

GOVERNMENT OF INDIA
DIRECTORATE GENERAL OF CIVIL AVIATION
DRONE DIRECTORATE

TYPE CERTIFICATE

No.: T0324000001J

This certificate, issued to ***M/s AEROSYS AVIATION INDIA PRIVATE LIMITED*** certifies that the Unmanned Aircraft System

"VEDANSH"

its technical specifications and operating limitations for which are contained in Datasheet No ***T0324000001J*** *dated* ***26th March, 2024*** *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: 26th March, 2024 **Director General of Civil Aviation**

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Technical Specifications Of M/S AEROSYS AVIATION INDIA PRIVATE LIMITED's UAS Model VEDANSH

Manufacturer Name	AEROSYS AVIATION INDIA PRIVATE LIMITED
Address	B-103,#1ST FLOOR,SECTOR 6, NOIDA , Gautam Buddha Nagar , UTTAR PRADESH , 201301 , INDIA
UAS Model Name	VEDANSH
Description	"VEDANSH" is a Rotorcraft UAS under small class specially designed for Surveying & Mapping.
UAS Details	
Category/Sub-Category	rotorcraft (RPAS)
Class	SMALL
Maximum all-up-weight(including payload) in kg	2.15
Overall dimensions (l x b x h) in mm	1040.0 x 1040.0 x 295.0
Payload Details	
Details of each Compatible Payload (including Manufacturer Name, Payload Specifications with Model No., Intended Applications)	RGB 24 MP Sony CMOS Sensor Camera
Variable Load/Consumables (Like fluid etc., if any)	None
Power plant Details	
Engine details (Manufacturer details, Model No.)	Not , Applicable
Engine/Motor	BLDC Motor
Power Rating	360 watts
No. of Engines/ Motors	4
Total fuel capacity (kg)/ Battery capacity (mAh)	7000.0 mAh
Propeller details (Diameter, Max RPM)	Diameter - 15 inches , Pitch - 5 , Max RPM - 6005
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

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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.	AERO GCS KEA
GCS App. Version	V2.3
C2 Link	
Equipment details	SKYDROID T12
Frequency Band	2.420-2.480 GHz
ETA issued by WPC Wing, DoT	Details- ETA-SD-20190702917 Dated 25th July 2019
Performance Details	
Maximum Endurance (hr/m)	40 minutes
Maximum Range (in km)	1 Km
Maximum Speed (in m/s)	8.0 m/sec
Maximum Height attainable/ Maximum Ceiling Height (in ft)	400.0 ft
Operating Altitude (in ft)	400.0 ft
Operational Envelope	VLOS | Day
Engine limits (Maximum RPM) / Max. Battery Temperature (in deg C)	55.0 deg C
Propeller limits (Maximum)	6005 RPM
Documents / Manuals	
Manufacturer’s Operating Manual (as applicable)	VEDANSH FLIGHT MANUAL Ver. 2.2 dated 24th December, 2023
Manufacturer’s Maintenance guidelines (as applicable)	MAINTENANCE MANUAL VEDANSH Ver. 2.3 dated 25th January, 2024
Maintenance Inspection Schedule/Overhaul interval	MAINTENANCE MANUAL VEDANSH Ver. 2.3 dated 25th January, 2024
Maintenance Log Book	VEDANSH UAS MAINTENANCE LOG BOOK Ver. 3.0 dated 11th March, 2024
Flight Log Book	VEDANSH UAS OPERATOR LOG BOOK Ver. 3.0 dated 25th January, 2024
User Guide/ Self Explanatory Information Booklet for end users	VEDANSH FLIGHT MANUAL Ver. 2.2 dated 24th December, 2023
Intended Applications	

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Intended Applications	Surveying & Mapping.

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Limitations & Conditions to AEROSYS AVIATION INDIA PRIVATE LIMITED for manufacturing of UAS Model VEDANSH

1. M/ s Aerosys Aviation India Private Limited , Noida 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 **"VEDANSH"** 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 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. **UAS Model "VEDANSH" 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 manufacturer shall be responsible for ensuring applicable condition s and educate end users accordingly.

11. Manufacturer shall be responsible for rights related to design and development of the UAS model **"VEDANSH"** and DGCA shall not be party to any dispute arising due to proprietary right issues.

12. Manufacturer shall abide by the IT Act 2000 and any subsequent revision.

1 3 . 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.

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