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Malaysia: Defence Budget and Future Procurements



According to official estimations provided by the Ministry of Finance, the amount allocated in defence in 2016, will reach 17.3 billion ringgit (RM) (approximately \$4.5 billion), significantly decreased when compared to the 17.7 billion RM (approximately \$4.6 billion) that were allocated in 2015. With this amount Malaysia is among others, planning to procure six Littoral

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Combatant Ships, Very Short Range Air Defence weapon systems, armoured vehicles and an A-400M Atlas transport aircraft. Malaysian army will also procure Unmanned Aircraft Systems (UAVs) that will further improve its Intelligence, Surveillance and Reconnaissance capacity.

It should be noticed that defence budget does not include the funds allocated to the Malaysian police and the Malaysian Maritime Enforcement Agency (MMEA) – the country's equivalent of a coast guard. In 2016, the MMEA will receive 864 million RM (approximately \$222.6 million). A fraction of this amount will be allocated to the acquisition of Offshore Patrol Vessels and patrol boats. An additional of RM13.1 billion (approximately \$3.4 billion) will be spend to enhance the safety and security within the country as well as to reduce crime rate.

Malaysian Ministry of Defence allocates approximately 20% of the total budget to the procurement of new equipment. One of the aspects that should be taken into consideration when examining the country's procurements is that the Malaysian government link them to its wider aspirations to develop the Malaysian defence industry therefore exporters should meticulously review the government's offset regulations before bidding for a contract.

Additionally, it is worth mentioning that the Malaysian armed forces are rather underequipped and that is why several analysts believe that the country's Ministry of Defence should push for more procurement funds in the years to come.

In the last five years, Malaysia mainly procured ships and aircraft. It is indicative that for the period 2010-2015 these two categories accounted for 68% of the total amount allocated to the purchase of defence equipment, while the countries from which equipment originated where Germany, Spain and France.

Kyriazis Vasileios

Epicos Newsletter Head Editor

Singapore: Defence Budget and Procurements



curements Diplomacy and deterrence are the two pillars upon which the defence policy of Singapore is structured. By developing and maintaining good relations with other countries through diplomacy, Singapore is creating a safe environment which de facto diminishes the possibilities of an armed conflict. Nevertheless, Singapore Armed Forces (SAF) should always be alert and ready to intervene whenever is needed. That is why Singapore continues to maintain a well-integrated force that is trim, balanced and potent. Under this concept the

Singaporean government decided to further modernize the country's armed forces. This is clearly illustrated by the fact that the total defence budget for Financial Year (FY) 2015 was approximately 13.12 billion Singapore dollars (USD9.5 billion), an increase of 706 million Singapore dollars (USD510.5 million) or 5.7% compared to the FY 2014 expenditure.

This increase will see defence expenditure rising as a proportion of GDP for the first time since 2009, growing from 3.2% of GDP in 2014 to 3.3% for 2015.

Additionally, it is worth mentioning that the funds allocated for the development of new capabilities for FY 2015 was 431 million Singapore dollars (USD311.9 million), an increase of 2 million Singapore dollars (USD1.44 million) or 0.5% from the revised FY 2014 budget.

	FY 2013 SGD billion	FY 2014 SGD billion	FY 2015 SGD billion	Change Over FY 2014 SGD million	(%) Change Over FY 2014
Total Expenditure	SGD 11.8	SGD 12.4	SGD 13.1	SGD 706	5.7%
Operating Expenditure	SGD 11.3	SGD 12	SGD 12.7	SGD 704	5.9%
Expenditure on	SGD 16.7	SGD 14.67	SGD 14.69	SGD 27.5	0.2%
Manpower Other Operating	SGD 11.3	SGD 11.96	SGD 12.7	SGD 703	5.9%
Expenditure	300 11.5	300 11.90	300 12.7	300 703	5.5%
Development of New Capabilities Expenditure	SGD 0.422	SGD 0.429	SGD 0.431	SGD 0.02	0.5%

Ministry of Finance (<u>http://www.mof.gov.sg/</u>)

According to the think-tank Stockholm International Peace Research Institute (SIPRI) for the period 2010-2014 Singapore was the world's 10th biggest arms importer. Nevertheless, it must be also stressed that local authorities have as a priority to upgrade existing platforms to extend their lifespan and enhance their fighting capabilities instead of purchasing new ones, unless the new equipment provides clearly superior and needed capabilities. It is indicative that a number of major platforms, such as the Archer-class submarines and the Leopard 2A4 Main Battle Tanks, were purchased second-hand and refurbished to suit the country's needs.

In some other cases, the Singaporean authorities develop unique solutions in cooperation with the local defence industry. One such example was the Terrex Infantry Carrier Vehicle and the Littoral Mission Vessel.

Singapore, a small nation with conscript armed forces, needed to draw on the different strengths and abilities of its community to augment the national defence capabilities of the country. Towards this direction, Singapore introduced the concept of Total Defence in 1984 that was adapted from the experiences of countries like Switzerland and Sweden.

Currently, Total Defence has been enhanced as conflicts between countries are no longer just military in nature and potential sources of instability can appear in less obvious and non-conventional ways.



Source: www.totaldefence.sg

Total Defence in Singapore is based on five different aspects - Military Defence, Civil Defence, Economic Defence, Social Defence and Psychological Defence. These five aspects represent the key sectors of society, are complementary and when combined can create a "safe net" for all the facets of the socioeconomic spectrum. Thus, Total Defence can be implemented whether it is a security threat such as global terrorism or a national crisis and can bring together all relevant government agencies, private sector organisations and the citizens of Singapore in a coordinated effort.

Kyriazis Vasileios

Epicos Newsletter Head Editor

Pakistan: Defence Budget and Procurements

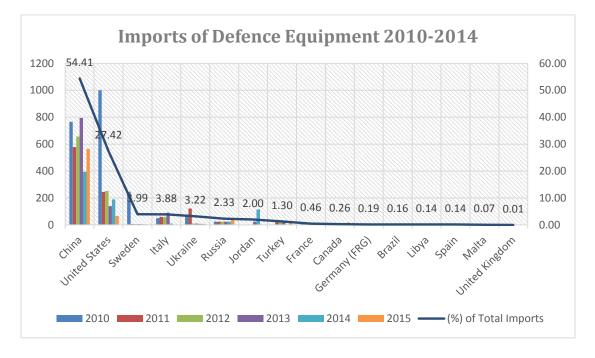


According to the Federal Budget 2015- Com 16, Pakistan has increased defence spending by over 11% when compared to last year reaching approximately 781 Rs billion (7.5 billion US dollars). The

double-digit increase is actually in line with the increases the country experienced the previous years. From the 781 Rs billion (7.5 billion US dollars), 326 Rs billion (3.1 billion US dollars) will spent on personnel, while operating expenditures will reach 200 Rs billion (1.9 billion US dollars). Maintenance of infrastructure and construction of new buildings will account for 84 Rs billion (801.8 million US dollars), while Pakistani authorities will allocate approximately 170 Rs billion 1.6 billion US dollars) on the procurement of new equipment.

According to SIPRI three out of the five largest recipients of major weapons, were located in Asia & Oceania: India, China and Pakistan. More specifically, Pakistan spent in total 6899 US\$ m. at constant (1990) prices for the purchase of defence equipment, for the period 2010-2015.

China has a leading role in Pakistan's armament imports. Apart from the Asian country, other countries that export arms to Pakistan, for the period 2010-2015, were USA, Sweden, Italy and Ukraine. It is important to state that USA and China accounted for some 81% of the country's imports (China-54.4%, USA- 27.4%).



	2010	2011	2012	2013	2014	2015	2016
China	766	578	657	794	394	565	54.41
United States	1000	245	252	140	189	66	27.42
Sweden	246	6	6	6	5	5	3.99
Italy	50	60	57	91	10		3.88

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Ukraine	66	122	10	10	8	8	3.22
Russia	24	24	24	24	24	40	2.33
Jordan				24	114		2.00
Turkey		22	22	22		24	1.30
France	8	6		13	4		0.46
Canada						18	0.26
Germany (FRG)	8			5			0.19
Brazil				4	4	4	0.16
Libya	10						0.14
Spain				10			0.14
Malta						5	0.07
United Kingdom				1			0.01

Source: http://www.sipri.org

Aircraft were the predominant area of imports for the period 2010-2015 with a total amount of 3184 US\$ m. at constant (1990) prices. The 2nd most important sector was that of missiles with 989 US\$ m. at constant (1990) prices whereas other areas such as armored vehicles, ships and air defence systems followed.

In 2015, Pakistan received 15 ScanEagle UAVs from USA with a total value of 30 million US dollars. The contract, processed via the Foreign Military Sales route. Additionally, Pakistan purchased 10 APG-68 Combat ac radar from USA, for the modernization of 10 F-16A combat aircraft to F-16C (F-16AM or F-16MLU).

Kyriazis Vasileios,

Epicos Newsletter Head Editor

Epicos "Industrial Cooperation and Offset Projects"

epicos.com Epicos "Industrial Cooperation and Offset Projects" provides a unique set of online tools enabling the structure, identification and implementation of comprehensive Offsets programs, through a searchable database. By introducing different offset projects and ideas proposed by local A&D industry it ensures the optimum cost for Prime Contractors and reassures that the priorities of local industry are fully met...

For Further Information Press Here

Helicopter landing training simulator / Ingress - Egress training



A company proposes the development and installation of a helicopter landing simulator which will provide complete training of soldiers/personnel on Ingress - Egress from/to helicopter under emergency and battle situations. Training will include emergency evacuation, search and rescue (SaR) missions, insertion/ extraction of special operation forces in/from "hot" battle zones, helicopter crashes with post-crash fires, and other relevant operational scenarios.

For Further Information Contact our ICO Department Mail at: <u>a-kintis@epicos.com</u>

Development of an integrated parts' codification system complying with NATO standards



A company providing solutions for corporate and/or governmental organizations critical information systems is proposing the development of an Integrated Parts Codification System, according to NATO Supply System standards. This system will provide sourced items codification functions for the Armed Forces or organizations where appropriate other parts' codification according to NATO standards and related

information exchange is crucial for the related organizations' operations. Integration with existing life-cycle support products is also possible.

For Further Information Contact our ICO Department Mail at: a-kintis@epicos.com

News from our A&D Business Network



India becomes 11th International Customer for LONGBOW LLC's Apache Radar

LOCKHEED MARTIN

The U.S. Army awarded LONGBOW Limited Liability Company (LLC) a \$57.1 million foreign military sale contract to provide the Indian Air Force with LONGBOW Fire Control Radar (FCR) systems for their new

Apache AH-64E helicopters. LONGBOW LLC is a joint venture of Lockheed Martin (NYSE: LMT) and Northrop Grumman Corporation (NYSE: NOC).

Under this contract, \$57.1 million is obligated to LONGBOW LLC with a total value not to exceed \$116.7 million. The contract covers the production of 12 LONGBOW FCR systems and spares for India. Production will extend through early 2019 at Lockheed Martin's Orlando and Ocala, Florida, facilities and at Northrop Grumman's Baltimore facility.

"With LONGBOW FCR, the Indian Air Force will receive a rapid all-weather targeting capability," said Jim Messina, LONGBOW LLC president and director of LONGBOW programs at Lockheed Martin Missiles and Fire Control. "The FCR's air over-watch mode provides aircrews with 360-degree situational awareness, improving survivability and mission success."

"Our highly reliable LONGBOW FCR has been repeatedly proven in combat, protecting warfighters around the globe at an affordable cost," said Ike Song, vice president, Mission Solutions, Northrop Grumman's Land & Avionics C4ISR Division. For more than a decade, the LONGBOW FCR has enabled Apache aircrews to automatically detect, locate, classify and prioritize targets. It enables rapid, multi-target engagement in all weather, over multiple terrains and through battlefield obscurants.

About Northrop Grumman

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in autonomous systems, cyber, C4ISR, strike, and logistics and modernization to government and commercial customers worldwide.

About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 125,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

For Further Information Click Here

European Space Industry Operational: Agreement Signed for Airbus Safran Launchers JV



Airbus Group SE (stock exchange symbol: AIR) and Safran (stock exchange symbol: SAF) have signed an agreement for the second and final phase of their 50/50 joint venture, Airbus Safran Launchers. Both companies will contribute to the current joint program with

industrial assets dealing with civil space launchers and military launchers. Closing of the deal is expected in the second quarter of 2016 after completion of the remaining corporate and other formalities. Financial details of the transaction will be communicated at closing.

Under the first phase of the JV, Airbus Group and Safran created a joint programme company with their respective civil programme contracts and major participations related to civil launcher activities.

In this second and final phase, industrial assets and military launchers will be integrated in the joint-venture. Airbus Safran Launchers will be a fully-fledged operational company.

Airbus Safran Launchers will employ around 8,000 staff and provide competitive solutions based on a family of versatile, high-performance, cost-competitive launchers that meet the needs of both government and commercial customers. This deal will ensure the success of the European space launcher business in the face of growing international competition.

About Airbus Group

Airbus Group is a global leader in aeronautics, space and related services. In 2015, the Group – comprising Airbus, Airbus Defence and Space and Airbus Helicopters – generated revenues of € 64.5 billion and employed a workforce of around 136,600.

About Safran

Safran is a leading international high-technology group with three core businesses: Aerospace (propulsion and equipment), Defence and Security. Operating worldwide, the Group has 70,000 employees and generated sales of 17.4 billion euros in 2015. Working independently or in partnership, Safran holds world or European leadership positions in its core markets. The Group invests heavily in Research & Development to meet the requirements of changing markets, including expenditures of more than 2 billion euros in 2015. Safran is listed on Euronext Paris and is part of the CAC40 index, as well as the Euro Stoxx 50 European index.

For Further Information <u>Click Here</u>

Epicos NewsRoom



LEONARDO-FINMECCANICA Launches World-First Flat-Panel Surveill Technology

Leonardo-Finmeccanica has launched Osprey, the latest addition to the company's electronically scanning (E-scan) radar product range. Based around a flat-panel antenna design, Osprey is the world's first lightweight airborne surveillance radar to be built with no moving parts. Leonardo-Finmeccanica also announced that the launch customer for the radar will be Norway, which has purchased Osprey as part of the country's acquisition of 16 Leonardo-Finmeccanica Helicopters AW101s for the NAWSARH programme (Norway All Weather Search And Rescue Helicopter).

Osprey's flat panel design opens up the potential for installation on a long list of aircraft previously deemed unable to carry such a class of radar, including unmanned aerial vehicles (UAV). In its configuration for NAWSARH, Osprey comprises three flat panels, one on the front of the helicopter and two at the rear, facing out at angles to create the 360 degree field of regard. Space requirements are minimal and the helicopter's belly is left clear, maximizing ground clearance for challenging rescue landings on rough terrain.

Osprey also marks a second world-first in providing a persistent 360 degree field of view in a lightweight package suitable for small platforms. Osprey represents the latest in 'E-scan' technology, meaning that it uses electronic-only means to direct the radar beam – moving it from target to target in fractions of a second. Because of the speed of these changes in direction, the Osprey radar effectively provides simultaneous coverage in multiple directions.

Designed and manufactured in the UK at Leonardo-Finmeccanica's Edinburgh site, Osprey was developed via inward investment from the company in radar technology and expertise. Osprey will be sold alongside the company's successful Seaspray family of E-Scan radars, which are in active service with the Royal Navy and with a number of export customers including the United States Coast Guard.

In addition to surveillance radars, Leonardo-Finmeccanica is Europe's leader in fire control radar, providing the AESA (Active Electronically Scanned Array) radar for Saab's Gripen NG fighter. The company also leads the pan-European EuroRADAR consortium to provide the current Captor-M radar for the Eurofighter Typhoon and is leading the same consortium in the development of the Typhoon's new Captor-E AESA radar.

Leonardo-Finmeccanica in Nerviano (near Milan, Italy) also produces high-performance mechanically scanned radars, the Grifo (combat radar family) and Gabbiano (surveillance radar family). These are both in production and have been sold widely internationally, over 400 Grifo radars and over 50 Gabbiano radars have been sold to date.

For Further Information Click Here

Source: Epicos, LEONARDO-FINMECCANICA

SAAB Receives Order from FMV Regarding Support and Maintenance for Helicopter 15

Defence and security company Saab has received an order from the Swedish Defence Materiel Administration, FMV, regarding continued delivery of complete support and maintenance for Helicopter 15, for the years 2018 and 2019.

The order includes support and maintenance of all 20 helicopters including materiel and technical personnel, base staff in the form of management, planning and administration, logistics and materiel provision as well as on-call services in the form of additional technical personnel and services.

Our ability to deliver a complete commitment to the support and maintenance of Helicopter 15 enables us to contribute to a high operational availability of our customer, says Jonas Hjelm, head of Saab business area Support and Services.

Helicopter 15 has been operational in the Swedish Armed Forces for over ten years and Saab has since 2012 had a total commitment to secure the available flight time. Helicopter 15 currently operates from two bases in Sweden, Linköping and Ronneby. Linköping is the main base for maintenance, inspections and repairs, meaning that the majority of Saab's support and maintenance resources will be based there, including technicians, mechanics and base staff.

For further information, please contact:

Saab Press Centre, +46 (0)734 180 018, presscentre@saabgroup.com www.saabgroup.com www.saabgroup.com/YouTube Follow us on twitter: @saab

Saab serves the global market with world-leading products, services and solutions within military defence and civil security. Saab has operations and employees on all continents around the world. Through innovative, collaborative and pragmatic thinking, Saab develops, adopts and improves new technology to meet customers' changing needs.

Source: Epicos, SAAB

Driving Virginia Class Forward: U.S. Navy Awards BAE Systems \$72 Million for Submarine Propulsors

BAE Systems has received a \$72 million contract from the U.S. Navy to produce and deliver propulsor systems for Block IV Virginia-class (SSN 774) submarines.

The award continues the company's current position as the premier provider of propulsors to the U.S. undersea fleet.

"The propulsor contributes significantly to the overall stealth and effectiveness of a submarine," said Joe Sentfle, vice president and general manager of Weapon Systems at BAE Systems. "This award demonstrates the Navy's confidence in our high standards and ability to deliver this vital technology to the Virginia class, a national security asset."

The contract's value could eventually amount to \$162.9 million if all options are exercised.

The company has delivered more than 20 propulsors to the Navy for both Seawolf-class (SSN 21) and Virginia-class submarines. The Virginia-class attack submarines represent a shift in undersea warfare. They are designed to maintain their effectiveness in the deep ocean while incorporating new technology and features specifically for use in shallower coastal regions.

In addition to the propulsors, the contract includes funding for the manufacture of associated spare hardware and tailcones. Production of these units will begin in 2016, with deliveries scheduled through 2022. The work will be performed at BAE Systems' facility in Louisville, Kentucky.

For Further Information <u>Click Here</u>

Source: Epicos, BAE Systems

The Government of France - Hellfire Missiles

The State Department has made a determination approving a possible Foreign Military Sale to France for Hellfire Missiles and associated equipment, training, and support. The estimated cost is \$30 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale on April 29, 2016.

The Government of France previously requested the potential sale of one hundred twelve (112) AGM-114K1A Hellfire Missiles, one hundred two (102) AGM-114N1A Hellfire Missiles, fifty (50) ATM-114Q1A Hellfire Training Missiles. Non-MDE consists of four (4) Hellfire Missile Mock-Up Sectional Models, four (4) Hellfire II AGM-114N Warhead Mock-Ups, thirty (30) Hellfire M36-E4 Training Missiles, sixty (60) Hellfire M60 Dummy Missiles, M299 Launcher Spare Parts (O and I Level), Hellfire Missile Spare Parts (O and I Level), M36-E4 Training Missile Spare Parts (O and I Level), Integrated Logistics Support Hardware Equipment, Training, U.S. Government Technical Assistance, one hundred (100) Dome Covers, three (3) Hellfire AGM-114K1A Warhead Sections, three (3) Hellfire AGM-114N1 Warhead Sections, thirty (30) LSS Simulators, three (3) AN-205Bs, forty-four (44) IRIS, three (3) Calibration Cables, AN-205B Test Equipment Spare Parts, AGM-114N1 Warheads without Electronic Safe, Arm and Fire Device, thirteen (13) AGM-114K1A Main Warheads with No Control Interface Group, thirteen (13) AGM-114K1A Precursors, Hellfire Tripod Launcher with Launch Control without Laser, Technical Data Documentation, Publications, Repair and Return Services, Classified Technical Data Package, Unanticipated and Unprogrammed Requirements, sixteen (16) Hellfire II AGM-114K1A Missile Sleeves, Hellfire M60 Dummy Missile Spare Parts, sixty (60) M34 Hellfire Training Missile, and Conversion Services for M34 Dummy Missiles. The MDE value of these items was \$20 million; the total implemented value of the initial case and amendments was \$42 million.

Of the items listed above, France has already received (via a below Congressional thresholdlevel FMS case, FR-B-WAA) one-hundred and twelve (112) AGM-114K1A Hellfire Missiles, one hundred two (102) AGM-114N1A Hellfire Missiles, fifty (50) ATM-114Q1A Hellfire Training Missiles, Hellfire Missile conversion kits, blast fragmentation sleeves and installation kits, containers, and transportation.

France has requested that this existing FMS case, FR-B-WAA, be amended with the possible sale of two-hundred (200) AGM-114K1A Hellfire Missiles, Hellfire Missile conversion, blast fragmentation sleeves and installation kits, containers, and transportation. The estimated MDE cost in this amendment is \$25 million. The total estimated cost is \$30 million.

As the amendment requested by France will raise the value of FR-B-WAA over the Congressional notification threshold, this transmittal notifies what will be the total quantities and value of the Letter of Offer and Acceptance (LOA) with this proposed amendment. The estimated cost of MDE is \$45 million. The total estimated cost is \$72 million.

This proposed sale will contribute to the foreign policy and national security of the United States by improving the capability of a NATO ally. France is a major political and economic power in Europe and a key democratic partner of the United States in ensuring peace and stability around the world. It is vital to the U.S. national interest to assist France to develop and maintain a strong and ready self-defense capability.

The additional missiles will meet France's operational requirements for a precision guided tactical missile for its Tigre Attack Helicopter. The purchase will directly support French forces actively engaged in operations in Mali and Northern Africa, providing them the capability to successfully engage targets with minimal collateral damage. France will have no difficulty absorbing these missiles into its armed forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

There is no principal contractor for this sale as the missiles are coming from U.S. Army stock. There are no known offset agreements in connection with this potential sale.

Implementation of this proposed sale will not require any additional U.S. Government or contractor representatives in France.

There will be no adverse impact on U.S. defense readiness as a result of this proposed sale.

This notice of a potential sale is required by law and does not mean the sale has been concluded.

All questions regarding this proposed Foreign Military Sale should be directed to the State Department's Bureau of Political Military Affairs, Office of Congressional and Public Affairs, <u>pm-cpa@state.gov</u>.

For Further Information Click Here

Source: Defense Security Cooperation Agency

Lockheed Martin and Daewoo Shipbuilding & Marine Engineering Sign Teaming Agreement to Build Multi-mission Combat Ships

Lockheed Martin and Daewoo Shipbuilding & Marine Engineering (DSME) have signed a comprehensive teaming agreement to partner on the Multi-mission Combat Ship (MCS), which is based on a DSME hull design and intended for the corvette market.

Both companies bring valuable experience and unique capabilities to the teaming arrangement. Lockheed Martin has a proven track record of developing and integrating complex systems into a wide variety of U.S. and international naval vessels. DSME is one of the world's largest shipbuilders and has a rich history of producing highly capable naval vessels for the Republic of Korea and other international customers.

"DSME's MCS hull design coupled with Lockheed Martin's expertise in program and systems integration will allow the team to bring this capable ship to the international marketplace at an affordable price," said Joe North, vice president of Littoral Ships and Systems at Lockheed Martin Mission System and Training. "Together, we bring not only the best experience, expertise and resources, but also the right dedication and focus to offer coalition navies a multi-mission corvette-sized ship designed to meet future threats."

"This Teaming Agreement on MCS and strategic cooperation will not only provide our customers with high capability vessels on time, but also further facilitate our two companies' joint efforts in exploring opportunities on a global scale." said Deog-Soo Kim, vice president and the head of the Naval & Special Ship Business Management Division at DSME. "Moreover, the Korean government is pursuing 'New-Economic Growth Activation by Defense Industry' as one of the state development agendas and this agreement is a good example of achieving the objective."

Lockheed Martin and DSME are continuing to explore additional business opportunities in the international naval market where integrated, multi-mission corvettes will play a vital role in coastal protection as well as regional operations.

About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 125,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

About DSME

As one of the largest shipbuilders in the world, DSME is the market leader which specializes in building various commercial vessels, large scale offshore platforms, and complex naval ships. DSME has maintained a strong position as a naval solution provider, which has served as the backbone for the Republic of Korean navy's as well as international navies' capability with high quality and on-time products.

For Further Information Click Here

Source: Epicos, Lockheed Martin