

ATD'S

DRONE SOLUTIONS



ARYAVART TECHNOLOGIES
DEVELOPMENT PVT LTD



PURPOSE

- This presentation aims to showcase atd's (aryavart technologies development) potential and the promising market opportunities that lie ahead. Our goal is to not only demonstrate our capabilities but also attract potential investors who can help us grow and expand our business.

ABOUT ATD

- ATD Pvt Ltd is a registered company that was established in January 2023. The company prides itself on having a team of expert designers with vast engineering and aviation experience in both the civil and defense sectors.
- ATD expertise in both Drone system design and the fine understanding of end-user needs, gives us a unique perspective that can be leveraged to create the ideal solutions that work well for all stakeholders.
- Despite being a recent establishment, Aryavart Technologies Development takes pride in the fact that our team has been at the forefront working on cutting-edge Industrial and Aviation projects for the past 20 years. We bring with us a legacy of technical and domain excellence, along with a wealth of knowledge that sets us apart from the rest.

CAPABILITIES

- ▶ We have extensive expertise in various aspects of Drone system design, including propulsion system, aerodynamics, structural analysis, telematics, ground control station, weapon system etc. This gives us a distinct advantage, allowing us to provide integrated solutions that can be tailored to customer specific requirements.
- ▶ **Some of our ready to deploy solutions are per below:**
 - ALL ELECTRIC VTOL
 - HYBRID VTOL
 - MULTI ROTOR DRONE
 - KAMIKAZE DRONE (ELECTRIC/ IC ENGINE/ JET ENGINE)
 - TARGET DRONE (IC ENGINE/ JET ENGINE)
- ▶ We have ability to optimize drone designs for specific use cases and environments, taking into account factors such as payload capacity, flight time and stability
- ▶ The Kamikaze and the target drones are the latest addition to our inventory. These are undergoing through further flying trials to refine their performance, safety, and overall effectiveness
- ▶ Our ultimate goal is to offer a solution that is Effective and Efficient
- ▶ ATD has an engineering setup and logistics support network in place to facilitate the mass manufacturing, supply, and after-sales support of its products. A robust engineering setup is crucial for designing and developing high-quality products that meet customer needs and expectations.

- As an organization, we are focused on developing drone platforms. By leveraging our base drone platform, we can efficiently develop and deliver innovative solutions for a diverse environments and sectors, enabling us to capture market share and grow our business in defense and commercial sector at an accelerated pace.

WHY ATD

- **Time to Market and Cost to Market**

Because of our unique and Indigenous capabilities, we are able to optimize our Time to Market and Cost to Market. we are well positioned to maintain our competitive edge and continue to grow and succeed in the years ahead.

- **Unmatching domain expertise in Unmanned systems**

- **Our exposure to the drone technologies, domain experts, and drone component suppliers is unparalleled in both the domestic and international markets.**

TARGET MARKET

- **Enormous push and support from the Government of India**

As the Indian government continues to emphasize self-reliance in defense production, the demand for domestic manufacturing is expected to rise, and the Indian defense industry is likely to witness a significant shift towards indigenization. This shift will further fuel the growth of the Indian defense industry, creating new opportunities for Indian companies to participate in this dynamic market. According to some estimates, the Indian defense market could grow up to 10 times its current size.

| GOVERNMENT | NON-GOVERNMENT |
|---|--|
| Indian Military, Navy, Airforce. | Major mining industries |
| BSF, ITBP, CISF. | Iron ore and Steel plants |
| State Police and other Paramilitary forces like RAF | Oil and gas field operators |
| NDRF (National Disaster Relief Forces) | Refineries |
| Indian Railways, RPF | Shipping & Transportation, Drone delivery for E-Commerce industry |
| Larger Government PSU's like BHEL, DRDO, ISRO, ONGC, Major Refineries Etc. | |
| Forest department. | |

APPLICATION

➤ Government

- Defense Surveillance/Immediate Battlefield Intelligence, Surveillance And Reconnaissance Missions
- Defense Combat Support & Supplies, Combat Terrorism
- Border Patrolling And Protection
- Coast Guard Surveillance Specifically In Coast Guard And Navy Ships/Systems

➤ Non-Government

- Disaster management, supplies delivery, sending quick relief
- Medical emergency management
- Shipping and delivery system

PRESENT CAPABILITIES

- All electric VTOL drone with onboard gimbal camera and endurance of 2 hrs and ceiling altitude of 6000 feet AMS.
- Easy to transport, assemble and deploy for any surveillance mission.
- 4G enabled for BVLOS operations up to radius of action with live video coverage up to 20 km range.

FUTURE CAPABILITIES

- Integrate our platforms with MN-MIMO (mobile networked-multiple input multiple output) radio technology as they provide reliable, high bandwidth, Meshed video and data communications in the most challenging conditions. Multiple antennas at the transmitter & receiver introduces signalling degrees of freedom that were absent in SISO systems.
- The platforms can be integrated with weapon system to undertake any pre-emptive actions in case of any emergency situation observed during surveillance (Defence sector)
- Surveillance video will be available to multiple levels by using internet / defence secured network as backbone
- In-house GCS is under development, with own GCS entire drone solution will be available under one roof

SARAS



SUMO - I



HAWK - I



HAWK - II



VASP







SUMO - II



KEY TAKE AWAYS

- After ATD enters the UAV product industry, it has the potential to create an entire ecosystem that can be used to develop a variety of unmanned systems. This could include drones for package delivery, unmanned ground vehicles for industrial applications, and even autonomous underwater vehicles for marine exploration.
- This sector is experiencing rapid growth and dynamic changes, presenting significant opportunities for businesses that enter the market early and continuously innovate.
- Over the past few years, we have had the opportunity to engage with professional drone manufacturers and technical leaders in the field, in order to gain a better understanding of what it takes to achieve success in this domain.
- After conducting extensive research and investing significant effort since 2014-15, ATD now possesses the expertise to design and develop a range of highly competitive products in the UAV product line



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