

Thursday, November 9, 2017

The Official Show Daily

DTI, Leonardo Ink MoU on AW101

By ADJ Team

Bangkok: Thailand's Defence Technology Institute (DTI) marked an important milestone here at the show with the signing of an MoU with Leonardo UK for the Helicopter Technology Transfer related to the potential purchase of AW101 helicopters for various roles.

According to Brian J McEachen, Head of Region-Asia & Oceania at Leonardo Helicopters Division, the agreement will see the transfer of technology to Thailand to support the AW101 fleet, should the government order the helicopters for use by the Police, Army, Air Force and Navy.

The signing of the MoU provides an opportunity for Leonardo to significantly expand its business with the Thai government and deliver in country maintenance, repair & overhaul (MRO) capabilities. The ceremony also symbolises the UK's commitment to strengthening its partnership with the Thai government and others in the region.

Brian told ADJ Today that the Leonar-



Alexis Hammer with Leonardo's Brian McEachen and DTI's Col. Asst Prof. Tawiwat Veerakklaew.

do is providing technology transfer for one helicopter family first to the Thai industry. When the industry has developed the capability and experience in

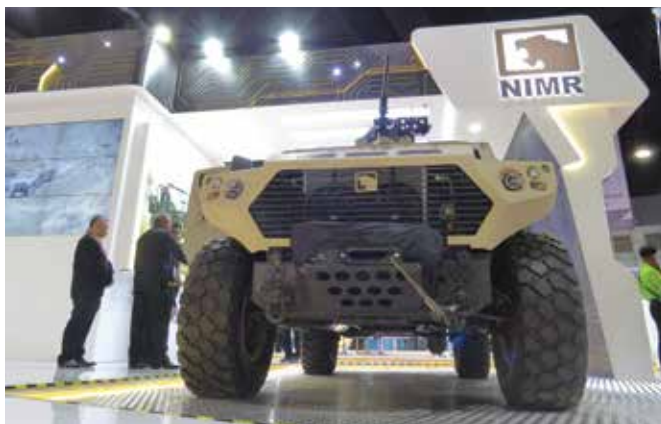
maintaining the AW101 helicopter, perhaps it could provide the service to its Southeast Asia's brethren eventually.

The agreement was inked between Brian, representing Leonardo UK, and DTI Acting Director General Col. Asst Prof. Tawiwat Veerakklaew, representing DTI. Regional Director Southeast Asia, UK Defence & Security Organisation, Department of Trade Investment, Alexis Hammer, witnessed the ceremony.

NIMR Seeks Partners to Expand Footprint in Asia

NIMR will soon kick-start its collaboration with Southeast Asian partners including Thailand's FTECH and Malaysia's DefTech, a company official said.

According to NIMR's Sr International BD & Sales Manager, Miles Chambers, the company will be sending an Ajban 4x4 tactical vehicle to the Royal Thai Army for trials. The



Ajban vehicle will be tested for suitability in various Asian scenarios and environment. The Malaysian Army too would receive an Ajban vehicle for testing on

a later date. Chambers also added that the collaboration would benefit both local partners as NIMR would later share transfer of technology and know-how.

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Nexter: Digital Solutions for Training and Battlefield

Aside from the heavy hardware such the artillery fire power and munitions, Nexter also specialised in digital solutions. Here, NEXTER Systems offers a wide range of Battle Management Systems (FINDERS C2 range) which includes SIT, as deployed by the French Army, and TIMS for export

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NIMR has been looking for Asian partners for a while now to further expand their reach.

Southeast Asia has increasingly becoming an important defence market, as militaries in the region are rapidly modernising their armed forces. ASEAN defence imports increase by 71% between 2009 and 2016. It is leveraging on this fact that NIMR is fast expanding its footprint in the region, as the company already has a strong reputation here. As NIMR's CEO, Dr Fahad Saif Harhara Al Yafei told ADJ Today, "we can expect a greater modernisation of land forces in the region as a key part of this increased spending, where there is a legacy of ageing ground vehicles offering little to no protection.

NIMR Automotive is the leading armoured vehicle manufacturer in the MENA region. Based in Abu Dhabi, United Arab Emirates, the company designs, manufactures and provide after sales support for a variety of battle-proven 4X4 and 6X6 armoured vehicles.

The first NIMR vehicle design was announced in 2000 by a joint venture of regional and UAE investors. NIMR Automotive was formally established in 2010 with the UAE's Tawazun Holding as the majority shareholder, and became fully operational in 2012.

Since, NIMR has witnessed rapid growth, becoming the leading light and medium-weight wheeled military vehicles manufacturer in the MENA region and based on its current order books, now ranks in the top five OEMs globally. The company has completed the construction of the new Engineering and Manufacturing Centre, bringing state-of-the-art armoured military vehicle manufacturing to the UAE. ●



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Mitsubishi Electric Jamming System Can Take On Unlimited Drones

Aside from the Turks, the Japanese too developed their own version of the anti-drone system called the Drone Deterrence System. To recap, anti-drone system aims to neutralise UAV threats in urban and rural environments as today's terrorist are getting smarter and have started deploying armed drones to attack critical places from a distance.

The system was developed in 2014 and made its first sale in Japan in 2016 by Mitsubishi Electric. Showcased at the recent LIMA 2017, Mitsubishi Electric continues to look at the international market and made its third show here in Thailand. According to a Mitsubishi Electric representative, there have been several inquiries by the Thai government and other ASEAN countries.

In terms of specs, the system has a 'one-touch instant jamming mode' and it is lightweight enough to be moved by one person. The antenna unit and tracking unit weighs 24kg, excluding the tripod/prong and other accessories. Its detection and jamming range is approximately 1km, but that might change depending on the operational circumstances. The control unit can be incorporated into a simple laptop computer. The detection and jamming radio frequency detection specifications cited by the company are 920MHz, 2.4GHz and 5.7GHz. Pricing was not revealed, but the company representative said the system is affordable compared to other competing systems. According to Mitsubishi Electric, the Drone Deterrence System is capable of knocking out several or unlimited drones at a time if the frequencies are all the same. The jamming radius could be wider if more of the system is placed at strategic areas. ●



continued from page 1...Nexter....

FINDERS C2 BMS

The FINDERS C2 Battle Management Systems (BMS) are dedicated to combined forces in contact for command levels of brigade and below. The BMS fulfils a major objective such as connecting vehicles, weapons systems and infantrymen to ensure continuity of mounted-dismounted combat; it shares tactical information (orders, reports, demands) and tactical situations (friend and foe positions—terrain—logistics).

Nexter Systems FINDERS C2 offer is relevant and appropriate to the new needs of customers in France and in export markets. It includes versions adapted to the different missions of armies (cavalry, artillery, infantry, NRBC, intelligence) across the entire chain of command.

FINDMP Digital Sand Box

One of the main purpose for NEXTER here in D&S 2017 is to introduce the FINDMP innovative Digital Sand Box to the Asian market. FINDMP is a complete system for mission preparation. It is composed of two interoperable tools: a Digital Sand Box (DSB) for command levels from 6 to 3 and several digital tablets dedicated to tactical analysis (Tactical Analysis Systems, TAS) for command. Nexter's FINDMP is used for military decision-making process during operational engagement and during instruction for the tactical know-how. It is a digital solution that offers modularity and immediate reversibility to follow the pace of maneuver (planification, preparation and



conduct). FINDMP eases combined arms coordination and offers indirect fires support functionality such as aircraft and artillery and reduces the delay of military decision-making process being interoperable with new command and control systems (analysis, decision, communication) and with simulation means. Training, simulation and exercises to benefit the FINDMP DSB system. Though looking the large screen is an advantage but if needed too, the DBS is also available in mobile packs such the Panasonic rugged book and can be installed in most command vehicles.

CAESAR Simulator

NEXTER also showcased one of their latest training modules, the CAESAR Simulator by using the ever popular life virtual reality goggles. In the pre-firing scenario, the trainee/wearer is given the options of being one of the five crew prepping the CAESAR for firing. Maintenance crew too are part of the available options. Here, the author was given the chance of being the commander and managed to fire the artillery without any "mishaps". The simulator is currently in the service of the French 7th Armoured Brigade and both the Thai and Indonesian Army have shown interest. ●



Have Bike, Will Fight

Among the battle kits being displayed at the Bangkok show is the humble motorcycle -- the original modern workhorse of war which has gone through various battlefields ever since the machine was invented. One machine being displayed is the Kawasaki KLX 250cc multi-purpose motorcycle based on the commercial dual-purpose dirtbike.

Modified with infrared and thermal insulation materials to lower its battle signature, the bike is fitted with specialised rack carriers and handle bar protection add-ons. The engine is also well-protected by a bash plate, while the lights have protective mesh. The motorcycle is modified by Thai company Envostar using high-tech materials, including those from Dupont, parts of which can protect critical areas of the bike up to level 2 protection from bullets.

The racks and fittings atop the handle and sides of the machine can integrate pistols and assault rifles. The colour of the bike can be made to suit the units that will be using them from flat black, jungle green to digital camouflage patterns.●



The rugged KLX-250 Kawasaki dirt bike



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ASELSAN Reactive Jammer System

Improved Explosive Devices (IEDs) and drones are widely used in terrorist actions and unconventional warfare. They are deployed to distract, disrupt or delay an opposing force facilitating the attack or to destroy military/civilian personnel and VIPs. ASELSAN has been working on countering IED threats since 1998 and accumulated an outstanding experience in the design, engineering, production and integration of manpack and vehicle-type jammers. As a result of these efforts, ASELSAN is capable of providing its customers with software-defined and reactive jammers for manpack, vehicular and static applications in the fight against widely-used IED and drone threats.

Vehicular, Portable, or Manpack

ASELSAN's field-proven and mature GERGEDAN (Vehicular), KANGAL (Portable) and KIRPI (manpack) jammers are being delivered to Turkey and international customers for almost a decade to protect team of soldiers, Special Forces, convoys, VIP vehicles and high value assets against remote-controlled improvised explosive device (RCIED) by jamming the communication signals between the transmitter and receiver units of the RCIED. In addition to these system solutions, ASELSAN has developed IHASAVAR (handheld) anti-drone jammer, in response to growing threats posed by the proliferation of drones, dis-

rupting their remote control, data link, and satellite navigation frequencies, which will effectively put an offending drone out of action.

Customised to Efficiency

With the utilisation of modular multi-band RF transmitter and digital frequency synthesis techniques, all of above-mentioned ASELSAN's software-defined jammer systems create effective radio frequency interference to prevent the triggering of all kind of RCIEDs and drones. The pre-defined algorithms in ASELSAN allow each output channel of the systems to jam multiple RCIEDs and drones simultaneously. All the systems are fully programmable over the whole frequency band that allows customisation flexibility for specific operational and tactical requirements as well as equipped with dynamic communication channels enabling friendly forces to communicate among themselves.

Greater Range

ASELSAN's SAPAN (vehicular) and OPKAR (manpack) reactive jammers have got the ability to quickly survey the frequency spectrum and react immediately on the active signals. In a reactive jamming application, the jamming signal is transmitted only at the frequencies acquired during the "look-through" process, which is accom-



plished by turning the jammer transmitter off for a short period and measuring the spectrum to check whether the target has stopped transmitting and/or a new threat has emerged. The effective protection range of a reactive jammer is much greater than that of an active jammer with the same output power. ASELSAN's reactive jammers can radiate approximately 1,000 times more RF power than active jammers in the market. ●

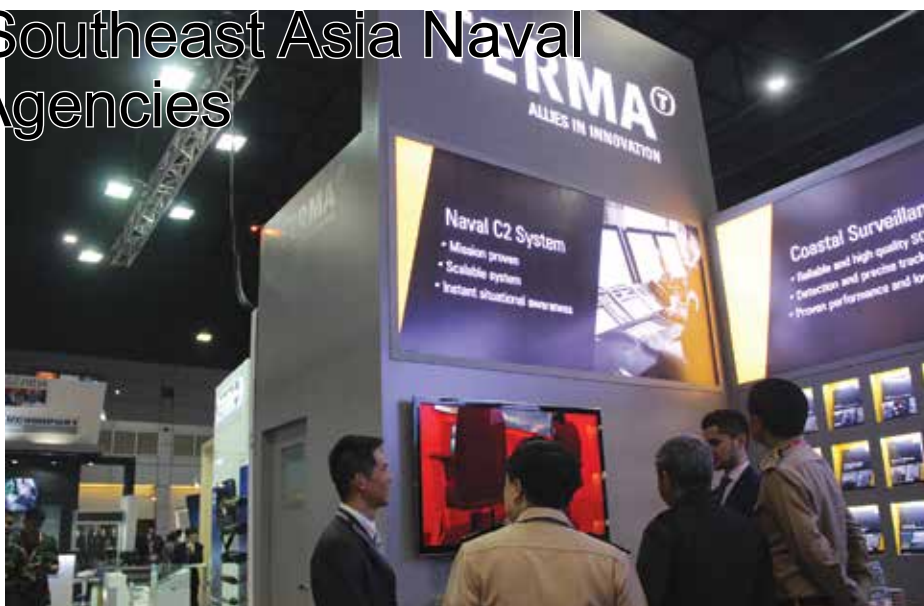
TERMA Targets Southeast Asia Naval and Para Military Agencies

Southeast Asia's dynamic economy and rapid military modernisation efforts have made this region an important market for the global defence industry. What more, with countries in this part of the world focusing more on maritime and border security, technology in these areas are heavily being sought after.

Leveraging on this fact, Danish firm TERMA is confident that its maritime solutions just fit the bill for the job. Here at the show the company highlights the capabilities of the Coastal Surveillance & VTS system and the Naval C2 System.

The Coastal Surveillance & VTS system is designed for maritime enforcement agencies. It features reliable and high quality SCANTER radars for detection and precise tracking of targets. The platform's proven performance and low life-cycle cost is sure to support the purpose of its design.

Meanwhile, the mission-proven Naval C2 system is a scalable platform. It provides instant situational awareness, suitable to support the naval forces in this region to protect seas lines of communication.



Success in Southeast Asia

TERMA has been putting a credible presence in the Asia-Pacific for the past 10 years. Its systems and solutions have been enjoying wide success in the Southeast Asian market, widely used by the naval and coast guard agencies in this region, including the Malaysia Coast Guard. TER-

MA's Coastal Surveillance & VTS system which is widely used for maritime security, has been employed in many countries here, including Malaysia.

According to TERMA's official, the Naval C2 system has been employed by the governments here. ●

Up Close with **Marco Galletto**, Leonardo VP Asia and Oceania

ADJ Today: What products are you showcasing here at the Bangkok show?

Marco Galletto: First of all, we are present at the show because of our big interest in the Thai market. We believe in the expansion of this market, and this is the reason that we exhibit at this important exhibition. We are focusing on our ground-based and naval radar here at the show, which we are proposing for the concept of the new ship of the Italian Navy, the multi-purpose patrol vessel.

On the ground-based radar, we are putting to the fore the RAT31DL air defence radar system, which we have sold to Thailand in 2015. We are also displaying the KRONOS land multi-functional radar, which we also sold to the Thai government. One of the platforms is for the Royal Thai Army while another radar is for the Royal Thai Navy.

We chose to highlight the radars to support the interest of the Thai military in these systems to support their modernisation objectives. We are proud of our family of KRONOS radar system, a multi-functional, fully AESA radar. We have land version of

the radar, which is in the mobile configuration. To fulfil the requirements of the naval forces, we have the KRONOS Grand naval, which is on display, together with the RAT-31DL radar system. We also have a complete range of SDR radios. Let just say that we provide complete solutions, from the dismounted soldier to the command corps.

ADJ Today: What is Leonardo's competitive edge among others?

Marco Galletto: Leonardo has the advantage because we have the in-house capability. We do not depend on third parties. We also heavily invest in research and development to keep our equipment up to the standard to fulfil the requirement of the militaries worldwide. Thanks to the in-house capability, we can provide flexible solutions to the customers. We know the technology, we manage the technology, and we can tailor the technology to the specific customer requirements. Flexibility is our strongest points, let just say that.

ADJ Today: Are there any specific programmes for land defence that you are



working on in Southeast Asia at the moment?

Marco Galletto: Besides Thailand, there are several programmes that Leonardo is working on in this region at the moment. Of course, Thailand is one of our important customers in this part of the world. We are also actively marketing our solutions to other countries here in the Far East, and in the Asia-Pacific as a whole. In Southeast Asia, there are already a number of countries that have already been using, and are interested to use our technology to meet their requirements. •



Pictorial Highlights





AR Platforms From **Rainier Arms**

Rainier Arms International is an exporter for US-made high-end and premium AR platform, parts and accessories. It also sells pistols, precision firearms and components. Founded in 2005, the Washington-based company already has about 2,500 unique products, and growing. "Our technical advisory team consists of enthusiasts, law enforcement and military personnel that

continue to make our innovative offerings unique," said Alex Chongmontre, the company's director of International Operations.

"We have exported our products to Europe and Canada for the past 12 years and we are now planning to export our products to the southeast asian region including meeting government requirements," he said. ●



Defense & Security 2017: An Impactful Showcase

By all accounts, this year's Bangkok Show is a spectacular success with record-breaking number of visitors which consist of the region's military top brass and high-ranking defence officials that made their big presence, and not forgetting the members of the business community. This could not be achieved without the efforts and support from Thailand's Ministry of Defence, the Royal Thai Armed Forces, various government bodies and law enforcement

agencies, and last, but not least, the organisers, GML Exhibition (Thailand) Co Ltd.

"Krob-Khun"
We look forward to see you again
at



A big round applause should also be directed to all the authorities involved in the show and the organisers' supporting personnel. **Asian Defence Journal** would like to extend our heartfelt thank you to everyone who has made this show a simply impactful exhibition. Although there will always be small things here and there, we will always be on our guards to improve ourselves better in the future.

Thank you, and See You at Defense & Security 2019! ●



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