

Annexure III

Technical Specification for :

Coaxial rotorcraft with flight controller, telemetry and GNSS based navigation

| Specification | | Complied/ Not Complied | Reference Page No. |
|--|---|------------------------------|-----------------------|
| Configuration | Coaxial rotor | | |
| Control mechanism | Variable Rotor collective and cyclic pitch for both rotors | | |
| Max. Rotor diameter | 1000 mm | | |
| Rotor material | Honeycomb and carbon fiber composites | | |
| Airframe | Composites | | |
| Max. dimensions with blades removed | Cylindrical volume; D=600mm, H=250mm | | |
| MTOW | 8 kg | | |
| Max. Payload | 2.5 kg (Removable design) | | |
| Empty weight (w/o battery) | < 3 kg | | |
| Drive system | Geared or direct drive with BLDC motors | | |
| Power | Li-ion 12S Battery pack (Removable) | | |
| Max operable altitude | 3000m above MSL | | |
| Endurance at 3000m | 15 minutes | | |
| Programmable flight controller development board | <ul style="list-style-type: none">• Attitude, position and heading control• Customizable collective/cyclic mixing (CCPM)• In flight tuning capability with remote gain adjustment | | |
| GNSS receiver | GPS, GLONASS, NavIC + RTK support | | |
| Guidance Tools | Programmable planner with waypoint navigation | | |
| Ground station | 2.4GHz Radio transceiver with telemetry | | |
| Radio control & telemetry range (LOS) | 1000m | | |
| Gust resistance | Class 8 (18m/s) | | |

| Terms and conditions | Compliance (Yes/No) | Reference Page No. |
|---|--------------------------------|-------------------------------|
| 1. Controller board architecture and telemetry/guidance interface to be submitted | | |
| 2. Payload tray and battery should be removable easily | | |
| 3. Lead time allowable for delivery is strictly 4 weeks | | |

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)