

Tuesday, November 7, 2017

The Official Show Daily

Partnership to Respond to Unpredictable Challenges



By MG Mahmud

BANGKOK: Partnership and cooperation between the armed forces is important to respond to the unpredictable challenges of the future, Deputy Prime Minister and Defence Minister Gen Prawit Wongsuwon said.

Besides partnership, he said: "We all need to equip ourselves with capabilities that can respond to the multi-dimensional and trans-

national challenges with the highest level of technologies available."

He said this in his welcome message to the Defense & Security 2017 show which opened today at IMPACT Muang Thong Thani, north of here.

Meanwhile in his speech during the opening of the event, Gen Prawit said that the success of previous events have proven that Defense & Security is one of the most

important tri-service military and internal security exhibitions in the region.

The event showcases advanced security-related equipment and technologies from countries around the world, covering all dimensions of security. As the Chairman of the Organising Committee of Defense & Security 2017 had reported, Gen Prawit said that the success of this year's event is due to the participation of many Ministers of Defence,

continued on page 4

Aselsan Showcases Technology Rendering UAVs Useless

After a successful debut in the Mediterranean region not while back, the Turkish company Aselsan showcased its iHTAR Anti-Drone System for the second time to the Asian regions at the Bangkok's defence show.

Using Aselsan's latest technology, the new anti-drone system neutralises UAV threats in urban and rural environments. The system is developed to protect high-security facilities, such as military bases, airports and also highly populated events. Current-

ly, terrorists are adapting to newer fighting methods, deploying make shift drones that are equipped with IED to attack critical places from a distance.

The iHTar system is designed to disrupt remote control, data link, and satellite nav-

continued on page 4

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UK Promotes Industrial Partnerships



UK companies involved in producing some of the most cutting-edge defence technologies in the world are exhibiting here at the show, some returning from the 2015 edition. The theme is "Partnership" as UK companies look to continue to build new industrial joint ventures in Thailand and the region. The attendance by UK companies at the exhibition reflects the continuing importance of Thailand as a longstanding defence industrial partner for the UK.

British Army soldiers from the Department for International Trade's Defence and Security Organisation (DIT DSO) will be also be on hand to demonstrate a range of UK

capabilities, some for the first time in Asia.

DIT DSO Director for Southeast Asia, Alexis Hammer said: "Defense and Security 2017 is an important opportunity for attending UK companies to look at joint ventures and industrial partnerships in Thailand and throughout the region. We are delighted to be able to showcase some of the UK's world-leading defence technologies at this important exhibition."

Some of the UK companies/organisations exhibiting include SEA, BAE Systems, Chemring TS Ltd, Leonardo UK, Easat Radar Systems, Thermoteknix and Scott Safety. ●

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Production Team: William Chan, Mohd Rezualirwan, Fatin Bazilah

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Executive Publisher: Syed Mohd Fazilla

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continued from page 1...Partnership to Respond..

Chiefs of Armed Forces, high-ranking government officials, delegations and exhibitors of military, internal security and disaster relief equipment manufacturers from all over the world.

“On behalf of the Ministry of Defence, I would like to take this opportunity to truly thank the Ministers of Defence, Chiefs of Armed Forces, high-ranking government officials, ambassadors and distinguished guests, including exhibitors and manufacturers for your continued participation and support in today’s event,” he added.

Gen Theppong Tippyayachan, Permanent Secretary for Defence said, “The concept of this event hopes to create an atmosphere of cooperation, networks and the ability to exchange knowledge that would pave way for sustainable cooperation between individuals and organisations.”

He said more than 200 official delegates consisting of Ministers of Defence, Chiefs of Armed Forces and High-Ranking Govern-

ment officials from 35 countries along with over 400 military and internal security equipment manufacturers from 40 countries are in attendance.

Beside the exhibition, Gen Theppong, who is the chairman of Defense & Security 2017 Organising Committee, said there will also be an International Conference on “Military Readiness for Humanitarian Assistance and Disaster Relief Operations” and other seminars presented by exhibitors and manufactures as well as from renown experts in the field of defence.

The event also offers participants not only the opportunity to view and keep abreast with the latest defence technologies, innovations and developments but also provides the chance to establish and strengthen relationships with government officials, business representatives and armed forces personnel from all over ASEAN and beyond, he said.

Show organiser, M. Gandhi in his message said that Defense & Security is now a world recognised success and certainly one

of the most important tri-service military exhibitions in Asia. “The theme for the 2017 show is based on the concept “The Power of Partnership” which focuses on international cooperation between nations and the region by establishing contacts and professional business networks for defence and security manufacturers and global decision-makers.

“With full support from the Thai Ministry of Defence in the region, the show presents top business opportunities for manufacturers to showcase their products and technology to decision-makers,” said Gandhi who is Managing Director of GML Exhibition (Thailand) Co., Ltd.

He added that with ASEAN defence spending having increased for over a decade and further increases projected for the coming years, the region’s economy is booming and ageing equipment needs to be upgraded. As a result, ASEAN presents huge business opportunities across the board for manufacturers in defence and internal security industry. ●



continued from page 1...Aselsan.....

igation frequencies, which will effectively render an offending UAV uncontrollable and useless.

The system is available in various configurations either fixed or deployable on mobile platforms. iHTAR uses as its primary surveillance sensor, ACAR which is capable of detecting and tracking UAV’s day and night all weather conditions on 24-hour basis.

For total protection, iHTAR uses GERGEDAN to create protection against all known mini-UAV/model aircraft attacks with its specially designed antenna patterns creating semi-spherical protection umbrella. GERGEDAN jammer system covers the whole frequency band and the system is also effective against multiple threats and

swarm attacks.

There are two options available to kill a UAV: a softkill and hardkill method. The softkill method uses the jamming system to neutralise the target while the hardkill works in tandem with remote controlled weapon system (RCWS) to totally destroy the UAV.

Aselsan also introduced a much more mobile system known as the IHASAVAR, which consists of one 11.5kg backpack that houses two lithium-ion batteries, and a handheld 2kg ‘rifle’, which features a directional antenna that will be aimed at hostile UAVs. According to specifications provided by the company, the system can operate in temperatures ranging from -30°C to 50°C and an operation time of about 1.5 hours.



Currently both the iHTAR and the IHASAVAR system are currently in use with the Turkish Armed Forces to protect the palace and prisons. The company is currently eyeing the wider Asia-Pacific region as a potential market for the system including Thailand and other countries. ●



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Moving Obstacles with FNSS' AACE

AACE is an amphibious, armoured, tracked, combat earthmover; designed for the preparation of river banks during river assault crossing operations. It is capable of performing bulldozing, rough grading, excavating, hauling, and scraping operations. It is also used to prepare fire positions for MBTs and IFVs during defensive and offensive combat operations. One of the most important and unique features of AACE is its amphibious capability.

The AACE has proven itself during recent combat operations by the Turkish Land Forces which demonstrated the capability of the vehicle, in supporting dismounted and mounted operations in urban environments.

For Hard and Rough Use

As compared to standard heavy-duty vehicles (commercial bulldozers and crawlers), AACE has the capability to take in ballast from the soil ground to its ballast canister. When necessary, the vehicle is also capable of discharging its ballast canister at the end of the operation. In standard heavy-duty vehicles, the dozer blade is hydraulically operated while the vehicle is stable.

Another advantage of AACE is that, with its adjustable hydraulic suspension system, the front section of the vehicle can be shifted to the vertical axis. This capability enables the blade or ballast canister to make contact with and penetrate the soil. As a



result, more efficient shovelling and ploughing can be performed. These activities can also be performed while the vehicle is on the move.

It can be operated with a crew of two. In addition, AACE is fitted with modern electronic systems such as day and night cameras, multi-function LCD monitor and air-condition system.

Amphibious Capability

To provide the amphibious capability, together with the mine and ballistic protection requirements, AACE hull structure is made of special ballistic aluminium. Its modern hydraulic system and power transmission enables the vehicle to operate with

higher manoeuvrability and operational performance.

AACE's power pack consists of fully automatic transmission, coupled with a diesel engine. The vehicle is capable to speed up to 45km/h on land. It can travel safely in river streams against current speeds up to 1.5m/sec with 360° high-manoeuvrability through its two water jets, placed at the rear section on both sides of the vehicle.

AACE was manufactured as a local development and manufacturing project of FNSS. Today the AACE is in service with the Turkish Land Forces, and are used in various missions. It has already become combat-proven under operational conditions. ●



Thailand Interested in More **Russian Rotorwings**

In a bid to beef up its defence capability, Thailand is rigorously looking at many more defence assets and equipment. The kingdom is certainly diversifying the manufacturers in its procurement list, and equipment from Russia are also said to be highly considered. Thailand is heavily looking at modernising its rotorcraft fleet. In August, Russian Helicopters holding company said that Thailand is one of the countries that

Royal Thai Army's Mi-17V5.



Republic of Korea Air Force's Ka-32.

have signed the contract for the purchase of Ka-32 helicopters. Thailand is also said to be looking at the purchase of Mi-17V-5 helicopters which it intends to use for handling the consequences of natural disasters and carrying troops.

In February, *Sputnik News* reported that Rostec state corporation's international cooperation head Viktor Kladov have said that Russia plans to deliver four military Mi-17V5 transport helicopters to Thailand. "The Thai side is very happy with the Mi-17V5s and we have new orders for them... Bangkok is buying more. As far as I know, they are talking about four helicopters," Kladov was quoted as saying by the news agency. It was reported in February that Thailand planned to order 12 Mi-17V5s from Russia to replace US-made CH-47D helicopters. Thai forces is said to be operating six Mi-17V5s. ●



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T129 ATAK New Generation Combat System



The T129 ATAK advanced attack and tactical reconnaissance helicopter, developed by Turkish Aerospace Industries Inc (TAI), is a new generation, tandem-seat, twin-engine helicopter, specifically designed for attack and reconnaissance missions and has been optimised for “hot and high” requirements of the Turkish Land Forces.

Having been derived from the combat-proven A129CBT, this new state-of-the-art design accommodates new generation engines (LHTEC CTS 800-4A), avionics, electro-optics and weapon systems, a modified airframe and uprated drive train and tail rotor. In addition, it provides key characteristics including long range and three-hour endurance, day and night all environment capability, effective, precise weapon systems that provide combat superiority, low visual, aural, radar and IR

signatures, a high level of crashworthiness and ballistic tolerance that provide high battlefield survivability, excellent situational awareness through good visibility arcs and fully integrated mission and communication systems.

Best in Its Class

The platform also decreases crew workload through superior performance, agility and platform stability, as well as handling qualities, reduced preparation time augmented by off-board Mission Planning System and reduced takeoff time and low operating cost through effective design and on-condition maintenance.

With the best power-to-weight ratio in its class, T129 ATAK has unique survivability features and asymmetric weapon delivery capability. The effective and precise weap-

on capability includes a 20mm turreted gun with a 500 round capacity, 70mm unguided rockets, UMTAS guided anti-tank missiles, and CIRIT 70mm guided air-to-ground missiles and Stinger missiles for air-to-air purposes.

Operational by Turkish Land Forces

Within the scope of the programme, 59 (+32 optional) T129 ATAK helicopters will be delivered to the Turkish Land Forces Army Aviation Command. As of press time, 24 T129 ATAK helicopters have been delivered and over 11,000 flight hours were accumulated as they are providing the required firepower and helicopter support in operational theatres.

After successfully satisfying the domestic requirement of the Turkish Land Forces, TAI is now heading to turn existing export potential into international sales. As an outcome of the endorsement provided by the Turkish Armed Forces reference, the already strong international interest on the T129 ATAK as a superior alternative is expected to intensify.

Until now, as an internationally deployable asset, the T129 ATAK helicopter has earned many badges by being successfully deployed for several tests and demonstrations in various locations of the world including Turkey, Poland, Germany, Italy, South Africa, Bahrain, United Kingdom and Pakistan. Dubai was the latest stage for the T129 ATAK, where the visitors of the Dubai Airshow 2017 had the chance to observed the manoeuvrability and agility of the aircraft, through extensive flight demonstrations. ●



PBS Velka Bites: Czech's Engine and APU Specialist

PBS Velka Bites (PBS) has been a leading manufacturer of products and equipment for the international aerospace industry for 50 years. The aerospace programme at PBS began with the manufacture of auxiliary power units (APU) and environmental control systems (ECS) for aircraft and helicopter manufacturers around the world. After gaining valuable experience in these areas, the company expanded its product range to include main power units – turbojet, turboprop and turboshaft engines for UAVs and small aeroplanes and helicopters.

Turbojet Engine TJ80

This recently developed jet engine by PBS is a single-shaft engine with a single-stage radial compressor, annular combustion chamber, single-stage axial turbine and stationary exhaust jet. The rotor is mounted on two ball bearings lubricated by fuel. It is a simple engine of compact design, lubricated by fuel of oil admixture, and fitted with BLDC starter generator, electric fuel pump and electronic control system of FA-DEC type.



PBS Turbojet Engine TJ80.

The TJ80 has been designed and manufactured to propel missiles, target drones and UAV systems. Some of the main advantages of the TJ80 include speeds of up to Mach 0.9 which take the aircraft to an altitude of 10,000m. Weighing just 12kg, the TJ80 provides take-off thrust of 900N.

Other features include engine start temperatures as low as -40°C, and a shortened start-up sequence that comes in at less than 23 seconds. The utility of the engine will be greatly enhanced by the ability “for repeat starts”—on the ground or in flight—

and the fact that the engine may be used in any position at the time of launch.

Other advantages are as follows:

- ▶ Compact design.
- ▶ Excellent thrust-to-weight ratio.
- ▶ Low power consumption in the given power category.
- ▶ Lubrication with fuel mixed with oil, maintenance-free operation.
- ▶ Electric start.
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- ▶ Easy start in any position. ●

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Nexter Displays Artillery Know-how



Nexter, a KNDS Group company, is at the show to highlight its comprehensive range of products for equipping artillery battalions, from guns to ammunition, and also ballistic computers and fire control systems. The designer and integrator of armoured vehicles is amongst the world's leading artillery system manufacturers.

Deployed in Mali by the French armed forces as part of operation SERVAL and BARKHANE, as well as in Lebanon, Afghanistan and, more recently in Iraq, the CAESAR self-propelled 155mm artillery system has a worldwide reputation as representing the best compromise between the simplicity of a towed artillery piece and the mobility of a self-propelled system. The CAESAR is extremely accurate and highly mobile to avoid counter-battery fire, whilst remaining the artillery system with the lowest maintenance cost in its category. In service in five armed forces, over 270 CAESAR have been produced, have fired over 80,000 shells and have travelled over a million kilometres. It is presented in model form in both its 6x6 and 8x8 versions. The CAESAR is also in service in the Thai and Indonesia armies.

A model of the 105 LG1, the 105mm towed artillery system, completes the pres-



entation of the Nexter artillery range. Deployable by a lightweight vehicle, a helicopter or even by parachute drop, the 105 LG1 gun is the world's lightest 105mm assault artillery piece and is ideal for providing gun-fire support to rapid reaction forces.

As closely as possible to its customers' needs, Nexter has developed a full range of simulation tools to match its artillery systems. Thus, for the initial and continuation training of gun crew, a system is proposed that reproduces all the physical and mechanical components of the CAESAR; known as the CCTS (for Caesar Crew Training System), it allows realistic training of the crew under all possible operational configurations. An immersive 3D

variant also exists, which allows personnel to be made to operate in a synthetic 3D environment.

Finally, the TITUS multi-purpose 6x6 armoured vehicle is also exhibited in model form in its homeland security version. As a truly modular platform, the TITUS can fulfil a wide range of missions, from troop transport to combat and logistics support missions and including law enforcement, peace-keeping missions, and combating insurrection. Protected against ballistic attacks and CBRN (Chemical, Biological, Radiological and Nuclear) threats, and benefiting from exceptional mobility, the TITUS is an undeniable asset for security forces worldwide. ●

Interview with **Col Eng (ret) Ayman Mashouqah**, CEO, Jadara Equipment and Defence Systems

ADJ Today: Could you tell us a bit about the formation of Jadara? How does the Russo-Jordanian collaboration come about?

Col (ret) Mashouqah: Jadara Equipment & Defence Systems PSC was established in 2005. The main task of the company is to produce the anti-tank/multi-use grenade launcher RPG-32 (Nashshab). For this reason, Jadara approached the legendary Russian company Bazalt for joint cooperation in this field, which led to the birth of the RPG-32 (Nashshab). The weapon is exclusively assembled in Jordan and solely marketed by Jadara.

ADJ Today: What is your view and forecast on the defence and security market in the Asia-Pacific region?

Col (ret) Mashouqah: Asia-Pacific is a huge region and a very promising market for the military industry with the enormous growth in economy. The region is considered one of the highest growing economies in the past 10-15 years.

The economic growth led to a significant increase in defence spending due to the security issues in the region. It is noticeable

through the military modernisation programmes and the growing military exhibitions in this region.

ADJ Today: How does Jadara's technology meet the requirements of Asia-Pacific militaries? Do you have any programmes in this part of the world?

Col (ret) Mashouqah: Small arms and light weapons were always the preferable weapon systems for this region. Due to the region's geographical landscapes, nature of warfare, increasing domestic terrorism, and political instability, low cost weapons, including anti-tank grenades and RPG's are, and will be always one of the favoured weapons in the military arsenal of this region.

ADJ Today: Could you give us a brief on the support and maintenance package for your products?

Col (ret) Mashouqah: Jadara prepares a full package of technical support for our products. For this purpose, Jadara built a factory for assembly. An R&D centre was also established to improve our products.

ADJ Today: In which direction will your company partake in sense of future defence technology to combat new-age threats?

Col (ret) Mashouqah: Jadara will still be moving towards the anti-tank weapon system production, but more directed towards guided missile systems.

ADJ Today: What is your product highlights at this year's show?

Col (ret) Mashouqah: We are showcasing the RPG32 grenade launcher with full training package, QUAD Nashshab on ground and on vehicle; we will also feature the J-9 sniper rifle, in both the .338 and .308 calibres. •



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As an IAQG-registered aerospace electronics distributor and DDTC-registered foreign broker for defence trade (electronics), Emerges has been a trusted quality partner to many in Singapore, Malaysia, Thailand, Indonesia, Vietnam, Myanmar and the rest of the Asia-Pacific region for more than three decades. Emerges is an authorised representative/distributor of Teledyne Microwave Solutions, Teledyne Relays and Teledyne Coax Switches.

MBDA Aims for Asian Missile Programmes

MBDA, a world leader in missiles and missile systems, is a multi-national company with over 10,000 employees in France, the UK, Italy, Germany, Spain and the US. MBDA has three major aeronautical and defence shareholders—BAE Systems (37.5%), Airbus (37.5%) and Leonardo (25%), and is the first truly integrated European defence company.

MBDA is the only group capable of designing and producing missiles and missile systems to meet the whole range of current and future operational requirements for the three armed forces (army, navy, air force). Overall, the Group offers a range of 45 products in service, dispatched within over 90 armed forces worldwide. Always looking ahead, MBDA is currently developing 15 new products.

MBDA has demonstrated its ability to bring together the best skills across the whole of Europe, and has succeeded in becoming the prime contractor for a series of strategic multi-national programmes. These include the six-nation Meteor air superiority weapon, the flexible Brimstone precision surface attack weapon, the ground-based air defences VL MICA or the Mistral family. Another cutting edge technology that MBDA is proud to work on, the Exocet anti-ship missile represents the main naval superiority weapon of navies throughout the world.

Those products, as well as the missile Sea Ceptor, the remotely-controlled anti-air self-defence system SIMBAD RC, the missile Marte ER, and the fifth-generation land combat missile system MMP, will be displayed during the Defence & Security 2017 exhibition.

Meanwhile, MBDA announced the signing of Memoranda of Understanding with five Australian companies as part of its strategy to transfer the manufacture of its MMP missile system to Australia, if it is selected for the \$20 billion Land 400 programme in early October this year. MBDA's commitment to Australia is further underpinned by the intention to create MBDA Australia Pty Ltd, which was also announced.

mBFT17—Never Out of Contact

Hyundai J Comm is a first mover in handheld blue force tracking device in Korea since early 2000. The company's newly launched mBFT17 (multi-Path Blue Force Tracker) is a handheld all-in-one terminal. Based on Iridium Satellite network's pole-to-pole coverage, mBFT17 helps troops to be always connected and share situational awareness by providing fast and reliable communication for accurate friendly force location on scalable electronic map, and accurate depiction of reported enemy locations, and obstacles on the map.

Various optional communication modules such as 3G/4G modem, analog modem and digital radio interoperation modem provide efficient situational operation.



Hyundai J Comm.

Powered by android operation system, its interoperability is almost limitless with features such as range finder, CBR detector and all other systems, which needs position location information.

R V Connex—Maximising Situational Awareness

R V Connex is a local Thai company with significant experience and technical expertise in the field of defence and security. The company is driven by the desire and commitment towards advancing Thailand's national defence capabilities. Their products and capabilities encompass a myriad of areas, ranging from unmanned aircraft, EOD robots and C2ISR systems including cyber security, airport security, and aircraft upgrade and modification. The company takes pride in providing quality, specifically tailored solutions that not only meet or exceed international standards, but also align directly with all customer needs and requirements.

Notably, their flagship Sky Scout UAV was developed with the aim of maximising situational awareness. It effectively supports a wide range of operations, including search and rescue and ISTAR missions. Completely designed from scratch, and produced in compliance with renowned airworthiness standards and guidelines, the Sky Scout possesses superior aerodynamic performance, stability and multi-payload capability to meet the requirements of modern-day missions and applications.

R V Connex employs over 200 individuals, approximately 140 of which are highly skilled engineers and technical specialists, committed to leading at the forefront of Thai defence, innovation and technological development. Whether it is the project managers, technicians, or engineers, the company has a highly-skilled workforce capable of offering wide range of skills to cater to all customer needs and requirements, boasting over 25 years of experience working in fields encompassing defence systems, security and aviation. ●



Sea Ceptor.



Prime Minister Prayut to Attend ASEAN Summit

Thailand's Prime Minister Prayut Chan-ocha will attend the 31st ASEAN Summit and related summits on Nov 13-14 in Manila, Philippines, according to the Ministry of Foreign Affairs' statement. ASEAN leaders will also have meetings with external partners China, Japan, South Korea, India, and the United Nations. The regional grouping will also hold the 20th ASEAN Plus Three Meeting, and the 12th East Asia Summit.

On the sideline of the ASEAN Summit, Prime Minister Prayut will also attend the 9th Mekong-Japan Summit and the Regional Comprehensive Economic Partnership (RCEP) Leaders' Meeting. The Prime Minister, along with other ASEAN leaders are expected to discuss on the ASEAN Community, spanning political and security, economics, and socio-cultural dimensions to fully benefit the people of ASEAN. They are also expected to address the global challenges facing ASEAN and ways to maintain ASEAN Centrality in the regional architecture.

Meanwhile, in preparation for the Summit, Thailand's Minister of Foreign Affairs, Don Pramudwinai will join the 16th ASEAN Political-Security Community Council Meeting and the 20th ASEAN Coordinating Council Meeting on Nov 12, 2017. Among the matters that will be tabled include cross-pillar is-

issues, which encompass political and security, economics, and socio-cultural, including issues on development, concrete deliverables, and future plans on implementing connectivity within and outside the Southeast Asia region. The leaders will also discuss on promoting complementarities between the ASEAN Community Vision 2025 and the UN 2030 Agenda for Sustainable Development, of which Thailand is the ASEAN Coordinator. The kingdom is working diligently to coordinate the ASEAN programmes and activities related to the initiative. Support from other regional members in this effort is encouraging.

One of the founding members of ASEAN, Thailand has been active in furthering the interest of the regional grouping at the international fora, while promoting cohesive cooperation between member states. ●

Thailand's DTI and Thales Sign MoU



The Defence Technology Institute (DTI) of Thailand's Ministry of Defence and Thales have signed a Memorandum of Understanding (MoU) for research and collaboration in the areas of Integrated Air Defence Systems, Digital Communications and Command and Control Systems.

This MoU furthers the cause for collaboration and innovation in multiple areas, including integrating radars, effectors, command & control systems and digital communications to provide the Thai armed forces with leading air defence capabilities.

"The Thai armed forces rely on Thales for a long time. We hope this MoU will strengthen our collaboration and extend our support to

Thailand's ambition of building world-class defence capabilities within the country," said Tommy Ayouty, Country Director for Thales in Thailand in a statement issued at the Defense and Security 2017 in Bangkok.

Thales' digital communications technology and command and control systems can also be integrated to new military vehicles and through the upgrade of the existing ones.

Thales has already invested into establishing long-term relationships with local industrial partners and instituted expert teams based in Thailand that offer on-ground operational support for various projects with the Thai armed forces.

This MoU also paves the way for future

transfer-of-technology and know-how to the Thai industry.

Through its Thailand 4.0 initiative, Thailand is to drive its growth through innovation, technology, research and development, and creative thinking. In this context, DTI has the ambitions to develop Thailand's defence technology capability and to build up the local defence industry. To further its goals, the country relies on industrial partners like Thales to enable collaboration and exchange around digital technologies. ●

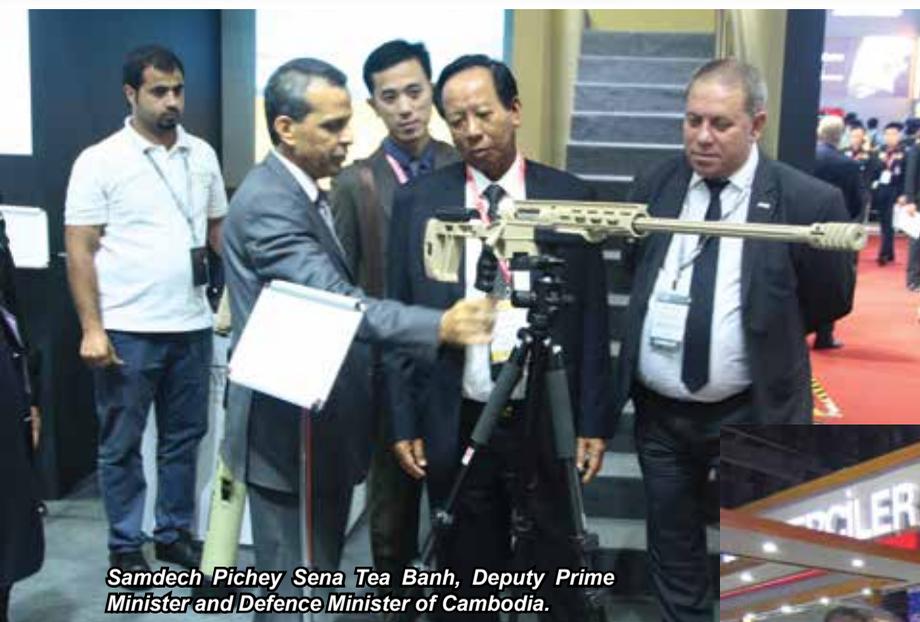


Pictorial Highlights

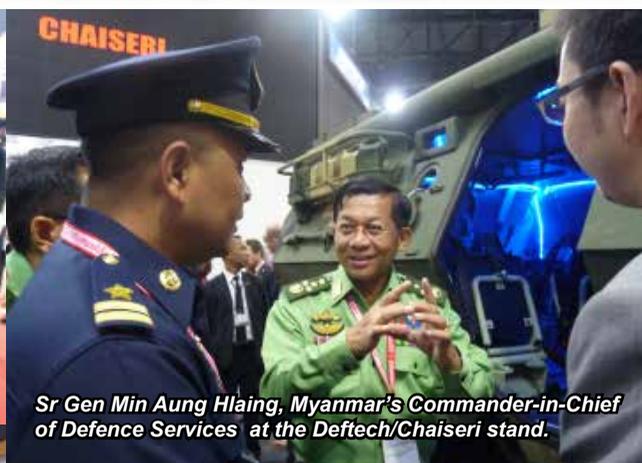


The Malaysian delegation thumbs up the show.





Samdech Pichey Sena Tea Banh, Deputy Prime Minister and Defence Minister of Cambodia.



Sr Gen Min Aung Hlaing, Myanmar's Commander-in-Chief of Defence Services at the Deftech/Chaiseri stand.



Being briefed on FNSS products.





Pictorial Highlights

Vietnamese delegation looking at FN Herstal latest weapon system.



Dr Ng Eng Hen, Defence Minister of Singapore at the ST Kinetic's booth.



Thailand's Army officials having quick chat.



DEFTECH 4X4 Radpanzer Condor armed with Gatling gun



NIMR Expands Southeast Asia Footprint

The leading manufacturer of light and medium-weight wheeled military vehicles in the Middle East and North Africa, NIMR Automotive is actively expanding its reach into the Southeast Asian region following agreements with top industry partners in Malaysia and Thailand.

In Malaysia, NIMR and DefTech, the country's premier armoured and logistics vehicle producer, announced plans to deepen their relationship with the aim to finalise a formal Strategic Partnership Agreement in early 2018. Under the agreement, DefTech will support NIMR through the marketing and sales of the complete range of NIMR vehicles to Malaysia and other territories in Southeast Asia.

Further signalling its growing role in the region, NIMR has been working closely with Thailand's FICO Technology and Engineering (FTECH) to explore potential opportunities in the country.

Expanding Partnership

Through the partnership, NIMR's Ajban 440A and Long Range Special Operations Vehicle (LRSOV) are earmarked to undergo trials arranged at Thailand's Military Transport Training Centre. Both vehicles, that will be trialled for testing and evaluation in the presence of senior officials from the Royal Thai Armed Forces, are currently on display here at the show.



Speaking on the importance of the partnerships, NIMR's CEO Dr Fahad Saif Harhara Al Yafei commented, "Following on from the success of our strategic partnership with VOP in the Czech Republic, the ventures with FICO and DefTech represent a key milestone in NIMR's overall growth, providing a firm foundation for our expansion into the region."

Dr Harhara added, "NIMR has a clear understanding of the threats faced across the region and with our partners we will be able to deliver proven, combat-tested armoured vehicles, capable of addressing these challenges."

Vehicles for Various Requirements

Both ventures mark an important step in

NIMR's international growth and its desire to expand into Southeast Asia, a key target market for the company. They also build upon NIMR's strong background in technology transfer programmes, including its joint venture with Algeria (NIMR Algeria).

NIMR has grown rapidly in recent years and is now one of the top five global OEMs for wheeled armoured vehicles. The company has expanded its range of vehicles to more than 15 variants in both 4x4 and 6x6 models in order to meet a broad range of user requirements, positioning it for wider growth on the international market.

NIMR Automotive is a subsidiary of the Emirates Defence Industries Company (EDIC), the UAE's integrated defence manufacturing and services platform. ●

RUAG to Enhance Market Presence in Asia-Pacific

Swiss ammunition manufacturer RUAG Ammotec is aiming to make a big impression to the Thai military at the Defense & Security 2017 with its display of a wide range of ammunitions.

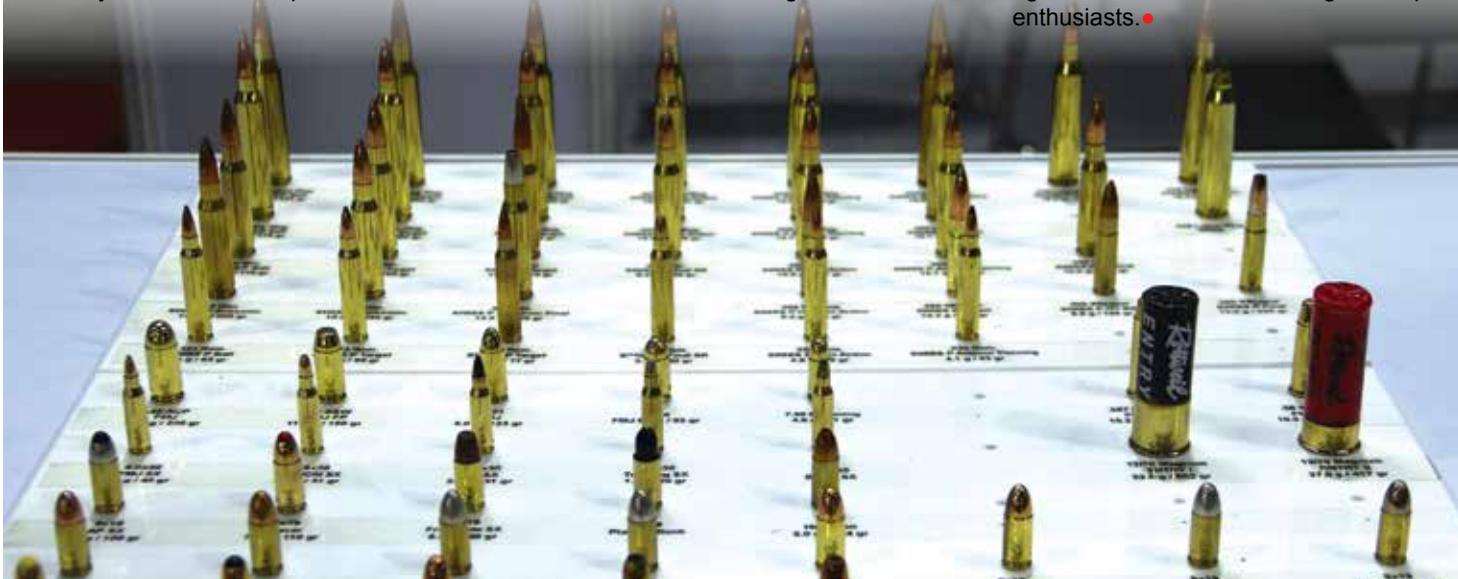
"Even though we are having some hiccups regarding our market here because we have yet to attain the export license, but

we hope that things will get better next year after the election," the company's Regional Sales Director, Asia-Pacific, Michael Bruess told **ADJ Today**.

He said RUAG Ammotec hoped to expand its market presence in the Asia-Pacific region, given the comfortable rapport it has with the militaries in the region.

"We are having a good relationship with a few countries here, such as Malaysia and Singapore," he said.

An European expert in various small-calibre ammunition, pyrotechnic elements and components, RUAG Ammotec fulfils the needs of armed forces, law enforcement agencies, as well as hunting and sports enthusiasts. ●



Software Defined Networking Radios

The tactical battlefield is now becoming a ground for extensive digital data exchange where many systems, sensors, weapons and command centres need to exchange high speed data in order to perform effectively. More so, these units need to carry out this data traffic flowing while on the move since the new military doctrines heavily emphasise mobility and flexibility. ASELAN Software Defined Networking Radio (SDNR) family is ready to provide high speed data and voice communications to support land, marine and air platform applications in digital battlefield.



Hand-Held SDNR.



10W V/UHF Manpack SDNR.



10W V/UHF Vehicular SDNR.

For Better Communication

ASELAN SDNR family (handheld, man-pack, vehicular and base station) is able to provide seamless communications among tactical users through secure voice, data and video. SDNR ensures increased sur-

vivability against electronic warfare threat by providing alternative communication means over a wideband ranging from 2-30MHz HF to 30-512MHz V/UHF on the separate radios. Software configurable architecture enables supporting of various tactical radio waveforms and advanced EPM techniques on the same platform.

The SDNR provides multi-band and multi-mode secure voice and data communications and supports advanced ECCM techniques. The radio can be easily customised according to different national needs by its built-in programmable encryption module, which has the capability to support many different crypto algorithms required by different waveforms. ●



50W V/UHF Vehicular SDNR.



50W V/UHF Base Station SDNR.



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