
Project Water-Horse™

“Different approach is the foundation of extraordinary creation”

Project overview

Redefining Underwater Propulsion with Speed, Stealth & Precision

Project Water-Horse™ is an advanced R&D initiative under Eleven String Pvt. Ltd., focused on developing a **next-generation underwater propulsion system** for torpedoes and submarine platforms.

The project aims to engineer a **hybrid underwater jet and rocket-based propulsion architecture** capable of delivering **high-speed movement with near-zero detectable footprint**.

This innovation is designed to transform naval mobility by combining **speed, stealth, and efficiency** into a single propulsion system.

The Problem

Traditional underwater propulsion systems face critical limitations:

- Solid fuel engines generate **bubbles and wake trails**, making them easily trackable
- Bubble signatures expose both:
 - The moving torpedo
 - The launch origin point
- Fin-based propulsion systems offer stealth but:
 - Deliver **low speed**
 - Limit tactical effectiveness

This creates a major gap between **speed and stealth** in underwater warfare.

The Solution

Water-Horse™ introduces a **low-signature propulsion concept** designed to:

- Minimize or eliminate visible bubble trails
- Reduce detectability in underwater environments
- Maintain **high-speed performance comparable to jet/missile systems**

The system is envisioned as a **new class of underwater engine**, enabling both:

- Stealth operations
- High-velocity strike capability

R&D Focus Areas

1. Underwater Jet Propulsion

Designing fluid-dynamic propulsion systems optimized for submerged environments.

2. Rocket-Assisted Acceleration

Exploring controlled thrust mechanisms for rapid speed generation underwater.

3. Low-Signature Engineering

Developing propulsion techniques that reduce:

- Bubble formation
- Wake trails
- Acoustic and visual detectability

4. Hybrid Propulsion Systems

Integrating multiple propulsion principles into a single efficient architecture.

Key Advantages

- High-speed underwater movement
- Minimal or near-zero detectable footprint
- Hard-to-track trajectory
- Enhanced stealth capability
- Suitable for advanced torpedoes and submarines
- Tactical advantage in naval defense systems

Strategic Impact

Project Water-Horse™ has the potential to redefine underwater warfare by solving one of its biggest challenges:

Speed vs Stealth Trade-off

Revolution:

- Enables fast yet undetectable underwater systems
- Changes how torpedoes and submarines operate

Strategic Advantage:

- Harder to detect
- Harder to intercept
- Harder to trace back to origin

Project Status

Stage: Concept & Advanced R&D Planning

Next Step: Propulsion model design & simulation

Ecosystem Position

Water-Horse™ is a core component of Eleven String's **Multi-Domain Defense Innovation System**, working alongside:

- Sky-Astra™ (Anti-Drone Systems)
- Sky-Horse™ (Aerial Propulsion Systems)

Together, these projects form a **complete Air–Water Defense Technology Ecosystem**.

Collaboration & Investment

We are actively looking for:

- Naval technology experts
- Defence research organizations
- Strategic partners
- Early-stage investors

👉 **Join us in shaping the future of underwater defense technology.**

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