

Republic of the Philippines EASTERN VISAYAS STATE UNIVERSITY Tacloban City



BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL/BID BULLETIN NO. 1

Date: May 17, 2024

Title: IB-2024-05-08 SUPPLY AND DELIVERY OF VARIOUS ICT SUPPLIES & EQUIPMENT

Reference No.: 10820010

This Supplemental/Bid Bulletin is issued to all prospective bidders to clarify, modify and/or amend items in the Bidding Documents as discussed and agreed during the Pre-Bid Conference held on May 14, 2024, for the above-mentioned procurement project. This shall form an integral part of the Bid Documents.

REFERENCE	GENERAL QUERIES	AMMENDMENTS/ CLARIFICATIONS
IB Clause 2. The EASTERN VISAYAS STATE UNIVERSITY now invites bids for the above Procurement Project. Delivery of the Goods is required by EVSU, Tacloban City within 60 calendar days from the receipt of Notice to Proceed. Bidders should have completed, within 2 years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).	Given that item no. 3 is an imported product, can you consider a delivery period of at least ninety (90) calendar days, as it will be sourced from abroad?	The same delivery period (60CD) will be followed based on our target timeline to complete the procurement activities within the shortest reasonable period for the delivery and implementation of this project. Moreover, this adherence is crucial to comply with CHED's policies, standards, and guidelines for obtaining the Certificate of Program Compliance (COPC). Hence, the supplier must deliver the goods or perform the services procured within the period prescribed by the Procuring Entity, as specified in the PBD. However, if delays are likely to be incurred, the supplier must notify the Procuring Entity in writing. It must state therein the cause/s and duration of the expected delay. The Procuring Entity may grant time extensions, at its discretion, if based on meritorious grounds, with or without liquidated damages. In all cases, the request for extension should be submitted before the lapse of the original delivery date. The maximum allowable extension shall not be longer than the initial delivery period as stated in the original contract.
ITB Clause 19.4. The Project shall be awarded as one (1) Project having several items, which shall be awarded as separate contracts per item. In case more than one (1) item is awarded to the same bidder, one (1) contract may be entered into containing all the items awarded.	Are we allowed to select the items in which we will participate, considering that this project involves three (3) items?	Yes. The project shall be awarded as separate contracts per item; therefore, partial bid is allowed. Bidders may submit a proposal on any of the items, and evaluation will be undertaken on a per item basis.





Republic of the Philippines EASTERN VISAYAS STATE UNIVERSITY Tacloban City



BIDS AND AWARDS COMMITTEE

REFERENCE	GENERAL QUERIES	AMMENDMENTS/ CLARIFICATIONS
Section VII. Technical Specifications Item No. 1. RTK Drones with Flight Planning Software and Mapping Software	May we suggest updating the specifications reference for this item? The current model has reached its End-of-Life status and has been phased out of the market. Would it be feasible to amend the Terms of Reference (TOR) to a more recent version?	Yes, the specifications for this item will be amended as per consideration. Please refer to Annex "B" for the updated Technical Specifications.
Section VII. Technical Specifications Item No. 3. 3D Printer Fused Filament fabrication at least 230x250x165mm, layer resolution at least 115 deg bed temperature, with 3D printer kit with	Regarding with the build volume, can we offer 240x240x240mm based on the budget instead of the stipulated specs which is at least 230x250x165mm?	The 3D printer's build volume should be at least 330x240x240mm.
initial consumable with aftersales	Our offer for the build size is 300x240x240mm, would it be possible to consider our offer?	
	As per the bed temperature, the specs within the budget based on our offer is at least 110°C. Would it be possible to consider this specification, since per our checking it falls within the given budget?	The bed temperature requirement is at least 110°C.
	What is the filament diameter, as it's not specified in the provided information? The standard size available in the market is 1.75mm.	The filament diameter should be 1.75mm.
	The vacuum forming equipment mentioned in item no. 3 is not an accessory and is unrelated to the 3D printer; it is a separate machine. Could we possibly omit the vacuum forming process from consideration? Its inclusion would exceed the total budget allocated.	Yes, after careful consideration, the vacuum forming will be excluded from the list of inclusions.
	With regards to on-site training, considering the specialized nature of the 3D printer, we propose requiring bidders to provide a training certificate from the manufacturer to the local supplier/trainer in the Philippines. This measure aims to ensure the end-user's security during the training period and to guarantee the trainer's competence and expertise.	Yes, the training certificate from the manufacturer to the local supplier must be submitted during the Opening of Bids as part of the Technical Component.
ICTEM CEA	In addition to the training certificate from the manufacturer to the local supplier, could we also consider including an Authority to Sell from the manufacturer to the local	Yes, the Authority to Sell from the manufacturer to the local supplier shall also be submitted by the bidder during the Opening of Bids as part of the Technical Component.





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BIDS AND AWARDS COMMITTEE

REFERENCE	GENERAL QUERIES	AMMENDMENTS/ CLARIFICATIONS
	supplier? This would further secure after-sales support for the equipment.	
Technical Component Envelope: Class "A" Documents-Legal Documents. Item No. 3 Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents.	What will be the basis of computation for the Single Largest Completed Contract (SLCC)? Would it be based on the ABC per item we'll be participating in or the total ABC of the project?	The computation of the SLCC shall be based on the total ABC of the project.

All statements and formats referring to this clause should be amended/corrected accordingly.

For guidance and information of all concerned.

For further information, please refer to:

(SGD) VINCENT B. CABANTOC

Head, BAC Secretariat CP No. 0953-355-7046 - TM

Email Add: evsu.bacsecretariat@evsu.edu.ph

Noted:

(SGD) BENEDICTO T. MILITANTE, JR., Ph.D., J.D.

Vice President for Administration & Finance Chairperson, Bids and Awards Committee



Section III. Bid Data Sheet

ITB Clause		
5.3	For this purpose, contracts similar to the Project shall be:	
	a. SUPPLY AND DELIVERY OF VARIOUS ICT SUPPLb. completed within two (2) years prior to the deadline for the	=
7.1	Subcontracting is not allowed.	
9	Prospective bidders may submit their written request for clarification of the Bidding Documents, either to EVSU BAC Secretariat Cevsu.bacsecretariat@evsu.edu.ph not later than May 16, 2024 (submitted beyond the abovementioned date shall not be accepted an	Office or through electronic mail at (5:00 PM). Clarifications made and
<u> 10.1</u>	These additional technical requirements must be submitted during	the Opening of Bids:
	 a) Certificate of Authority to Sell from Manufacturer or Loca b) Training Certificate from Manufacturer to Certified Loca 	
14.1	The bid security shall be in the form of a Bid Securing Declaration, amounts:	or any of the following forms and
	FORMS OF BID SECURITY	AMOUNT OF BID SECURITY (EQUAL TO PERCENTAGE OF THE ABC)
	Bid Securing Declaration; OR	NOTARIZED
	 Cash, Cashier's/ manager's check issued by a Universal or Commercial Bank equivalent to Two Percent (2%); OR 	28,000.00
	 Surety Bond equivalent to Five Percent (5%) (If security bond, attach the original copy of the official receipt of premium payment and certification issued by the Insurance Commission) 	<mark>70,000.00</mark>
15.2	Each Bidder shall submit one (1) original and four (4) readable a second components of its bid. Documents to be submitted shall be proto the title of the document attached for prompt identification: e.g., F. (Platinum) – PhilGEPS	operly tabbed and labeled according
	For details in the preparation of sealed bids, please refer to the diagram	ram below:
	Figure 1. Sealing of Bids (Illustration of bids with 1 original and 4 copies, each box in the diag	gram represents a sealed envelope)
	SEALED BID	
	SEALED ORIGINAL BID SEALED COPY NO. 1 SEALED COPY NO. 2	SEALED COPY NO. 4 SEALED COPY NO. 4 SEALED SEALED SEALED SEALED
	SEALED ORIGINAL ORIGINAL Technical Component Component Component Component Sealed Copy No. 1 Technical Component Com	nical Financial Technical Financial
	All envelopes shall: • he addressed to the Propuring Entity's PAC:	
	be addressed to the Procuring Entity's BAC;bear the name and address of the Bidder in capital letters;	
	 contain the name of the contract to be bid in capital letters; bear the specific identification of this bidding process indicates 	poted in the ITD Clause 1, and have
	warning "DO NOT OPEN BEFORE" the date and time f the IB.	

то THE BIDS AND AWARDS COMMITTEE **EASTERN VISAYAS STATE UNIVERSITY** FROM (Name of Bidder in Capital Letters) **ADDRESS** (Address of Bidder in Capital Letters) BID REF. NO. (In Capital Letters, Indicate the Pharse): 'DO NOT OPEN BEFORE: 15.3 Guidelines for Electronic Submission of Bids: Bidder must submit a soft copy of their bids through evsu.bacsecretariat@evsu.edu.ph at any time before May 28, 2024, 1:30 P.M. b) In the online submission of bids, a two-folder system will be utilized. The first folder contains the requirements of the Technical Component checklist as presented under Section VIII and shall be labeled "TECHNICAL COMPONENT". The second folder contains the requirements of the Financial Component checklist and is marked "FINANCIAL COMPONENT". c) The documentary requirements shall be segregated and labelled according to the type of document for prompt identification (e.g., PhilGEPS Certificate of Registration (Platinum) labelled as PhilGEPS) and each shall be in Portable Document Format (PDF). d) Each folder shall be compressed in Zip, RAR or 7z format with password protection. Submitted bidding documents that are not in compressed archive format and are not password protected, will be automatically rejected. e) The password for accessing the file shall be disclosed by the Bidders during the bid opening

> f) An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

which may be done in person or face-to-face through videoconferencing, webcasting, e-mail

g) For further information, please refer to:

VINCENT B. CABANTOC

Head, BAC Secretariat CP No. 0953-355-7046 - TM

or similar technology.

Email Add: evsu.bacsecretariat@evsu.edu.ph

The Project allows partial bids. Bidders may submit a proposal on any of the items, and evaluation will be undertaken on a per item basis. All Goods are grouped in items listed below.

ITEM NO.	PARTICULARS	QTY	UNIT	TOTAL AMOUNT
1	RTK Drones with flight planning software and mapping software	1	Unit	900,000.00
2	High Lumen LCD Project 1920 x 1200, Wi-Fi, HDMI, USB, VGA	2	Units	160,000.00
3	3D Printer Fused Filament fabrication at least 330x240x240mm, layer resolution at least 110 deg bed temperature, with 3D printer kit with initial consumable with aftersales	1	Unit	340,000.00

19.5 The Net Financial Contracting Capacity (NFCC), which must be at least equal to the ABC to be bid, is calculated as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.

20.1 No further instruction.

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

SUPPLY AND DELIVERY OF VARIOUS ICT SUPPLIES & EQUIPMENT						
ITEM NO.		DESCRIPTION	QTY	UNIT	DELIVERED, WEEKS/ MONTHS	
	PR NO. 03-0289-24 COE					
1	RTK Drones with flight plan Specifications:	nning software and mapping software	1	Unit	MUST BE WITHIN SIXTY (60) CALENDAR DAYS UPON	
	AIRCRAFT				RECEIPT OF THE	
	Weight (with propellers,	915 g			NOTICE TO PROCEED (NTP)	
	without accessories)				· ····································	
	Max Takeoff Weight	1,050 g				
	Dimensions	Folded (without propellers): 221×96.3×90.3 mm (L×W×H) Unfolded (without propellers): 347.5×283×107.7 mm (L×W×H)				
	Diagonal Distance	380.1 mm				
	Max Ascent Speed	6 m/s (Normal Mode)				
		8 m/s (Sport Mode)				
	Max Descent Speed	6 m/s (Normal Mode)				
		6 m/s (Sport Mode)				
	Max Flight Speed (at sea	15 m/s (Normal Mode)				
	level, no wind)	Forward: 21 m/s, Side: 20 m/s, backward: 19 m/s (Sport Mode)				
	Max Wind Speed	12 m/s				
	Resistance					
	Max Take-off Altitude Above Sea Level	6000 m (without payload)				
	Max Flight Time (no wind)	45 mins				
	Max Hover Time (no wind)	38 mins				
	Max Flight Distance	32 km				
	Max Pitch Angle	30° (Normal Mode) 35° (Sport Mode)				
	Max Angular Velocity	200°/s				
	GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)				
	Hovering Accuracy	Vertical: ±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK) Horizontal: ±0.3 m (with Vision System); ±0.5 m (with High-				
		Precision Positioning System); ±0.1 m (with RTK)				
	Operating Temperature	-10° to 40° C (14° to 104° F)				
	Range	-10 10 40 ((14 10 104 1)				
	Internal Storage	N/A				
	Motor Model	2008				
	Propeller Model	9453F Propellers for Enterprise				
	Beacon	Built into the aircraft				
	WIDE CAMERA					
	Sensor	4/3 CMOS, Effective pixels: 20 MP				
	Lens	FOV: 84°				
		Format Equivalent: 24 mm Aperture: f/2.8-f/11				
		Focus: 1 m to ∞				
	ISO Range	100-6400				
	Shutter Speed	Electronic Shutter: 8-1/8000 s				
		Mechanical Shutter: 8-1/2000 s				
	Max Image Size	5280×3956				
	Still Photography Modes	Single: 20 MP				
		Timed: 20 MP				
		JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s				
		JPEG+RAW: 3/5/7/10/15/20/30/60 s				
		Smart Low-light Shooting: 20 MP				
		Panorama: 20 MP (raw image)				
		*Shooting 48MP photo does not support 2s interval				
		Smart Low-light Shooting: 12 MP				

Video Resolution	H.264		
	4K: 3840×2160@30fps		
	FHD: 1920×1080@30fps	[]	
Bitrate	4K: 130 Mbps		
on acc	FHD: 70 Mbps		
Supported File Formats	†		
• • • • • • • • • • • • • • • • • • • •	exFAT		
Photo Format	JPEG/DNG (RAW)		
Video Format	MP4 (MPEG-4 AVC/H.264)]	
TELE CAMERA			
Sensor	1/2-inch CMOS, Effective pixels: 12 MP		
Lens	FOV: 15°		
Lens	Format Equivalent: 162 mm		
	Aperture: f/4.4		
	Focus: 3 m to ∞		
ISO Range	100-6400		
Shutter Speed	Electronic Shutter: 8-1/8000 s		
Max Image Size	4000×3000		
Photo Format	JPEG		
Video Format	MP4 (MPEG-4 AVC/H.264)		
Still Photography Modes	Single: 12 MP		
	Timed: 12 MP		
	JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s		
	Smart Low-light Shooting: 12 MP	[]	
Video Resolution	H.264	[]	
	4K: 3840×2160@30fps	[]	
	FHD: 1920×1080@30fps		
D'1 1	·		
Bitrate	4K: 130 Mbps		
	FHD: 70 Mbps		
Digital Zoom	8x (56x hybrid zoom)		
GIMBAL			
Stabilization	3-axis (tilt, roll, pan)		
Mechanical Range	Tilt: -135° to 100°		
Wechanical Nange	Roll: -45° to 45° Pan: -27° to 27°		
Controllable Range	Tilt: -90° to 35°		
	Pan: Not controllable		
Max Control Speed (tilt)	100°/s		
Angular Vibration Range	±0.007°		
SENSING			
Туре	Omnidirectional binocular vision system, supplemented with an		
. , , , ,	infrared sensor at the bottom of the aircraft.		
e		!	
Forward	Measurement Range: 0.5-20 m		
	Detection Range: 0.5-200 m		
	Effective Sensing Speed: Flight Speed ≤15 m/s	[]	
	FOV: Horizontal 90°, Vertical 103°		
Backward	Measurement Range: 0.5-16 m		
	Effective Sensing Speed: Flight Speed ≤12 m/s FOV: Horizontal	[]	
	90°, Vertical 103°		
 Lateral	Measurement Range: 0.5-25 m		
Later at		[]	
	Effective Sensing Speed: Flight Speed ≤15 m/s		
1	FOV: Horizontal 90°, Vertical 85°	[]	
Upward	Measurement Range: 0.2-10 m		
	Effective Sensing Speed: Flight Speed ≤6 m/s		
	FOV: Front and Back 100°, Left and Right 90°]	
Downward	Measurement Range: 0.3-18 m		
	Effective Sensing Speed: Flight Speed ≤6 m/s		
	LifeClive Selising Speed. Hight Speed Striks	[]	
Operating Environment	FOV: Front and Back 130°, Left and Right 160°		
Operating Environment	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear		
Operating Environment	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15)		
Operating Environment	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse		
Operating Environment	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15)		
Operating Environment	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse		
	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g., walls, trees, people) and adequate lighting		
VIDEO TRANSMISSION	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g., walls, trees, people) and adequate lighting (lux >15)		
VIDEO TRANSMISSION Video Transmission System	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g., walls, trees, people) and adequate lighting (lux >15) O3 Enterprise Transmission		
VIDEO TRANSMISSION Video Transmission System Live View Quality	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g., walls, trees, people) and adequate lighting (lux >15) O3 Enterprise Transmission Remote Controller: 1080p/30fps		
VIDEO TRANSMISSION Video Transmission System	FOV: Front and Back 130°, Left and Right 160° Forward, Backward, Lateral, and Upward: Surface with a clear pattern and adequate lighting (lux >15) Downward: Diffuse reflective surface with diffuse reflectivity>20% (e.g., walls, trees, people) and adequate lighting (lux >15) O3 Enterprise Transmission		

Max Transmission Distance	FCC: 15 km		
(unobstructed, free of	CE: 8 km		
interference)	SRRC: 8 km		
	MIC: 8 km		
Max Transmission Distance	Strong Interference (dense buildings, residential areas, etc.): 1.5-	1	
(Obstructed)	3 km (FCC/CE/SRRC/MIC)		
(0.000.0000)	Medium Interference (suburban areas, city parks, etc.): 3-9 km		
	(FCC), 3-6 km (CE/SRRC/MIC)		
	Low Interference (open spaces, remote areas, etc.): 9-15 km		
	(FCC), 6-8 km (CE/SRRC/MIC)		
Max Download Speed	15 MB/s (with RC Pro Enterprise)	1	
Latency (depending on	Approx. 200 ms		
environmental conditions			
and mobile device)			
Antenna	4 Antennas, 2T4R		
Transmission Power (EIRP)	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)		
Transmission rower (Entry	5.8 GHz: <33 dBm (FCC), <30 dBm (SRRC), <14 dBm (CE)		
RC PRO ENTERPRISE	3.0 GHz. 133 dbiii (1 CC), 130 dbiii (3iiiC), 124 dbiii (CL)		
Video Transmission System	O3 Enterprise Transmission	1	
Max Transmission Distance	FCC: 15 km	1	
(unobstructed, free of	CE/SRRC/MIC: 8 km		
interference)	on one of the order		
Video Transmission	2.400-2.4835 GHz		
Operating Frequency	5.725-5.850 GHz		
Antenna	4 Antennas, 2T4R		
Video Transmission	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)		
Transmitter Power (EIRP)	5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <23 dBm (SRRC)		
Wi-Fi Protocol	802.11 a/b/g/n/ac/ax	1	
WITITIOGGGG	Support 2×2 MIMO Wi-Fi		
Wi-Fi Operating Frequency	2.400-2.4835 GHz	1	
Will operating requestoy	5.150-5.250 GHz		
	5.725-5.850 GHz		
Wi-Fi Transmitter Power	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC)	1	
(EIRP)	5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC)		
(=)	5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)		
Bluetooth Protocol	Bluetooth 5.1	1	
Bluetooth Operating	2.400-2.4835 GHz		
Frequency			
Bluetooth Transmitter	< 10 dBm		
Power (EIRP)			
Screen Resolution	1920×1080		
Screen Size	5.5 inches		
Screen	60 fps		
Brightness	1,000 nits		
Touchscreen Control	10-point multi-touch		
Battery	Li-ion (5000 mAh @ 7.2 V)		
Charging Type	Recommended to be charged with the included USB-C Power]	
	Adapter (100W) or USB charger at 12 V or 15 V		
Rated Power	12 W]	
Storage Capacity	Internal Storage (ROM): 64 GB		
	Supports a microSD card for expanded capacity.		
Charging Time	Approx. 1 hour 30 minutes (with the included USB-C Power		
	Adapter (100W) only charging the remote controller or a USB		
	charger at 15 V)		
	Approx. 2 hours (with a USB charger at 12 V)		
	Approx. 2 hours 50 minutes (with the included USB-C Power		
	Adapter (100W) charging the aircraft and remote controller		
	simultaneously)		
Operating Time	Approx. 3 hours		
Video Output Port	Mini-HDMI port		
1	-10° to 40° C (14° to 104° F)		
Operating Temperature			
Range		1 1 '	i
	-30° to 60° C (-22° to 140° F) (within one month)		
Range	-30° to 45° C (-22° to 113° F) (one to three months)		
Range	· · · · · · · · · · · · · · · · · · ·		

Charging Temperature	5° to 40° C (41° to 104° F)		
Supported Aircraft		- 	
GNSS	GPS+Galileo+GLONASS	7	
Dimensions	Antennas folded and controller sticks unmounted:	 	
	183.27×137.41×47.6 mm (L×W×H)		
	Antennas unfolded and controller sticks mounted:		
	183.27×203.35×59.84 mm (L×W×H)		
Weight	Approx. 680 g]	
Model	RM510B	_	
Storage			
Supported Memory Cards	Aircraft: U3/Class10/V30 or above is required. A list of		
	recommended microSD cards can be found below.		
Recommended microSD	Remote Controller:		
Cards	SanDisk Extreme PRO 64GB V30 A2 microSDXC		
	SanDisk High Endurance 64GB V30 microSDXC		
	SanDisk Extreme 128GB V30 A2 microSDXC		
	SanDisk Extreme 256GB V30 A2 microSDXC		
	SanDisk Extreme 512GB V30 A2 microSDXC		
	5/F, Filipino Building, 135 Dela Rosa Street, Legaspi Village, Makati City, Philippines 1229		
	Tel. No.: (02) 8541-5430 Fax No.: (02) 8817-1645 E-mail:		
	info@unotronix.com		
	Lexar 667x 64GB V30 A2 microSDXC		
	Lexar High-Endurance 64GB V30 microSDXC		
	Lexar High-Endurance 128GB V30 microSDXC		
	Lexar 667x 256GB V30 A2 microSDXC		
	Lexar 512GB V30 A2 microSDXC		
	Samsung EVO Plus 64GB V30 microSDXC		
	Samsung EVO Plus 128GB V30 microSDXC		
	Samsung EVO Plus 513GB V30 microSDXC		
	Samsung EVO Plus 512GB V30 microSDXC Kingston Canvas Go! Plus 128GB V30 A2 microSDXC		
	Kingston Canvas React Plus 128GB V90 A1 microSDXC		
	goto:: caao ::ca.c.: i.ao =====		
	Aircraft:		
	SanDisk Extreme 32GB V30 A1 microSDHC		
	SanDisk Extreme PRO 32GB V30 A1 microSDHC		
	SanDisk Extreme 512GB V30 A2 microSDXC		
	Lexar 1066x 64GB V30 A2 microSDXC		
	Kingston Canvas Go! Plus 64GB V30 A2 microSDXC		
	Kingston Canvas React Plus 64GB V90 A1 microSDXC		
	Kingston Canvas Go! Plus 128GB V30 A2 microSDXC Kingston Canvas React Plus 128GB V90 A1 microSDXC		
	Kingston Canvas React Plus 128GB V90 A1 microSDXC Kingston Canvas React Plus 256GB V90 A2 microSDXC		
	Samsung PRO Plus 256GB V30 A2 microSDXC		
BATTERY			
Capacity	5000 mAh	7	
Standard Voltage	15.4 V	7	
Max Charging Voltage	17.6 V]	
Туре	LiPo 4S]	
Chemical System	LiCoO2	_	
Energy	77 Wh	_	
Weight	335.5 g	_	
Charging Temperature	5° to 40° C (41° to 104° F)	_	
CHARGER	1	 	
Input	100-240 V (AC Power), 50-60 Hz, 2.5 A	<u> </u>	
Output Power	100 W	-	
Output	Max. 100 W (total)		
	When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the		
	output power of the two ports according to the load power.		
CHARGING HUB	output power of the two ports according to the load power.	$\exists \mid \mid \mid$	
Input	USB-C: 5-20 V, 5.0 A	7	
Output	Battery Port: 12-17.6 V, 8.0 A	 	
		⊣ 1	
Rated Power	100 W		

Range	5° to 40° C (41° to 104° F)		
RTK MODULE			
Dimensions	50.2×40.2×66.2 mm (L×W×H)		
Veight	24±2 g		
nterface	USB-C		
Power	Approx. 1.2 W		
RTK Positioning Accuracy	RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm		
PEAKER			
Dimensions	114.1×82.0×54.7 mm (L×W×H)		
Veight	85±2 g		
nterface	USB-C		
Rated Power	3 W		
Max Volume	110 dB @ 1 m		
Effective Broadcast	100 m @ 70 dB		
Distance			
Bit Rate	16 Kbps/32 Kbps		
Operating Temperature	-10° to 40° C (14° to 104° F)		
Range NCLUSIONS			
	gent Flight Batteries and one 3 Battery Charging Hub (100W) to meet		
the needs for long-du			
✓ RTK Module			
	on GNSS Receiver Mobile Station with Tripod		
	with CAAP Certification Assistance For 3 Person		
	CT 1920 X 1200, WI-FI, HDMI, USB, VGA	2	Units
ecifications: hite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL –	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL –	2	Units
ecifications: hite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL –	2	Units
pecifications:	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL –	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL –	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL –	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode	2	Units
ecifications: hite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode	2	Units
ecifications: hite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode	2	Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
pecifications: Thite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units
ecifications: hite and colour brightness	s at 3600lm more than full HD (WUXGA) built-in Wi-Fi 2x HDMI/MHL – ife in eco-mode		Units

3	3D PRINTER FUSED FILAMENT FABRICATION AT LEAST 330X240X240MM, LAYER RESOLUTION AT LEAST 110 DEG BED TEMPERATURE, WITH 3D PRINTER KIT WITH INITIAL CONSUMABLE WITH AFTERSALES	1	Unit	
	Specifications: Extruder type: IDEX (Independent dual extruders) Printing Precision: at least ±0.2mm Build Volume: at least 330x240x240mm Print speed: at least 10-150mm/s Extruder temp.: at least 300°C Bed temp.: at least 110°C Nozzle diameter: 0.4mm Platform heating temperature: at least 110°C Filament type: PLA/ ABS/ PP/ PC/PVA/ HIPS/ PETG/ Wood/ASA/CF/Nylon/TPU/TPE Filament dia.: 1.75 mm Connectivity: USB/Wi-Fi/Ethernet/Live Camera Touch Screen: at least 2-inch or bigger Inclusions: ✓ 3D printer kit ✓ Spools of filament (consumables PLA & ABS) ✓ On-site training and installation (for at least 3 personnel) ✓ Power supply: 100~240VAC, 50/60 Hz ✓ Software: perpetual license included ✓ Filter: HEPA filter ✓ After sales support during warranty period			

(Name of Bidder/Company)	
(Signature Over Printed Name of Authorized Representative	e
(Designation)	
(Date)	

Section VII. Technical Specifications

SUPPLY AND DELIVERY OF VARIOUS ICT SUPPLIES & EQUIPMENT								
EM O.	DESCRIPTION				STATEMENT OF COMPLIANCE COMPLY/ NOT COMPLY			
	PR NO. 03-0289-24 COE							
1	RTK DRONES WITH FLIGHT PLANNING SOFTWARE AND MAPPING SOFTWARE Specifications:							
	AIRCRAFT							
	Weight (with propellers, without accessories)	915 g						
	Max Takeoff Weight	1,050 g						
	Dimensions	Folded (without propellers): 221×96.3×90.3 mm (L×W×H) Unfolded (without propellers): 347.5×283×107.7 mm (L×W×H)						
	Diagonal Distance	380.1 mm						
	Max Ascent Speed							
	Max Descent Speed							
	Max Flight Speed (at sea	15 m/s (Normal Mode)						
	level, no wind)	Forward: 21 m/s, Side: 20 m/s, backward: 19 m/s (Sport Mode)						
	Max Wind Speed Resistance	12 m/s						
	Max Take-off Altitude Above Sea Level	6000 m (without payload)						
	Max Flight Time (no wind)	45 mins						
	Max Hover Time (no wind)	38 mins						
	Max Flight Distance							
	Max Pitch Angle	30° (Normal Mode) 35° (Sport Mode)						
	Max Angular Velocity	200°/s						
	GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)						
	Hovering Accuracy	Vertical: ±0.1 m (with Vision System); ±0.5 m (with GNSS); ±0.1 m (with RTK) Horizontal: ±0.3 m (with Vision System); ±0.5 m (with High-						
		Precision Positioning System); ±0.1 m (with RTK)						
	Operating Temperature Range	perating Temperature -10° to 40° C (14° to 104° F)						
	Internal Storage	N/A						
	Motor Model	2008						
	Propeller Model	9453F Propellers for Enterprise						
	Beacon	Built into the aircraft						
	WIDE CAMERA							
	Sensor	4/3 CMOS, Effective pixels: 20 MP						
	Lens	FOV: 84°						
		Format Equivalent: 24 mm						
		Aperture: f/2.8-f/11						
		Focus: 1 m to ∞						
	ISO Range	100-6400						
	Shutter Speed	Electronic Shutter: 8-1/8000 s Mechanical Shutter: 8-1/2000 s						
	Max Image Size	5280×3956						
	Still Photography Modes	Single: 20 MP Timed: 20 MP						
		JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s JPEG+RAW: 3/5/7/10/15/20/30/60 s						
		Smart Low-light Shooting: 20 MP						
		Panorama: 20 MP (raw image) *Shooting 48MP photo does not support 2s interval						
	Video Resolution	Smart Low-light Shooting: 12 MP H.264						
		4K: 3840×2160@30fps						

	FHD: 1920×1080@30fps
Bitrate	4K: 130 Mbps
Didde	FHD: 70 Mbps
Supported File Formats	exFAT
Photo Format	JPEG/DNG (RAW)
Video Format	MP4 (MPEG-4 AVC/H.264)
TELE CAMERA	, (<u>1</u> 5
Sensor	1/2-inch CMOS, Effective pixels: 12 MP
Lens	FOV: 15°
	Format Equivalent: 162 mm
	Aperture: f/4.4
	Focus: 3 m to ∞
ISO Range	100-6400
Shutter Speed	Electronic Shutter: 8-1/8000 s
Max Image Size	4000×3000
Photo Format	JPEG
Video Format	MP4 (MPEG-4 AVC/H.264)
Still Photography Modes	Single: 12 MP
	Timed: 12 MP
	JPEG: 0.7/1/2/3/5/7/10/15/20/30/60 s
	Smart Low-light Shooting: 12 MP
Video Resolution	H.264
	4K: 3840×2160@30fps
D': .	FHD: 1920×1080@30fps
Bitrate	4K: 130 Mbps
D: 11 17	FHD: 70 Mbps
Digital Zoom	8x (56x hybrid zoom)
GIMBAL	2 - :- (4)(4)(1)
Stabilization	3-axis (tilt, roll, pan) Tilt: -135° to 100°
Mechanical Range	Tilt: -135 to 100
Controllable Pange	Tilt: -90° to 35°
Controllable Range	Pan: Not controllable
Max Control Speed (tilt)	100°/s
Angular Vibration Range	±0.007°
SENSING	10.007
Туре	Omnidirectional binocular vision system, supplemented with an
.,,,,	infrared sensor at the bottom of the aircraft.
Forward	Measurement Range: 0.5-20 m
	Detection Range: 0.5-200 m
	Effective Sensing Speed: Flight Speed ≤15 m/s
	FOV: Horizontal 90°, Vertical 103°
Backward	Measurement Range: 0.5-16 m
	Effective Sensing Speed: Flight Speed ≤12 m/s FOV: Horizontal
	90°, Vertical 103°
Lateral	Measurement Range: 0.5-25 m
	Effective Sensing Speed: Flight Speed ≤15 m/s
	FOV: Horizontal 90°, Vertical 85°
Upward	Measurement Range: 0.2-10 m
	Effective Sensing Speed: Flight Speed ≤6 m/s
	FOV: Front and Back 100°, Left and Right 90°
Downward	Measurement Range: 0.3-18 m
	Effective Sensing Speed: Flight Speed ≤6 m/s
<u> </u>	FOV: Front and Back 130°, Left and Right 160°
Operating Environment	Forward, Backward, Lateral, and Upward: Surface with a clear
	pattern and adequate lighting (lux >15)
	Downward: Diffuse reflective surface with diffuse
	reflectivity>20% (e.g., walls, trees, people) and adequate lighting
VIDEO TRANSPASSION	(lux >15)
VIDEO TRANSMISSION	O2 Enterprise Transmission
Video Transmission System	O3 Enterprise Transmission
Live View Quality	Remote Controller: 1080p/30fps
Operating Frequency	2.400-2.4835 GHz
	5.725-5.850 GHz

Max Transn	nission Distance	FCC: 15 km		
(unobstruct		CE: 8 km		
interference		SRRC: 8 km		
c.rcrence	-,	MIC: 8 km		
N / T	alasia - Di I			
	nission Distance	Strong Interference (dense buildings, residential areas, etc.): 1.5-		
(Obstructed	d)	3 km (FCC/CE/SRRC/MIC)		
		Medium Interference (suburban areas, city parks, etc.): 3-9 km		
		(FCC), 3-6 km (CE/SRRC/MIC)		
		Low Interference (open spaces, remote areas, etc.): 9-15 km		
		(FCC), 6-8 km (CE/SRRC/MIC)		
Max Downle	nad Speed	15 MB/s (with RC Pro Enterprise)		
	•			
Latency (de	. •	Approx. 200 ms		
	ntal conditions			
and mobile	device)			
Antenna		4 Antennas, 2T4R		
Transmissic	n Power (EIRP)	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)		
	, ,	5.8 GHz: <33 dBm (FCC), <30 dBm (SRRC), <14 dBm (CE)		
RC PRO ENT	TEDDDICE	2.5 2 35 dam (1.55), 35 dam (5mo), 314 dam (61)		
		O2 Entermise Transmissis		
	mission System	O3 Enterprise Transmission		
	nission Distance	FCC: 15 km		
(unobstruct	ed, free of	CE/SRRC/MIC: 8 km		
interference	e)			
Video Trans		2.400-2.4835 GHz		
Operating F		5.725-5.850 GHz		
	requeries			
Antenna		4 Antennas, 2T4R		
Video Trans		2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC)		
Transmitter	Power (EIRP)	5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <23 dBm (SRRC)		
Wi-Fi Proto	col	802.11 a/b/g/n/ac/ax		
		Support 2×2 MIMO Wi-Fi		
Wi-Fi Onera	ating Frequency	2.400-2.4835 GHz		
Opera	requeries	5.150-5.250 GHz		
		5.725-5.850 GHz		
	mitter Power	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC)		
(EIRP)		5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC)		
		5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)		
Bluetooth P	rotocol	Bluetooth 5.1		
Bluetooth C		2.400-2.4835 GHz		
Frequency	- P-0. 2011 18			
	ransmittar	< 10 dPm		
Bluetooth T		< 10 dBm		
Power (EIRF	•			
Screen Resc	olution	1920×1080		
Screen Size		5.5 inches		
Screen		60 fps	1 1	
Brightness		1 -		
		1 000 nits		
I Toursberre	n Control	1,000 nits		
Touchscree	n Control	10-point multi-touch		
Battery		10-point multi-touch Li-ion (5000 mAh @ 7.2 V)		
		10-point multi-touch		
Battery		10-point multi-touch Li-ion (5000 mAh @ 7.2 V)		
Battery Charging Ty	/pe	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V		
Battery Charging Ty Rated Powe	rpe er	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W		
Battery Charging Ty	rpe er	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity.		
Battery Charging Ty Rated Power	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V)		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V)		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power		
Battery Charging Ty Rated Power Storage Cap	rpe er pacity	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller		
Battery Charging Ty Rated Powe Storage Cap Charging Tir	rpe er pacity me	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)		
Battery Charging Ty Rated Power Storage Cap Charging Tin Operating T	rpe er pacity me	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours		
Battery Charging Ty Rated Powe Storage Cap Charging Tir	rpe er pacity me	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)		
Battery Charging Ty Rated Power Storage Cap Charging Time Operating Toucher Video Outpoor	rpe er pacity me	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours		
Battery Charging Ty Rated Power Storage Cap Charging Time Operating Tourished Output Operating Tourished T	rpe er pacity me	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours Mini-HDMI port		
Battery Charging Ty Rated Power Storage Cap Charging Time Operating Tourished Output Operating Tourished Tange	rpe er pacity me time ut Port emperature	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours Mini-HDMI port -10° to 40° C (14° to 104° F)		
Battery Charging Ty Rated Power Storage Cap Charging Time Operating Tourished Output Operating Tourished	rpe er pacity me time ut Port emperature	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours Mini-HDMI port -10° to 40° C (14° to 104° F) -30° to 60° C (-22° to 140° F) (within one month)		
Battery Charging Ty Rated Power Storage Cap Charging Time Operating Tourished Output Operating Tourished Tange	rpe er pacity me time ut Port emperature	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours Mini-HDMI port -10° to 40° C (14° to 104° F) -30° to 60° C (-22° to 140° F) (within one month) -30° to 45° C (-22° to 113° F) (one to three months)		
Battery Charging Ty Rated Power Storage Cap Charging Time Operating Tourished Output Operating Tourished Tange	rpe er pacity me time ut Port emperature	10-point multi-touch Li-ion (5000 mAh @ 7.2 V) Recommended to be charged with the included USB-C Power Adapter (100W) or USB charger at 12 V or 15 V 12 W Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity. Approx. 1 hour 30 minutes (with the included USB-C Power Adapter (100W) only charging the remote controller or a USB charger at 15 V) Approx. 2 hours (with a USB charger at 12 V) Approx. 2 hours 50 minutes (with the included USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously) Approx. 3 hours Mini-HDMI port -10° to 40° C (14° to 104° F) -30° to 60° C (-22° to 140° F) (within one month)		

Changing Tanananatan	5°+- 40° C (44°+- 404° 5)	
Charging Temperature	5° to 40° C (41° to 104° F)	41 1
Supported Aircraft	one o lit. O overe	41 1
GNSS	GPS+Galileo+GLONASS	41 1
Dimensions	Antennas folded and controller sticks unmounted:	
	183.27×137.41×47.6 mm (L×W×H)	
	Antennas unfolded and controller sticks mounted:	
M/aiaht	183.27×203.35×59.84 mm (L×W×H)	
Weight	Approx. 680 g	
Model	RM510B	-
torage	A. C. 110 (c) 40 (100)	41 1
Supported Memory Cards	Aircraft: U3/Class10/V30 or above is required. A list of	
	recommended microSD cards can be found below.	41 1
Recommended microSD	Remote Controller:	
Cards	SanDisk Extreme PRO 64GB V30 A2 microSDXC	
	SanDisk High Endurance 64GB V30 microSDXC	
	SanDisk Extreme 128GB V30 A2 microSDXC	
	SanDisk Extreme 256GB V30 A2 microSDXC	
	SanDisk Extreme 512GB V30 A2 microSDXC	
	5/F, Filipino Building, 135 Dela Rosa Street, Legaspi Village,	
	Makati City, Philippines 1229	
	Tel. No.: (02) 8541-5430 Fax No.: (02) 8817-1645 E-mail:	
	info@unotronix.com	
	Lexar 667x 64GB V30 A2 microSDXC	
	Lexar High-Endurance 64GB V30 microSDXC	
	Lexar High-Endurance 128GB V30 microSDXC	
	Lexar 667x 256GB V30 A2 microSDXC	
	Lexar 512GB V30 A2 microSDXC	
	Samsung EVO Plus 64GB V30 microSDXC	
	Samsung EVO Plus 128GB V30 microSDXC	
	Samsung EVO Plus 256GB V30 microSDXC	
	Samsung EVO Plus 512GB V30 microSDXC	
	Kingston Canvas Go! Plus 128GB V30 A2 microSDXC	
	Kingston Canvas React Plus 128GB V90 A1 microSDXC	
	Aircraft:	
	SanDisk Extreme 32GB V30 A1 microSDHC	
	SanDisk Extreme PRO 32GB V30 A1 microSDHC	
	SanDisk Extreme 512GB V30 A2 microSDXC	
	Lexar 1066x 64GB V30 A2 microSDXC	
	Kingston Canvas Go! Plus 64GB V30 A2 microSDXC	
	Kingston Canvas React Plus 64GB V90 A1 microSDXC	
	Kingston Canvas Go! Plus 128GB V30 A2 microSDXC	
	Kingston Canvas React Plus 128GB V90 A1 microSDXC	
	Kingston Canvas React Plus 256GB V90 A2 microSDXC	
	Samsung PRO Plus 256GB V30 A2 microSDXC	」 │
ATTERY		
apacity	5000 mAh	_
tandard Voltage	15.4 V	_
ax Charging Voltage	17.6 V	_
ype	LiPo 4S	
Chemical System	LiCoO2	7
Energy	77 Wh	7
	335.5 g	7
Charging Temperature	5° to 40° C (41° to 104° F)	7
HARGER		
nput	100-240 V (AC Power), 50-60 Hz, 2.5 A	7
Output Power	100 W	
Output	Max. 100 W (total)	-
	When both ports are used, the maximum output power of each	
	interface is 82 W, and the charger will dynamically allocate the	
	I Ulituat bower of the two ports according to the load power	-
CHARGING HUR	output power of the two ports according to the load power.	
CHARGING HUB		4
nput	USB-C: 5-20 V, 5.0 A	-
Input Output	USB-C: 5-20 V, 5.0 A Battery Port: 12-17.6 V, 8.0 A	- - -
Input	USB-C: 5-20 V, 5.0 A	

Range	5° to 40° C (41° to 104° F)	
RTK MODULE		
Dimensions	50.2×40.2×66.2 mm (L×W×H)	
Weight	24±2 g	
Interface	USB-C	
Power	Approx. 1.2 W	
RTK Positioning Accuracy	RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm	
SPEAKER		
Dimensions	114.1×82.0×54.7 mm (L×W×H)	
Weight	85±2 g	
Interface	USB-C	
Rated Power	3 W	
Max Volume	110 dB @ 1 m	
Effective Broadcast	100 m @ 70 dB	
Distance		
Bit Rate	16 Kbps/32 Kbps	
Operating Temperature	-10° to 40° C (14° to 104° F)	
Range	25 15 16 5(2) 16 257 17	
INCLUSIONS		
	gent Flight Batteries and one 3 Battery Charging Hub (100W) to meet	
the needs for long-du		
✓ RTK Module	Tation operations.	
	n GNSS Receiver Mobile Station with Tripod	
	with CAAP Certification Assistance For 3 Person	
White and colour brightness enabled 10000 hours lamp lif		
C. Silver		

3D PRINTER FUSED FILAMENT FABRICATION AT LEAST 330X240X240MM, LAYER RESOLUTION AT LEAST 110 DEG BED TEMPERATURE, WITH 3D PRINTER KIT WITH INITIAL CONSUMABLE WITH AFTERSALES	1	Unit	
Specifications: Extruder type: IDEX (Independent dual extruders) Printing Precision: at least ±0.2mm Build Volume: at least 330x240x240mm Print speed: at least 10-150mm/s Extruder temp.: at least 300°C Bed temp.: at least 110°C Nozzle diameter: 0.4mm Platform heating temperature: at least 110°C Filament type: PLA/ ABS/ PP/ PC/PVA/ HIPS/ PETG/ Wood/ASA/CF/Nylon/TPU/TPE Filament dia.: 1.75 mm Connectivity: USB/Wi-Fi/Ethernet/Live Camera Touch Screen: at least 2-inch or bigger Inclusions: ✓ 3D printer kit ✓ Spools of filament (consumables PLA & ABS) ✓ On-site training and installation (for at least 3 personnel) ✓ Power supply: 100~240VAC, 50/60 Hz ✓ Software: perpetual license included ✓ Filter: HEPA filter ✓ After sales support during warranty period			

Name of Bidder/Company)
Signature Over Printed Name of Authorized Representative)
Designation)

Price Schedule for Goods Offered from Within the Philippines

[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

For Goods Offered from Within the Philippines

Name of Bidder ______ Project ID No._____ Page ___of___

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable , per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

Name:	
Legal Capacity:	
Signature:	
Duly authorized to sign the Bid for and behalf of:	

Price Schedule for Goods Offered from Abroad

[shall be submitted with the Bid if bidder is offering goods from Abroad]

For Goods Offered from Abroad

For Goods Offered from Abroad									
Name of Bidder				Project ID No			Pageof		
1	2	3	4	5	6	7	8	9	
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (Specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)	
ne:									

Name:	
Legal Capacity:	
Signature:	
Duly authorized to sign the Bid for and behalf of:	