



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

**TYPE CERTIFICATE**  
No.: T0823000000T

This certificate, issued to **M/s MARUT DRONETECH PRIVATE LIMITED** certifies that the Unmanned Aircraft System

**"AG 365S"**

*its technical specifications and operating limitations for which are contained in Datasheet No **T0823000000T** dated **31st August, 2023** is of proper design, material, specification, construction and performance for safe operation based on the recommendation of **UL INDIA PRIVATE LIMITED** 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: 31st August, 2023**

**Director General of Civil Aviation**

**Technical Specifications Of M/S MARUT DRONETECH PRIVATE LIMITED's UAS Model AG  
365S**

Manufacturer Name	MARUT DRONETECH PRIVATE LIMITED
Address	Door no 2-53/23/2/1, T- Hub Foundation, Himalaya Block- D, IIIT, GACHIBOWLI, Ranga Reddy, Telangana, , K.V.Rangareddy , TELANGANA , 500032 , INDIA
UAS Model Name	AG 365S
Description	AG 365S is a Hexacopter battery-operated Rotorcraft Category small class UAS having a sprayer and broadcaster payload with the tank capacity of 10 Litres / 10 kg.
<b>UAS Details</b>	
Category/Sub-Category	rotorcraft (RPAS)
Class	SMALL
Maximum all-up-weight(including payload) in kg	24.9
Overall dimensions (l x b x h) in mm	1932.0 x 1750.0 x 580.0
<b>Payload Details</b>	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Configuration 1: Sprayer with 10Ltrs/kg liquid capacity tank Configuration 2: Spreader payload for granules spreading with 9Kg tank capacity
Variable Load/Consumables (Like fluid etc., if any)	Configuration 1: Sprayer payload :-10Ltrs Liquid for spraying Configuration 2: Granules Broadcasting payload:- 9Kg seed capacity
<b>Power plant Details</b>	
Engine details (Manufacturer details, Model No.)	N/A , N/A
Engine/Motor	BLDC MOTORS
Power Rating	1750 watts
No. of Engines/ Motors	6
Total fuel capacity (kg)/ Battery capacity (mAh)	16000.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 23 inches , Pitch - 8.8 , Max RPM - 6400
<b>Equipment Details</b>	
GNSS	Available

Autonomous Flight Termination System or Return Home (RH)	Available  Available
Flashing anti-collision strobe lights	Available
RFID and GSM SIM Card	RFID- Not Available  GSM SIM Card- Not Available
Flight control Module	Available
SSR transponder (Mode 'C' or 'S') or ADS-B OUT equipment (if applicable)	Not Available  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)	Available
<b>Remote Pilot Station</b>	
Ground Control Station Model No.	AeroGCS KEA
GCS App. Version	V2.2
<b>C2 Link</b>	
Equipment details	T12
Frequency Band	2.42 - 2.48 GHz
ETA issued by WPC Wing, DoT	Details- ETA-SD-20190702917 dated 25th July, 2019
<b>Performance Details</b>	
Maximum Endurance (hr/m)	22 minutes
Maximum Range (in km)	1 Km
Maximum Speed (in m/s)	15.0 m/sec
Maximum Height attainable/ Maximum Ceiling Height (in ft)	328.1 ft
Operating Altitude (in ft)	328.1 ft
Operational Envelope	VLOS   Day
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	55.0 deg C
Propeller limits (Maximum)	6400 RPM
<b>Documents / Manuals</b>	
Manufacturer's Operating Manual (as applicable)	AG 365S Flight Manual Ver. Rev-8 dated 18th August, 2023
Manufacturer's Maintenance guidelines (as applicable)	AG 365S Maintenance Manual Ver. Rev-9 dated 17th August, 2023

Maintenance Inspection Schedule/Overhaul interval	AG 365S Maintenance Manual Ver. Rev-9 dated 17th August, 2023
Maintenance Log Book	AG 365S Log Book Ver. Rev-2 dated 18th August, 2023
Flight Log Book	AG 365S Log Book Ver. Rev-2 dated 18th August, 2023
User Guide/ Self Explanatory Information Booklet for end users	AG 365S Drone User Manual Ver. Version 1.0 dated 18th August, 2023
<b>Intended Applications</b>	
Intended Applications	AG 365S is a multipurpose agriculture UAS mainly used for agrochemical Spraying, Granules Broadcasting and remote pilot training.

**Limitations & Conditions to MARUT DRONETECH PRIVATE LIMITED for manufacturing of UAS Model AG 365S**

1. **M/s. Marut Dronetech Pvt Ltd, Hyderabad**, henceforth referred as manufacturer in this documents shall comply with the applicable Rules, Regulations & Requirements issued from time to time. The manufacturer shall comply with 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 issued there under.
3. Manufacture shall be responsible for all UAS Model “**AG 365S**” produced by them conforms to this type certificate & datasheet and shall issue a certificate of conformity for each UAS produced.
4. Manufacturer shall ensure that their UAS is not tampered at the time of sale and also at the time of maintenance. Manufacturer shall monitor the same and notified to DGCA as and when required.
5. Manufacturer shall maintain list of their vendors, bill of materials, inventory of UAS including buyer details with configurations sold to them etc. and access to the same shall be provided to DGCA during surveillance and as & when requested for. It shall be the responsibility of the manufacturer to ensure that their UAS are sold to bonafide customers.
6. 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.
7. Manufacturer shall affix fireproof plate for indicating UIN, Manufacturer’s name, model no. and serial no. in all the UAS manufactured before it is transferred to the buyer.
8. Manufacturer shall intimate DGCA about any violations, defects, faults, malfunctions, incidents and accidents involving the subject UAS model quarterly and as when sought for.
9. Manufacturer shall be responsible for rights related to design and development of the UAS model “**AG 365S**” and DGCA shall not be party to any dispute arising due to proprietary right issues.
10. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.
11. 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 and other Rules/ Regulations issued from time to time.