



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

**TYPE CERTIFICATE**  
No.: T05250000039

This certificate, issued to ***M/s Spraybot AI Private Limited*** certifies that the Unmanned Aircraft System

**"SB10A"**

*its technical specifications and operating limitations for which are contained in Datasheet No **T05250000039** dated **30th May, 2025** is of proper design, material, specification, construction and performance for safe operation based on the recommendation of **TQ Cert Services 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: 30th May, 2025**

**Director General of Civil Aviation**

**Technical Specifications Of M/S Spraybot AI Private Limited's UAS Model SB10A**

Manufacturer Name	Spraybot AI Private Limited
Address	22-10-13, THATAVARTHI VARI STREET, Bhimavaram, , Bhimavaram (mdl), West Godavari- 534201, Andhra Pradesh , West Godavari , ANDHRA PRADESH , 534201 , INDIA
UAS Model Name	SB10A
Description	SB10A is a medium class rotorcraft (Hexacopter) configuration with maximum allowed capacity of 10 Litres for agrochemical spraying, 05 kg of seeds or granules for spreading and for training purpose.
<b>UAS Details</b>	
Category/Sub-Category	rotorcraft (RPAS)
Class	MEDIUM
Maximum all-up-weight(including payload) in kg	29.41
Overall dimensions (l x b x h) in mm	2040.0 x 1847.0 x 570.0
<b>Payload Details</b>	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Configuration 1: Sprayer with four Flat Nozzles with 10L for Spraying agrochemicals. Configuration 2: Sprayer with two Centrifugal nozzles with 10L for Spraying agrochemicals. Configuration 3: Spreader with 05 kg for dispensing seeds or granules.
Variable Load/Consumables (Like fluid etc., if any)	Configuration 1 & 2: 10Ltrs agrochemicals for spraying. Configuration 3: 05kg seeds or granules for spreading.
<b>Power plant Details</b>	
Engine details (Manufacturer details, Model No.)	NA , NA
Engine/Motor	Hobbywing X6 Plus BLDC Motor
Power Rating	1952 watts
No. of Engines/ Motors	6
Total fuel capacity (kg)/ Battery capacity (mAh)	30000.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 24 inches , Pitch - 8 , Max RPM - 5382
<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- 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.	Agri Assistant
GCS App. Version	V1.5.2.6.6.51
<b>C2 Link</b>	
Equipment details	MK15TX
Frequency Band	5.745-5.825 GHz
ETA issued by WPC Wing, DoT	Details- ETA-SD-20211008108 Dated: 28/11/2021
<b>Performance Details</b>	
Maximum Endurance (hr/m)	22.09 minutes
Maximum Range (in km)	1 Km
Maximum Speed (in m/s)	10.0 m/sec
Maximum Height attainable/ Maximum Ceiling Height (in ft)	196.86 ft
Operating Altitude (in ft)	196.86 ft
Operational Envelope	VLOS   Day and Night
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	50.0 deg C
Propeller limits (Maximum)	5382
<b>Documents / Manuals</b>	
Manufacturer's Operating Manual (as applicable)	Flight Manual Ver. 2.5 dated 29th April, 2025
Manufacturer's Maintenance guidelines (as applicable)	Maintenance Manual Ver. 1.7 dated 29th April, 2025
Maintenance Inspection Schedule/Overhaul interval	Maintenance Manual Ver. 1.7 dated 29th April, 2025
Maintenance Log Book	Maintenance Logbook Ver. 1.3 dated 29th April, 2025

Flight Log Book	Operation Logbook Ver. 1.4 dated 29th April, 2025
User Guide/ Self Explanatory Information Booklet for end users	Flight Manual Ver. 2.5 dated 29th April, 2025
<b>Intended Applications</b>	
Intended Applications	<ol style="list-style-type: none"><li>1. Agrochemical Spraying/Granular Spreader for agricultural purposes</li><li>2. Training purpose.</li></ol>

**Limitations & Conditions to Spraybot AI Private Limited for manufacturing of UAS Model SB10A**

1. M/s. **Spraybot AI Private Limited, Bhimavaram** 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/Data sheet, the manufacturer shall approach through Authorised Testing Entity for up-dation of the Type Certificate/Data Sheet issued there under.
3. Manufacturer shall be responsible for all UAS Model "**SB10A**" produced by them conforms to this type certificate & data sheet 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 & for day & Night operations only and within the operations/ performance limitations specified in the frozen manuals. Manufacturer shall further ensure that night operations is restricted within range of 400m only.**
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. **UAS Model "SB10A" can be used for intended applications only. Manufacturer shall ensure that the drone is flown away (30m) from uninvolved people and not flown over the crowd/ uninvolved people.**
10. **The endurance of UAS model "SB10A" with full (tank) payload (without dispensing) is 22 min 09 seconds and the endurance with empty (tank) payload is 40 min 04 sec. This note is included in the "Limitations & Conditions" section of TCDS due to current limitation in the digital sky platform**
11. The manufacturer shall be responsible for ensuring applicable conditions and educate end users accordingly.
12. Manufacturer shall be responsible for rights related to design and development of the UAS model "**SB10A**" and DGCA shall not be party to any dispute arising due to proprietary right issues.
13. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.

14. 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