYPE-C, 65W AC Adapter, Output: 20V DC, 3.25A, 65W, Input: 100-240V AC 50/60GHZ universal -Built-in Apps, MYASUS ScreenXpert GlideX -Military Grade: US MIL-STD 810H military-grade standard -Security, Trusted Platform Module (TPM) 2.0, McAfee LiveSafe, IR webcam with Windows Hello support			
		Nothing Follow			

GRAND TOTAL: THREE MILLION ONE HUNDRED NINETY-EIGHT THOUSAND SIX HUNDRED PESOS AND 00/100 ONLY **P 3,198,600.00**

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

Checked and verified by:
MELANIE A. JALOVER
 Head, Procurement Services
 PR No. 2023-3482-01

Very truly yours,
DR. AMBROSIO B. CULTURALA
 President, USTP-System

Conforme:
ENGEL R. MONTERO
MULTIFACTORS SALES
 Signature over printed name of Supplier
 FEBRUARY 28, 2024
 Date

Funds Available:
LILIBETH M. GADIANO
ACCOUNTANT - EEP
 Signature Over Printed Name of Chief Accountant/
 Head of Accounting Division/Unit

BUR/ObR No. : 23-12-1037
 Amount : 3,198,600.00