



सत्यमेव जयते

GOVERNMENT OF INDIA/भारत सरकार  
DIRECTOR GENERAL OF CIVIL AVIATION/महानिदेशक नागर विमानन का कार्यालय  
OPP. SAFDARJUNG AIRPORT/सफदरजंग एयरपोर्ट के सामने  
NEW DELHI – 110003/नई दिल्ली - ११० ००३

## TYPE CERTIFICATE

No. T11250000033/00

This certificate, issued to **DR MGR ARI NAVAL & AEROSPACE INNOVATION LLP** certifies that the Unmanned Aircraft System

**"NAI AGRO DRONE - MK 1",**

its technical specifications and operating limitations for which are contained in datasheet No, T11250000033/00 dated the 21/11/2025 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 :21/11/2025

For Director General of Civil Aviation  
Maneesh Kumar  
Joint Director General

Signature valid

Signed by: Maneesh Kumar  
Joint Director General  
Date: 21-Nov-2025 13:05:32

**Technical Specifications of DR MGR ARI NAVAL & AEROSPACE INNOVATION  
LLP UAS model "NAI AGRO DRONE - MK 1"**

Manufacturer's Name	DR MGR ARI NAVAL & AEROSPACE INNOVATION LLP
Address	5TH FLOOR DR MGR ARI NAVAL AND AEROSPACE INNOVATION LLP, GOLDEN GEORGE NAGAR,MOGAPPAIR WEST,MADURAVOYAL,CHENNAI-600107., Maduravoyal, CHENNAI, Tamil Nadu, India, 600107.
UAS Model Name.	NAI AGRO DRONE - MK 1
Description	NAI AGRO DRONE - MK 1 is a Medium class rotorcraft (Hexacopter) configuration with maximum allowed capacity of 10 Liters tank for agrochemical spraying and spreading of seeds with a tank capacity of 9 Kg.
<b>UAS Details</b>	
Category	Rotorcraft
Sub-Category	RPAS
Class	Medium
Maximum all-up-weight (including payload) in kg	28.7
Overall dimensions (l x b x h) in mm	2048.0X1787.0X736.0
<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 Fan Nozzles with 10L for Spraying agrochemicals. Configuration 2:- Granular Spreader system with 9kg Capacity
Variable Load/Consumables (Like fluid etc., if any)	Pesticides, Fertilizers, Plant Nutrients (Agro Chemicals) & Granules

<b>Engine/Motor Details</b>							
<b>Engine Power Ratings</b>	<b>No. of Engines</b>	<b>Total fuel capacity (kg)</b>	<b>Engine limits (maximum RPM)</b>	<b>Motor Power Ratings</b>	<b>No. of motors</b>	<b>Battery capacity (mAh)</b>	<b>Maximum battery temperature (Degree Celsius)</b>
-	-	-	-	Hobby wing X6 PLUS and power rating is 1952.37 W	6	21000.0	60.0

**Signature valid**

Signed by: Manojsh Kumar  
Joint Director General  
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**Technical Specifications of DR MGR ARI NAVAL & AEROSPACE INNOVATION  
LLP UAS model "NAIAGRO DRONE - MK 1"**

Propeller details						
Propellar Details	Diameter (inch)	Pitch Range (inch)	Propellar Details (Max RPM)	No. Of Propellers	Type of Pitch	Range (inch)
HOBBYWING X6+	24.0	8.0	5440.0	6	Fixed	-
HOBBYWING X6+	24.0	8.0	5440.0	6	Fixed	-

Equipment Details	
GNSS	Applicable
Autonomous Flight Termination System	Applicable
Return Home (RH)	Applicable
Flashing anti-collision strobe light	NA
RFID Card	NA
GSM SIM Card	NA
Flight Control Module	Applicable
SSR transponder(Mode 'C')	NA
SSR transponder(Mode 'S')	NA
ADS-B OUT equipment	NA
Barometric equipment (with capability for remote sub-scale setting) (if applicable)	NA
Geo-fencing Capability	Applicable
Detect and Avoid Capability(if applicable)	NA
Remote Pilot Station	
Ground Control Station Model No.	DR MGR NAI
GCS App. Version	V 1.5.2.6
C2 Link	
Equipment details	SKYDROID T12
Frequency Band	2401-2479 Mhz
ETA issued by WPC Wing, DoT	ETA-SD-20230807268 Dated: 16/03/2024
Performance Details	
Maximum Endurance (hr/m)	At MToW without dispensing is 10 mins 30 secs and at empty tank is 23 mins 42 secs.
Maximum Range (in km)	0.6
Maximum Speed (in m/s)	10.0
Maximum Height attainable/ Maximum Ceiling Height (in ft)	98.4
Operating Altitude (in ft)	98.4
Operational Envelope	VLOS(Day)
Engine limits (Maximum RPM)	NA
Max. Battery Temperature (in deg C)	60.0
Propeller limits	5440.0, 5440.0

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**Technical Specifications of DR MGR ARI NAVAL & AEROSPACE INNOVATION  
LLP UAS model "NAI AGRO DRONE - MK 1"**

<b>Documents/Manuals</b>	
Manufacturer's Operating Manual (as applicable)	FLIGHT MANUAL NAI AGRO DRONE-MK 1 version 14 Dated 12-10-2025
Manufacturer's Maintenance guidelines (as applicable)	MAINTENANCE MANUAL NAI AGRO DRONE-MK 1 Version 11 Dated 12-10-2025
Maintenance Inspection Schedule/ Overhaul interval	MAINTENANCE MANUAL NAI AGRO DRONE-MK 1 Version 11 Dated 12-10-2025
Maintenance Log Book	UAS MAINTENANCE LOGBOOK Version 8 Dated 29-06-2025
Flight Log Book	UAS FLIGHT LOGBOOK Version 3 Dated 29-06-2025
User Guide/ Self Explanatory Information Booklet for end users	FLIGHT MANUAL NAI AGRO DRONE-MK 1 Version 14 Dated 12-10-2025
<b>Intended Applications</b>	
Intended Applications	Agrochemical Spraying & Spreading of seeds for agricultural purposes and Training

**Signature valid**

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Joint Director General  
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**Limitations & Conditions to DR MGR ARI NAVAL & AEROSPACE INNOVATION  
LLP for manufacturing of UAS model 'NAI AGRO DRONE - MK 1'**

1. **DR MGR ARI NAVAL & AEROSPACE INNOVATION LLP, Chennai** 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 "**NAI AGRO DRONE - MK 1**" 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 day Operations only and within the operations/performance limitations specified in the frozen manuals.
7. Manufacturer shall affix fireproof plate for indicating UIN, Date of Manufacturing, 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 "**NAI AGRO DRONE - MK 1**" 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.

Signature valid

Signed by Manoj Kumar  
Joint Director General  
Date: 21 Nov 2025 10:05:32

10. The manufacturer shall be responsible for ensuring applicable conditions and educate end users accordingly.
11. Manufacturer shall be responsible for rights related to design and development of the UAS model "**NAI AGRO DRONE - MK 1**" 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.
13. 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.

**Signature valid**

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Joint Director General  
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