

DIRECTORATE GENERAL, NATIONAL SECURITY GUARD



PRESS RELEASE

A two day NSG Raising Day International Seminar on the theme “Countering Emerging Terror/ IED threats by Harnessing Latest Technology” was conducted on 14 & 15 Oct at NSG Manesar Garrison. The primary objective of the seminar was to provide a common platform to various stakeholders including security agencies, security experts, security entrepreneurs and innovators, who are dealing with the rapidly evolving terrorist and IED threats using disruptive technologies to exchange ideas and formulate tactical counter plans. Shri Rajendra Khanna, Dy NSA, Government of India was the Chief Guest and delivered the keynote address.

2. The Seminar began on 14th with two panel discussion on Training of Security Forces in synthetic Training Environment through AI & ML platforms and Countering the threat of weaponised Drones, wherein prominent subject matter experts expressed their views. An equipment display was also organized in which domestic security entrepreneurs showcased the latest technology and trends in the fields of counter terror and Counter IED under Make in India initiative.

3. The second day of the seminar was exclusively devoted to the threat of IEDs, with subject matter experts from India and abroad discussing Global Perspective of IEDs and its Implications in Indian context followed by discussions on mitigation technique for Suicide Vehicle Borne IEDs (SVBIEDs) and Personal Borne IEDs (PBIEDs). Various case studies on Drone Terror attacks were also discussed and analysed by experts to bring out takeaways for security forces which will help in combating such incidents in future.

4. The valedictory address of the seminar was delivered by Air Chief Marshal V R Chaudhari, Chief of the Air Staff who also felicitated the young innovators in the field of Counter IED technology. The seminar culminated with the conduct of NSG HACKATHON, “DIGIRAKSHAK” focusing on harnessing technical prowess of bright innovators of India in security related equipment.

5. The event witnessed enthusiastic participation of 40 foreign delegates from various countries, large No of defence service officers, state Police officers, CAPFs, and representatives from security industry and think tanks.

COUNTER IED INNOVATION AWARDEES : NSG RAISING DAY INTERNATIONAL SEMINAR 2022

1. **Capt Kartik Yadav**, 17 Engr Regt conceptualized, designed and developed a Remotely operated mine detection system (RODS) to facilitate mine field breaching operations. The aim of this innovation was to employ a machine ahead of infantry columns to assist them in negotiation of enemy mine field with surprise and minimum casualty. For this operationally useful innovation Capt Kartik Yadav is being awarded with counter IED innovation award.



2. **Mr Nikunj Prashar**, founder and CEO Sagar Defence Engineering Pvt Ltd. Mr Nikunj has developed a multi-drone platform called 'Skydock'. The package consists of multiple drones having distinct functionality including, surveillance drone, net thrower drones and multiple kamikaze small drones. Skydock is a very promising innovation in countering rogue drones. For this futuristic innovation in counter drone field. Mr Nikunj Prashar is being awarded with Counter IED innovation award.



3. **Hav S Balamurugan** from 261 Counter Explosive Device Unit. Hav S Balamurugan developed a Wi-Fi based IED along with its jammer prototype. The IED when connected to internet through wi-fi, can be initiated from any corner of the world with a command device. This innovation has helped in awareness and sensitizing the troops to the risk of wi-fi based IEDs. For this educational innovation Hav Balamurugan is being awarded with counter IED innovation award.



**HAV BALAMURUGAN S
261 COUNTER EXPLOSIVE
DEVICE UNIT**

4. **Constable GD Santosh KK** (Faculty of Studies, Operational Directorate, IIM Pune). Constable GD Santosh designed a multipurpose backpack mini-ROV which is capable of pre initiating the IED having anti-handling mechanism and to help in demolition of the same from a safe distance. His innovation has significantly helped in alleviating the risk to the lives of Bomb Disposal technicians and other security personnel. For this operationally efficient innovation Constable GD Santosh KK is being awarded with counter IED innovation award.



**CT/GD K SANTOSH
IIM CRPF, PUNE**

5. **Mr Prakash Nanthagopalan and Mr Nabodyuti Das** from IIT, Bombay who have developed blast, ballistic and electromagnetic pulse resistant concrete (BBERC). The innovation was developed indigenously using locally available materials and was evaluated for blast resistance in shock tube at a peak pressure of 76 Bar. For this innovation Mr Prakash Nanthagopalan and Mr Nabodyuti Das are being conferred with counter IED innovation award.



**MR PRAKASH
NANTHAGOPALAN
IIT BOMBAY**



**MR NABODYUTI DAS
IIT BOMBAY**
