



University of Calcutta

Notice Inviting Tender

Enq No.: CU/RUSA2/AREA6/ENQ/EQUIP/NM/001

Date: 26/12/2025

To
The All Interested Parties
Dear M/s.

Quotations are invited for the supply of the for supply of drone airframe and propulsion components with the following technical specifications. Suppliers are hereby requested to submit quotation for all the items, including the current trade license, service tax registration certificate, PAN No., copy of registration certificate with statutory authorities, GST and other credentials, in a sealed envelope addressed to the **Office of the Registrar Department at the Senate House, 87/1 College Street, Kolkata-700073** within **09/01/2025 (5 PM)**. The authority reserves the right to accept or reject any quotation without showing any reason thereof.

• **Technical Specification of the item(s) for this Tender**

Sl No.	Item with Specs	Qty
1	Multirotor frame — foldable arms, 650–700 mm wheelbase, carbon/glass-fiber composite (medium payload class, landing gear mounts)	1
2	Brushless DC motor — 350–450 KV, ≥ 1.5 kg thrust, 12" prop compatible (4 motors for quadcopter)	4
3	Electronic Speed Controller — 4-in-1, 45–60 A continuous, 3S–6S, PWM/OneShot/DSHOT (Motor speed control)	1
4	Propellers — 12" class (pair CW + CCW), carbon-reinforced or high-strength polymer	2 (pairs)
5	LiPo battery — 6S, 12,000–16,000 mAh, $\geq 25C$ discharge	1
6	High-capacity power module / PDB components — 12–14S compatible, V/I sensing (Power distribution & telemetry of voltage/current)	1
7	PDB mounting plate — compatible with 650-class frames	1
8	Battery cutoff switch — rotary isolator, ≥ 100 A	1
9	Bolt / screw / washer kit — M3–M6 assorted	1
10	4-pin GH connector (1.25 mm) pre-wired (300 mm)	10
11	6-pin GH connector (1.25 mm) pre-wired (300 mm)	8
12	10-pin GH connector (1.25 mm) pre-wired (300 mm)	4
13	Micro USB-A to Micro-B cable — 1.0 m	3
14	XT90 connector — high-current battery connector (male/female as required)	2
15	Anti-vibration mount for flight controller	1

Tentative Budget: Less than Rs. 1 lakh (Rupees one lakh) including GST

Contact details:
Nirmal Murmu
Co-PI, RUSA, Area 6
Assistant Professor
Department of Applied Physics
University of Calcutta
Email: nmaphy@caluinv.ac.in
M: 9836707796



University of Calcutta

Notice Inviting Tender

Enq No.: CU/RUSA2/AREA6/ENQ/EQUIP/NM/002

Date: 26/12/2025

To
The All Interested Parties
Dear M/s.

Quotations are invited for the supply of the UAV avionics items, meeting the following listed specifications. Suppliers are hereby requested to submit quotation for all the items, including the current trade license, service tax registration certificate, PAN No., copy of registration certificate with statutory authorities, GST and other credentials, in a sealed envelope addressed to the **Office of the Registrar Department at the Senate House, 87/1 College Street, Kolkata-700073** within **09/01/2025 (5 PM)**. The authority reserves the right to accept or reject any quotation without showing any reason thereof.

• **Technical Specification of the item(s) for this Tender**

Sl no.	Item with specs	Quantity
1	Flight controller — High-performance 32-bit autopilot processor with dual IMU, integrated barometer and magnetometer; ≥ 12 PWM outputs; supports MAVLink, I ² C, and UART interfaces for sensors and companion systems;	1
2	Ground station for navigation — i5 12th gen (or equiv.), 16 GB RAM, 512 GB SSD, 15.6" FHD	1
3	Radio receiver — 2.4 GHz, ≥ 6 channels, PPM/iBus/SBUS output (Pilot remote-control receiver)	1
4	GNSS module (GPS + compass) — GPS+GLONASS/BeiDou capable, ≥ 5 Hz update	1
5	GPS foldable stand / mast — vibration-isolated mount	1
6	USB flight-simulator cable (2.4 GHz FMS)	1

Tentative Budget: Less than Rs. 1 lakh (Rupees one lakh) including GST

Contact details:
Nirmal Murmu
Co-PI, RUSA, Area 6
Assistant Professor
Department of Applied Physics
University of Calcutta
Email: nmaphy@caluinv.ac.in
M: 9836707796



University of Calcutta

Notice Inviting Tender

Enq No.: CU/RUSA2/AREA6/ENQ/EQUIP/NM/003

Date: 26/12/2025

To
The All Interested Parties
Dear M/s.

Quotations are invited for the supply of the following items vision and processing modules required for GPS-denied drone operation. Suppliers are hereby requested to submit quotation for all the items, including the current trade license, service tax registration certificate, PAN No., copy of registration certificate with statutory authorities, GST and other credentials, in a sealed envelope addressed to the **Office of the Registrar Department at the Senate House, 87/1 College Street, Kolkata-700073** within 09/01/2025 (5 PM). The authority reserves the right to accept or reject any quotation without showing any reason thereof.

• **Technical Specification of the item(s) for this Tender**

Sl no.	Item with specs	Quantity
1	2D LiDAR — 5–10 Hz scan rate, ≥ 8 m range, 360° (ROS compatible, 2D mapping for SLAM & navigation)	1
2	Depth camera (RGB-D) — USB3.0, depth range ≥ 10 m, RGB + depth streams	1
3	Dual-channel LiPo balance charger — 2×100 W AC/DC, multi-chemistry support	1
4	Telemetry radio pair — ~ 915 MHz, MAVLink support, ≥ 1.5 km LOS (during mission telemetry)	1
5	Single board computer (SBC) — quad-core SBC, Linux support, min. 8 GB RAM recommended	1

Tentative Budget: Less than Rs. 1 lakh (Rupees one lakh) including GST

Contact details:
Nirmal Murmu
Co-PI, RUSA, Area 6
Assistant Professor
Department of Applied Physics
University of Calcutta
Email: nmaphy@caluinv.ac.in
M: 9836707796