



། འབྲུག་རང་བཞིན་གནས་སྤངས་ཉམས་སྲུང་གི་གཏང་མ་དེུལ།།

Bhutan Trust Fund
for Environmental Conservation

P.O.Box:520 | Thimphu Bhutan

☎ 00975-2-339861/62

📠 00975-2-339863

🌐 www.bhutantrustfund.bt

STANDARD BIDDING DOCUMENT

Procurement of Goods



Bhutan Trust Fund for Environmental Conservation

April 2024



། འབྲུག་རང་བཞིན་གནས་སྤངས་ཉམས་སྲུང་གི་གཏང་མ་དབུ།

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Preface

This Standard Bidding Document for the Procurement of Goods has been prepared by the Bhutan Trust Fund for Environmental Conservation (BTF) to be used for Supply of Goods.

The instructions in italics and footnotes provided are for guidance and are not part of the document therefore, it should be removed while preparing the bid document.

Those wishing to submit comments or enquiry on this Bidding Document or to obtain further information on procurement can contract:

Bhutan Trust Fund for Environmental Conservation (BTF)

www.bhutantrustfund.bt

Tel: 02-339861/02-339862,

Fax: 02-339863



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Request for Quotation for supply of Goods.

Bidding Document for the Supply of Goods (Equipment)



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Invitation for Quotation (IFO)

25th April 2024

Terms & Conditions:

1. In pursuant to the tender announcement via Kuensel issue dated 26th April 2024, you are invited to submit your priced bid for the following:
 - i) Supply and demonstration of Drone-2nos
 - ii) Supply of Printer-3nos

[Information on technical specifications is attached]
2. The bidder(s) may quote for **any or all items** under this invitation. Each item shall be evaluated and contract awarded to the firm(s) offering the lowest evaluated price for each item.
3. The bidder(s) shall submit one original of the priced quotation with the Form of Bid and clearly marked ORIGINAL. In addition, the bidder(s) should also submit one copy marked as COPY. The quotation including all documents in the attached format should be sealed in an envelope as required and addressed to and delivered at the following address [**Managing Director, Bhutan Trust Fund for Environmental Conservation**].
4. The deadline for receipt of your quotation(s) by the purchaser at the indicated address is **16th May 2024 before 12.00 noon** and will be opened on the same day at **02:30 PM**
5. The bid shall be accompanied by a bid security of **2% of the amount quoted** in the form of cash warrant, demand draft or unconditional Bank Guarantee valid till **three (3) months**, address to the **Managing Director, BTF**. Any bid not accompanied by bid security shall be treated as non-responsive.
6. Quotation by fax or by any other electronic means **will not** be accepted.
7. The quotation should be submitted as per the following instructions and in accordance with the attached Contract. The attached Terms and Conditions of the Work is an integral part of the Contract.
 - a) PRICE: all prices shall be quoted in Ngultrum. The quoted price shall be inclusive of all related costs including taxes, duties and other levies to the final place of delivery. The final place of delivery is **Bhutan Trust Fund for Environmental Conservation, Near Nazhoen Pelri Complex, Thimphu;**
 - b) EVALUATION OF QUOTATION: offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of



their quoted prices. In evaluating the quotations, the purchaser will determine for each quotation and evaluated price by adjusting the price quotation by making any correction for any arithmetical errors as follows;

- (i) Where there is a discrepancy between amounts in figures and in words, the amount in words will govern;
- (ii) Where there is discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted shall govern unless in the opinion of the Employer there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line items total as quoted shall govern, and the unit rate shall be corrected.
- (iii) If the supplier refuses to accept the correction, the quotation will be rejected and the bid security shall be forfeited.

c) **AWARD OF PURCHASE ORDER:** the award will be made to the bidder who is offering the lowest evaluated price that meets the specifications. The successful bidder will sign a contract as per attached form of contract and terms and conditions of supply.

d) **VALIDITY OF THE OFFERS:** your quotation(s) shall be valid for period of **90 days (3 months)** from the deadline for receipt of quotation(s).

8. Further information can be obtained from **BTF at 339861/339863** during office hours.

9. The quotation(s) will be opened in the presence of bidders or their representatives who choose to attend at the specified venue and time.

10. The purchaser is not bound to accept the lowest bid and reserves the right to accept or reject any or all the bids without assigning any reason whatsoever to maintain the quality of the goods and the services provided.

11. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order (sample form attached).

12. **Normal commercial warranty/guarantee shall be applicable to the supplied goods.**

13. Ten percent (10%) of the Contract Price shall be paid within thirty (30) days of signing of the Contract, and upon submission of a claim and an advance payment guarantee for the equivalent amount valid until the Goods are delivered and, in the form, provided in the Bidding Documents.



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14. Ninety percent (90%) of the Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Purchaser. The ten (10) percent performance security shall be retained as security deposit and paid at the end of the warranty period or after Twelve (12) months whichever is later after adjustment of dues if any.

Schedule of Items and Priced Quotation (bid form)

Sl. No.	Item	Description & Details Specification	Unit Rate (Nu.)
1	Drone	Refer Technical Specification	
2	Drone		
3	Printer		
Total for Supply of Goods (Nu)			

Total Amount in Nu. (in words)	
Delivery period	45 Days
Warranty Provided	1 year from date of supply or commissioning of the Goods.

Signature of Supplier:	Supplier's Official Stamp
Name of Supplier:	
Date:	



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Technical Specification of the Goods Required

SL.	Specification	Qty.
A. Drone		
Aircraft		
1	Dimensions	Unfolded, propellers excluded, 810×670×430 mm (L×W×H) Folded, propellers included, 430×420×430 mm (L×W×H)
2	Diagonal Wheelbase	895 mm
3	Weight (with single downward gimbal)	Approx. 3.77 kg (without batteries) Approx. 6.47 kg (with two TB65 batteries)
4	Max Payload	2.7 kg
5	Max Takeoff Weight	9.2 kg
6	Operating Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz (CE: 5.170-5.250 GHz) 5.725-5.850 GHz
7	Transmitter Power (EIRP)	2.4000-2.4835 GHz: < 33 dBm (FCC) < 20 dBm (CE/SRRC/MIC) 5.150-5.250 GHz (CE: 5.170-5.250 GHz): < 23 dBm (CE) 5.725-5.850 GHz: < 33 dBm (FCC/SRRC) < 14 dBm (CE)
8	Hovering Accuracy (P-mode with GPS)	Vertical: ±0.1 m (Vision System enabled) ±0.5 m (with GNSS positioning) ±0.1 m (RTK enabled) Horizontal: ±0.3 m (Vision System enabled) ±1.5 m (GPS enabled) ±0.1 m (RTK enabled)
9	RTK Positioning Accuracy (RTK FIX)	1 cm+1 ppm (Horizontal) 1.5 cm + 1 ppm (Vertical)
10	Max Angular Velocity	Pitch: 300°/s, Yaw: 100°/s
11	Max Pitch Angle	30° (P-mode, Forward Vision System enabled: 25°)
12	Max Ascent Speed	S mode: 6 m/s

1no.



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		P mode : 5 m/s
13	Max Descent Speed (vertical)	S mode: 5 m/s P mode : 4 m/s
14	Max Descent Speed (tilt)	S Mode: 7 m/s
15	Max Speed	S mode: 23 m/s P mode : 17 m/s
16	Service Ceiling Above Sea Level	7000 m
17	Propellers	2110s propellers for up to 5000 m and 2112 High-Altitude Low-Noise Propellers for up to 7000 m above sea level
18	Max Wind Resistance	12 m/s
19	Max Flight Time	55 min
20	Supported DJI Gimbals	Zenmuse H20, Zenmuse H20T, Zenmuse H20N, Zenmuse P1, and Zenmuse L1
21	Supported Gimbal Configurations	Single downward gimbal Single upward gimbal Dual downward gimbals Single downward gimbal + single upward gimbal Dual downward gimbals + single upward gimbal
22	Ingress Protection Rating	IP55
23	GNSS	GPS+GLONASS+BeiDou+Galileo
24	Operating Temperature	-20°C to 50°C (-4°F to 122° F)
Remote Controller		
1	Screen	7.02-inch LCD touchscreen; resolution: 1920×1200; max brightness: 1200 nits
2	Weight	Approx. 1.25 kg (without WB37 battery) Approx. 1.42 kg (with WB37 battery)
3	Global Navigation Satellite System	GPS + Galileo + BeiDou
4	Operating Frequency	2.4000-2.4835 GHz 5.725-5.850 GHz
5	Max Transmitting Distance (unobstructed, free of interference)	NCC/FCC: 15 km CE/MIC: 8 km SRRC: 8 km



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6	Transmitter Power (EIRP)	2.4000-2.4835 GHz: < 33 dBm (FCC) < 20 dBm (CE/SRRC/MIC) 5.725-5.850 GHz: < 33 dBm (FCC) < 14 dBm (CE) < 23 dBm (SRRC)
7	External Battery (WB37 Intelligent Battery)	Capacity: 4920 mAh Voltage: 7.6 V Type: Li-ion Energy: 37.39 Wh Chemical System: LiCoO2
8	Built-in battery	Type: Li-ion (6500 mAh@7.2 V) Charging Type: Use the battery station or USB-C fast charger with a max power of 65 W (max voltage of 20 V). Charging Time: 2 hours Chemical System: LiNiCoAlO2
9	Ingress Protection Rating	IP54
10	Operating Time	Built-in Battery: approx. 3.3 hours Built-in Battery + External Battery: approx. 6 hours
11	Wi-Fi Protocol	Wi-Fi 6
12	Wi-Fi Operating Frequency	2.4000-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz
13	Bluetooth Protocol	Bluetooth 5.1
14	Bluetooth Operating Frequency	2.4000-2.4835 GHz
15	Operating Temperature	-20°C to 50°C (-4 °F to 122 °F)
Vision System		
1	Obstacle Sensing Range	Forward/Backward/Left/Right: 0.7-40m Upward/Downward: 0.6-30m
2	FOV	Forward/Backward/Downward: 65° (H), 50° (V) Left/Right/Upward: 75°(H), 60°(V)
3	Operating Environment	Surfaces with clear patterns and adequate lighting (> 15 lux)
Infrared Sensing System		
1	Obstacle Sensing Range	0.1-8m



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2	FOV	30° (±15°)	
3	Operating Environment	Large, diffuse and reflective obstacles (reflectivity >10%)	
Video Transmission			
1	Video Transmission System	DJI O3 Enterprise Transmission	
2	Antenna	4 video transmission antennas, 2T4R	
3	Max Transmission Distance (unobstructed, free of interference)	20 km (FCC) 8 km (CE/SRRC/MIC)	
4	Max Transmission Distance (with interference)	Low Interference and Obstructed by Buildings: approx. 0-0.5 km Low Interference and Obstructed by Trees: approx. 0.5-3 km Strong Interference and Unobstructed: urban landscape, approx. 1.5-3 km Medium Interference and Unobstructed: suburban landscape, approx. 3-9 km Low Interference and Unobstructed: suburb/seaside, approx. 9-20 km	
LED Auxiliary Light			
1	Effective lighting distance	5 m, Illumination type: 60Hz, solid glow	
FPV Camera			
1	Resolution	1080p	
2	FOV	142°	
3	Frame rate	30 fps	
Intelligent Flight Battery			
1	Name	TB65	
2	Capacity	5880 mAh	
3	Voltage	44.76 V	
4	Battery Type	Li-ion	
5	Energy	263.2 Wh	
6	Net Weight	Approx. 1.35 kg	
7	Operating Temperature	-4°F to 122°F (-20°C to 50°C)	
8	Ideal storage temperature	71.6°F to 86°F (22°C to 30°C)	



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9	Charging Temperature	-4°F to 104°F (-20°C to 40°C)	
10	Charging time	With a 220V power supply, it takes approximately 60 minutes to fully charge two TB65 Intelligent Flight Batteries and approximately 30 minutes to charge them from 20% to 90%. With a 110V power supply, it takes approximately 70 minutes to fully charge two TB65 Intelligent Flight Batteries and approximately 40 minutes to charge them from 20% to 90%.	
Intelligent Battery Station			
1	Dimensions	580×358×254 mm (L×W×H)	
2	Net Weight	8.98kg	
3	Maximum Capacity	TB65 Intelligent Flight Battery × 8 WB37 Intelligent Battery × 4	
4	Input Voltage	100-120 VAC, 50-60 Hz <i>220-240 VAC, 50-60 Hz (required)</i>	
5	Max. Input Power	1070W	
6	Output Power	100-120 V: 750 W 220-240 V: 992 W	
7	Operating Temperature	-4°F to 104°F (-20°C to 40°C)	

B DRONE: DJI MAVIC 3T THERMAL DRONE OR HIGHER

SL.	Specification		Qty.
Aircraft			
1	Weight (with propellers, without accessories)	920 g	1 Set Drone with 2 nos Spare batteries
2	Max Takeoff Weight	1,050 g	
3	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)	
4	Diagonal Distance	380.1 mm	
5	Max Ascent Speed	6 m/s (Normal Mode) 8 m/s (Sport Mode)	
6	Max Descent Speed	6 m/s (Normal Mode) 6 m/s (Sport Mode)	



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	Max Flight Speed (at sea level, no wind)	15 m/s (Normal Mode) Forward: 21 m/s, Side: 20 m/s, Backward: 19 m/s (Sport Mode)
7	Max Wind Speed Resistance	12 m/s
8	Max Take-off Altitude Above Sea Level	6000 m (without payload)
9	Max Flight Time (no wind)	45 mins
10	Max Hover Time (no wind)	38 mins
11	Max Flight Distance	32 km
12	Max Tilt Angle	30° (Normal Mode) 35° (Sport Mode)
13	Max Angular Velocity	200°/s
14	GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)
15	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)
16	Operating Temperature Range	-10° to 40° C (14° to 104° F)
17	Propeller Model	9453F Propellers for Enterprise
18	Beacon	Built into the aircraft
Wide Camera		
1	Sensor	1/2-inch CMOS, Effective pixels: 48 MP
2	Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 Focus: 1 m to ∞
3	ISO Range	100-25600
4	Shutter Speed	Electronic Shutter: 8-1/8000 s
5	Max Image Size	8000×6000
6	Still Photography Modes	Single: 12 MP/48 MP Timed: 12 MP/48 MP JPEG: 2/3/5/7/10/15/20/30/60 s* Panorama: 12 MP (raw image); 100 MP (stitched image) Smart Low-light Shooting: 12 MP * Shooting 48MP photo does not support 2s interval
7	Video Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps
8	Bitrate	4K: 85 Mbps FHD: 30 Mbps
9	Supported File Formats	exFAT
10	Photo Format	JPEG
11	Video Format	MP4 (MPEG-4 AVC/H.264)



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Tele Camera		
1	Sensor	1/2-inch CMOS, Effective pixels: 12 MP
2	Lens	FOV: 15° Format Equivalent: 162 mm Aperture: f/4.4 Focus: 3 m to ∞
3	ISO Range	100-25600
4	Shutter Speed	Electronic Shutter: 8-1/8000 s
5	Max Image Size	4000×3000
6	Photo Format	JPEG
7	Video Format	MP4 (MPEG-4 AVC/H.264)
8	Still Photography Modes	Single: 12 MP Timed: 12 MP JPEG: 2/3/5/7/10/15/20/30/60 s Smart Low-light Shooting: 12 MP
9	Video Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps
10	Bitrate	4K: 85 Mbps FHD: 30 Mbps
11	Digital Zoom	8x (56x hybrid zoom)
Thermal Camera		
1	Thermal Imager	Uncooled VOx Microbolometer
2	Pixel Pitch	12 μm
3	Frame Rate	30 Hz
4	Lens	DFOV: 61° Format Equivalent: 40 mm Aperture: f/1.0 Focus: 5 m to ∞
5	Sensitivity	≤50 mk@F1.1
6	Temperature Measurement Method	Spot Meter, Area Measurement
7	Temperature Measurement Range	-20° to 150° C (-4° to 302° F, High Gain Mode) 0° to 500° C (32° to 932° F, Low Gain Mode)
8	Palette	White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2
9	Photo Format	JPEG (8-bit) R-JPEG (16-bit)
10	Video Resolution	640×512@30fps
11	Bitrate	6 Mbps
12	Video Format	MP4 (MPEG-4 AVC/H.264)
13	Still Photography Modes	Single: 640×512 Timed: 640×512 JPEG: 2/3/5/7/10/15/20/30/60 s
14	Digital Zoom	28x
15	Infrared Wavelength	8-14 μm
16	Infrared Temperature Measurement Accuracy	±2° C or ±2% (using the larger value)



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Gimbal		
17	Stabilization	3-axis (tilt, roll, pan)
18	Mechanical Range	Tilt: -135° to 45° Roll: -45° to 45° Pan: -27° to 27°
19	Controllable Range	Tilt: -90° to 35° Pan: Not controllable
20	Max Control Speed (tilt)	100°/s
21	Angular Vibration Range Sensing	±0.007°
22	Type	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft.
23	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°
24	Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed ≤12 m/s FOV: Horizontal 90°, Vertical 103°
25	Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed ≤15 m/s FOV: Horizontal 90°, Vertical 85°
26	Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed ≤6 m/s FOV: Front and Back 100°, Left and Right 90°
27	Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed ≤6 m/s FOV: Front and Back 130°, Left and Right 160°
28	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 (lux >15)
Video Transmission		
1	Video Transmission System	DJI O3 Enterprise Transmission
2	Live View Quality	Remote Controller: 1080p/30fps
3	Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
4	Max Transmission Distance (unobstructed, free of interference)	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km
5	Max Transmission Distance (Obstructed)	Strong Interference (dense buildings, residential areas, etc.): 1.5-3 km (FCC/CE/SRRC/MIC) Medium Interference (suburban areas, city parks, etc.): 3-9 km (FCC), 3-6 km



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		(CE/SRRC/MIC) Low Interference (open spaces, remote areas, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)
6	Max Download Speed	15 MB/s (with DJI RC Pro Enterprise)
7	Latency (depending on environmental conditions and mobile device)	Approx. 200 ms
8	Antenna	4 Antennas, 2T4R
9	Transmission 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)
DJI RC Pro Enterprise Smart Controller		
1	Video Transmission System	DJI O3 Enterprise Transmission
2	Max Transmission Distance (unobstructed, free of interference)	FCC: 15 km CE/SRRC/MIC: 8 km
3	Video Transmission Operating Frequency	2.400-2.4835 GHz 5.725-5.850 GHz
4	Antenna	4 Antennas, 2T4R
5	Video Transmission Transmitter Power (EIRP)	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC), <14 dBm (CE), <23 dBm (SRRC)
6	Wi-Fi Protocol	802.11 a/b/g/n/ac/ax Support 2×2 MIMO Wi-Fi
7	Wi-Fi Operating Frequency	2.400-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz
8	Wi-Fi Transmitter Power (EIRP)	2.4 GHz: <26 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.1 GHz: <26 dBm (FCC), <23 dBm (CE/SRRC/MIC) 5.8 GHz: <26 dBm (FCC/SRRC), <14 dBm (CE)
9	Bluetooth Protocol	Bluetooth 5.1
10	Bluetooth Operating Frequency	2.400-2.4835 GHz
11	Bluetooth Transmitter Power (EIRP)	< 10 dBm
12	Screen Resolution	1920×1080
13	Screen Size	5.5 inches
14	Screen	60 fps
15	Brightness	1,000 nits
16	Touchscreen Control	10-point multi-touch
17	Battery	Li-ion (5000 mAh @ 7.2 V)



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18	Charging Type	Recommended to be charged with the included DJI USB-C Power Adapter (100W) or USB charger at 12 V or 15 V
19	Rated Power	12 W
20	Storage Capacity	Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity.
21	Charging Time	Approx. 1 hour 30 minutes (with the included DJI 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 DJI USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)
22	Operating Time	Approx. 3 hours
23	Video Output Port	Mini-HDMI port
24	Operating Temperature Range	-10° to 40° C (14° to 104° F)
25	Charging Temperature	5° to 40° C (41° to 104° F)
26	Supported DJI Aircraft	DJI Mavic 3T
27	GNSS	GPS+Galileo+GLONASS
28	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)
29	Weight	Approx. 680 g
30	Model	Equivalent to RM510B or higher
Storage		
1	Supported Memory Cards Aircraft:	Equivalent to U3/Class10/V30 or above is required.
2	Remote Controller -microSD Cards storage	256GB or above is required
3	Remote Controller -microSD Cards storage	256GB or above is required
Battery		
1	Capacity	5000 mAh
2	Standard Voltage	15.4 V
3	Max Charging Voltage	17.6 V
4	Type	LiPo 4S
5	Chemical System	LiCoO2
6	Energy	77 Wh
7	Weight	335.5 g
8	Charging Temperature	5° to 40° C (41° to 104° F)
Charger		
1	Input	100-240 V (AC Power), 50-60 Hz, 2.5 A
2	Output Power	100 w



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3	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		
1	Input	USB-C: 5-20 V, 5.0 A
2	Output	Battery Port: 12-17.6 V, 8.0 A
3	Rated Power	100 w
4	Charging Type	Three batteries charged in sequence
5	Charging Temperature Range	5° to 40° C (41° to 104° F)
RTK Module		
1	Dimensions	50.2×40.2×66.2 mm (L×W×H)
2	Weight	24±2 g
3	Interface	USB-C
4	Power	Approx. 1.2 W
5	RTK Positioning Accuracy	RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm
Speaker		
1	Dimensions	114.1×82.0×54.7 mm (L×W×H)
2	Weight	85±2 g
3	Interface	USB-C
4	Rated Power	3 w
5	Max Volume	110 dB @ 1 m
6	Effective Broadcast Distance	100 m @ 70 dB
7	Bit Rate	16 Kbps/32 Kbps
8	Operating Temperature Range	-10° to 40° C (14° to 104° F)
	Manufacturer Warranty	One-year warranty

C PRINTER- hp laserJet m233sdw Equivalent or Higher

SL.	Specification		Qty.
1	Functions	Print, Copy Scan	3nos.
2	Print speed black (ISO, A4)	Up to 29 ppm ₁	
3	First page out black (A4, ready)	As fast as 7 sec	
4	Duty cycle (monthly, A4)	Up to 20,000 pages	
5	Recommended monthly page volume	200 to 2,000 ₆	
6	Print technology	Laser	



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7	Print quality black (best)	Up to 600 x 600 dpi
8	Display	1.6" Icon LCD
9	Wireless capability	1 built-in Wi-Fi 802.11b/g/n
10	Connectivity, standard	1 Gigabit Ethernet 10/100/1000TX network 2 Hi-Speed USB 2.0 (device) Wireless 802.11b/g/n, Dual band 2.4GHz/5GHz
11	Compatible Operating Systems	Windows 11, Windows 10, Windows 8, Windows 8.1, Windows 7, macOS 10.14 Mojave, macOS 10.15 Catalina, macOS 11 Big Sur, macOS 12 Monterey and Linux
12	Memory	64 MB
13	Maximum Memory	64 MB
14	Paper handling input, standard	150-sheet input tray
15	Paper handling output, standard	100-sheet output tray
16	Duplex printing	Auto-duplex
17	Media sizes supported	A4, A5, A6, B5 (JIS)
18	Media types	Paper (laser, plain, rough, vellum), Envelopes, Labels, Cardstock, Postcard
19	Scanner type	Flatbed, ADF
20	Scan resolution, optical	Up to 600 dpi
21	Scan size, maximum	297 x 216 mm
22	Scan size (ADF), maximum	215.9 x 355.6 mm
23	Duplex ADF scanning	No
24	Automatic document feeder capacity	Standard, 40 sheets
25	Copy speed (black, normal quality, A4)	Up to 29 cpm
26	Copy resolution (black text)	Up to 600 x 600 dpi
27	Copy reduce / enlarge settings	25 to 400%
28	Manufacturer Warranty	One-year limited warranty

The Supplier is required to mention make / model (as applicable) of the goods to be supplied and must attach the appropriate original printed literature / brochures for the various items listed.



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Documents required to be submitted as part of the Quotation:

The original and *copy(ies)* of quotation submitted by the supplier shall comprise the following:

- a. A duly completed and signed priced quotation as per the Schedule of Items and the Priced Quotation.
- b. A valid Trade License¹;
- c. A valid Tax Clearance Certificate;
- d. The required bid security
- e. Technical Specification of the Goods to be supplied with catalogue; and
- f. Any other requirements specified in this document

¹ The non-submission of historical (b & c) documents should not become rejection criteria and should be given one chance to the bidder(s) to submit.



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Terms and Conditions for the Supply of Goods and Payment

The Terms and Conditions hereinafter may only be varied with the written agreement of the Purchaser (BTF) and no terms and conditions put forward at any time by the Supplier shall form any part of the Contract.

1. The Supplier shall be required to submit a performance security of 10% of the quoted price in the form of cash warrant, demand draft or unconditional Bank Guarantee issued by a financial institution located in Bhutan, which shall be furnished upon signing the contract. Performance security shall be valid till the end of warranty period and will be returned after the end of warranty period.
2. The supply and demonstration of the goods shall be completed within **45** days from the date of issue of the Purchase Order, or the signing of the contract (if applicable);
3. Payment of the Invoice shall be arranged by the Purchaser, within thirty (30) days upon submission of original Invoice and TPN number, against the actual supplied quantities of goods as listed in the Purchase Order.
4. The quoted price shall include all taxes, duties, insurance and any other costs involved and nothing extra shall be paid.
5. Any goods found defective during the warranty period shall be replaced/repaired by the supplier at his cost. If the supplier fails to rectify and or replace the defective goods, the purchaser shall do it at the cost of the supplier.
6. The supplier shall pay liquidated damages at the rate of 0.1% per day for each day of delay to a maximum of 10% of the quoted price.
7. The Purchaser may, by written notice, terminate the Purchase Order (or Contract if applicable) in whole or in part at any time for its convenience:
 - a. if the Supplier fails to perform any other Terms and conditions specified with the Purchase Order, or exceeds the maximum amount of liquidated damages.
 - b. if the Supplier fails to perform any other obligation(s) under the Purchase Order, or
 - c. if the Supplier does not take any remedial action within a period of (7) seven calendar days after receipt of a notice of default from the Purchaser specifying the nature of the default(s),
or
 - d. if the Supplier, in the judgment of the Purchaser, has engaged in any corrupt or fraudulent practices in competing for or in executing the tasks under this Purchase Order; and



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- e. if the Supplier, in the judgment of the Purchaser, has involved in **any Money Laundering and Terrorism Financing (ML/TF)**. As part of due diligence process, the supplier will require to fill up the Customer Due Diligence (CDD).
8. The Supplier shall provide the warranty, as stipulated in the Quotation document, for the goods to be supplied and confirm that if any faults are detected within the warranty period in the supplied/installed goods, the Supplier shall be bound to rectify the fault or replace the goods as the case may be. The security deposit shall be used to cover the cost of supplies not delivered or defective items not replaced or rectified.
9. The purchaser may procure any of the items from the open market in case the supplier fails to supply the goods within the stipulated time and realise the difference amount between the quoted price & market price from the security deposit.



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[Purchaser to use normal Letter Head format]

PURCHASE ORDER FOR THE SUPPLY OF GOODS

Purchase Order No:	Purchase Order Date:
From: [name and address of Purchaser]	[Contact person, Telephone Number & Fax Number e-mail address]

To: [name and address of the Supplier]	[Contact person, Telephone Number Fax Number e-mail address supplier reference]
Delivery date:	
Delivery terms:	Order Value (Nu.):

The [insert name of procuring agency] has accepted your Quotation dated [insert date] for the supply of Goods as listed below and request you to supply the goods within the delivery date stated above, in the quantities and units and on these Terms and Conditions. For convenience, a copy of your signed quotation is attached.

ORDER ITEMS					
Item No	Description	Supplier Ref	Unit Price	Qty	Total Price

In acceptance of this Purchase Order, you are requested to sign below, at which time the Contract shall become legally binding upon both parties. You are also requested to confirm that you will be supplying the goods within the Delivery date mentioned above.

For the Purchaser: Signature	For the Supplier: Signature
Print Name	Print name
Designation	Designation
Date	Date



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Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS CONTRACT AGREEMENT made the [] day of [], [], BETWEEN

- (1) **[The Bhutan Trust Fund for Environmental Conservation]**, an **[Autonomous Agency]** and having its principal place of business **[Near Nazhoen Pelri Complex, Thimphu]** (hereinafter called “the Purchaser”), and
- (2) **[.....]**, a corporation incorporated under the laws of **[Bhutan]** and having its principal place of business at **[Thimphu]** (hereinafter called “the Supplier”).

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., **[insert name of work]** and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of **[insert amount]** (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall constitute the Contract between the Purchaser and the supplier and each shall be read and construed as an integral part of the Contract, viz.:
 - a. This Contract Agreement;
 - b. Terms and Conditions;
 - c. Technical Requirements (including Schedule of Supply and Technical specifications;
 - d. The Supplier’s Bid and original Price Schedules;
 - e. The Purchaser’s Notification of Award of Contract;
 - f. The form of Performance Security;
 - g. The form of Bank Guarantee for Advance Payment;
 - h. **[Insert here any other document(s) forming part of the Contract]**
3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of defects therein, the Contract Price



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or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bhutan on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*

In the capacity of *[insert title or other appropriate designation]*

In the presence of *[insert signature]*

[Insert identification of official witness]

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*

In the capacity of *[insert title or other appropriate designation]*

In the presence of *[insert signature]*

[Insert identification of official witness]



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Performance Security

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

Date: *[insert date (as day, month, and year) of Bid submission]*

IFB No. and title: *[insert no. and title of bidding process]*

Bank's Branch or Office: *[insert complete name of Guarantor]*

Beneficiary: *[insert complete name of Purchaser]*

PERFORMANCE GUARANTEE No.: *[insert Performance Guarantee number]*

We have been informed that *[insert complete name of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[Insert number]* dated *[insert day and month]*, *[insert year]* with you, for the supply of *[description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a Performance Guarantee is required.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum(s) not exceeding *[insert amount(s)]² in figures and words* upon receipt by us of your first demand in writing declaring the Supplier to be in default under the Contract, without cavil or argument, or you needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This Guarantee shall expire no later than the *[insert number]* day of *[insert month]* *[insert year]*,³ and any demand for payment under it must be received by us at this office on or before that date. We agree to a one-time extension of this Guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee.

[Signatures of authorized representatives of the bank and the Supplier]

Bank Guarantee for Advance Payment

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.]



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Date: *[insert date (as day, month, and year) of Bid submission]*

IFB No. and title: *[insert number and title of bidding process]*

[Bank's letterhead]

2 The Bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency (ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

3 Date established in accordance with Clause 19.4 of the General Conditions of Contract ("GCC"). The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the Bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee.

Beneficiary: *[insert legal name and address of Purchaser]*

ADVANCE PAYMENT GUARANTEE No.: *[insert Advance Payment Guarantee no.]*

We, *[insert legal name and address of bank]*, have been informed that *[insert complete name and address of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert date of Contract]* with you, for the supply of *[insert types of Goods to be delivered]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount(s) in figures and words]* upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier in its account *[insert number and domicile of the account]*

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[insert date⁴]*. We agree to a one-time extension of this Guarantee for a period not to exceed *[six months] [one year]*, in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee.

[signature(s) of authorized representative(s) of the bank]



⁴ *Insert the Delivery date stipulated in the Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee*