



iDEX Innovations for
Defence Excellence
PM Awardee

ADITI 3.0

Acing Development of Innovative Technologies with iDEX

Problem Statement

S. No.	Name of Agency	Number of Problem Statements
1.	Indian Navy	01
Total		01

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Problem Statement – 1: Design and Development of High-Power Microwave Weapon System.

Organization Name	Indian Navy
Problem Statement/ Challenge title	Design and Development of High-Power Microwave Weapon System.
Challenge brief/definition	<p>Design and Development of High-Power Microwave Weapon System capable of neutralizing swarm of Autonomous Aerial Vehicles (AAVs), Autonomous Combat Aerial Vehicles (ACAVs) and Autonomous Surface Vehicles (ASVs) at range of ≥ 5 km.</p> <p>The High-Power Microwave weapon system should enable scalable power output, without significant change in architecture, thereby ensuring engagement at varying ranges.</p>
Future Expectation from the prototype / Technology Developed	The High-Power Microwave weapon prototype should be capable of upgrade in future by increasing the power output thereby enabling neutralisation of AAVs, ACAVS and ASVs at extended ranges.