



Republic of Maldives

SHOPPING DOCUMENTS

FOR

**PROCUREMENT OF DRONE AND
ACCESSORIES**

Issued on: September 03, 2024

IFQ No.: (IUL)438-ASPIRE/1/2024/28

Issued by:
Accelerating Sustainable Private Investment in Renewable Energy (ASPIRE) Project
SCF Grant No.: TF017182
Project Management Unit
Ministry of Climate Change, Environment and Energy

Section I. Instructions to Bidders (ITB)

A: General	
1. Scope of Supply	<p>1.1 The Government of the republic of Maldives through the Ministry of Climate Change, Environment and Energy invites you to submit Quotation for the supply of Goods and Related Services incidental thereto as specified in Section III, Schedule of Requirements.</p> <p>1.2 The name and identification number of this Request for Quotation (RFQ) are specified in the Data Sheet.</p>
Fraud and Corruption	<p>2.1 It is the Bank’s policy to require that Borrowers (including beneficiaries of Bank loans), as well as bidders, suppliers, and contractors and their subcontractors under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Bank:</p> <p>(a) defines, for the purposes of this provision, the terms set forth below as follows:</p> <ul style="list-style-type: none"> (i) “corrupt practice” is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party; (ii) “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; (iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; (iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party; (v) “obstructive practice” is <ul style="list-style-type: none"> (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or

	<p>collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or</p> <p>(bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under sub-clause 2.1 (e) below.</p> <p>(b) will reject a proposal for award if it determines that the supplier recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;</p> <p>(c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur;</p> <p>(d) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a Bank-financed contract; and</p> <p>(e) will have the right to require that a provision be included in bidding documents and in contracts financed by a Bank loan, requiring bidders, suppliers, and contractors and their sub-contractors to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.</p>
<p>B: Contents of Documents</p>	
<p>3. Contents of Documents</p>	<p>3.1 The documents consist of the Sections indicated below and should be read in conjunction with any modifications issued in accordance with Data Sheet.</p> <ul style="list-style-type: none"> • Section I. Instructions to Bidders (ITB) • Section II. Data Sheet • Section III. Schedule of Requirements

	<ul style="list-style-type: none"> • Section IV. Technical Specifications & Compliance with Specifications • Section V. Quotation submission Form(s) • Section VI: Price Schedule <p>3.2 The Supplier is expected to examine all instructions, forms, terms, and specifications in this Invitation. Failure to furnish all information or documentation required by this Invitation may result in the rejection of the Quotation.</p> <p>3.3 A prospective Supplier requiring any clarification of this Invitation Documents shall contact the Purchaser in writing at the Purchaser’s address specified in the Data Sheet. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than three (03) days prior to the deadline for submission of Quotation. The Purchaser shall forward copies of its response to all those who have received the Invitation, including a description of the inquiry but without identifying its source.</p>
C: Preparation of Quotation	
<p>4. Documents Comprising your Quotation</p>	<p>4.1 The Quotation shall comprise the following and any other documents specified in the Data Sheet:</p> <ul style="list-style-type: none"> (a) Quotation Submission Form and (b) Price Schedules; and (c) Technical Specifications & Compliance with Specifications
<p>5. Quotation Submission Form and Price Schedules</p>	<p>5.1 The Supplier shall submit the Quotation Submission Form using the form furnished in Section V. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.</p> <p>5.2 Alternative offers shall not be considered. The Suppliers are advised not to quote different options for the same item but furnish the most competitive among the options available to the Supplier.</p> <p>5.3 Suppliers should quote the price including delivery period.</p>
<p>6. Prices and Discounts</p>	<p>6.1 Unless specifically stated in Data Sheet, all items must be priced separately in the Price Schedules.</p> <p>6.2 The price to be quoted in the Quotation Submission Form shall be the total price of the Quotation, including any discounts offered.</p>

	<p>6.3 Prices quoted by the Supplier shall be fixed during the Supplier’s performance of the Contract and not subject to variation on any account. A Quotation submitted with an adjustable price shall be treated as non-responsive and may be rejected.</p> <p>6.4 Incoterm: CIP</p>
7. Currency	7.1 The supplier shall quote only in Maldivian Rufiyaa .
8. Documents to Establish the Conformity of the Goods	<p>8.1 The Supplier shall furnish as part of its quotation the documentary evidence that the Goods conform to the technical specifications and standards specified in Section IV, “Technical Specifications & Compliance with Specifications”. The “Supplier Response (Y/N)” column should be filled by the supplier. Supplier should indicate “Y” in the column if the supplier is able to meet the requirements and “N” if the supplier is unable to meet the requirement.</p> <p>8.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods, demonstrating substantial responsiveness of the Goods to the technical specifications, and if applicable, a statement of deviations and exceptions to the provisions of the Technical Specifications given.</p> <p>8.3 If stated in the Data Sheet the Supplier shall submit a certificate from the manufacturer to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Maldives.</p>
9. Period of Validity of quotation	9.1 Quotations shall remain valid for the period of Ninety (90) days after the quotation submission deadline date.
10. Format and Signing of Quotation	10.1 The quotation shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Supplier.
D: Submission and Opening of Quotation	
11. Submission of Quotation	<p>11.1 Supplier may submit their quotations by post mail or by hand in sealed envelopes addressed to the Purchaser bearing the specific identification of the RFQ number.</p> <p>11.2 If the quotation is not submitted in a sealed and marked envelope as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the quotation.</p>

12. Deadline for Submission of Quotation	12.1 Quotations must be received by the Purchaser at the address set out in Section II, “ Data Sheet ”, and no later than the date and time as specified in the Data Sheet .
13. Late Quotation	13.1 The Purchaser shall reject any quotation that arrives after the deadline for submission of quotations, in accordance with ITB Clause 12.1 above.
14. Opening of Quotations	14.1 The Purchaser shall conduct a public reading of the quotations at the address, date and time specified in the Data Sheet .
E: Evaluation and Comparison of Quotation	
15. Clarifications	<p>15.1 To assist in the examination, evaluation and comparison of the quotations, the Purchaser may, at its discretion, ask any Supplier for a clarification of its quotation. Any clarification submitted by a Supplier in respect to its quotation which is not in response to a request by the Purchaser shall not be considered.</p> <p>15.2 The Purchaser’s request for clarification and the response shall be in writing.</p>
16. Responsiveness of Quotations	<p>16.1 The Purchaser will determine the responsiveness of the quotation to the documents based on the contents of the quotation received.</p> <p>16.2 If a quotation is evaluated as not substantially responsive to the documents issued, it may be rejected by the Purchaser.</p>
17. Evaluation of Quotation	<p>17.1 The Purchaser shall evaluate each quotation that has been determined, to be substantially responsive.</p> <p>17.2 If more than one item is given in the Schedule of Requirements, the evaluation will be done either each separately or considering the total quoted price for all the items or any other manner is stated in the Data Sheet.</p> <p>17.2 To evaluate a quotation, the Purchaser may consider the following:</p> <ul style="list-style-type: none"> (a) The Price as quoted; (b) Price adjustment for correction of arithmetical errors; (a) Price adjustment due to discounts offered. <p>17.3 The Purchaser’s evaluation of a quotation may require the consideration of other factors, in addition to the Price quoted if stated in Section II, Data Sheet. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods.</p>

<p>18. Purchaser’s Right to Accept any Quotation, and to Reject any or all Quotations</p>	<p>18.1 The Purchaser reserves the right to accept or reject any quotation, and to annul the process and reject all quotations at any time prior to acceptance, without thereby incurring any liability to Suppliers.</p>
<p>F: Award of Contract</p>	
<p>19. Acceptance of the Quotation</p>	<p>19.1 The Purchaser will accept the quotation of the vendor whose offer has been determined to be the lowest evaluated quotation and is substantially responsive to the documents issued.</p>
<p>20. Notification of acceptance</p>	<p>20.1 Prior to the expiration of the period of validity of quotation, the Purchaser will notify the successful vendor, in writing, that its quotation has been accepted.</p>

Section II: Data Sheet

ITB Clause Reference	
1.2	<p>The name and identification number of this Invitation for Quotation is:</p> <p style="text-align: center;">Procurement of Drone and Accessories IFQ No.: (IUL)438-ASPIRE/1/2024/28</p>
3.3	<p>Purchaser's address is: ASPIRE Project Management Unit Ministry of Climate Change, Environment and Energy Green Building Handhuvaree Hingun, Maafannu Male', Republic of Maldives Email: proc.aspire@environment.gov.mv CC: aishath.shazleen@environment.gov.mv</p>
4.1	<p>a) Quotation (inclusive of product details, delivery period and payment terms)</p> <p>b) If seller is a company or Sole Proprietorship:</p> <ul style="list-style-type: none"> - Company profile/background - Company registration certificate (issued in Maldives); and - GST registration certificate - Tax Clearance report (6 months validity) - National ID card copy. - Contact details (name, designation, mobile number and e-mail address) <p>c) Experience letters, if available</p> <ul style="list-style-type: none"> - Supplier must submit copies of documents for at least 3 contracts completed to prove experience in selling similar types of goods (letters within past five (5) years)
8.3	<p>Manufacture's Authorization is <u>required</u>.</p>
12.1	<p>Address for submission of Quotations is:</p> <p style="text-align: center;">Ground Floor Auditorium Ministry of Climate Change, Environment and Energy, Green Building, Handhuvaree Hingun, Maafannu Male', Republic of Maldives</p> <p>Deadline for submission of quotations is: Date: September 18, 2024 Time: 13:00 hrs local time</p>
14	<p>The quotations shall be opened at the following address:</p> <p style="text-align: center;">Godown meeting room Ministry of Climate Change, Environment and Energy, Green Building, Handhuvaree Hingun, Maafannu Male', Republic of Maldives</p>

	Date: September 18, 2024 Time: 13:00 hrs local time
17.2 & 17.3	Evaluation will be carried out for all the items as a whole. Items not priced will be considered to be included in the total price.

Section III: Schedule of Requirements

Item No.	Description of Goods	Qty	Unit	Final Destination	Latest Date for Delivery
EQP 01	Drone with Camera and Accessories: DJI Mavic 3T Worry-Free Plus Combo Accessories: D-RTK2 High Precision GNSS Mobile Station	01	Nos.	PMU, Male', Maldives	Within 30 to 45 days upon confirmation

Section IV: Technical Specification & Compliance

EQP 01: Drone with Camera and Accessories

Specification	Required	Suppliers Response (Y/N)
Make	Yes	
Model	Yes	
Country of Origin	Yes	
Manufacturers Literature and specification supplied	Yes	

DJI MAVIC 3T WORRY-FREE PLUS COMBO

Aircraft

Specification		Required	Suppliers Response (Y/N)
Weight (with propellers, w/o accessories) [1]	920 g	Yes	
Max Take-off Weight	1,050 g	Yes	
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)	Yes	
Diagonal Distance	380.1 mm	Yes	
Max Ascent Speed	6 m/s (Normal Mode) 8 m/s (Sport Mode)	Yes	
Max Descent Speed	6 m/s (Normal Mode) 6 m/s (Sport Mode)	Yes	
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) [2]	Yes	
Max Wind Speed Resistance	12 m/s[3]	Yes	
Max Take-off Altitude Above SeaLevel	6000 m (without payload)	Yes	
Max Flight Time (no wind)	45 mins[4]	Yes	
Max Hover Time (no wind)	38 mins	Yes	
Max Flight Distance	32 km	Yes	
Max Tilt Angle	30° (Normal Mode) 35° (Sport Mode)	Yes	
Max Angular Velocity	200°/s	Yes	
GNSS	GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled)	Yes	
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)	Yes	
Operating Temperature Range	-10° to 40° C (14° to 104° F)	Yes	

Internal Storage	N/A	Yes	
Motor Model	2008	Yes	
Propeller Model	9453F Propellers for Enterprise	Yes	
Beacon	Built into the aircraft	Yes	

Wide Camera

Specification		Required	Suppliers Response (Y/N)
Sensor	1/2-inch CMOS, Effective pixels: 48 MP	Yes	
Lens	FOV: 84° Format Equivalent: 24 mm Aperture: f/2.8 Focus: 1 m to ∞	Yes	
ISO Range	100-25600	Yes	
Shutter Speed	Electronic Shutter: 8-1/8000 s	Yes	
Max Image Size	8000×6000	Yes	
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	Yes	
Video Resolution	H.264 4K: 3840×2160@30fps FHD: 1920×1080@30fps	Yes	
Bitrate	4K: 85 Mbps FHD: 30 Mbps	Yes	
Supported File Formats	exFAT	Yes	
Photo Format	JPEG	Yes	
Video Format	MP4 (MPEG-4 AVC/H.264)	Yes	

Tele Camera

Specification		Required	Suppliers Response (Y/N)
Sensor	1/2-inch CMOS, Effective pixels: 12 MP	Yes	
Lens	FOV: 15° Format Equivalent: 162 mm Aperture: f/4.4 Focus: 3 m to ∞	Yes	
ISO Range	100-25600	Yes	
Shutter Speed	Electronic Shutter: 8-1/8000 s	Yes	
Max Image Size	4000×3000	Yes	
Photo Format	JPEG	Yes	
Video Format	MP4 (MPEG-4 AVC/H.264)	Yes	
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	Yes	
Video Resolution	H.264	Yes	

	4K: 3840×2160@30fps FHD: 1920×1080@30fps		
Bitrate	4K: 85 Mbps FHD: 30 Mbps	Yes	
Digital Zoom	8x (56x hybrid zoom)	Yes	

Thermal Camera[5]

Specification		Required	Suppliers Response (Y/N)
Thermal Imager	Uncooled VOx Microbolometer	Yes	
Pixel Pitch	12 μm	Yes	
Frame Rate	30 Hz	Yes	
Lens	DFOV: 61° Format Equivalent: 40 mm Aperture: f/1.0 Focus: 5 m to ∞	Yes	
Sensitivity	≤50 mk@F1.1	Yes	
Temperature Measurement Method	Spot Meter, Area Measurement	Yes	
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)	Yes	
Palette	White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2	Yes	
Photo Format	JPEG (8-bit) R-JPEG (16-bit)	Yes	
Video Resolution	640×512@30fps	Yes	
Bitrate	6 Mbps	Yes	
Video Format	MP4 (MPEG-4 AVC/H.264)	Yes	
Still Photography Modes	Single: 640×512 Timed: 640×512 JPEG: 2/3/5/7/10/15/20/30/60 s	Yes	
Digital Zoom	28x	Yes	
Infrared Wavelength	8-14 μm	Yes	
Infrared Temperature Measurement Accuracy	±2° C or ±2% (using the larger value)	Yes	

Gimbal

Specification		Required	Suppliers Response (Y/N)
Stabilization	3-axis (tilt, roll, pan)	Yes	
Mechanical Range	Tilt: -135° to 45° Roll: -45° to 45° Pan: -27° to 27°	Yes	
Controllable Range	Tilt: -90° to 35° Pan: Not controllable	Yes	
Max Control Speed (tilt)	100°/s	Yes	
Angular Vibration Range	±0.007°	Yes	

Sensing

Specification		Required	Suppliers Response (Y/N)
Type	Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft.	Yes	
Forward	Measurement Range: 0.5-20 m Detection Range: 0.5-200 m Effective Sensing Speed: Flight Speed \leq 15 m/s FOV: Horizontal 90°, Vertical 103°	Yes	
Backward	Measurement Range: 0.5-16 m Effective Sensing Speed: Flight Speed \leq 12 m/s FOV: Horizontal 90°, Vertical 103°	Yes	
Lateral	Measurement Range: 0.5-25 m Effective Sensing Speed: Flight Speed \leq 15 m/s FOV: Horizontal 90°, Vertical 85°	Yes	
Upward	Measurement Range: 0.2-10 m Effective Sensing Speed: Flight Speed \leq 6 m/s FOV: Front and Back 100°, Left and Right 90°	Yes	
Downward	Measurement Range: 0.3-18 m Effective Sensing Speed: Flight Speed \leq 6 m/s FOV: Front and Back 130°, Left and Right 160°	Yes	
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)	Yes	

Video Transmission

Specification		Required	Suppliers Response (Y/N)
Video Transmission System	DJI O3 Enterprise Transmission	Yes	
Live View Quality	Remote Controller: 1080p/30fps	Yes	
Operating Frequency [6]	2.400-2.4835 GHz 5.725-5.850 GHz	Yes	
Max Transmission Distance(unobstructed, free of interference) [7]	FCC: 15 km CE: 8 km SRRC: 8 km MIC: 8 km	Yes	
Max Transmission Distance(Obstructed) [8]	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 (CE/SRRC/MIC) Low Interference (open spaces, remote areas, etc.): 9-15 km (FCC), 6-8 km (CE/SRRC/MIC)	Yes	
Max Download Speed [9]	15 MB/s (with DJI RC Pro Enterprise)	Yes	
Latency (depending on environmental conditions and mobile device)	Approx. 200 ms	Yes	
Antenna	4 Antennas, 2T4R	Yes	

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)	Yes	
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DJI RC Pro Enterprise

Specification		Required	Suppliers Response (Y/N)
Video Transmission System	DJI O3 Enterprise Transmission	Yes	
Max Transmission Distance(unobstructed, free of interference)[7]	FCC: 15 km CE/SRRC/MIC: 8 km	Yes	
Video Transmission Operating Frequency [6]	2.400-2.4835 GHz 5.725-5.850 GHz	Yes	
Antenna	4 Antennas, 2T4R	Yes	
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)	Yes	
Wi-Fi Protocol	802.11 a/b/g/n/ac/ax Support 2x2 MIMO Wi-Fi	Yes	
Wi-Fi Operating Frequency [6]	2.400-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz	Yes	
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)	Yes	
Bluetooth Protocol	Bluetooth 5.1	Yes	
Bluetooth Operating Frequency	2.400-2.4835 GHz	Yes	
Bluetooth Transmitter Power (EIRP)	< 10 dBm	Yes	
Screen Resolution	1920x1080	Yes	
Screen Size	5.5 inches	Yes	
Screen	60 fps	Yes	
Brightness	1,000 nits	Yes	
Touchscreen Control	10-point multi-touch	Yes	
Battery	Li-ion (5000 mAh @ 7.2 V)	Yes	
Charging Type	Recommended to be charged with the included DJI USB-C Power Adapter (100W) or USB charger at 12 V or 15 V	Yes	
Rated Power	12 W	Yes	
Storage Capacity	Internal Storage (ROM): 64 GB Supports a microSD card for expanded capacity.	Yes	
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)	Yes	

Specification		Required	Suppliers Response (Y/N)
	Approx. 2 hours 50 minutes (with the included DJI USB-C Power Adapter (100W) charging the aircraft and remote controller simultaneously)		
Operating Time	Approx. 3 hours	Yes	
Video Output Port	Mini-HDMI port	Yes	
Operating Temperature Range	-10° to 40° C (14° to 104° F)	Yes	
Storage Temperature	-30° to 60° C (-22° to 140° F) (within one month) -30° to 45° C (-22° to 113° F) (one to three months) -30° to 35° C (-22° to 95° F) (three to six months) -30° to 25° C (-22° to 77° F) (more than six months)	Yes	
Charging Temperature	5° to 40° C (41° to 104° F)	Yes	
Supported DJI Aircraft [10]	DJI Mavic 3E DJI Mavic 3T	Yes	
GNSS	GPS+Galileo+GLONASS	Yes	
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)	Yes	
Weight	Approx. 680 g	Yes	
Model	RM510B	Yes	

Storage

Specification		Required	Suppliers Response (Y/N)
Supported Memory Cards	Aircraft: U3/Class10/V30 or above is required. A list of recommended microSD cards can be found below.	Yes	
Recommended microSD Cards	Remote Controller: 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 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	Yes	

	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		
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Battery

Specification		Required	Suppliers Response (Y/N)
Capacity	5000 mAh	Yes	
Standard Voltage	15.4 V	Yes	
Max Charging Voltage	17.6 V	Yes	
Type	LiPo 4S	Yes	
Chemical System	LiCoO2	Yes	
Energy	77 Wh	Yes	
Weight	335.5 g	Yes	
Charging Temperature	5° to 40° C (41° to 104° F)	Yes	

Charger

Specification		Required	Suppliers Response (Y/N)
Input	100-240 V (AC Power), 50-60 Hz, 2.5 A	Yes	
Output Power	100 W	Yes	
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.	Yes	

Charging Hub

Specification		Required	Suppliers Response
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			(Y/N)
Input	USB-C: 5-20 V, 5.0 A	Yes	
Output	Battery Port: 12-17.6 V, 8.0 A	Yes	
Rated Power	100 W	Yes	
Charging Type	Three batteries charged in sequence	Yes	
Charging Temperature Range	5° to 40° C (41° to 104° F)	Yes	

RTK Module

Specification		Required	Suppliers Response (Y/N)
Dimensions	50.2×40.2×66.2 mm (L×W×H)	Yes	
Weight	24±2 g	Yes	
Interface	USB-C	Yes	
Power	Approx. 1.2 W	Yes	
RTK Positioning Accuracy	RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm	Yes	

Speaker

Specification		Required	Suppliers Response (Y/N)
Dimensions	114.1×82.0×54.7 mm (L×W×H)	Yes	
Weight	85±2 g	Yes	
Interface	USB-C	Yes	
Rated Power	3 W	Yes	
Max Volume [11]	110 dB @ 1 m	Yes	
Effective Broadcast Distance [11]	100 m @ 70 dB	Yes	
Bit Rate	16 Kbps/32 Kbps	Yes	
Operating Temperature Range	-10° to 40° C (14° to 104° F)	Yes	

[1] The standard weight of the aircraft (including the battery, propellers, and a microSD card). The actual product weight may vary due to differences in batch materials and external factors.

[2] Maximum speed in Sport mode is 19m/s when operating in EU regions.

[3] Max wind speed resistance during takeoff and landing.

[4] Measured with Mavic 3 Enterprise Series flying at a constant speed of 32.4 kph in a windless environment at sea level until the battery reached 0%. Data is for reference only. Please pay attention to RTH reminders in the DJI Pilot 2 app during flight.

[5] DO NOT expose the infrared camera lenses to strong sources of energy such as the sun, lava, or laser beams. Otherwise, the camera sensor may be burned, leading to permanent damage.

[6] In some countries and regions, the 5.8 and 5.1GHz frequencies are prohibited, or the 5.1GHz frequency is only allowed for indoor use. Check local laws and regulations for more information.

[7] Measured in an unobstructed environment free of interference. The above data shows the farthest communication range for one-way, non-return flights (with no payload) under each standard. During your flight, please pay attention to RTH reminders in the DJI Pilot 2 app.

[8] Data tested under different standards in unobstructed environments with typical interference. Uses for reference purposes only and provides no guarantee as to the actual flight distance.

[9] Measured in a laboratory environment with little interference in countries/regions that support both 2.4 GHz and 5.8 GHz. With footage saved on the officially recommended microSD cards. Download speeds may vary depending on actual conditions.

[10] Will support more DJI aircraft in the future. Visit the official website for the latest information.

[11] Data was measured in a controlled environment and is for reference only. Actual use experience may vary depending on software version, sound source, specific environment, and other conditions.

IN THE BOX

Specification	Required	Suppliers Response (Y/N)
Mavic 3T Aircraft × 1	Yes	
Mavic 3 Intelligent Flight Battery × 1	Yes	
microSD Card 64GB × 1	Yes	
Gimbal Protector × 1	Yes	
Mavic 3 Enterprise Series Propellers (Pair) × 3	Yes	
RC Pro Enterprise × 1	Yes	
Screwdriver × 1	Yes	
USB-C Power Adapter (100W) × 1	Yes	
100W Power Adaptor AC Cable × 1	Yes	
USB-C Cable × 1	Yes	
USB-C to USB-C Cable × 1	Yes	
Protector Case × 1	Yes	
DJI Mavic 3 Enterprise Series RTK Module × 1	Yes	
DJI Mavic 3 Enterprise Series Battery Kit × 1	Yes	

ACCESSORIES - D-RTK 2 HIGH PRECISION GNSS MOBILE STATION

GNSS Receiver

Specification		Required	Suppliers Response (Y/N)
GNSS Frequency	Simultaneously receive : GPS: L1 C/A, L2, L5 BEIDOU: B1, B2, B3 GLONASS: F1, F2 Galileo: E1, E5A, E5B	Yes	
Positioning Accuracy	Single Point Horizontal : 1.5 m(RMS) Vertical : 3.0 m(RMS) RTK Horizontal : 1 cm+ 1 ppm(RMS) Vertical : 2 cm+ 1 ppm(RMS) 1 ppm: For every 1 km increase in distance, the accuracy will be 1 mm less. For example, the horizontal accuracy is 1.1 cm when the receiving end is 1 km away from the base station.	Yes	
Positioning Update Rate	1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz	Yes	
Cold Start	< 45 s	Yes	
Hot Start	< 10 s	Yes	
Recapture Time	< 1 s	Yes	
Initialization Reliability	> 99.9%	Yes	
Differential Data Format	RTCM 2.X/3.X	Yes	

Communication and Data Storage

Specification		Required	Suppliers Response (Y/N)
Data Link	OcuSync, Wi-Fi, LAN, 4G	Yes	
Operating Frequency	2.400 GHz to 2.483 GHz (China, United States, Australia, Europe, Japan, Korea) 5.725 GHz to 5.850 GHz (China, United States, Australia)	Yes	
EIRP	OcuSync 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 26 dBm 5.8 GHz FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 26 dBm Wi-Fi 2.4 GHz SRRC (Mainland China) / CE (Europe) / MIC (Japan) / KCC (Korea): < 20 dBm FCC (United States, Australia) / NCC (Taiwan, China): < 22 dBm 5.8 GHz	Yes	

	FCC (United States, Australia) / SRRC (Mainland China) / NCC (Taiwan, China): < 22 dBm		
Communication Distance	<p>Operating Mode 1/3 <small>SEP</small>SRRC/NCC/FCC/MIC/KCC/CE: 2 km <small>SEP</small>(Unobstructed and free of interference, when the D-RTK 2 Mobile Station is used as a base station and the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m, when the difference in height between the remote controller and D-RTK 2 is less than 2 m, and when the remote controller is 1.2 m from ground level)</p> <p>Operating Mode 4 <small>SEP</small>Between the aircraft and mobile station: <small>SEP</small>NCC/FCC: 7 km; SRRC/MIC/KCC/CE: 5 km <small>SEP</small>Between the remote controller and mobile station: 200 m (Unobstructed and free of interference at a flying altitude of about 120 m, when the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m, and when the remote controller is 1.2 m from ground level)</p> <p>Operating Mode 5 <small>SEP</small>NCC/FCC: 12 km; SRRC/MIC/KCC/CE: 6 km (Unobstructed and free of interference, when the distance from the D-RTK 2 antenna to the bottom of the tripod is 1.8 m)</p>	Yes	
Memory Capacity	16 GB	Yes	

Electrical Characteristics

Specification		Required	Suppliers Response (Y/N)
Power Consumption	12 W	Yes	
Power Supply	16.5 to 58.8VDC	Yes	
Battery	Type : Lithium-ion battery Capacity: 4920 mAh Energy: 37.3 WH	Yes	
Run Time	WB37 battery : > 2 h MG-12000P battery : > 50 h	Yes	

Operating Temperature

Specification		Required	Suppliers Response (Y/N)
Operating Temperature	4° to 131° F (-20° to 55° C)	Yes	

IMU

Specification		Required	Suppliers Response (Y/N)
Features	Built-in high-precision 6-axis accelerometer D-RTK 2 movement monitoring Sloping measurements Electronic bubble level	Yes	

Physical Characteristics

Specification		Required	Suppliers Response (Y/N)
Dimensions(D-RTK 2 body with extension rod)	168 mm×168 mm×1708 mm	Yes	
IP Rating	IP65	Yes	

Section V: Quotation Submission Form

[The Supplier shall fill in this Form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions will accepted.]

Date:

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the document issued;
- (b) We offer to supply in conformity with the documents issued and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods *[insert a brief description of the Goods]*;
- (c) The total price of our quotation including any discounts offered is: *[insert the total quoted price in words and figure]*;
- (d) Our quotation shall be valid for the period of time specified in ITB Sub-Clause 9.1, from the date fixed for the quotation submission deadline in accordance with ITB Sub-Clause 12.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) We understand that this quotation, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us.
- (f) We understand that you are not bound to accept the lowest evaluated quotation or any other quotation that you may receive.

Signed: *[insert signature of person whose name and capacity are shown]*

Name: *[insert complete name of person signing the Quotation Submission Form]*

Note: Bidder must submit technical specifications of the quoted items.

Section VI: Price Schedule

Line Item N°	Description of Goods	Delivery Date	Quantity and physical unit	Unit price	TOTAL PRICE per line item (Col. 4x5)
1	2	3	4	5	6
EQP 01	Drone with Camera and Accessories: DJI Mavic 3T Worry-Free Plus Combo Accessories: D-RTK2 High Precision GNSS Mobile Station	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price]</i>	<i>[insert total price per item]</i>
				SUB TOTAL	
				GST	
				GRAND TOTAL	

Sample Purchase Order

Title of Procurement: .. (Name of Procurement)				Date: (Date of this purchase Order)					
Our Reference: (Quotation Number)				Your Reference: (Quotation submitted by you with your cover letter dated)					
We are pleased to inform you that we have accepted your quotation for the supply of following goods as detailed below:									
Item #	Description	Model Number & Specification reference ¹	Unit	Qty	Unit Price	Amount	Delivery Date	Delivery Location	Remarks

Signature Name:

Address of Purchaser:

Note: Other Conditions of this supply are as follows:

¹ Attach specifications