

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
Department of Earth Sciences

Enquiry No: ES/PROJECT/JNM/2017-18/06

Date: 19.12.17

Subject: Quotation for supply of D-RTK with Hexa-copter Aircraft (DJI Matirc 600 Pro) and other accessories as mentioned below.

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us by December 26, 2017 in the form of a hard copy to the address mentioned below. If you have any question please call Prof. J. N. Malik at 0512-2598971, email: javed@iitk.ac.in

The prospective suppliers are required to send quotation in two parts in sealed envelopes, as "Technical Bid" and "Financial Bid". The Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. **The two separate and sealed envelopes should be clearly marked appropriately as "Technical Bid" and "Financial Bid".**

NOTE: - Kindly write the inquiry no on the top of envelop.

Quotations are invited for D-RTK with Hexa-copter Aircraft (DJI Matirc 600 Pro) and other accessories with below mentioned specifications.

D-RTK SPECIFICATIONS	
Positioning Accuracy	Horizontal: 1 cm + 1 ppm
	Vertical: 2 cm + 1 ppm
Orientation Accuracy	(0.2/R)°
	R is the baseline distance (distance between the two Air System antennas) in meters.
Root Mean Square (RMS)	0.03 m/s
Frequency Used	Global version: GPS L1&L2, GLONASS F1&F2
	Asia-Pacific version: GPS L1&L2, BEIDOU B1&B2
Interface Type	CAN, UART, USB
Input Voltage	3S to 12S (12 to 52 V)
Power Consumption	5.2 W
Current	0.45 A (@ 12 V)
D-RTK Processor Dimensions	112.3 mm × 63 mm × 18.6 mm
D-RTK Processor Weight	139.5 g
Operating Temperature	32° to 113°F (0° to 45°C)
Storage Temperature	-40° to 185°F (-40° to 85°C)
Hexa-copter AIRCRAFT	
Diagonal Wheelbase	1133 mm
Dimensions	1668 mm × 1518 mm × 727 mm with propellers, frame arms and GPS mount unfolded (including landing gear)
	437 mm × 402 mm × 553 mm with propellers, frame arms and GPS mount folded (excluding landing gear)
Package Dimensions	525 mm × 480 mm × 640 mm
Weight (with six TB47S batteries)	9.5 kg
Weight (with six TB48S batteries)	10 kg

Max Takeoff Weight Recommended	15.5 kg
Hovering Accuracy (P-GPS)	Vertical: ± 0.5 m, Horizontal: ± 1.5 m
Max Angular Velocity	Pitch: 300°/s, Yaw: 150°/s
Max Pitch Angle	25°
Max Wind Resistance	8 m/s
Max Ascent Speed	5 m/s
Max Descent Speed	3 m/s
Max Service Ceiling Above Sea Level	· 2170R propellers: 2500 m ;
	· 2195 propellers: 4500 m
Max Speed	40 mph / 65 kph (no wind)
Hovering Time* (with six TB47S batteries)	No payload: 32 min, 6 kg payload: 16 min
Hovering Time* (with six TB48S batteries)	No payload: 38 min, 5.5 kg payload: 18 min
Supported DJI Gimbals	Ronin-MX; Zenmuse Z30, Zenmuse X5/X5R, Zenmuse X3, Zenmuse XT; Zenmuse Z15 Series HD Gimbal: Z15-A7, Z15-BMPCC, Z15-5D III, Z15-GH4
Flight Control System	A3 Pro
Propulsion System	Motor model: DJI 6010
	Propeller model: DJI 2170R
Retractable Landing Gear	Standard
Operating Temperature	14° F to 104° F (-10° C to 40° C)

Inclusive of accessories: Carry Bag, SD Card (Min 64 GB), Extra set of Propellers, Display Unit or Controller, 6 Nos. extra Batteries, Charging Hub etc.

Terms and Conditions:-

1. Maximum education discount, if any should be offered.
2. Validity of quotation should be at least for 60 days.
3. Prices should be on CIF and FOB separately (if imported).
4. Prices should include the installation and training cost.
5. Normal payment terms for the Institute will be applicable (90% on delivery of the items and the remaining 10% after satisfactory installation/ inspection).
6. **Quotation should carry proper certifications like agency certificate, proprietary certificate, etc.**
7. **If any Pilot License or Pilot Certificate will be needed to fly this aircraft (UAV) or any Unique Identification Number would be required from Manufacturer or DGCA (in future as well), than Supplier will provide or arrange for the same.**
8. Proper Training will also provided by Manufacturer or Supplier at IITK.

Javed N. Mailk

Professor & Head, Department of Earth Sciences
Room No 202, WLE Building, Near ACES, IIT Kanpur
Phone: +91-512-2596468 (Office)