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### CONCEPT OF KAMIKAZE UNMANNED SURFACE VEHICLE (K-USV) DISABLER SYSTEM (CONOPS-THORN)

## **DESTRUCTION BY LAYING A THORN DUTY CYCLE** LINE WITH FAST MINI DRONES **Deployment with ship-based** autonomous fast-moving mini drones (FPV Type) **Friendly High Enemy Kamikaze Value Element** USVs 2 Kg of Directed Inactive **Marine Type (IP-67** protection) Special **Explosive in Each Unit Thorn Line**

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#### CONCEPT OF KAMIKAZE UNMANNED SURFACE VEHICLE (K-USV) DISABLER SYSTEM (CONOPS-THORN)



#### **DESTRUCTION BY LAYING A THORN** LINE WITH FAST MINI DRONES



#### **Remote Control Initiation System** (RCIS)-USAS (Less Affected by Current with

Parachute Type Sea Anchor)

#### PREPARATION, DETECTION AND **CLASSIFICATION PHASE**

- Remote Control Initiation System (RCIS)-USAS ammunition loaded onto ship-based autonomous fast moving mini drones and the mission parameters of the system are defined.
- Enemy Kamikaze USV is detected and identified with the Ship Combat Management System and Sensors, and target information is received from the ship combat management system.



#### **DEPLOYMENT AND DESTRUCTION PHASE**

- 5-10 Remote Control Initiation System (RCIS)-usas ammunition are dropped into the sea in the direction of the threat by ship-based autonomous fast moving mini drones (FPV type drones) capable of firing multiple shots, or manually from the ship when the drone cannot be lifted in meteorological conditions higher than Sea State-3.
- The ropes are opened on the water and cover a wide area passively. A THORN line is created.
- The Kamikaze USV is slowed or immobilized by a rope contacting or becoming tangled in its propeller. At the same time, the acoustic/magnetic/contact sensor is activated and the Remote Control Initiation System (RCIS)-usas explodes and destroys the target.
- The operator can remotely deactivate or activate/deactivate specific Remote Control Initiation System (RCIS)-usas units whenever he deems appropriate. In this way, the system remaining at sea is secured against friendly elements.

#### **DUTY CYCLE SUMMARY**

- ✓ Total reaction time between detection and engagement:  $\sim$  8-10 seconds
- ✓ Multi-sea deployment time: ~ 15-30 seconds

