



# Flying For National Cause



**ELCOMPONICS AEROB**  
**TECHNOLOGIES INDIA PVT LTD**



[www.elcomponics-aerob.in](http://www.elcomponics-aerob.in)



**S.N. Dwivedi**  
(Managing Director)  
Elcomponics Group

“ Mr. S.N. Dwivedi, an entrepreneur and a technophile has an immense interest in developing the indigenous Drones and Defence Technology under 'Make in India' program. He believes in nation building through the technology development. He is highly passionate about developing the cutting edge defence technology in India and abroad and export to friendly nation.

To envisage his dream, he has started Elcomponics Aerob Technologies India Pvt Ltd in the year 2016 at Noida, Uttar Pradesh, India and since then he is passionately driving and motivating the UAV innovation for the Defence Application and the Agricultural application.”

Elcomponics Aerob Technologies India Pvt Ltd. is a DIPP Registered Start-up, and Registered with MSME with effect from 2016 as part of Elcomponics Group. Elcomponics Aerob is one of the few companies to have an authorized RPA Manufacturing Arms License issued by DIPP. Company's vision is to develop some of the cutting edge technology in the defense and unmanned sector that would strengthen the national security.

Since 2016 company is indigenously undertaking Research and Development activities in the defence sector under the visionary leadership of Shri S.N. Dwivedi. By 2019 company set-up the state-of-art UAV manufacturing infrastructure over 1,00,000 sq.ft area and actively engaged in Make-II projects under Govt. of India and later we also secured Design-cum-Production Partnership (DcPP) projects under Govt. of India in 2022.

Elcomponics Aerob is one of the leading startup in India for developing Professional Grade high and medium altitude Loitering Ammunition System, High Speed Target Practice Drone, High and Medium altitude Surveillance Drones, Kamikaze Drones and Agriculture Drones. All our products are indigenously designed and manufactured in India. We aim to provide new age technology to strengthen our Land and sea borders by developing Drones for DRDO, Border Security Force, Indian Army, Indian Navy and Coast Guard. We also aim to aid our internal security by developing micro category drones for Police forces and Paramilitary groups.

From time-to-time we collaborate with best companies of the world to modernize not only the technology, but also the human resource of the company. We continuously strive to provide best training and upgrade our existing workforce in collaboration. Some of the best examples are our collaboration with Auterion, Switzerland, Space Composite Structures, Denmark, Matternet etc.

Recently, we successfully demonstrated the high speed Target Practice Drone for Day and night operation over Bay of Bengal with maximum speed going above 200 kmph to the Indian Army.

In future we aim to be one of the leading companies in the world for Defence Research and manufacturing.

## Infrastructure

Over 100,000 square feet of R&D and Manufacturing Facility

## Manufacturing Facility

State-of-art Manufacturing facility with modern technologies.



## Tooling Facility

In-house tool room facility adorned with all Modern Tools & Machines.

## Avionics Facility

Avionics Bay houses one of the most advanced Electronics for Drones.

# TAVAS HS : Fixed Wing VTOL

## Product Validation

- **Successful Flight Evaluation Trial at Gopalpur in both Day and Night condition over Bay of Bengal.**
- **Product successfully completed all the Composite Technical evaluation by Army Air Defence Field Evaluation trial team, Maintainability Evaluation Trial Team and DGQA**
- **Successful High Altitude flight trial at Ladakh.**
  - **Take-off altitude – 4200m AMSL**
  - **Operating Altitude – 200m AGL**

## Key Specification

- ✓ **VTOL Capability & Launch – fixed wing**
- ✓ **Cruising Speed (with payload): 25-30 m/s**
- ✓ **Max Speed : 55m/s**
- ✓ **Endurance: 60-90 Minutes**
- ✓ **Range: 20Km one way**
- ✓ **Max Take Off Weight (MTOW): 14 Kg**
- ✓ **Flight Attitude: Max 500m AGL**

## Applications

- **High and Medium Altitude Surveillance**
- **Kamikaze type operation**
- **Inspection and Surveying for Civil Application**
- **Post Calamity Inspection in Hilly Terrain**
- **Deep Sea operations aided by Ships**
- **Target Practice for Defence forces**



# TAVAS 5K : Loitering Ammunition System

## Product Validation

- Initial level VTOL flight tested at TBRL Range, Ramgarh
- In-house flight testing completed

## Product USP

- Motor mounts made of T6 Al Alloys
- Indigenously designed Drop mechanism

## Key Specification

- ✓ VTOL Capability & Launch
- ✓ Cruising Speed (with payload) : 25-35m/s
- ✓ Max Speed : 50m/s
- ✓ Endurance : 90Min
- ✓ Range : 20km one way
- ✓ Payload : 5kg
- ✓ Max operating Altitude : 5000m AMSL

## Applications

- High and Medium Altitude Surveillance
- Border Patrol
- Kamikaze type operation
- Ammunition or Payload drop to neutralize terror camps.
- Logistic support to High altitude troops
- Inspection and Surveying for Civil Application
- Post Calamity Inspection in Hilly Terrain
- Deep Sea operations aided by Ships



# TAVAS QUAD

Product Description : Light weight Micro & Small category Quadcopter

## Characteristics of the FPV Drone

- Maximum payload capacity-
- 7" Inches – 1 kg
- 8" Inches – 1.5 kg
- 10" Inches – 2 kg
- Frame up-to 10 inches
- 5.8 GHz 5 bands, 40 channels
- 8000mAh LiPo battery

## Applications

- Surveillance
- Carry Explosives (Kamikaze)

## Product Types

- 7" propeller (TAVAS QUAD7)
- 8" propeller (TAVAS QUAD8)
- 10" propeller (TAVAS QUAD10)

SL.NO.	PRODUCT	PAYLOAD	RANGE	ENDURE
1.	TAVAS QUAD 7	1.0 KG	8 KM	11 MIN.
2.	TAVAS QUAD 8	1.5 KG	10 KM	8 MIN.
3.	TAVAS QUAD 10	2.0 KG	10 KM	7 MIN.

\* Range and Endurance claimed is valid for Sea Level Operation and at mild wind condition of around 5-10 m/s

# ELA-Agri

## Technical Specifications Details



### UAV Performance Parameters

SL.NO.	PARAMETER	DESCRIPTION
1.	Weight (Without Battery)	9 kg
2.	Standard Takeoff Weight	23 kg
3.	Maximum Takeoff Weight	24 kg
4.	Max. Thrust to weight ratio (Flying Weight 23 kg)	2.25
5.	Hovering Time	Empty Flight >25 min
6.	Working Time	6 - 12 min / flight
7.	Maximum Flying Speed	15 m/s
8.	Maximum Climbing Speed	5 m/s
9.	Maximum Landing Speed	3 m/s
10.	Maximum Wind Resistance Speed	10 m/s
11.	Maximum Flying Altitude	3500 m
12.	Recommended Working Temp.	10 - 35 degree Celsius

### UAV Spraying System Performance Parameters

SL.NO.	PARAMETER	DESCRIPTION
1.	Spraying Height	2-4 m
2.	Optimum spraying Speed	4-6 m/s
3.	Maximum Spraying Speed	10 m/s
4.	Container Volume	10 Kg
5.	Work Efficiency	1.8-2.5 Acres / 10 min



## **ELCOMPONICS AEROB**

**START UP NO:** DIPP32209

**CIN NO:** U29309UP2016PTC086296

### **Corporate Office :**

C-24, Phase - II, Noida - 201305, (UP), INDIA

**Phone No.:** +91-120 - 4743 300, +91 - 837 700 0684

**Fax :** +91 - 120 - 4743 399

### **Work :**

C-61, Phase - II, Noida - 201305, (UP), INDIA

**Phone No.:** +91 - 98110 36426 | 8447847055

**Tel.:** +91 120 474 3300 | **Fax:** + 91 120 474 3399

**Email :** [sndwivedi@elcomponics.com](mailto:sndwivedi@elcomponics.com)

[am.rd@elcomponics-aerob.in](mailto:am.rd@elcomponics-aerob.in)

