



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

TYPE CERTIFICATE
No.: T0923000000V

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

"PAWAN"

*its technical specifications and operating limitations for which are contained in Datasheet No **T0923000000V** dated **29th September, 2023** 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: 29th September, 2023

Director General of Civil Aviation

**Technical Specifications Of M/S Eduquis Technologies Private Limited's UAS Model
PAWAN**

Manufacturer Name	Eduquis Technologies Private Limited
Address	House No. 200, Rajhat Pashchim, Hooghly, West Bengal - 712123 , Hooghly , WEST BENGAL , 712123 , INDIA
UAS Model Name	PAWAN
Description	PAWAN is a Remotely Piloted Aircraft System (RPAS)/Hexacopter of Medium class Rotorcraft UAS with 17 liters payload tank capacity. It is made to be utilized in spraying operations for agricultural applications.
UAS Details	
Category/Sub-Category	rotorcraft (RPAS)
Class	MEDIUM
Maximum all-up-weight(including payload) in kg	38.745
Overall dimensions (l x b x h) in mm	2426.0 x 2426.0 x 619.0
Payload Details	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	Sprayer tank with maximum capacity of 17 litres/ kg for spraying mode only.
Variable Load/Consumables (Like fluid etc., if any)	Agro-Chemical liquids, pesticides, fertilizers & any other non flammable liquids for spraying.
Power plant Details	
Engine details (Manufacturer details, Model No.)	NOT , APPLICABLE
Engine/Motor	BLDC
Power Rating	3000 watts
No. of Engines/ Motors	6
Total fuel capacity (kg)/ Battery capacity (mAh)	22000.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 30 inches , Pitch - 9 , Max RPM - 5020
Equipment Details	
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)	Not Available
Remote Pilot Station	
Ground Control Station Model No.	Agri Assistant
GCS App. Version	1.5.1.9.51
C2 Link	
Equipment details	SKYDROID T 10
Frequency Band	2.42-2.48 GHz
ETA issued by WPC Wing, DoT	Details- ETA-SD-20220201460 DATED 28TH February, 2023
Performance Details	
Maximum Endurance (hr/m)	21 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
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	50.0 deg C
Propeller limits (Maximum)	5020 RPM
Documents / Manuals	
Manufacturer's Operating Manual (as applicable)	Flight Manual Ver. 1.4 dated 15th August, 2023
Manufacturer's Maintenance guidelines (as applicable)	Maintenance Manual Ver. 1.3 dated 15th August, 2023
Maintenance Inspection Schedule/Overhaul interval	UAS LOG BOOK Ver. 1.3 dated 12th April, 2023
Maintenance Log Book	UAS LOG BOOK Ver. 1.3 dated 12th April, 2023
Flight Log Book	UAS LOG BOOK Ver. 1.3 dated 12th April, 2023
User Guide/ Self Explanatory Information Booklet for end users	Flight Manual Ver. 1.4 dated 15th August, 2023

Intended Applications	
Intended Applications	UAS model PAWAN is an agriculture drone mainly used for agrochemical spraying.

Limitations & Conditions to Eduquis Technologies Private Limited for manufacturing of UAS Model PAWAN

1. **M/s Eduquis Technologies Private Limited, Kolkata** 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 updation of the Type Certificate/Data Sheet issued there under.
3. Manufacturer shall be responsible for all UAS Model “ **PAWAN** ” 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 & day 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 “**PAWAN**” 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.