



**GOVERNMENT OF INDIA
DIRECTORATE GENERAL OF CIVIL AVIATION
DRONE DIRECTORATE**

TYPE CERTIFICATE

No.: T0223000000C

*This certificate, issued to **M/s Dronetech Solutions Private Limited, Mumbai** certifies that the Unmanned Aircraft System*

“ FLYT-I ”,

*its technical specifications and operating limitations for which are contained in datasheet No **T0223000000C** dated **17th February, 2023** is of proper design, material, specification, construction and performance for safe operation based on the recommendation of **M/s TQ Cert Services Pvt Ltd** as required by the Certification Scheme for Unmanned Aircraft Systems notified by the Ministry of Civil Aviation vide S.O. 347(E) dated the 26th of January, 2022.*

This Type Certificate is issued under the provision of Rule 8 and Rule 9 (3) of the Drone Rules 2021.

This certificate shall remain valid until suspended or cancelled.

Date :17th February, 2023

Director General of Civil Aviation

Technical Specifications of M/s.Dronetech Solutions Pvt Ltd 's UAS model FLYT-I

Manufacturer's Name	Dronetech Solutions Private Limited
Address	229, Kartik Complex, Andheri West, New Link Rd, Opp Sab TV Mumbai, 400102
UAS Model Name.	FLYT-I
Description	FLYT-I UAS is a quadcopter rotorcraft in small class having no payload.
UAS Details	
Category/Sub-Category	Rotorcraft / RPAS
Class	Small
Maximum all-up-weight (including payload) in kg	2.134 Kg
Overall dimensions (l x b x h) in mm	598 mm X 670mm X 124mm
Payload Details	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Not Available
Variable Load/Consumables (Like fluid etc., if any)	Not Applicable
Power plant Details	
Engine details (Manufacturer details, Model No.)	Not Applicable
Engine/Motor	Motor Model: T-Motor AIR2216 II
Power Rating	272 W
No. of Engines/ Motors	4
Total fuel capacity (kg)/ Battery capacity (mAh)	Battery Capacity : 8000mAh
Propeller details (Diameter, Max RPM)	Diameter-10 inches, Pitch- 4.5 inches, Max RPM-9857
Equipment Details	
GNSS	Available
Autonomous Flight Termination System or Return Home (RH)	Available
Flashing anti-collision strobe lights	Not Available
RFID and GSM SIM Card	Not Available
SSR transponder (Mode 'C' or 'S') or ADS-B OUT equipment(if applicable)	Not Available
Barometric equipment (with capability for remote sub-scale setting) (if applicable)	Not Available
Geo-fencing Capability	Available
Detect and Avoid Capability(if applicable)	Not Available

Technical Specifications of M/s.Dronetech Solutions Pvt Ltd 's UAS model FLYT-I

Remote Pilot Station	
Ground Control Station Model No.	AeroGCS software
GCS App. Version	v2.2
C2 Link	
Equipment details	Ground Tx: Taranis QX7 (Remote Control) Airborne Rx: X8R (Remote Control) Airborne: RFD 868ux (GCS)
Frequency Band	Taranis QX7:- 2.4 -2.4835 GHz X8R:- 2.402-2.480 GHz RFD 868ux:- 865- 868 MHz
ETA issued by WPC Wing, DoT	ETA-SD-20200100748 dated 31 st January, 2020, ETA-SD-20200100780 dated 30 th January, 2020, ETA-005/20202-RLO(WR) dated 13 th August, 2020
Performance Details	
Maximum Endurance (hr/m)	20 mins
Maximum Range (in km)	200 m
Maximum Speed (in m/s)	5 m/s
Maximum Height attainable/ Maximum Ceiling Height (in ft)	164 ft
Operating Altitude (in ft)	164ft
Operational Envelope	Day, VLOS Operations (within the operations/performance limitations specified in the frozen manuals mentioned below)
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	+57°C
Propeller limits	9857 RPM
Documents / Manuals	
Manufacturer's Operating Manual (as applicable)	FLYT-I RPAS FLIGHT MANUAL dated October, 2022
Manufacturer's Maintenance guidelines (as applicable)	FLYT-I MAINTENANCE MANUAL dated October, 2022
Maintenance Inspection Schedule/ Overhaul interval	FLYT-I MAINTENANCE MANUAL dated October, 2022
Maintenance Log Book	FLYT-I RPAS LOGBOOK
Flight Log Book	FLYT-I RPAS LOGBOOK
User Guide/ Self Explanatory Information Booklet for end users	FLYT-I RPAS FLIGHT MANUAL dated October, 2022
Intended Applications	
Intended Applications	Remote Pilot Training.

Limitations & Conditions to M/s Dronetech Solutions Pvt Ltd
for manufacturing of UAS model 'FLYT-I'

1. Manufacturer shall comply the regulations, requirements and mandatory safety features (if any) as and when mandated by Ministry of Civil Aviation/DGCA.
2. Design documents and manuals submitted shall be frozen and controlled. Any changes effecting to the Type Certificate/Datasheet, the manufacturer shall approach through Authorised Testing Entity for up-dation of the Type Certificate/Data Sheet.
3. Manufacturer shall ensure that UAS is not tampered at the time of sale and also at the time of maintenance. Manufacturer shall monitor the same as and when required.
4. Manufacturer shall maintain list of their vendors, bill of materials, inventory of UAS including end user details etc. and access to the same shall be provided to DGCA during surveillance and as & when requested for.
5. Manufacturer shall ensure that operations is restricted to Visual Line of Sight Operations only and within the operations/performance limitations specified in the frozen manuals.
6. Manufacturer shall affix fireproof plate for indicating UIN, Manufacturer's name, model no. and serial no. in all the UAS manufactured.
7. Manufacturer shall intimate DGCA about any violations, defects, faults, malfunctions, incidents and accidents involving the subject UAS model quarterly and as when sought for.
8. Manufacturer shall be responsible for rights related to design and development of the UAS model "FLYT-I" and DGCA shall not be party to any dispute arising due to proprietary right issues.
9. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.
10. In case of violation of any of the above mentioned conditions and/ or operating requirements & restrictions specified in this Type Certificate, penal action shall be initiated in line with the Drone Rules, 2021.