



**CSIR-National Aerospace Laboratories** >>>

Bengaluru-560017



## <<< **NAL OCTA-COPTER DRONE**

*Multi Purpose UAV*

- Lightweight composite airframe
- Fully autonomous BVLOS operations from take-off to landing
- Folds to 1/3<sup>rd</sup> of its size for easy transportation
- Safe flight operations up to two motors failure
- Robust & reliable design with in-built system redundancies
- Digital sky compliant
- User friendly Ground Control Station for easy mission planning
- Interchangeable payload capability for wide variety of applications

# NAL OCTA-MED

*Drone based Vaccine / Emergency medicine deliveries*



## Technical Specifications

- Max. Payload : 10 kg
- Max. Flying Speed : 36 Kmph
- Max. Range : 20 km\*
- Max. Operational Altitude : < 500 m AGL
- Max. Launch Altitude : 3 Km MSL
- Wind Resistance : up to 10m/sec
- Landing / Take off : Non line of sight landing / take off at payload delivery point
- Regulatory Compliance : DGCA-NPNT, Digital Sky, Geo Fencing, 360° Collision Avoidance
- Certification : Flight permit authorized by MoCA under rule 48

\* Range can be extended based on mission needs

# NAL OCTA-AGRI >>>

*Spraying pesticides / Hyper Spectral imaging using Drones*



## Technical Specifications

- Max. Payload : 20 kg
- Flying time : 20 min
- Max. Operational Altitude : < 500 m AGL
- Max. Launch Altitude : 3 Km MSL
- Wind Resistance : up to 10m/sec
- Terrain : Lidar based terrain following during the mission
- Regulatory Compliance : DGCA-NPNT, Digital Sky, Geo Fencing, 360° Collision Avoidance
- Certification : Flight permit authorized by MoCA under rule 48
- Sprayer :
  - a. Volume - 18 L
  - b. Electrostatic Nozzles - 3 nos.
  - c. Max Flow Rate - 1.5 lt/min

# NAL OCTA-GEO >>>

*Drone based Geo-Physical Exploration studies*



## Technical Specifications

- Max. Payload : 5 kg
- Flying Time : 35 min
- Max. Flying Speed : 36 Kmph
- Max. Range : 25 km
- Max. Operational Altitude: < 500 m AGL
- Max. Launch Altitude : 3 Km MSL
- Wind Resistance : up to 10m/sec
- Terrain : Lidar based terrain following during the mission
- Regulatory Compliance : DGCA-NPNT, Digital Sky, Geo fencing, 360° Collision Avoidance
- Certification : Flight permit authorized by MoCA under rule 48