



DRONE AS A SERVICE

A joint venture of Aiclouds & Rodella Technologies

DRONE AS A SERVICE

Drones have been used by the military for many years now. They are an excellent tool for ensuring security and protection. We provide services that shall enable you to use the same advanced tool for security as your personal watchdog. With the help of our Drones, we will be able to provide you with:

- Long hours of independent surveillance.
- Superior night surveillance through night vision.
- Remote management of the Drone
- Superior security
- Light flashing and quick alarm sounding
- Scheduled patrols
- Automatic AI intruder detection.
- Wider range of surveillance
- Quiet automated patrols.



DRONE WATCHMAN PROGRAM

Upon purchase, Drone Watchman will take care of all your security issues. Our drones are trained to automatically detect intruders and take immediate action against that. With fast detection and quick sounding alarms, our Drone Watchman program covers all the aspects of your security requirements. Our drones can also perform automated patrols so that you don't have to worry about the patrolling schedules. We can also customize our service depending on your safety requirements. This is a single payment service package. By purchasing our services once, you can enjoy the benefits of the same for lifetime. This package purchase will also entail the purchase of our maintenance and support service to help you overcome the technical difficulties, in case you face any.

Highlights:

- All-inclusive security package
- One-time payment
- Superior surveillance
- Automated patrols
- Quick response from the drones

MP/MLA DRONE SECURITY PROGRAM

Our MP/MLA Drone Security program is designed specifically to ensure the safety of MPs and MLAs and assist in their safe transit and protection. These drones use cutting-edge AI technology to detect suspicious activities and intruders in a large range of distance. Once they detect any type of suspicious activity, they, instantly alert the operator about it so that a quick action can be taken. They are trained to be remote eyes of the police personnel and assist them in their security plan. Our drones can be automated to perform quick patrols over large areas and can help the police department to keep an eye on a wide range of land. They are quiet and fast and can be used to surveil the area and ensure that the premises are secure.

The purchase of this service package will also entail the purchase of our maintenance and support service to help you overcome any challenges in case you face any.

Highlights:

- Quick alerts to the operator if any suspicious activity is detected
- Complete assistance to the police personnel
- Wider-range surveillance
- Quiet and fast patrolling
- Automated surveillance
- Remote monitoring of the drone
- Maintenance and support services



HUMANITARIAN DRONES

Humanitarian drones can play a valuable role, helping your staff to work more efficiently and take better, more informed decisions. Thanks to their high-resolution, cost-effective insights, humanitarian drones are today being employed across a range of sectors. Automated mapping drones (or UAV/UAS) provide accurate, up-to-date geographic data, on demand. Whatever your organization's specific field of activity—whether aid, development, disaster preparedness.

The burgeoning market for Unmanned Aerial Vehicle (UAV) Services built around flying robots that can be flown independently using software-controlled flight plans in their embedded systems.

Drones as a Service help industries, such as agriculture, asset management, disaster management, logistics, healthcare, education, entertainment, and ecosystem & climate.

Our Drone service team is highly trained and has complete knowledge of the equipment. Our service policies are quite transparent so you don't need to worry about being over charged for the same.

AGRICULTURE

- Crop health & stress analysis
- Irrigation monitoring and planning
- Crop damage assessment
- Crop count & plant emergence analysis
- Field soil analysis
- Pesticide spraying

ASSET MANAGEMENT

- Drones minimize the obvious dangers and health risks
- Collection of in-depth and higher detail data
- Quick deployment or launch
- Flexibility to suit a majority of inspections
- Easily shareable data
- Use Drones for marketing and advertising
- Downtime for equipment and systems is from little to zero
- Ability to look out difficult to reach and perilous areas
- Low insurance costs
- Save time and money
- Waste Segregation / Waste Management / Landfill Management

DISASTER MANAGEMENT

- Reconnaissance and Mapping;
- Structural Assessment;
- Temporary Infrastructure / Supply Delivery;
- Wildfire Detection and Extinguishing;
- High-Rise Building Fire Response;
- Radiological, Chemical, Biological, Nuclear or Explosive (CBRNE) Event;
- Search and Rescue Operations;
- Insurance Claims Response and Risk Assessment.

LOGISTICS

- Savings in distribution costs.
- Faster deliveries.
- Possibility of reaching areas those are problematic to access.
- They reduce urban traffic and CO2 emissions.
- Helps to control inventories and movements within the warehouse itself.
- No shifts are required: drones can operate 365*24*7.

HEALTH CARE

- Blood product and hazardous material transportation
- Vaccine and medicine delivery
- Diagnostics
- Organ transfers
- Transport of small medical devices

EDUCATION

- Using Drones to Develop Creativity
- Learning and Applying Math With the Help of Drones
- Development of Motor Skills
- Use of Drones in Physical Education
- Teaching Science With The Help of Drones

ENTERTAINMENT

- Programmed to film high-speed chases
- Following the subjects through busy streets
- Mountainous highways
- Creating scenes that until now could only be imagined

ECOSYSTEM & CLIMATE

- Life saving
- Wildlife monitoring
- Forest fire monitoring
- Tree disease detection and prevention
- Reduce greenhouse gas emissions.
- Monitoring protected oceans
- Aerial mapping & nature monitoring

SDG-DRONE FORCE



We make communities , societies , villages , towns ,cities to become self sustainable innovators , with Sustainable development goals.

THE SEARIAL CLEANERS

Where land and water interact - we act to clean any thing from Solidwaste to Plastic bottles, cigarette filters, packages etc who are Enemies of Eco system

THE SEARIAL CLEANERS

OUR SUPER POWERS



PixieDrone

Marine waste collection drone ,powerful and autonomous (MARINAS & PORTS, COASTLINE & INLAND, WATERWAYS, MUNICIPALITIES,NATURAL RESERVES,HOSPITALITY)

BeBot

The first ever versatile, eco friendly and silent beach robot!
(HOTELS, BEACHES, MUNICIPALITIES, NATURAL RESERVES,
SPORTS FIELDS, GOLF COURSES)



The most efficient waste skimmer large storage, practical and easy to operate! the future thrash collector.
(MARINAS, MUNICIPALITIES, NATURAL RESERVES, PONTOONS,
DOCKS, HOTELS)

CollecThor

InvisiBubble

Purifying | Preventative | Relentless
InvisiBubble is a majestic Bubble barrier. It can purify water, deflect debris, quarantine hydrocarbures and preserve fauna.



X-Boat

The extraordinary waste collecting boat, In different situations.


SECTORS WE SERVE

- Civil Sector
- Defense Sector
- Enterprises
- Eco System & Climate Sector
- Government Sector

SERVICES WE PROVIDE

- Consultancy
- Research & Development (R&D)
- Customization of Drones
- Startup Creation & Mentoring
- Training & Skill Development

 ksraju@dronewatchman.com
 mohan@dronewatchman.com
 connect@dronewatchman.com

 +91-9654-006-789
 +91-8008-001-898
 +91-8977-933-321



<https://dronewatchman.com>
<https://bharatidrones.com>

NAL - Multi-Copter Drones
Bonv – logistics 50kgs Evtols
AICLOUDS –QUADRIROBOT- AV/Ev's

“DroneBNB™®”
“ Drones are my pets™® “
“ AICLOUDS DRONE AS SERVICE “
“AV/EV as Services/solutions”

(i) CSIR-NAL- AICLOUDS AERO- Quad-4

- Dimensions
 - Transportable - Ø338 mm x 433 mm
 - Ready to Fly - Ø708 mm x 400 mm
- Weight
 - Empty Weight - 1.6 kg-f
 - Battery Weight - 1.3 kg-f
 - Payload Capacity - 1.0 kg-f
 - Max. Take-off Weight - 4 kg-f
- Hovering Endurance
 - No Payload - 60 min
 - 0.7 kg-f Payload - 40 min
 - 1 kg-f Payload - 30 min
- Operation - Fully Autonomous
- Flying Speed
 - Operational Speed - up to 10m/s
 - Max. Speed - 10 m/s
- Max. Range of Operation - 10 km
- Max. Rate of Climb - 3 m/s
- Max. Rate of Decent - 2 m/s
- Altitude
 - Operational Altitude - up to 500 m AGL
 - Max. Launch Altitude - 3000 m AMSL
- Operating Temperature - 0 - 55 °C
- Structure - Carbon Fiber Frame
- Propulsion - 380 W Motor + 16' Foldable Propeller
- Battery - Lithium Polymer – 11Ah 22.2V
- Payload
 - EO and/or IR Camera
 - Multispectral Camera



(ii) CSIR-NAL- AICLOUDS AERO Hex-15

- Dimensions
 - Transportable - 1000 mm x 930 mm x 440 mm
 - Ready to Fly - Ø1465 mm x 500 mm
- Weight
 - Empty Weight - 6 kg-f
 - Battery Weight - 4 kg-f
 - Payload Capacity - 5 kg-f
 - Max. Take-off Weight - 15 kg-f
- Hovering Endurance
 - No Payload - 40 min
 - 5 kg-f Payload - 25 min
- Operation - Fully Autonomous
- Flying Speed
 - Operational Speed - up to 10 m/s
 - Max. Speed - 10 m/s
- Max. Range of Operation - 10 km
- Max. Rate of Climb - 3 m/s
- Max. Rate of Decent - 2 m/s
- Altitude
 - Operational Altitude - up to 500 m AGL
 - Max. Launch Altitude - 2000 m AMSL
- Operating Temperature - 0 – 55 °C
- Structure - Carbon Fiber Frame
- Propulsion - 750 W Motor + 24' Foldable Propeller
- Battery - Lithium Polymer – 16Ah 48V
- Payload - up to 5kg
- Underslung Magnetometer



(iii) CSIR-NAL – AICLOUDS AERO Dual Hexa

- Dimensions
 - Transportable - 970 mm x 770 mm x 1160 mm
 - Ready to Fly - Ø2500 mm x 650 mm
- Weight
 - Empty Weight - 14 kg-f
 - Battery Weight - 16 kg-f
 - Payload Capacity - 5 kg-f
 - Max. Take-off Weight - 35 kg-f
- Hovering Endurance
 - No Payload - over 60 min
 - 5 kg-f Payload - 40 min
- Operation - Fully Autonomous
- Flying Speed
 - Operational Speed - up to 15 m/s
 - Max. Speed - 15 m/s
- Max. Range of Operation - 10 km
- Max. Rate of Climb - 3 m/s
- Max. Rate of Decent - 2 m/s
- Altitude
 - Operational Altitude - up to 500 m AGL
 - Max. Launch Altitude - 3000 m AMSL
- Operating Temperature - 0 to 55 °C
- Structure - Carbon Fiber Frame
- Propulsion - 1.5 kW Motor + 28" Foldable Propeller
- Battery - Lithium Polymer – 60Ah 48V
- Payload - Up to 5 kg
- Under slung Magnetometer



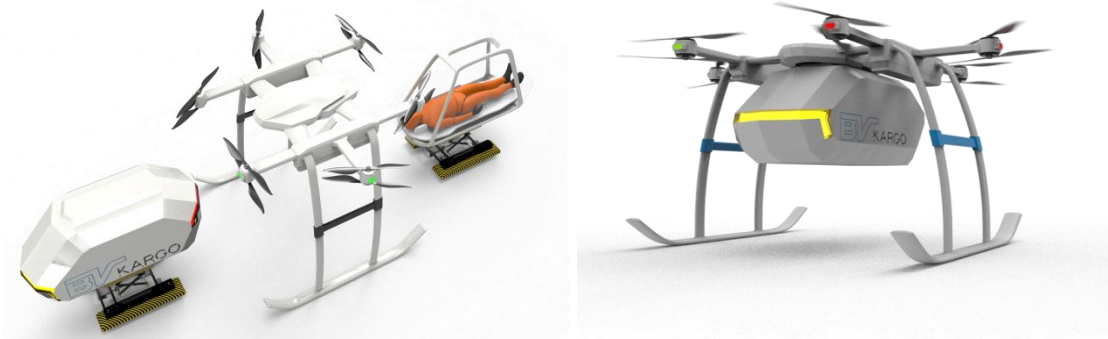
(iv) CSIR-NAL- AICLOUDS AERO Oct-60

- Dimensions
 - Transportable - 1250 mm x 950 mm x 1475 mm
 - Ready to Fly - Ø2267 mm x 730 mm
- Weight
 - Empty Weight - 20 kg-f
 - Battery Weight - 16 kg-f
 - Payload Capacity - 20 kg-f
 - Max. Take-off Weight - 56 kg-f
- Hovering Endurance
 - No Payload - 38 min
 - 5 kg-f Payload - 33 min
 - 10 kg-f Payload - 28 min
 - 20 kg-f Payload - 20 min
- Operation - Fully Autonomous
- Flying Speed
 - Operational Speed - up to 14 m/s
 - Max. Speed - 15 m/s
- Max. Range of Operation - 20 km
- Max. Rate of Climb - 3 m/s
- Max. Rate of Decent - 2 m/s
- Altitude
 - Operational Altitude - up to 500 m AGL
 - Max. Launch Altitude - 3000 m AMSL
- Operating Temperature - 0 to 55 °C
- Structure - Carbon Fiber Frame
- Propulsion - 3.6 kW Motor + 30' Foldable Propeller
- Battery - Lithium Polymer – 60Ah 48V
- Payload
 - Medical Box or Vaccine Box
 - Hyperspectral Camera
 - EO and/or IR Camera
 - Fertilizer Tank Volume - 18 L, No. of Nozzles – 3, Max Flow Rate- 1.5 lt/min



Drone as service – logistics – humanitarian Evtols

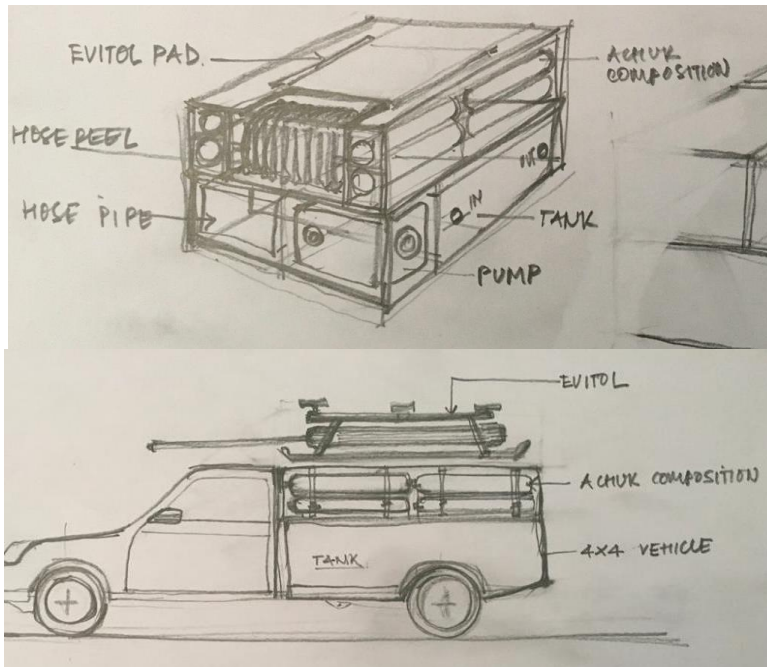
- **Configuration: Multi rotor E-VTOL**
- **MTOW (maximum takeoff weight): 250kg (50 kgs Tested)**
- **Range plus Reserve: 50 Mins**
- **Typical Mission Range: 20km**
- **Service ceiling: 350 meters AGL**
- **Absolute Ceiling: 5500 meters AMSL**
- **Audibility: maximum 62 db. at 150 meters**
- **Cheapest Green / Eco logistics platform in world .**
- **Current Prototype Design of “Pelican” built on RM001 platform with capability to lift 50 KG Cargo over 20 KM focused for Himalayan Region Cargo Transportation.**



50kgs to 350 kgs payloads Depending upon needs



Highest Safety & Redundancy
Sufficient Range & Payload
World's Smallest Avionics Footprint
Best Operational Efficiency Fuel Cell Powered
Fire Fighting – Evtol-pods



Aiclouds –Quadribot



One R box multiple solutions



Ground Autonomous Mobile robots



CARGOBOX

Associated with SCARGO, CargoBox makes unmanned last-mile delivery possible. This smart container could be loaded or unloaded without any human intervention.

 Modular to facilitate different cargo type
Code protected
Automatic Loading /Unloading from / to various platforms

 Online ordering & scheduling
Easy tracking
Enhanced efficiency



SCARGO

An autonomous versatile smart mobile platform

 Battery 48V	 Euro-box compatible	 Max Speed 16 kph	 Max Load 220 kg	 Slope 10%
 Motor 1.5 kW	 Capacity 2 kWh	 Temp -20+50°C	 Protection IP 54/55	 Wheel Size 26cm



QUADRIBOT

10kgs to 1000 kgs platforms

Sectors -Logistics, Ware houses, Airports ,Post offices, Malls, Remote areas, cargos etc

Full solutions



VEHICLE CONTROL UNITS
Integrated High Performance computer & system for Smart & Autonomous Mobility



POWER SYSTEMS
POWER OPTIMISATION



EMBEDDED SOFTWARE



CONNECTED SENSORS



SMART ACTUATORS



Our experience in smart mobility

RBox / 2021



Embedded software



Transport Solutions



Robotic applications



Electronics

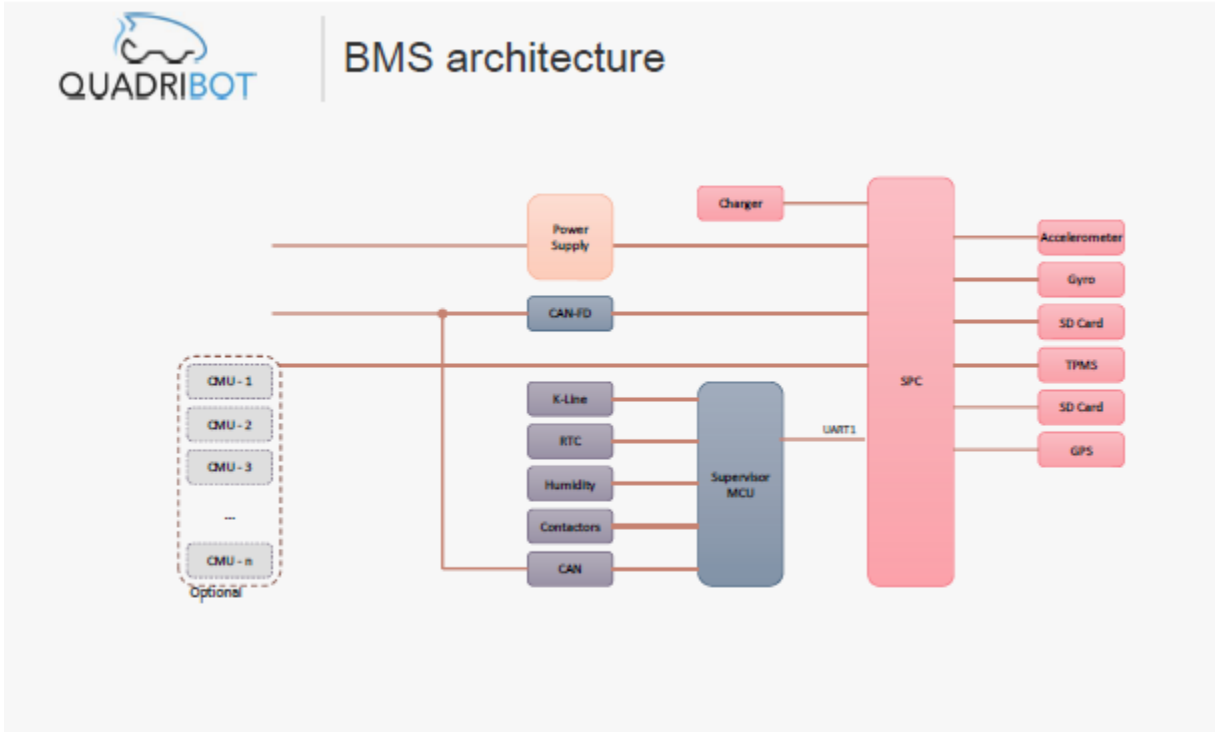


System architecture



Autonomous vehicles

Battery management systems for Drones, Evtols , Ev / Av's etc



**For Business partner ships / OEM / Sales/
customized solutions -connect us at**

ksraju@dronewatchman.com
mohan@dronewatchman.com
partners@dronewatchman.com

TRAINING

training@bharatidrones.com
ksraju@bharatidrones.com
mohan@bharatidrones.com

+91-9654006789 +91-8977-933-321