

JALDOST Airboat

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About JALDOST

- It is an airboat that **operates on water**.
- It is designed to **remove excess aquatic weed** and floating waste from water bodies.
- It has a closed airtight **pontoon type hull to make it inherently unsinkable**.
- According to NAL, it has a hybrid propulsion system, comprising air propulsion and paddle wheel propulsion.
- **How it works?**
 - The ability to travel through weed makes JALDOST an ideal platform to collect them and bring them to the shore.
 - A steel **mesh belt conveyor system fixed** in the front collects the waste. The collected waste falls on the horizontal deck conveyor.
 - After reaching the shore, the collected waste is unloaded by a rear conveyor system to trucks or tractors.
- NAL has developed two versions of the airboat — JALDOST Mark-1 and an upgraded version JALDOST Mark-2.

Key facts about National Aerospace Laboratories (NAL)

- It is a **constituent of the Council of Scientific and Industrial Research (CSIR)**, India, established in the year 1959.
- It is the only government aerospace R&D laboratory in the country's civilian sector.
- CSIR-NAL is a **high-technology-oriented institution** focusing on advanced disciplines in aerospace.
- It has several advanced test facilities, and many of them are recognized as National Facilities.
- It has provided significant value-added inputs to all **the Indian national aerospace programmes**.
- It has also developed many critical technologies for the strategic sector and continues to support the mission-mode programmes of the country.
- **Mandate:** To develop **aerospace technologies with strong science content**, design and build small, medium-sized civil aircraft, and support all national aerospace programmes.

Q1) What are Hydrophytes?

Hydrophytes are plants that are specially adapted to grow and thrive in water environments. The term "hydrophyte" comes from the Greek words "hydro," meaning water, and "phyton," meaning plant. These plants have evolved unique characteristics to survive and flourish in various aquatic habitats, such as freshwater and marine environments.

Source: [NAL unveils JALDOST airboat and electric UAV Q-Plane](#)

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