

## DISC 14 and ADITI 4.0 Challenges Technical Outreach Sessions

<b>Technical Outreach Session for challenges launched under ADITI 4.0 and DISC 14</b>					
<b>Meeting Link:</b> <a href="https://idex-dio.webex.com/idex-dio/j.php?MTID=m45c47a6e625cc315292bd19df24e8b71">https://idex-dio.webex.com/idex-dio/j.php?MTID=m45c47a6e625cc315292bd19df24e8b71</a>					
<b>YouTube Playlist Link:</b> <a href="https://www.youtube.com/playlist?list=PLY4qSKCsVrjKpLLu_tzTBeWRJk14591PA">https://www.youtube.com/playlist?list=PLY4qSKCsVrjKpLLu_tzTBeWRJk14591PA</a>					
Sr No	Services	Challenge Category	Challenge Name	Date	Timing
1	Indian AirForce	ADITI 4	Design, develop and manufacture indigenous re-usable High speed Expendable Aerial Target (HEAT) with EW capabilities which can simulate fighter ac profiles and can be employed to provide realistic target engagement for IAF fighter aircraft and SAGW systems	01-Apr-26	10AM-1PM
2			Air Launch Loitering Decoy (ALLD) EW		
3		DISC 14	Combat Controlling Simulator		
4			AR/ VR Armament training and demolition simulator		
5	Indian Navy	DISC 14	Secure indigenised AIS for Platform Identification	01-Apr-26	2PM-5PM
6			Development of EMP Payload for C-UAS		
7			Re-arming by Drone at Sea (Rearm-D)		
8	Indian AirForce	ADITI 4	Design and Develop an Effective Helicopter Mounted Counter-UAS (Unmanned Aerial System) System or Jammer to Neutralize and Disrupt UAS Threats in Military and Civilian Environments.	02-Apr-26	2PM-5PM
9		DISC 14	UAS-Borne NBC Detection Capabilities along with ALS equipped UAS (modular).		
10			Drone based calibration for MAFI navigational system.		
11			Man-portable (Manpack) Tactical Air Navigation (TACAN).		

12	Indian Army	ADITI 4	Autonomous Load Carrier Trucks for Indian Army Ops	06-Apr-26	10AM-1PM
13		DISC 14	Swarm Technology based Heavy Payload Logistics Drones with 200 Kg load capacity		
14			ALS / 2.5 Ton Vehicle Mounted Barrel Handling Swivel Arm		
15			Automatic Snow Chain System for Army "B" Vehicles		
16			Camouflage Concealment and Deception (CCD) against SAR Imagery		
17	Indian AirForce	ADITI 4	Helmet Mounted Digital Night Vision Device.	08-Apr-26	2PM-5PM
18		DISC 14	Ku band radar for drone detection.		
19			Integrated CUAS system on existing vehicle.		
20	Indian AirForce	ADITI 4	AI Based OSINT Analysis and monitoring system guidance and social media stacks.	08-Apr-26	10AM-1PM
21		DISC 14	Pan-IAF Wargaming tool.		
22			Automated Decision Tool, to conduct Helicopter and Fixed wing operations in Himalayan Belt of Indian region, based on the Weather Conditions of Passes and Valleys estimated by the module.		
23			Development of Next Generation Compact Universal Test Equipment (NGCUTE) for ALMs of IAF.		
24			AI based Airway assessment tool in Pre anaesthesia check-up.		
25	Indian Navy	DISC 14	Electro Magnetic Launch System for Maritime Operations	08-Apr-26	2PM-5PM
26			Development of Doppler Velocity		

27			Development of software for P81 Sonobuoy data		
28	Indian Coast Guard	DISC 14	Stern tube Shaft Seals for propulsion system onboard Sachet class ships	09-Apr-26	10AM-1PM
29			Fuel consumption optimization using AI-based tools		
30			Indigenisation & development of Integrated Bridge System (IBS) along with repair services		
31			Development of Indigenised Power Management System (PMS)		
32			Non availability of Indigenised Fire Detection System (FDS) installed onboard ICG ships (FPVs/ IBs)		
33			Indigenisation of Personal Locator Beacon (PLB)		
34			Maritime Security Analytics Software (MSAS) with Artificial Intelligence and Machine Learning for Coastal Surveillance Network of Indian Coast Guard		
35	Indian AirForce	DISC 14	Indigenous GIS based OFC Network Management System (NMS).	09-Apr-26	2PM-5PM
36			Indigenous High-capacity Ethernet LoS Radio.		
37			Indigenous Network Monitoring solutions.		
38			Secure information Exchange Platform for Military Units (SIEPMU) on public Network.		
39			Indigenous Dense Wavelength Division Multiplexing (DWDM).		
40			Development of Indigenous secure HDD with central management solutions.		

41			Indigenous Cyber deception Network		
42	Indian Navy	ADITI 4	Guided Long Range 76 mm Ammunition with Programmable Fuze	10-Apr-26	10AM-1PM
43			Ballistic Extended Range 76 mm Ammunition with Programmable Fuze		
44		DISC 14	Design and development of a universal digital gauge to monitor firing pin efficiency in weapon systems employing electrical and percussion mode of firing (torpedo tubes/gun mounts/rocket & chaff launchers)		
45	Indian Army	ADITI 4	Conversion of Tank T-72 into Autonomous Armoured Fighting Veh (AFV) Platform		13-Apr-26
46			Devp of Ramjet Powered Supersonic Loitering Munition Sys		
47			Devp of 125mm HEAT amn for T-72 & T-90		
48		DISC 14	SGL Launched Loitering Munition for Tanks		
49	Indian Army	DISC 14	Indigenous development and manufacturing of the Mirror Unit used in the Thermal Imager ESSA of Tank T-90	13-Apr-26	10AM-1PM
50			Indigenous Development and Manufacturing of Radiator Block Used For Ranging in the Range Finder Module Of Gunner Sight 1g46 Installed on the T-90 Tank		
51			Fire Control System for Sniper Rifle		
52			Fire Assistance System for Assault Rifle		
53			Weaponized HIVE of AI Enabled autonomous Robo Dogs for SF with manned & unmanned teaming		
54	Indian AirForce/Defence Space Agency	ADITI 4	Development of an Indigenous tool for Space domain training, Surveillance and Operations in IAF.		2PM-5PM

55			Miniaturization of Payloads (EO and SAR) for Small Satellites up to 180 Kg Class.		
56			Challenge title Development of High-Efficiency, Lightweight, Space-Grade Silicon-Perovskite Tandem Solar Panels (150 W Class) for Small Satellites (~200 kg class)		
57	Indian AirForce	DISC 14	Mobile ATC	15-Apr-26	10AM-1PM
58			Camou Solution for Solar Panels		
59			Retractable Mesh Door for Ac shelter		
60			Canopy Lift Check device		
61	Indian Navy	DISC 14	Safety Round Logging and Monitoring (SRLMS)	15-Apr-26	2PM-5PM
62			New Age DC Repair Kit		
63			Inflatable Hatch Sealer		
64			Fire Fighting Drone for High Rise Building		
65	Indian Navy	DISC 14	Design and Development of Control and Monitoring unit for MiG-29K aircraft engine	17-Apr-26	10AM-1PM
66			Sensing Transformer to Convert Angular Motion to Electrical Signals for MIG 29K Aircraft Engine		
67			Engine Pressure Transmitter for MIG 29K Aircraft Engine		
68			Universal fire sensor for MIG 29K Aircraft Engine		
69	Indian Army	DISC 14	AI Module for UAS for Autonomous Recognition, Identification and Targeting.	17-Apr-26	2PM-5PM
70			Modular and scalable multi-role ammunition for Unmanned Aerial Systems		
71			Development of Standard GCS for UAS		

72			AI Enabled Gun Area Recce Module		
73			AI Enabled Multi Agent Module for UAS Functions.		
74	Indian Army	DISC 14	Modular Soft-Kill & Hard-Kill Integrated Counter-Unmanned Aerial System (C-UAS) Kit	20-Apr-26	10AM-1PM
75			Development of an autonomous and portable Drone Interception System (The "Drone Catcher") for artillery guns.		
76			Heavy Load Carrying Drone with IC Engine		
77			3600 Situational Awareness Kit with Driver Assistance for Protected Mobility Vehicle		
78			Helicopter-Mounted Anti-Drone System		
79			Aircrew Protection Vest: Army Aviation Pilots		
80			Indian Navy		
81	Underwater Welding Electrode				
82	Non-Destructive Test for Weld Joints in Afloat Condition				
83	Indian Navy	ADITI 4	Diesel Engine Generator Exhaust System for Submarine	24-Apr-26	10AM-1PM
84		DISC 14	Design & Development of Sovereign Multi-modal Foundational Model		
85			Specialised Indigenised hardware, AI & storage computing based layer Solution for collating data from ships for Analytic & Deep Learning		
86	Indian Navy	DISC 14	Virtual Walkthrough Model for P-75 Submarines	28-Apr-26	2PM-5PM