



Date: 25 Oct 2018

CORRIGENDUM – 1

1. It is notified to all concerned that with reference to IITH Tender No. IITH/5(8)/RAJI/2018/T030 dated 09 Oct 2018 for supply, installation and commissioning of "32-CHANNEL LIDAR SYSTEM WITH COMPATABLE UAV", the following changes are made w.r.t. the Tender: -

(a) **Revised Specifications** enclosed as per **Annexure -1 (02 pages)**.

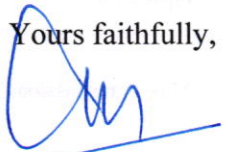
(b) **Revised Due Date & Time for Submission of Tenders as below: -**

SL. NO.		EXISTING	AMENDED AS
(i)	Last Date & Time for submission of Tender	31 Oct 2018 by 03.00 pm	09 Nov 2018 by 03.00 pm
	Date & Time of Tender Opening	31 Oct 2018 at 03.30 pm	09 Nov 2018 at 03.30 pm

2. If any bidder has already submitted the bid prior to issue of this corrigendum, it is required to re-submit the bid before the revised Due Date & Time considering changes in the specifications of the Tender as per this corrigendum.

3. All other Terms & Conditions of Tender remain completely unchanged.

Yours faithfully,


(V.VENKAT RAO)
Joint Registrar
IIT Hyderabad

UAV Specifications

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)
Max Takeoff Weight Recommended	15.5 kg
Max Angular Velocity	Pitch: 300°/s, Yaw: 150°/s
Max Pitch Angle	25°
Max Wind Resistance	8 m/s
Max Service Ceiling Above Sea Level	<ul style="list-style-type: none"> • 2170R propellers: 2500 m ; • 2195 propellers: 4500 m
Max Speed	40 mph / 65 kph (no wind)
Hovering Time	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
Operating Temperature	14° F to 104° F (-10° C to 40° C)

CHARGER (MODEL: MC6S600)

Voltage Output	26.1 V
Rated Power	600 W
Single Battery Port Output Power	100 W

REMOTE CONTROLLER

Operating Frequency	920.6 MHz to 928 MHz (Japan); 5.725 GHz to 5.825 GHz; 2.400 GHz to 2.483 GHz
Max Transmission Distance	FCC Compliant: 3.1 mi (5 km), CE Compliant: 2.2 mi (3.5 km) (Unobstructed, free of interference)
Transmitter Power (EIRP)	10 dBm @ 900M, 13 dBm @ 5.8G, 20 dBm @ 2.4G
Video Output Port	HDMI, SDI, USB
Operating Temperature	14°F to 104° F (-10° to 40° C)
Battery	6000 mAh LiPo 2S

32 Channel LiDAR Sensor Specifications

Channels	32
Weight	Weight: ~925 g (typical, without cabling and interface box)
Environmental Protection	IP67
LiDAR Sensor	
LASER PROPERTIES	Class 1 – Eye-safe per IEC 60825-1:2014
Wavelength	~903 nm
Horizontal Field of View	360°
Vertical Field of View	40° (-25° to +15°)
Minimum Angular Resolution (Vertical)	0.33° (non-linear distribution)
Angular Resolution (Horizontal/Azimuth)	0.1° to 0.4°
Rotation Rate	5 Hz to 20 Hz
Range Accuracy	Up to ±3 cm (Typical)
3D LiDAR Data Points Generated:	
- Single Return Mode:	~600,000 points per second
- Dual Return Mode:	~1,200,000 points per second
UDP Packets Contain:	<ul style="list-style-type: none"> - Time of Flight Distance Measurement - Calibrated Reflectivity Measurement - Rotation Angles - Synchronized Time Stamps (µs resolution)
Platform	
Operating Voltage	10.5 V – 18 V (with interface box and regulated power supply)
Power Consumption	10 W (Typical) ²
Operating Temperature	-20°C to +60°C

- GPS, GNSS module with accuracy of at least 2cm, Software for data acquisition, processing, flight planning and control.