



CATALOGUE OF SUCCESSFUL iDEX PRODUCTS

**INNOVATIVE
SOLUTIONS**

CUTTING EDGE
SOLUTIONS FOR
FUTURE READY
FORCES

★ PROCUREMENT ORDERS PLACED ★

As on 31st August 2026



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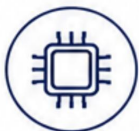


ABOUT THIS CATALOGUE

This catalogue showcases **iDEX** innovations that have matured successfully and have been placed for procurement by the Armed Forces, DPSUs and other stakeholders.



These indigenous solutions are the result of cutting-edge technology, relentless innovation and collaboration between startups, industry, academia and the defence ecosystem.



The products featured here address critical operational needs across domains and are a testament to Atmanirbhar Bharat in action.



By adopting these innovative solutions, we strengthen operational capabilities, enhance mission readiness and build a self-reliant and resilient India.



This catalogue aims to connect stakeholders, encourage wider adoption and pave the way for a future where innovation drives the strength of our forces and the pride of our nation.

ABOUT iDEX

The Innovations for Defence Excellence (**iDEX**) initiative, under the Department of Defence Production, Ministry of Defence, aims to foster innovation and technology development in India's defence and aerospace sectors by engaging startups, MSMEs, innovators, academia and industry.

Through collaborative partnerships with the Armed Forces, Defence Public Sector Undertakings (DPSUs) and other stakeholders, iDEX enables indigenous technologies to mature into deployable defence capabilities, contributing towards Atmanirbhar Bharat.



DISCLAIMER

- The information contained in this catalogue is intended solely for awareness, outreach and informational purposes.
- While every effort has been made to ensure the accuracy of the information presented, technical specifications, procurement status, product configurations, contact details and other particulars are based on information provided by the respective iDEX Winners and are subject to change without prior notice.



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DEFENCE INNOVATION
ORGANISATION (DIO)



MINISTRY OF DEFENCE
GOVERNMENT OF INDIA



www.idex.gov.in

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FIRE FIGHTING ROBOT (FF BOT)

CHALLENGE CATEGORY

DISC 7



PROCUREMENT ORDERS PLACED BY



INDIAN NAVY



INDIAN AIR FORCE



INDIAN ARMY

PRODUCT OVERVIEW

The Swadeshi Fire Fighting Robot (FF BOT) is an advanced, indigenous Unmanned Ground Vehicle (UGV) developed by Swadeshi Empresa Private Limited. Designed to protect human life, it remotely enters hazardous environments—such as toxic smoke, chemical fires, and intense heat zones—to combat blazes from a safe distance.



IDEX WINNER

Swadeshi Empresa
Private Limited



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TECHNOLOGY DOMAIN

Hazard Management
System



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solutions



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Strengthening indigenous
capabilities



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AUTONOMOUS WEAPONISED BOAT SWARM

CHALLENGE CATEGORY **DISC 7**



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN ARMY

PRODUCT OVERVIEW

Sagar Defence Engineering indigenously designed and manufactured AWBS to overwhelm enemy defences, these uncrewed surface vessels (USVs) feature integrated 12.7 mm guns, C4ISR capabilities, and autonomous collision avoidance for high-speed littoral patrols.



IDEX WINNER

Sagar Defence Engineering
Private Limited



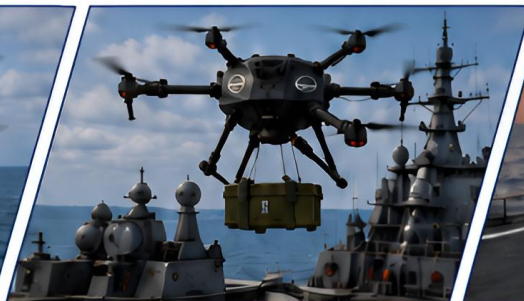
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TECHNOLOGY DOMAIN

Robotics, Autonomous
and Unmanned System



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capabilities



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AUTONOMOUS CARGO CARRYING VEHICLE

CHALLENGE CATEGORY

OC 6



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

INDIAN NAVY



PRODUCT OVERVIEW

Autonomous cargo carrying has been developed for ship to ship and ship to shore operations.

Heavy Lift Autonomous Flying Robot for Shipborne Operations, Autonomous Cargo carrying Aerial Vehicle (ACAV) having autonomous navigational capabilities along with autonomous launch and recovery capabilities from moving ship and maritime domain operational capability with heavy cargos on board will be utilized for transfer of cargo upto 150 kgs between moving vessels.



IDEX WINNER

Sagar Defence Engineering
Private Limited



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TECHNOLOGY DOMAIN

Robotics, Autonomous
and Unmanned System



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LONG RANGE COMMUNICATION

FOR

TRACKING & EXCHANGING
SHORT MESSAGE BETWEEN

IN HELICOPTER (CHETAK)
AND A SHIP

CHALLENGE CATEGORY

DISC 7



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN ARMY

PRODUCT OVERVIEW

Lekha Wireless Solutions developed a long-range, mesh-network-based communication system under the iDEX DISC-7 challenge, designed for tracking and exchanging short messages between Indian Navy ships and helicopters (such as the Chetak) over a range exceeding 100 km. The solution leverages SDR-based hardware with LPV/LPD waveforms for secure data streaming, situational awareness, and anti-jamming. Successfully field-tested with support for 32 users, this compact and scalable tactical radio is adaptable as an upgrade for video links and narrow-band communications across the Indian Army, Air Force, and various defense public sector undertakings (DPSUs).



iDEX WINNER

Lekha Wireless Solutions
Private Limited



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TECHNOLOGY DOMAIN

Communication System for
Airborne application



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capabilities



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MATERIAL MOVEMENT SHIFTING

ONBOARD SHIP OVER
HATCH DOOR COAMING

CHALLENGE CATEGORY

OC 6



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

The Ships have Hatch Doors on Walls and Floors. While the Wall Hatch Doors are used for horizontal movement on one deck, the floor hatch doors have stairways which are used for movement between one deck to another. The Navy Ships have regular supplies of various material like ammunition, ration, spares etc., which are manually moved to the respective stores in the ship. During this the person has to negotiate the wall hatch door coamings and the floor hatch door coamings/stairways which offer hinderance and at times cause stumbling, injury, material damages etc.. Further this process is manpower intensive, tiresome, & time-consuming leading to less output.

These highly customised modules, developed under IDEX, facilitate material movement onboard ship over / through hatch door coamings. The key benefits include reduced manpower, faster movement, higher load capacity, improved efficiency and safety of man & material.



IDEX WINNER

Pine Automation LLP



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TECHNOLOGY DOMAIN

Logistics and
Support Systems



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Building innovative
solutions



INDIGENIZE

Strengthening indigenous
capabilities



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Integrating for a
self-reliant future

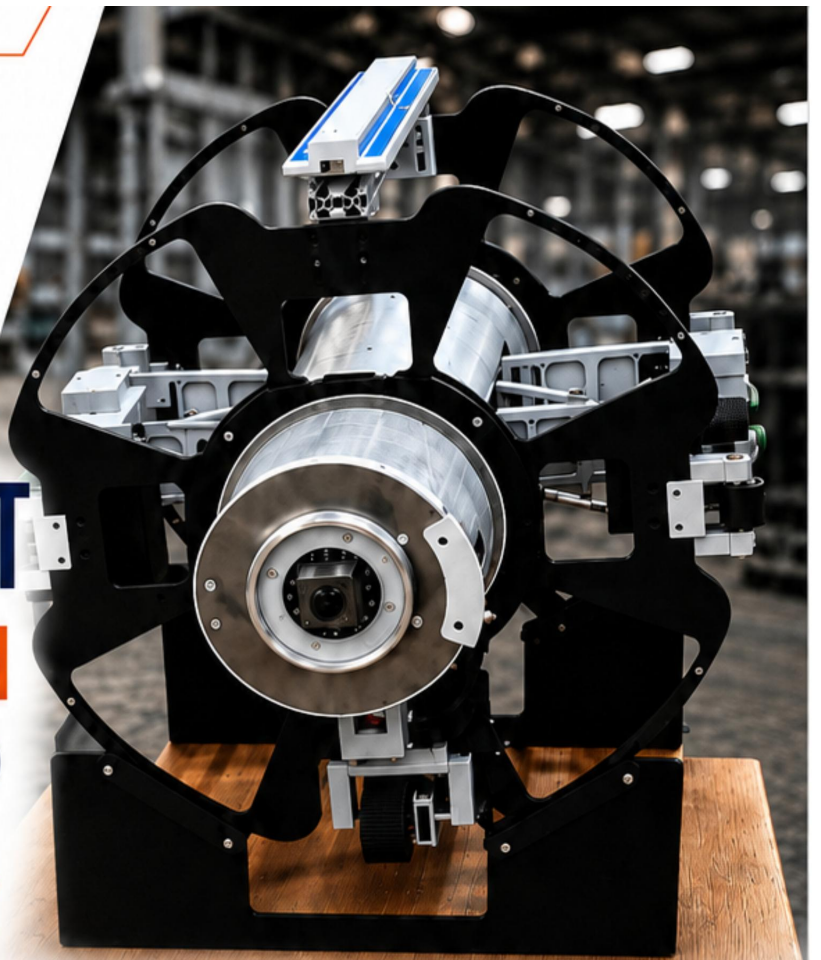
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AI BASED BARREL CRAWLING BOT INSPECTION SYSTEM (SOFTWARE & HARDWARE)

CHALLENGE CATEGORY

DISC 7



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY



PRODUCT OVERVIEW

An AI-enabled crawling robot system that moves inside Torpedo tubes (536mm), Rocket Launcher Tubes (213 mm) and gun barrels (76 mm) to inspect internal surfaces using sensors, detecting and reporting defects & anomalies without manual intervention.



IDEX WINNER

Bit Mapper Integration
Technologies Private Limited



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TECHNOLOGY DOMAIN

Robotics, Autonomous
and Unmanned Systems



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GNSS BASED HELICOPTER LANDING AID

CHALLENGE CATEGORY **DISC 7**



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

Pathfinder is a GNSS based solution designed to help shipborne helicopters recover and land safely in poor visibility conditions such as bad weather and dark nights with limited visibility. Its applicability further extends to providing landing support in low-visibility environments, particularly within the challenging mountainous terrain of the Himalayas.



IDEX WINNER

Parachute Technologies
Pvt Ltd



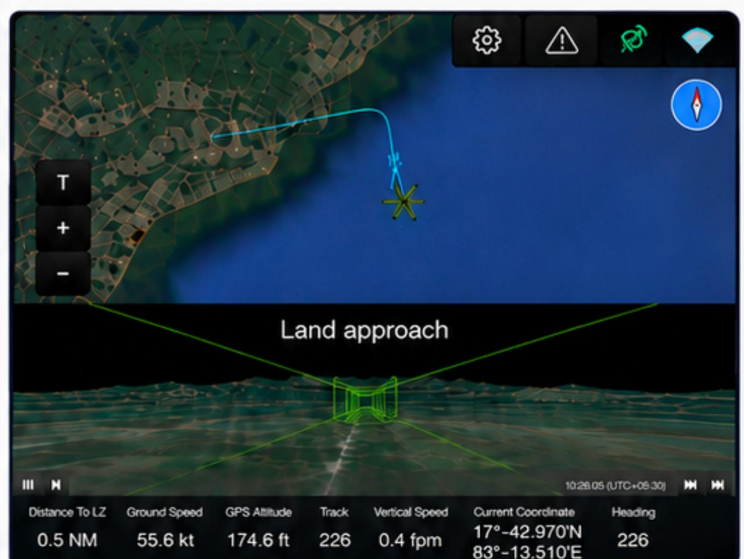
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TECHNOLOGY DOMAIN

Aerospace navigation,
Airspace Safety,
Positioning/Geolocation



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RAPID FOLDABLE INFANTRY ASSAULT BRIDGE

CHALLENGE CATEGORY OC 2



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

PRODUCT OVERVIEW

The Rapid Foldable Infantry Assault Bridge (RFIAB), developed with the Indian Army under the iDEX initiative, is a lightweight, modular, man-portable bridging system for rapidly crossing rivers, canals, and other water obstacles. Deployable without tools, it enables crossings of up to 50 metres within minutes. Each module can be carried by one or two soldiers and features a swivelling deck with auto-locking mechanisms for quick assembly. Designed with unsinkable flotation systems and rugged construction, the bridge withstands small arms fire, shrapnel, harsh weather, chemicals, and prolonged operational use while maintaining buoyancy and structural integrity.



iDEX WINNER

Brisk Olive Bussiness
Solution Pvt. Ltd.



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TECHNOLOGY DOMAIN

Combat Support System



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INDIGENIZE



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POWERING THE FUTURE OF INDIAN DEFENCE

COUNTERMEASURES FOR ILLEGAL DRONES

AI-ENABLED | DETECT • TRACK • NEUTRALIZE

CHALLENGE CATEGORY **DISC 2**



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

INDIAN AIR FORCE

PRODUCT OVERVIEW

Big Bang Boom Solutions (BBBS) offers a comprehensive, AI-enabled Counter-Unmanned Aircraft System (C-UAS) ecosystem for the Indian Armed Forces to detect, track, and neutralize hostile drones.

Their primary defense solution is the Vajra Sentinel System, which covers up to a 10 km radius using passive Radio Frequency (RF) sensors. They also supply 360 vision system for armored vehicles and high expansion fire fighting foam for use in large Naval vessels such as Aircraft Carriers.



iDEX WINNER

Big Bang Boom Solutions
Private Limited



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TECHNOLOGY DOMAIN

Combat Support System
Counter Drone Technology

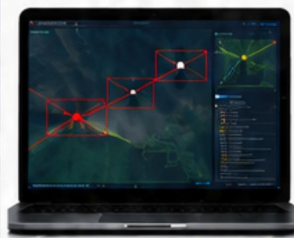
DETECT

Passive RF Detection
up to 10 km



TRACK

AI-enabled Tracking
& Classification



NEUTRALIZE

Multi-layered Neutralization
(RF, GNSS, Spoofing)



INTEGRATED SOLUTIONS

360° Vision System &
Fire Fighting Foam Systems



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GENISYS

"BOAT IN A BOX"

AI POWERED AUTONOMY

COMPACT. INTELLIGENT. LETHAL.
DESIGNED FOR NAVAL MINE COUNTERMEASURES.



GENISYS
"BOAT IN A BOX"
AI POWERED
AUTONOMY



SWARMING
CAPABILITY



MINE DETECTION
& CLASSIFICATION



REDUCED RISK
TO HUMAN LIFE



CHALLENGE CATEGORY

DISC 4

PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

Sagar Defence Engineering designed and manufactured AUV for mine countermeasures powered by artificial intelligence with swarming capability, these Autonomous Underwater Vehicles (AUVs) are designed to scout, identify, and neutralize naval mines while drastically reducing human exposure to dangerous environments.



iDEX WINNER

Sagar Defence Engineering
Private Limited



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TECHNOLOGY DOMAIN

Robotics, Autonomous
and Unmanned Systems

DEPLOY

Launch from ship or submarine



AUTONOMOUS MISSION

AI-enabled navigation
and area coverage



MINE DETECTION & IDENTIFICATION

Advanced sensors detect
and classify naval mines



NEUTRALIZATION

Safe and precise neutralization
of identified mines



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SMART COMPRESSED BREATHING APPARATUS

CHALLENGE CATEGORY **DISC 7**



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY



PRODUCT OVERVIEW

Smart Compressed Breathing Apparatus by Vimal Fire Controls Pvt. Ltd. is an indigenous, next-generation respiratory protection system featuring an integrated communication system, lightweight composite cylinders, and enhanced operational endurance. Engineered for firefighting, and emergency response, it delivers superior safety, mission readiness, enhanced situational awareness, and uncompromising performance in the harshest operational environments. Designed for superior ergonomics, reliability, and operational efficiency, the Smart BASCCA set delivers exceptional mobility, durability, and user comfort while meeting the EN standards. It represents Vimal Fire Controls' commitment to advancing Atmanirbhar Bharat through innovative, world-class life-saving technologies that enhance mission success and operational resilience.



IDEX WINNER

Vimal Fire Controls
Private Limited



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TECHNOLOGY DOMAIN

Hazard Management
System



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UNDERWATER REMOTELY OPERATED VEHICLE (UWROV) —

PRECISION INSPECTION • MINE COUNTERMEASURE
OBJECT RECOVERY • DIVER SAFETY

CHALLENGE CATEGORY

DISC 7



HIGH
RELIABILITY



PRECISE
NAVIGATION



300m
DEPTH
RATING UP
TO 300m



HD CAMERA &
ADVANCED
SENSORS



TETHERED
CONTROL &
REAL-TIME DATA

PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

The EyeROV TROUT is an indigenously designed and developed, high-performance tethered Underwater Remotely Operated Vehicle (UWROV) built for precision inspection, mine countermeasure support, and object recovery operations in sea and inland waters. Built for reliability and advanced operational navigation, TROUT delivers critical underwater ISR and physical intervention capabilities at depths of up to 300 meters, eliminating the need for diver deployment in hazardous or low-visibility conditions.

An Underwater Remotely Operated Vehicle (ROV) is a tethered submersible robot. Controlled by a surface operator via cables that provide power and real-time data, ROVs may explore the deep sea, perform industrial inspections, and execute physical interventions at depths that are lethal or inaccessible to human divers.



IDEX WINNER
EyeROV (ROV Technologies
Pvt Ltd)



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TECHNOLOGY DOMAIN
Marine Robotics and
Autonomous Systems



High-Performance UWROV
for Precision Inspection



Advanced HD Cameras
& Real-Time Sensors



Indigenously Designed &
Production-Ready



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EMPOWERING MARITIME OPERATIONS. SECURING OUR WATERS.

16

ROV-JALASIMHA UNDERWATER REMOTELY OPERATED VEHICLE

HIGH RELIABILITY • PRECISE NAVIGATION • ADVANCED SENSORS
TETHERED CONTROL • REAL-TIME DATA

CHALLENGE CATEGORY

DISC 7



HIGH
RELIABILITY



PRECISE
NAVIGATION



HD CAMERA &
ADVANCED
SENSORS



TETHERED
CONTROL &
REAL-TIME DATA



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

ROV-JalaSimha is a high-performance tethered U/WROV engineered to operate at depths of up to 300m for defence, deep-sea inspection and mission-critical underwater operations. Built for spot-on diving and precise station keeping, it delivers exceptional maneuverability and control in demanding maritime environments. Its optimized power architecture ensures uninterrupted high-power operation by preventing power tripping during critical missions, enabling sustained performance during extended deployments.

JalaSimha enables safe, precise, and reliable underwater surveillance, inspection, maintenance, and intervention while significantly reducing diver dependency, operational risks, and mission downtime in contested and harsh marine environments.



IDEX WINNER

Coratia Technologies
Pvt. Ltd.



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TECHNOLOGY DOMAIN

Underwater Warfare

MCM OPERATIONS



AUTONOMOUS NAVIGATION



12+ HRS ENDURANCE



ON-SPOT DIVING



ACCURATE UNDERWATER POSITIONING



REAL-TIME NAVIGATION TRACKING



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UNDERWATER VISION SYSTEM [AQUASCAN]

CHALLENGE CATEGORY **DISC 7**



HIGH
RELIABILITY



PRECISE
NAVIGATION



300m
DEPTH
RATING UP
TO 300m



4K CAMERA &
ADVANCED
SENSORS

PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN COAST GUARD

PRODUCT OVERVIEW

This AI-enabled underwater system combines a diver-held sensor head with a topside console via a single, streamlined tether to deliver complete acoustic, optical, and positional imaging in zero-visibility conditions like silted harbours or unit depths.

While the surface operators use cached offline maps to plan grid searches and stream live data, the diver navigates using a multi-sensor array featuring multibeam imaging sonar, dual 4K cameras, integrated LED lighting, and metal detection.

An integrated AI assistant processes this data in real time to highlight and classify targets, reducing operator fatigue during long search operations.

Ultimately, this coordinated system minimizes entanglement risks and deployment times, serving as a highly efficient tool for hull inspections, mine countermeasures, underwater search and recovery, and routine subsurface infrastructure maintenance.



IDEX WINNER

CI4 - Autonomous
Intelligence



CONTACT DETAILS

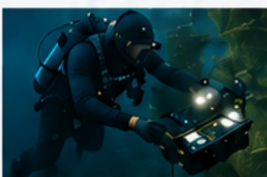
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TECHNOLOGY DOMAIN

Artificial Intelligence &
Machine Learning

DIVER-HELD SENSOR HEAD



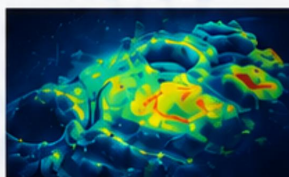
High-resolution imaging
and real-time data capture

TOPSIDE CONSOLE



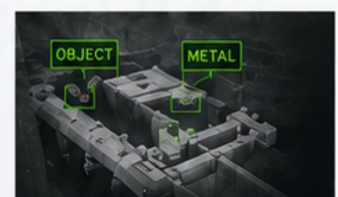
Real-time processing,
mission planning,
and live data feed

MULTIBEAM IMAGING SONAR



Advanced sonar for
detailed seabed
mapping and target detection

AI TARGET DETECTION



AI-assisted target
identification and
classification



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COUNTERMEASURES FOR ILLEGAL DRONES

RF JAMMER GUNS

CHALLENGE CATEGORY **DISC 2**



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN AIR FORCE

INDIAN ARMY

BORDER SECURITY
FORCE (BSF)

CENTRAL RESERVE
POLICE FORCE (CRPF)

PRODUCT OVERVIEW

Anti-drone RF Jammer Guns are portable, rifle-shaped Counter-Unmanned Aircraft Systems (C-UAS) that use directional electromagnetic interference to disrupt unauthorized drones.



Jams GNSS, control, video, and telemetry signals



Interrupts the drone's communication and navigation links



Triggers the drone's built in failsafe behavior for a non-destructive ('soft-kill') neutralization



Effective, portable, and mission-ready solution for critical infrastructure & force protection



IDEX WINNER

Gurutvaa Systems
Private Limited



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TECHNOLOGY DOMAIN

Counter Drone
Technology



JAMMING CAPABILITIES

GNSS | CONTROL | VIDEO | TELEMETRY



DISRUPT & NEUTRALIZE

INTERRUPT COMMUNICATION LINKS



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POWERING THE FUTURE OF INDIAN DEFENCE

DEVELOPMENT OF INDIGENOUS

MORPENE COMPOUND

CHALLENGE CATEGORY

DISC 7



- Efficient fire suppression for ships, naval bases, military fuel storage, petrochemical plants, factories, and hazardous material warehouses.



- Enhances safety in aircraft hangars, offshore rigs, docks, port facilities and maintenance areas through effective fire suppression.



- Seawater Compatible.



- Deployed onboard largest IN Platforms.

PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN AIR FORCE

INDIAN ARMY

BORDER SECURITY FORCE (BSF)

CENTRAL RESERVE
POLICE FORCE (CRPF)

PRODUCT OVERVIEW

INDOPENE is an indigenous synthetic multipurpose firefighting foam concentrate developed by Adisan Systems as a replacement for the Russian firefighting foam MORPENE.

It has been developed to provide a reliable indigenous alternative for defence, marine, industrial, and critical infrastructure applications, supporting the Government of India's **Atmanirbhar Bharat** initiative.

Developed under the **iDEX** (Innovations for Defence Excellence) **DISC 7** Sprint Challenge, **INDOPENE** reduces dependence on imported firefighting agents while delivering effective fire suppression performance.



iDEX WINNER

Adisan Systems LLP



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TECHNOLOGY DOMAIN

Hazard Management
System



**NAVAL
APPLICATIONS**

Shipboard & dockyard
fire protection



**INDUSTRIAL
APPLICATIONS**

Petrochemical, oil & gas,
and chemical plants



**FUEL FIRE
SUPPRESSION**

Rapid knockdown of
hydrocarbon fires



**AIRPORT &
INFRASTRUCTURE**

High-risk facilities &
critical infrastructure



**EFFECTIVE, RELIABLE,
INDIGENOUS**

Engineered for maximum
firefighting performance



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INDIGENIZE



INTEGRATE

POWERING THE FUTURE OF INDIAN DEFENCE

PORTABLE RCS MEASURING DEVICE

[INSIGHT - RCS]

CHALLENGE CATEGORY

DISC 7

CI4
AUTONOMOUS INTELLIGENCE



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

CI4's Portable Radar Cross Section (P-RCS) system is a mobile technology that measures the radar signatures of full-scale military assets—such as aircraft, missiles, and naval vessels—directly in operational field environments.



Eliminates the need for expensive, fixed anechoic chambers with a platform-independent solution.



Filters real-world background noise to deliver live signature data with optical correlation.



Critical for validating stealth designs, calibrating electronic countermeasures like chaff and jammers.



Builds comprehensive threat intelligence databases and supports force readiness.



iDEX WINNER
CI4 - Autonomous Intelligence



CONTACT DETAILS

✉ sales@ci4.com
☎ +91 8951061399



TECHNOLOGY DOMAIN

Electronics, Communication
System and Surveillance



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INTEGRATE

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www.ci4.com



sales@ci4.com



+91 8951061399

BATTERY POWERED SELF PROPELLED LIFE BUOY

CHALLENGE CATEGORY **DISC 1**



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN COAST GUARD

PRODUCT OVERVIEW

A Remote Controlled Life Buoy designed for rapid aquatic rescues. Engineered for quick deployment from land, water, or air, it allows lifeguards or emergency responders to pilot the buoy directly to a drowning victim without endangering themselves.



iDEX WINNER

Saif Automations
Services LLP



CONTACT DETAILS

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saif.automations@gmail.com



TECHNOLOGY DOMAIN

Robotics, Autonomous
and Unmanned System



Quick deployment
from land



Directs to drowning victim
with precision



Air deployable for
littoral operations



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DRONAAM® SERIES

gurutvaa
systems

ANTI DRONE SYSTEM

-  AI ENABLED TECHNOLOGY
-  SOFT-KILL NEUTRALIZATION
-  PORTABLE & RUGGED DESIGN

CHALLENGE CATEGORY DISC 2



PROCUREMENT ORDERS PLACED BY

INDIAN AIR FORCE

INDIAN ARMY

BORDER SECURITY
FORCE (BSF)

INDIAN NAVY

CENTRAL RESERVE
POLICE FORCE (CRPF)

PRODUCT OVERVIEW

The DRONAAM® series is an indigenous, AI-enabled, modular Counter-Unmanned Aircraft System (C-UAS) developed by Pune-based Gurutvaa Systems.

Designed as a compact, rifle-style handheld device, it provides a portable and rugged solution for “soft-kill” drone neutralization using advanced electronic warfare and signal-jamming technology.

The system is widely deployed by Indian defense and security forces to counter unauthorized and hostile drones.

-  Jams GNSS, control, video and telemetry links
-  AI-enabled detection and intelligent response
-  Effective range for various drone categories
-  Lightweight, ergonomic & easy to operate
-  Quick deployment, mission-ready solution



IDEX WINNER

Gurutvaa Systems
Private Limited



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☎ +91 98184 25566



TECHNOLOGY DOMAIN

Counter Drone
Technology



DETECT

Detects unauthorized
drones in real-time



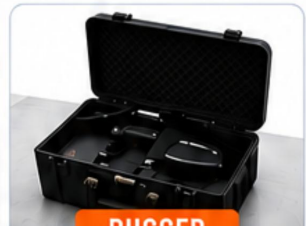
JAM

Jams critical signals
& disrupts links



NEUTRALIZE

Forces drones to return,
land or hover



RUGGED

Built for harsh field
environments

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INTEGRATED MOBILE CAMOUFLAGE SYSTEM (IMCS)

CHALLENGE CATEGORY

(OC) 1



PROCUREMENT ORDER PLACED BY

INDIAN ARMY

PRODUCT OVERVIEW

The Integrated Mobile Camouflage System (IMCS) is an advanced, iDEX-developed multispectral stealth solution for military platforms.

It integrates advanced materials to reduce visual, thermal, infrared, and radar signatures without compromising asset mobility.

Validated through field trials, IMCS acts as a force multiplier by enhancing battlefield survivability against modern surveillance.



IDEX WINNER

Hyper Stealth Technologies Private Limited



CONTACT DETAILS

✉ manish@hyperstealth.in
☎ 98100 38557



TECHNOLOGY DOMAIN

Stealth Technology



MULTISPECTRAL STEALTH

Reduces visual, thermal, infrared and radar signatures



MOBILITY WITHOUT COMPROMISE

Advanced materials ensure stealth without affecting platform mobility



FIELD TRIAL VALIDATED

Proven performance through rigorous field evaluations



ENHANCED SURVIVABILITY

Force multiplier for modern battlefield operations



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INDIGENIZE



INTEGRATE

POWERING THE FUTURE OF INDIAN DEFENCE

www.idex.gov.in

4G/LTE TACTICAL LAN

RUGGEDISED • SECURE • RAPID DEPLOYABLE

CHALLENGE CATEGORY **DISC 1**



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

PRODUCT OVERVIEW

A high-speed, secure and mobile IP-based wireless network for military and emergency operations.

KEY FEATURES OF ASTROME'S TACTICAL LAN:



Secure Connectivity:

Allows personnel to securely connect using commercial/ ruggedized 4G smartphones and devices in remote or infrastructure-absent environments for reliable communication in hostile environments.



High-Bandwidth Backhaul:

Employs advanced millimeter wave phased array technology to provide reliable, long-range, point-to-point communication.



Rapid Deployment:

Can be quickly set up, offering continuous operations without infrastructural reliance.



IDEX WINNER

Astrome Technologies
Private Limited



CONTACT DETAILS

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TECHNOLOGY DOMAIN

Electronics, Communication
System and Surveillance



RELIABLE CONNECTIVITY

Enables secure voice, video, data, messaging, and IoT applications in infrastructure-deficient environments.



RUGGED & RAPID DEPLOYABLE

Compact system that deploys rapidly for critical field operations and remote connectivity.



LONG DURATION OPERATION

Continuous, infrastructure-free operation on a single system.



SECURE & RESILIENT

High-speed, secure mobile network for reliable and resilient communication.



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POWERING THE FUTURE OF INDIAN DEFENCE

www.idex.gov.in

4G/LTE TACTICAL LAN

RUGGEDISED • SECURE • RAPID DEPLOYABLE

CHALLENGE CATEGORY **DISC 1**



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

INDIAN ARMY

PRODUCT OVERVIEW

- This ruggedised 4G/LTE network is an indigenous tactical multi-media broadband solution designed for defence, homeland security, and disaster response.
- It enables reliable, long-range connectivity for secure voice, video, data, messaging, and IoT applications in infrastructure-deficient environments.
- It can be integrated to legacy telephony and switching systems such as SIP Exchanges, FXO, FXS and E1-PRI interface enabling interworking between IP-based cellular communication and conventional voice networks and capable of seamless convergence supporting user defined numbering scheme as well as basic PBX features like call forward, call transfer etc.
- This system meets Naval Staff Quality Requirements (NSQR) and holding DGQA approval.
- This compact system deploys rapidly as a standalone or integrated network, making it highly effective for critical field operations and remote connectivity.
- This system already deployed in field conditions meeting the operational requirements.



IDEX WINNERS

Lekha Wireless Solutions
Private Limited



CONTACT DETAILS

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9731395260



TECHNOLOGY DOMAIN

Strategic Communication
System



RELIABLE CONNECTIVITY

Enables secure voice, video, data, messaging, and IoT applications in infrastructure-deficient environments.



RAPID DEPLOYMENT

Compact system that deploys rapidly for critical field operations and remote connectivity.



STANDALONE OR INTEGRATED NETWORK

Deploys as a standalone or integrated network.



LEGACY SYSTEM INTEGRATION

Integrates with SIP Exchanges, FXO, FXS and E1-PRI enabling interworking with conventional voice networks and basic PBX features.



FIELD PROVEN

Deployed in field conditions and meets NSQR with DGQA approval.



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INTEGRATE

POWERING THE FUTURE OF INDIAN DEFENCE

www.idex.gov.in

REMOTELY PILOTED AIRBORNE VEHICLES

CHALLENGE CATEGORY DISC 1



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

INDIAN AIR FORCE

PRODUCT OVERVIEW

Remotely controlled vehicles equipped with secure, encrypted communication links, fitted with weapons, and advanced cameras and sensors for surveillance and combat operations.



IDEX WINNER

Zmotion Autonomous
Systems Private Limited



CONTACT DETAILS

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TECHNOLOGY DOMAIN

Robotics, Autonomous
and Unmanned System



INNOVATE



INDIGENIZE



INTEGRATE

POWERING THE FUTURE OF INDIAN DEFENCE

www.idex.gov.in

UNDERWATER NAVIGATION SYSTEM FOR AUV

CHALLENGE CATEGORY DISC 7



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

AquaNav system. It uses sensor fusion and terrain-aided localization modules to minimize navigation drift in deep-water and complex oceanic environments. AquaNav is specifically engineered to guarantee precise positioning, velocity, and orientation. Core technical capabilities of the Airbotix AUV navigation suite include: Sensor Fusion Localization: Advanced algorithms fuse inputs from multiple onboard sensors to provide highly accurate tracking where GPS cannot reach. Terrain-Aided Localization: Actively corrects and minimizes drift in position estimates using seabed mapping and feature matching. Interactive Mission Planner: Features a user-friendly graphical interface in the ground control station for intuitive mission programming and real-time visualization. Virtual Simulation: Allows operators to thoroughly simulate operations, routes, and contingencies before executing them in the water. Deployed under India's Innovations for Defence Excellence (iDEX) program, this system provides necessary autonomy and guidance for subsea research, pipeline inspection, and defense applications.



iDEX WINNER

Airbotix technologies
Pvt.Ltd



CONTACT DETAILS

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☎ 9004662307



TECHNOLOGY DOMAIN

Electronics, Communication
System and Surveillance



INNOVATE



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INTEGRATE

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www.idex.gov.in

REDUCTION OF RADAR CROSS SECTION (RCS) OF NAVAL WARSHIPS

CHALLENGE CATEGORY **DISC 4**



PROCUREMENT ORDERS PLACED BY

Goa Shipyard Limited

PRODUCT OVERVIEW

Zeus Numerix, an Indian defense MSME, specializes in reducing the Radar Cross Section (RCS) of naval warships to make them stealthy against enemy radar. They achieve a reported 70% reduction in RCS through advanced computer simulations and algorithmic design optimization. This enhances survivability, reduces detection range, and strengthens mission effectiveness in modern naval operations.



iDEX WINNER

Zeus Numerix
Private Limited



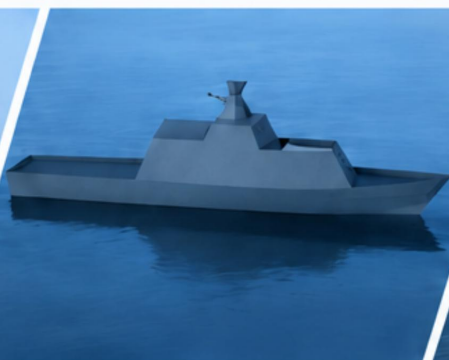
CONTACT DETAILS

✉ bkgupta@zeusnumerix.com
☎ 9766469769



TECHNOLOGY DOMAIN

Stealth Technology



INNOVATE



INDIGENIZE



INTEGRATE

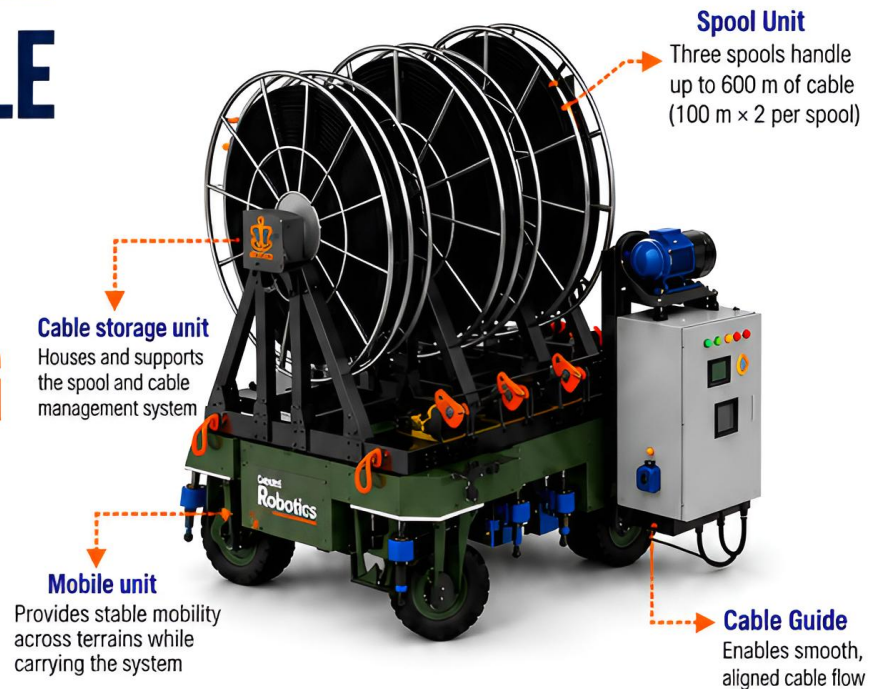
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www.idex.gov.in

SMART MOBILE UNITS FOR SHORE SUPPLY AND CHARGING CABLE

CHALLENGE CATEGORY **DISC 7**

Key Components



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

Smart mobile units that wrap, store, and transport bulky submarine shore power and charging cables safely and efficiently.



IDEX WINNER

Combat Robotics India Private Limited



CONTACT DETAILS

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☎ 9762341441



TECHNOLOGY DOMAIN

Combat Support System

Integrated Cable Handling & Mobility System



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INDIGENIZE



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www.idex.gov.in

PBI FIRE FIGHTING SUITS

CHALLENGE CATEGORY

DISC 7



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

PBI Firefighting Suit by Vimal Fire Controls Pvt. Ltd. is a premium, mission-ready protective ensemble engineered for extreme firefighting and rescue operations. Built with high-strength PBI para-aramid fibers and filament reinforcement, it delivers exceptional thermal protection, outstanding tear and break resistance, and unmatched durability. Its lightweight, breathable design enhances comfort, mobility, and reduces heat stress during extended operations. The integrated Drag Rescue Device (DRD) enables rapid firefighter rescue in critical situations. Manufactured to meet the latest NFPA standards, the suit reflects Vimal Fire Controls' commitment to quality, innovation, and uncompromising safety, representing indigenous engineering excellence and advancing Atmanirbhar Bharat through world-class life-saving protective solutions.



iDEX WINNER

Vimal Fire Controls
Private Limited



CONTACT DETAILS

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9821089265



TECHNOLOGY DOMAIN

Hazard Management
System



INNOVATE



INDIGENIZE



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www.idex.gov.in

LIGHT WEIGHT PORTABLE ILLUMINATION DEVICE

(Portable rugged, waterproof and lightweight torch for DC/FF activities including underwater)



CHALLENGE CATEGORY **DISC 7**

PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

INDIAN NAVY

PRODUCT OVERVIEW

A strong, waterproof, and lightweight lighting device for firefighting and damage control, designed to provide powerful illumination and work effectively even underwater.



IDEX WINNER
ASP Innovation
solutions



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Mobile: +91 90353 73023



TECHNOLOGY DOMAIN
Hazard Management
System



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INDIGENIZE



INTEGRATE

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www.idex.gov.in

MULTI SENSOR REAL TIME MONITORING OF RUNNING MACHINERY ON-BOARD SUBMARINE

CHALLENGE CATEGORY

DISC 7

PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

Advanced AI Powered Predictive Maintenance solution designed specifically for naval and defense applications, including submarines. Our IoT-enabled multi-sensor system continuously tracks critical machinery parameters in real time, detecting anomalies early, preventing breakdowns, reducing downtime and enhancing the operational readiness of vital on-board systems.



IDEX WINNER

ResonatingMindz
Pvt Ltd



CONTACT DETAILS

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TECHNOLOGY DOMAIN

Artificial Intelligence &
Machine Learning



INNOVATE



INDIGENIZE



INTEGRATE

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GENERATION OF QUANTUM SECURE KEYS BETWEEN TWO NODES CONNECTED DIRECTLY OVER 200 km

CHALLENGE CATEGORY

OC2



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

PRODUCT OVERVIEW

QNu Labs' Quantum Key Distribution (QKD) solution enables the generation of 100% secure cryptographic keys based on the principles of quantum mechanics, ensuring protection against present and future cyber threats. The system is field-tested, production-ready, commercially available, and has already been procured by the Armed Services for operational deployment. It supports multiple network topologies, allowing secure communication across diverse defence networks, command-and-control infrastructure, strategic installations, and mission-critical applications. Designed for high reliability and seamless integration, the solution strengthens sovereign quantum-secure communications for defence and national security.



IDEX WINNER

QuNu labs PVT Ltd
(QNu Labs)



CONTACT DETAILS

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☎ 9408895601



TECHNOLOGY DOMAIN

Quantum Technology
& Encryption



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www.idex.gov.in

POWERED AIR PURIFYING RESPIRATOR

CHALLENGE CATEGORY **DISC 7**



Automatic
altitude and
temperature
compensation



Breath
supporting



No fit test
necessary



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

Optrel India's Powered Air Purifying Respirator (PAPR) is a lightweight, battery-operated, positive-pressure system designed to protect personnel from toxic gases, harmful particulates, viruses and bacteria. It delivers 40 times the safety of standard N95 masks with complete eye protection or helmet/hood independent design. Providing purified air based on advanced filtration, it reduces breathing resistance and fatigue. With automatic airflow control and long endurance of 4–6 hours, Optrel's PAPR ensures maximum safety, comfort and efficiency in the most demanding environments.



IDEX WINNER
Optrel India
Pvt. Ltd.



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amit@optrelindia.com
+91 99867 40189



TECHNOLOGY DOMAIN
Hazard Management
System



INNOVATE



INDIGENIZE



INTEGRATE

EMPOWERING MARITIME OPERATIONS. SECURING OUR WATERS.

www.idex.gov.in

TORQUE GENERATOR STATOR 800 FOR T-90

CHALLENGE CATEGORY **DISC 6**



PROCUREMENT ORDERS PLACED BY

**India Optel Limited
(IOL)**

PRODUCT OVERVIEW

Torqon Power Drives Pvt. Ltd. in Coimbatore is a recognized manufacturer of custom-engineered, high-performance electric motors, specialized power drives, and industrial components. They specialize in custom BLDC, high-frequency, and specialized application motors for rigorous industrial and defence-related specifications.



iDEX WINNER

Torqon Power Drives
Pvt Ltd



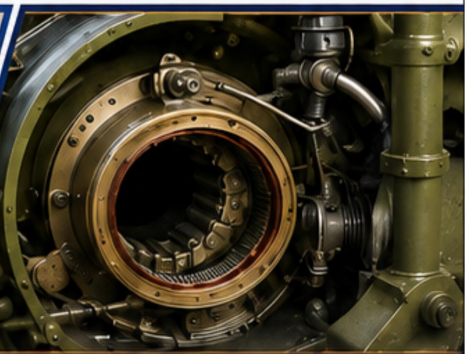
CONTACT DETAILS

✉ balaji@torqon.in
☎ +91 97897 57226



TECHNOLOGY DOMAIN

Combat Support
System



INNOVATE



INDIGENIZE



INTEGRATE

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www.idex.gov.in

TORQUE GENERATOR STATOR 1000 FOR T-90

CHALLENGE CATEGORY DISC 6



PROCUREMENT ORDERS PLACED BY

India Optel Limited
(IOL)

PRODUCT OVERVIEW

Torqon Power Drives Pvt. Ltd. in Coimbatore is a recognized manufacturer of custom-engineered, high-performance electric motors, specialized power drives, and industrial components. They specialize in custom BLDC, high-frequency, and specialized application motors for rigorous industrial and defence-related specifications.



IDEX WINNER

Torqon Power Drives
Pvt Ltd



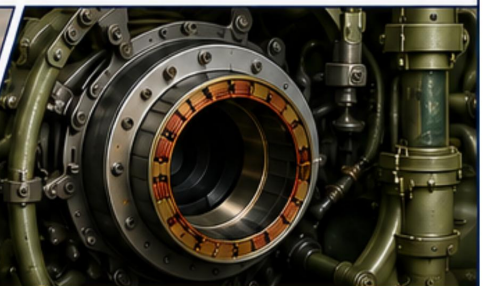
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TECHNOLOGY DOMAIN

Combat Support
System



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INTEGRATE

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www.idex.gov.in

ARTIFICIAL INTELLIGENCE BASED TRAINING MODULES FOR TECHNICIANS FOR OPERATION AND MAINTENANCE OF SU-30MKI AIRCRAFT

CHALLENGE CATEGORY **DISC 5**



PROCUREMENT ORDERS PLACED BY

**Hindustan
Aeronautics Limited
(HAL)**

PRODUCT OVERVIEW

The development of this module was recognized as HAL's inaugural VR/AI procurement, engineered from prototype to deployment in a record 20 days.

Core Technology: The system integrates Artificial Intelligence, Machine Learning, and Virtual Reality (VR) to create an immersive, risk-free training environment.

Technician Benefits: Trainees practice complex Su-30MKI maintenance scenarios repeatedly, building muscle memory and learning fault-rectification procedures without requiring access to an actual multi-role fighter.

AI Analytics: The AI engine provides real-time performance analytics, measuring the technician's accuracy, identifying bottlenecks in their procedure, and testing diagnostic skills in simulated emergency situations.



IDEX WINNER
Parallax Labs



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TECHNOLOGY DOMAIN
Artificial Intelligence &
Machine Learning



INNOVATE



INDIGENIZE



INTEGRATE

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AI BASED SATELLITE IMAGE ANALYSIS

CHALLENGE CATEGORY DISC 4



PROCUREMENT ORDERS PLACED BY

INDIAN ARMY

PRODUCT OVERVIEW

AI - native sensor fusion and geospatial intelligence platforms for satellite and aerial imagery. Their AI systems automate the processing and interpretation of raw (electro optic) and Synthetic Aperture Radar (SAR) data.



IDEX WINNER

CYRAN Ai Solutions
Private Limited



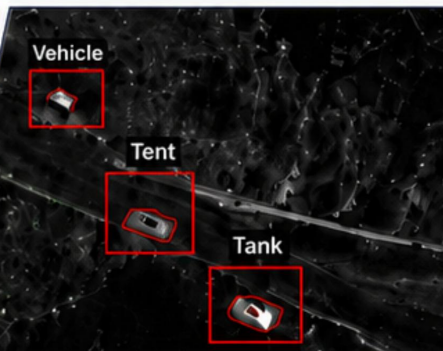
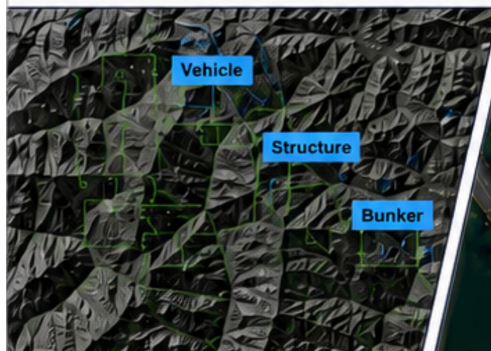
CONTACT DETAILS

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🌐 www.cyran.in



TECHNOLOGY DOMAIN

Artificial Intelligence &
Machine Learning



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INDIGENIZE



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www.idex.gov.in | www.cyran.in

COMPREHENSIVE ANALYTICAL PLATFORM DEEPDARSHAK

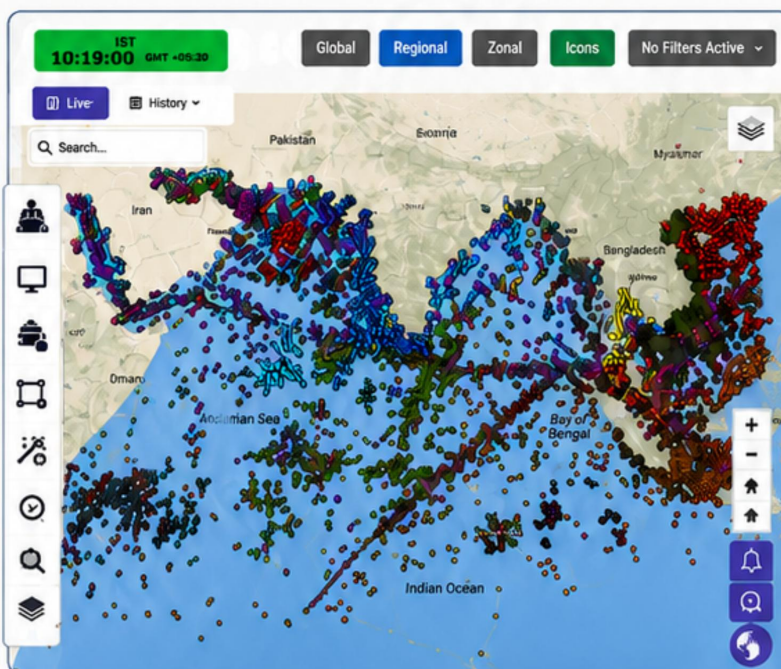
RUGGEDISED • SECURE • RAPID DEPLOYABLE

CHALLENGE CATEGORY **OC2**



Deepdarshak

deepdarshak.com



PROCUREMENT ORDERS PLACED BY

INDIAN NAVY

PRODUCT OVERVIEW

Deepdarshak delivers unmatched value for maritime surveillance. Since its launch it has been widely adopted thanks to its ability to integrate vast live data including satellite imagery to provide actionable insights in areas of strategic interest.

KEY FEATURES OF DEEPDARSHAK:



Addressing Information Overload: In maritime security, operators are inundated with vast amounts of data. Deepdarshak streamlines this process ensuring critical decisions are made efficiently by filtering out irrelevant information and highlighting key insights.



Enhanced Decision-Making with Real-time insights: Deepdarshak empowers operators with precise real-time insights transforming data overload into informed actions. This capability enhances situational awareness and strengthens maritime security operations.



AI-Powered Threat Detection: Using advanced algorithms, Deepdarshak identifies potential threats and unusual maritime behaviors. This proactive approach allows security agencies to focus on real dangers rather than wasting time on false alarms.



Optimized Resource Deployment: By providing actionable intelligence, Deepdarshak ensures that costly naval and aerial assets are deployed strategically reducing unnecessary expenses and improving operational efficiency.



IDEX WINNER

Crimson Energy Experts
Pvt Ltd



CONTACT DETAILS

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TECHNOLOGY DOMAIN

Artificial Intelligence &
Machine Learning



RELIABLE CONNECTIVITY

Enables secure voice, video, data, messaging, and IoT applications in infrastructure-deficient environments.



RUGGED & RAPID DEPLOYABLE

Compact system that deploys rapidly for critical field operations and remote connectivity.



LONG DURATION OPERATION

Continuous, infrastructure-free operation on a single system.



SECURE & RESILIENT

High-speed, secure mobile network for reliable and resilient communication.



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40

MINIATURE VISUAL IMAGING GUIDANCE SYSTEM

CHALLENGE CATEGORY **DISC 3**



PROCUREMENT AGENCY
Bharat Dynamics Limited (BDL)



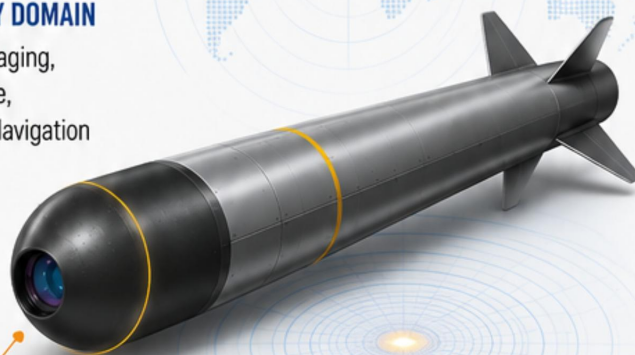
TECHNOLOGY DOMAIN
Advanced Imaging,
AI at the Edge,
Guidance & Navigation



PRODUCT OVERVIEW

The Miniature Visual Imaging Guidance System is a Gen-5 AI-enabled miniature visual imaging seeker designed for micro missiles and loitering munitions.

It provides high accuracy target acquisition and autonomous guidance in GPS-denied and contested environments.



SEEKER (MINIATURE VISUAL IMAGING GUIDANCE SYSTEM)

Advanced imaging seeker for accurate target acquisition and autonomous guidance.



iDEX WINNER
Optimized Electrotech
Pvt. Ltd.



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DATA ANALYTICS (ANOMALY DETECTION) IN AIR TRAJECTORY

CHALLENGE CATEGORY **DISC 6**



PROCUREMENT AGENCY
Bharat Electronics
Limited (BEL)

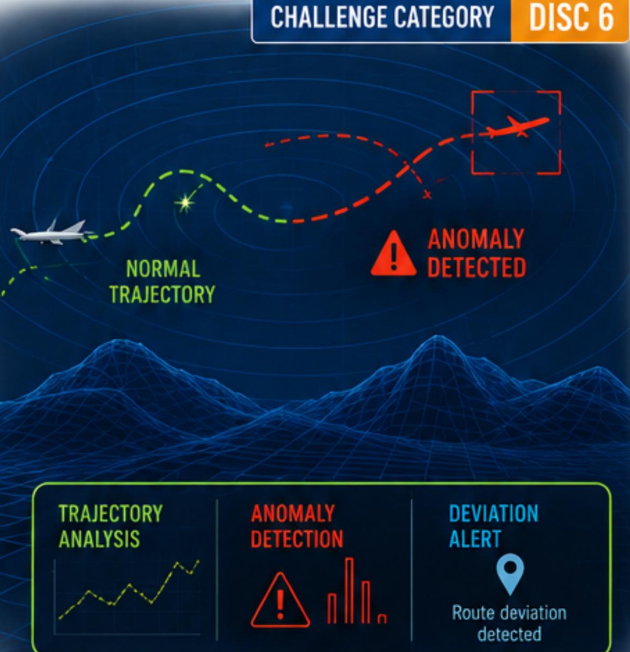


TECHNOLOGY DOMAIN
Artificial Intelligence &
Machine Learning



PRODUCT OVERVIEW

Software that uses machine learning to analyze past flight paths and detect unusual movements or deviations from approved air routes.



iDEX WINNER
Iotina Technologies
Private Limited



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INNOVATE



INDIGENIZE



INTEGRATE

POWERING THE FUTURE OF INDIAN DEFENCE

www.idex.gov.in

INTELLIGENT SYSTEM FOR IDENTIFICATION OF FISHING, EMAILS, FAKE WEBSITES AND SANDBOXING TARGETED AND ENTITY

CHALLENGE CATEGORY **DISC 9**



PROCUREMENT AGENCY
Bharat Electronics
Limited (BEL)



TECHNOLOGY DOMAIN
Cybersecurity & Warfare

PRODUCT OVERVIEW

SecneurX Email Security is an AI-powered threat prevention solution that protects organisations against phishing, impersonation, and Business Email Compromise (BEC) with full data sovereignty and no dependency on foreign cloud jurisdictions. It natively integrates sandboxing that defends against zero-day and targeted attacks, while proactive attachment sanitisation, powered by Content Disarm and Reconstruction (CDR), neutralises hidden threats before they reach the inbox.



IDEX WINNER
SecneurX Technologies
Private Limited



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TECHNOLOGY DOMAIN
Cybersecurity & Warfare

ATTACK SURFACE MONITORING TOOL

CHALLENGE CATEGORY **DISC 9**



PROCUREMENT AGENCY
Bharat Electronics
Limited (BEL)



TECHNOLOGY DOMAIN
Cybersecurity & Warfare

PRODUCT OVERVIEW

Seconize Technologies Pvt. Ltd. offers the DeRisk Center, an automated, continuous, and unified SaaS platform designed for IT risk assessment, vulnerability management, and Governance, Risk, and Compliance (GRC). It proactively identifies weak points and continuously monitors assets to improve an organisation's overall cyber security posture.



IDEX WINNER
Seconize Technologies
Pvt. Ltd.



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TECHNOLOGY DOMAIN
Cybersecurity & Warfare



INNOVATE



INDIGENIZE



INTEGRATE

POWERING THE FUTURE OF INDIAN DEFENCE

| www.idex.gov.in |

FRIEND OR FOE IDENTIFICATION SYSTEM

CHALLENGE CATEGORY DISC 3



PROCUREMENT AGENCY
Indian Army



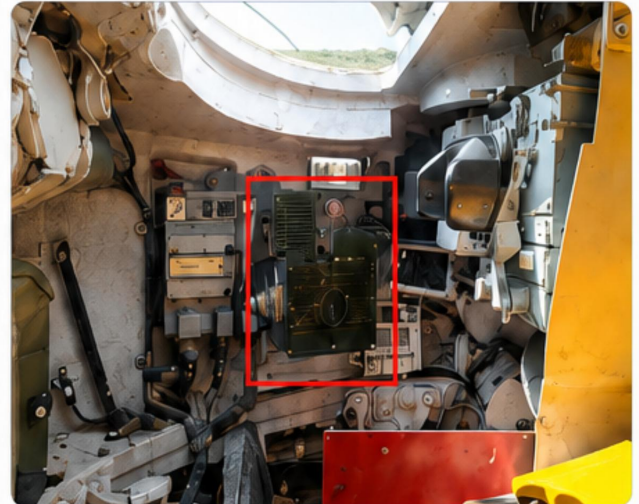
TECHNOLOGY DOMAIN
Combat Support System



PRODUCT OVERVIEW

Identification of Friend or Foe (IFF) system to enhance battlefield safety for mechanized and armoured units. It addresses a critical gap in combat awareness by accurately identifying friendly assets to reduce instances of fratricide.

- **Target Verification:** The IFF solution empowers tank and armoured fighting vehicle (AFV) crews to instantly identify whether a target is friendly or hostile.
- **Integration:** It integrates smoothly with existing equipment, such as vehicles' Laser Range Finder (LRF) and targeting systems, using a secure interrogation and response mechanism.
- **Situational Awareness:** Provides commanders with an accurate spatial understanding of the battlefield.



IDEX WINNER
Navyug Infosolutions
Private Limited



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TECHNOLOGY DOMAIN
Combat Support
System

INDIGENOUS & COST-EFFECTIVE SOLUTION FOR DEVELOPMENT OF AXIS MEMS GYRO

CHALLENGE CATEGORY DISC 6



PROCUREMENT AGENCY
Bharat Electronics Limited (BEL)



TECHNOLOGY DOMAIN
Electronics, Communication
System and Surveillance

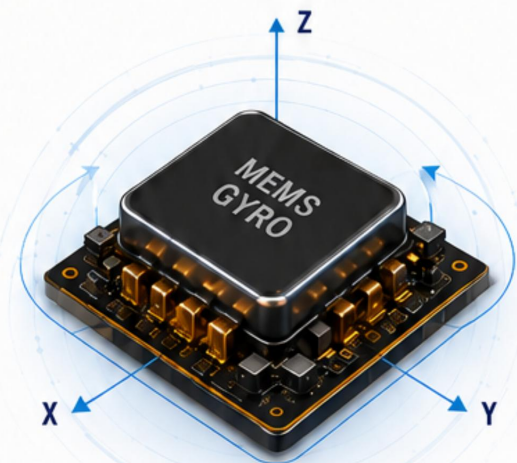


PRODUCT OVERVIEW

Single-Mass Fully Decoupled Gyroscope built on a Silicon-on-Glass (SOG) process using a high-Q factor design.

The technical approach focuses on specific engineering domains:

- **Vibration & Shock Hardening:** Utilize substrate - decoupled architecture alongside a dual-mass or quad-mass symmetric MEMS layout. This cancels common-mode accelerations caused by shocks or vibrations.
- **Low Bias Drift & Noise:** Implement closed-loop readout and electrostatic mode-matching techniques using high aspect-ratio single-crystal silicon (HARPSs).



IDEX WINNER
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TECHNOLOGY DOMAIN
Electronics, Communication
System and Surveillance



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AI IN SCM & HEALTH MONITORING SYSTEM

CHALLENGE CATEGORY **DISC 1**



PROCUREMENT AGENCY
Indian Navy



TECHNOLOGY DOMAIN
Artificial Intelligence & Machine Learning

PRODUCT OVERVIEW

Traditional aircraft maintenance is often reactive and schedule-driven, resulting in avoidable downtime and inefficient troubleshooting. Condition Based Maintenance (CBM), enabled by Health and Usage Monitoring Systems (HUMS), continuously monitors equipment health, predicts potential failures, and facilitates proactive maintenance to improve aircraft reliability and mission readiness.



- REAL-TIME MONITORING
- AI DIAGNOSTICS
- PREDICTIVE ANALYTICS
- PROACTIVE MAINTENANCE



IDEX WINNERS
Radome Technologies And Services Private Limited



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MOTION PATTERN CLASSIFICATION ON ONLINE / ACTIVE DATA – TRIDENT: MARITIME DOMAIN AWARENESS PLATFORM

CHALLENGE CATEGORY **DISC 5**



PROCUREMENT AGENCY
Bharat Electronics Limited



TECHNOLOGY DOMAIN
Electronics, Communication System and Surveillance

PRODUCT OVERVIEW

Trident began as a motion pattern classification system for active vessel data, developed in under 18 months. Following its initial procurement by Bharat Electronics Limited under the iDEX program in January 2024, Blurgs expanded the solution into a full-fledged dual-use domain awareness platform.

Today, Trident fuses AIS, Radar, SAR, EO/IR, EW Systems, RFINT, SIGINT, OSINT and other data sources into a unified intelligence layer for maritime, defence and commercial operations. For defence, it enables real-time situational awareness across land and sea, supporting detection of dark ships, spoofed vessels, border encroachments, hidden emitters and suspicious activity in critical regions.



IDEX WINNERS
Blurgs Innovations Private Limited



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from innovation to induction.*



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- While every effort has been made to ensure the accuracy of the information presented, technical specifications, procurement status, product configurations, contact details, and other particulars are based on information provided by the respective iDEX Winners and are subject to change without prior notice.
- The images included in this catalogue are representative in nature and may not depict the final production configuration or operational deployment of the respective systems.
- Inclusion of any product or technology in this catalogue does not constitute certification, endorsement, or guarantee by the Ministry of Defence, Defence Innovation Organisation (DIO), Department of Defence Production, or Government of India.



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Ministry of Defence, Government of India

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