



iDEX Innovations for
Defence Excellence

PM Awardee 2021

DEFENCE INNOVATION ORGANISATION
(Under Aegis of Department of Defence Production)
Ministry of Defence, Government of India
New Delhi -110002

Date: 28-09-2022

Result of DISC 7.0 SPRINT (Indian Navy)

S. No	Challenge Name	Challenge No.	Winner Name	Company Name
1	Moisture wicking Hydrophobic Weapon Cover	1	Sai Teja Peddineni	Veera Tactical Dynamics LLP
			Swapnia Purecha	Swapscouture
2	Underwater Photography Noise Cancellation using Artificial Intelligence and Deep Learning	2	Vincent Franklin Michael Joseph Saravanan	Saira lot Solutions Pvt Ltd
			Sanketh S Huddar	TSC Technologies Private Limited
3	Axial flux motor based lightweight Electric OBM with optional fuel cells	3	Nishant Kalbhor	Bhorzvan Motors Private Limited
			Kiran Jadhav	Accurate Industrial Controls Pvt. Ltd.
4	Disposable Light Weight Drone (DLD) capable of providing the ground soldier with immediate situational awareness	6	Tanmay Bunkar	Botlab Dynamics Pvt. Ltd.
			Anirudh Reddy	Gayatri Digital Private Limited
5	Underwater Remotely Operated Vehicle (UWROV) for underwater inspection and repairs	7	Debendra Pradhan	Coratia Technologies Pvt. Ltd.
			Johns T Mathai	EyeROV (IROV Technologies Pvt Ltd)
6	Hardware enforced solution against advanced, persistent and coordinated attacks to prevent kernel mode malware	8	Dinakar Medavaram	Securweave Research Labs Private Limited
			Sai Vishnu Varma Kalidindi	M/S Paradigm It Technologies Private Limited
7	Submarine Voyage Data Recorder (SM-VDR)	9	Vishal Sonawane	Symtronics Automation Private Limited

			Shyam Kumar Singh	Elcome Integrated Systems Pvt Ltd
8	Development of Submerged Submarine Launched Expendable Bathythermograph (SSLXBT)	10	Athul Ram	Verdatum A.I. Private Limited
			Bramh Datt Awasthi	Whirlybird Electronics Pvt Ltd
9	AI Based FOD (Foreign Object Debris) detection and classification system for FOD management at IN Air Station	11	Amarjot Singh	Skylark Labs India Pvt Ltd.
			Anunay	Individual Innovator
10	Beamforming ASIC based Radar with massive MIMO technology	12	Sushil Eknath Ghule	Siliconia Technologies Pvt Ltd
			P Srinivas Raju	Jisnu Communications Pvt Ltd
11	AI based collision avoidance system for unmanned vessels	13	Kiran Jadhav	Accurate Industrial Controls Pvt. Ltd.
			Aditya Nawab	Robosys Automation And Robotics Pvt. Ltd
12	AI enabled automatic floatation device dispersal drone	14	Prakharnandi Srivastava	Aethrone Aerospace
			Nitin Katiyar	Raphe Mphibr Private Limited
13	Development of Hydro acoustic ASW Vector Sensors which can be used with drones	15	Anoop Anand	Altair Infrasec Pvt. Ltd.
			Rashi Mehrotra	Aikairos Pvt Ltd
14	Converting Oxygen torpedoes to UW targets for ASW training and practice torpedo firings	16	Trinadha Rao Lg	Ultra Dimensions Pvt Ltd
15	Blue green lasers for underwater applications	17	Vrinda Kapoor	DV2JS Innovation
			Uma Sudhindra	XD Systems
16	Reusable off-board Missile Decoy	18	Aman Virmani	Zoid Technologies Private Limited
			Siddharth Bhonge	Cyronics Innovation Labs Private Limited
17	Microwave Obscurant Clouds (MOC) which are programmable based on the threat	19	Tilak R	Schmick Tecnologia Private Limited
18	Portable RCS Measuring Device that is capable of independent operation and deployable from multiple platforms (ship, boat, UAV, etc.)	20	Sanketh S Huddar	TSC Technologies Private Limited
			Dhanesh Kurup	Individual Innovator
19	Autonomous Weaponised Boat Swarms	21	Trinadha Rao Lg	Ultra Dimensions Pvt. Ltd
			Mridul Babbar	Sagar Defence Engineering Private Limited

20	AI based Multi Radar Signal Conversion, Distribution & Multi Target Tracking for IN ships (particle Filter)	22	Aastha Verma	Tardid Technologies Pvt Ltd
21	Depth Based Positioning System to navigationally fixing position of Submarine	23	Nehruji Srimurugan	Launchtrax Private Limited
			Neeta Trivedi	Inferigence Quotient
22	AI based ship recognition software using image processing	24	Advait Kulkarni	Vasundharaa Geo Technologies Pvt Ltd
			Vineet Gupta	QED Analyticals LLP
23	Design a Tethered/ Expendable Submarine Communication Buoy	25	Siddharth Bhonge	Cyronics Innovation Labs Private Limited
24	Fire Suppressant material that can suppress fire in the initial stage only.	26	Falgun Doshi	Vimal Fire Controls Pvt. Ltd.
			Surendra Shedha	Motley Exim Co.
25	Multi Sensor real time monitoring of running machinery on-board submarine	27	Vineet Gupta	Qed Analyticals LLP
			Avinash Manerahimatpurkar	Resonatingmindz Pvt Ltd
26	Noise Augmentation Unit for masking submarine's own signature when operating within the vicinity of FFCs (Friendly Foreign Countries)	28	Chaitanya Chandel	Anawavevaruni Systems & Solutions
27	Smart, lightweight, retractable and easily deployable cable gangways for submarine shore supply	29	Manish Srivastava	Pine Automation LLP
			Vasudha Goray	Navnirmitti Composites Innovative Solutions LLP
28	Smart mobile units for shore supply and charging cable	30	Ganesh Suryawanshi	Combat Robotics India Private Limited
			Prathamesh Ramade	M/s. Innovative Systems
29	Non hull penetrating connectivity solution for submarines at harbour	31	Deepak Solanki	Velmenni Research And Development Pvt Ltd
			Chaitanya Chandel	Arbudamba Consultancy Pvt Ltd
30	Blue Green Laser Technology based on Light Detection & Ranging(LiDAR) to establish communication from a ship or an aircraft to a submarine	32	Uma Sudhindra	XD Systems
31	Development of Super Hydrophobic paint for torpedoes to reduce skin friction of water	33	Amit Kudva	Associated Plasmatron Pvt. Ltd.
			Surendra Shedha	Motley Exim Co.
32	30 mm proximity fuze for gun mounts	34	Amit Parasamal Borundiya	Vasbeam Pvt Ltd

			Vrinda Kapoor	Dv2Js Innovation
33	Long Range Communication Technology for locating torpedoes	35	Chaitanya Chandel	Anawavevaruni Systems & Solutions
			Venkatesh Prabhu	Beam Security Systems
34	AI Based Gun Parts Inspection System (software & hardware)	36	Aastha Verma	Tardid Technologies Pvt Ltd
35	AI Based barrel crawling Bot Inspection System (software & hardware)	37	Aastha Verma	Tardid Technologies Pvt Ltd
			Ameya Kandalkar	Bit Mapper Integration Technologies Pvt. Ltd.
36	Personal Locator Device with Fall Detection for Firefighters/ Damage Control Teams on-board ships	38	Thalansh Batra	Pareto Tree Private Limited
37	Smart Firefighting features to the existing Breathing Apparatus	39	Falgun Doshi	Vimal Fire Controls Pvt Ltd
38	Remote controlled NBC monitoring BOT using suitable sensors	40	Raja Mahbubani	Theta Controls Pvt Ltd
39	Development of low cost, indigenous Morpene compound	41	Shivaraman	Big Bang Boom Solutions Private Limited
			Capt Javed	Adisan Systems LLP
40	Axial motor based portable submersible pumps in order to sustainability reduce weight	42	Nishant Kalbhor	Bhorzvan Motors Private Limited
			Kiran Jadhav	Accurate Industrial Controls Pvt. Ltd.
41	Fire Fighting BOT to allow a user to control a fire fighter robot	43	Abhishek Modi	Swadeshi Empresa Private Limited
			Falgun Doshi	Vimal Fire Controls Pvt. Ltd.
42	Caged Drone with TIC for fire fighting in confined spaces	44	Vinayak Tsalla	Tsalla Aerospace Technologies Pvt Ltd
			Shivaraman Ramaswamy	Big Bang Boom Solutions Private Limited
43	Aerogel based Fire Fighting proximity suit for better efficiency in fire fighting	45	Falgun Doshi	Vimal Fire Controls Pvt. Ltd.
44	Instant Cooling Vest for fire fighters	46	Satyanarayana Kuchibhatla	Latent Heat2Comfort Technologies Pvt. Ltd.
45	Portable Hydraulic Metal Cutter	47	Anuj Agarwal	Aeromobix Systems Pvt Ltd
46	Indigenous Aluminised Fire Proximity Suit (AFPS)	48	Vasundhara Sharma	Individual Innovator
47	Portable rugged, waterproof and lightweight torch for DC/FF activities including underwater	49	B Satya Prashant	Nash Industries Pvt Ltd
48	Lightweight filtration based Breathing Apparatus	50	Amit Parasmal Borundiya	Optrel India Pvt Ltd
49	Long Range Communication for tracking and exchanging short	51	Amarnadha Reddy Mahasamudram	Lekha Wireless Solutions Pvt Ltd

	message between IN helicopter (Chetak) and the ship		Manish Bindal	DSE Technologies Private Limited
50	Lightweight Integrated indigenous ELINT/ COMINT system for NSUAS/ MULE Class RPA	52	Rekha Prasad	Nitrodynamics Aerospace And Defence Pvt. Ltd.
51	GNSS based 3-D helo approach and landing aid for IN helicopters for assistance in approach on landing in bad weather/ reduced visibility/ night at sea states	54	George Jacob	Next Defence Private Limited
			Anant Kamat	Parachute Technologies Pvt Ltd
52	Development of Shipborne lightweight integrated ESM cum COMINT system	55	Siddharth Bhonge	Cyronics Innovation Labs Private Limited
			Anupam Prasad	Ancor Research Labs Llp
53	Underwater Communication for Swarm of AUVs	60	Siddharth Jain	Yottec Systems Llp
54	Underwater Navigation System for AUVs	61	Rajesh Gandhi	Airbotix Technology Pvt Ltd
			Vishaal M K	Aerospace Engineers Private Limited
55	3D Forward Looking Sonar for surface platforms and Autonomous Underwater Vehicles (AUVs)	62	Vivek Bansal	PAN India Consultants Pvt. Ltd.
			Kamal Tripathi	NKM Tech Solutions
56	AI based adaptive noise cancellation for sonars of Autonomous Underwater Vehicles(AUVs) and ship borne sonar	63	Yogesh Karpate	Guardinger Technologies (Opc) Private Limited
			Chaitanya Chandel	Varuni Systems Private Limited
57	Autonomous Beach Check Survey Device	64	Sraddha Bose	Sagar Ship Repairers And Marine Services
			Aliasgar Calcuttawala	Saif Automations Services Llp
58	Electro Optical Infrared sensor system contained in an external Pod composed of a variety of sensors	65	Dr. Vrinda Kapoor	DV2JS Innovation
			Mr. Venkat Chundi	HC Robotics Pvt. Ltd.
59	Airborne high performance multi-mode Active Electronic Scanned Array (AESA) radar	66	Amit Parasamal Borundiya	Vasbeam Pvt Ltd
			Sanketh S Huddar	TSC Technologies Private Limited
60	Expendable Mobile ASW Training Target (EMATT), capable of simulating the sounds and movement of a real Submarine	67	Anoop Anand	Altair Infrasec Pvt. Ltd.
			Bramh Datt Awasthi	Whirlybird Electronics Pvt Ltd
61	Airborne high performance lightweight COMINT System	68	Anupam Prasad	Ancor Research Labs Llp
			Sanketh S Huddar	TSC Technologies Private Limited
62	ASIC based space Communication using software defined antenna	69	Sushil Eknath Ghule	Siliconia Technologies Pvt Ltd
			P Srinivas Raju	Jisnu Communications Pvt Ltd

63	Digital radio frequency memory (DRFM) based simulator on a drone for AC training and radar calibration	70	Siddharth Bhonge	Cyronics Innovation Labs Private Limited
			Dr Nagendra Babu Samineni	Zen Technologies Limited
64	AI based Remote Monitoring System to assess wear down of Outboard Shaft Bearing	71	Vishal Sonawane	Symtronics Automation Private Limited
			Yogesh Karpate	Guardinger Technologies (Opc) Private Limited
65	Autonomous starting, running and shutting down of a Diesel Alternator suitable for charging Lithium-Ion Batteries	74	Manoj Phutane	Kala Genset Pvt. Ltd.
			Dr. Porkumaran Karantharaj	The Incredibles
66	Propulsion System of AUVs	75	Vineet Upadhyay	Planys Technologies

1. Subject to validation of Innovator/Startup/MSME.
2. Subject to limit of maximum five contracts per Innovator/Startup/MSME as per iDEX norms as per last cutoff date.
3. Subject to fulfilment of other terms and conditions as per iDEX norms.