



**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

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|--|--|
| 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. |
| <b>UAS Details</b>   |  |
| 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  |
| <b>Payload Details</b>   |  |
| 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.   |
| <b>Power plant Details</b>   |  |
| 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  |
| <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)   | Not Available   |
| <b>Remote Pilot Station</b>   |   |
| Ground Control Station Model No.  | Agri Assistant  |
| GCS App. Version  | 1.5.1.9.51  |
| <b>C2 Link</b>  |   |
| 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 |
| <b>Performance Details</b>  |   |
| 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  |
| <b>Documents / Manuals</b>  |   |
| 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 up-dation 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.