



# **COMMITMENT TO DELIVERING EXCELLENCE**

**LUNAS**   
LUMUT NAVAL SHIPYARD

[www.mylunas.com.my](http://www.mylunas.com.my)

# About Us

Driven by a vision to be a trusted partner for innovative solutions, LUNAS crafted its strategy to navigate the dynamic tides of the maritime industry. LUNAS remains an unwavering pillar for national security through naval shipbuilding, while expanding its horizons for comprehensive maritime services. LUNAS embodies the essence of our brand, and the company's dedication to nation building and uncompromising excellence in every endeavours.



Our strategic partnerships position us as a driving force, actively shaping the future of our capabilities. LUNAS has played a pivotal role in boosting Malaysia's maritime and defence industry through the development of the Vendor Development Programme (VDP), fostering local vendors' competence and nurturing skills among the workforce.

Expanding beyond our core services, LUNAS has subsidiary companies, namely LUNAS SHIPREPAIR SDN BHD, LUNAS LANGKAWI SDN BHD, and LUNAS YACHTS SDN BHD. This further amplifies our capabilities, allowing us to provide comprehensive solutions in Shipbuilding and Shiprepair. This expansion aligns with our mission and vision.

## Our Commitment

We focus on quality and durability, ensuring our ships are built to last and perform consistently. We prioritize integrity and transparency in our dealings, building lasting relationships with our stakeholders.

At LUNAS, we embrace change and new ideas, pushing boundaries and inspiring others. We are agile, responsive and passionate about progress.

## Our Services

Shipbuilding of naval and commercial ships

Maintenance, repair and overhaul (MRO) of naval and commercial ships

Service Life Extension Programme (SLEP) and modernisation of naval ships

Class Management of naval ships

Engineering and Production Services



### Mission

Committed to quality, driven by results, focused on creating lasting value for stakeholders.



### Vision

Trusted partner for delivering innovative solutions.

# Your Complete Maritime Partner

Lumut Naval Shipyard (LUNAS) is a one-stop centre for all your maritime needs. With decades of experience and world-class facilities, we're at the forefront of Malaysian shipbuilding and ship repair.

## Building for Success:

We design and construct sophisticated vessels, from patrol boats to advanced warships, for the Royal Malaysian Navy and other clients.

Our proven track record includes projects like Patrol Vessels (PV), Littoral Combat Ships (LCS), and Littoral Mission Ships (LMS).

## Expert Ship Repair:

Our highly skilled team ensures the optimal performance and longevity of your fleet, both naval and commercial.

We offer comprehensive maintenance, repair, and overhaul services to keep your vessels running smoothly.

We actively collaborate with clients to upgrade onboard equipment and systems, extending your vessel's capabilities.

## Why Choose LUNAS?

**One-stop centre :**  
We handle all your shipbuilding and ship repair needs.

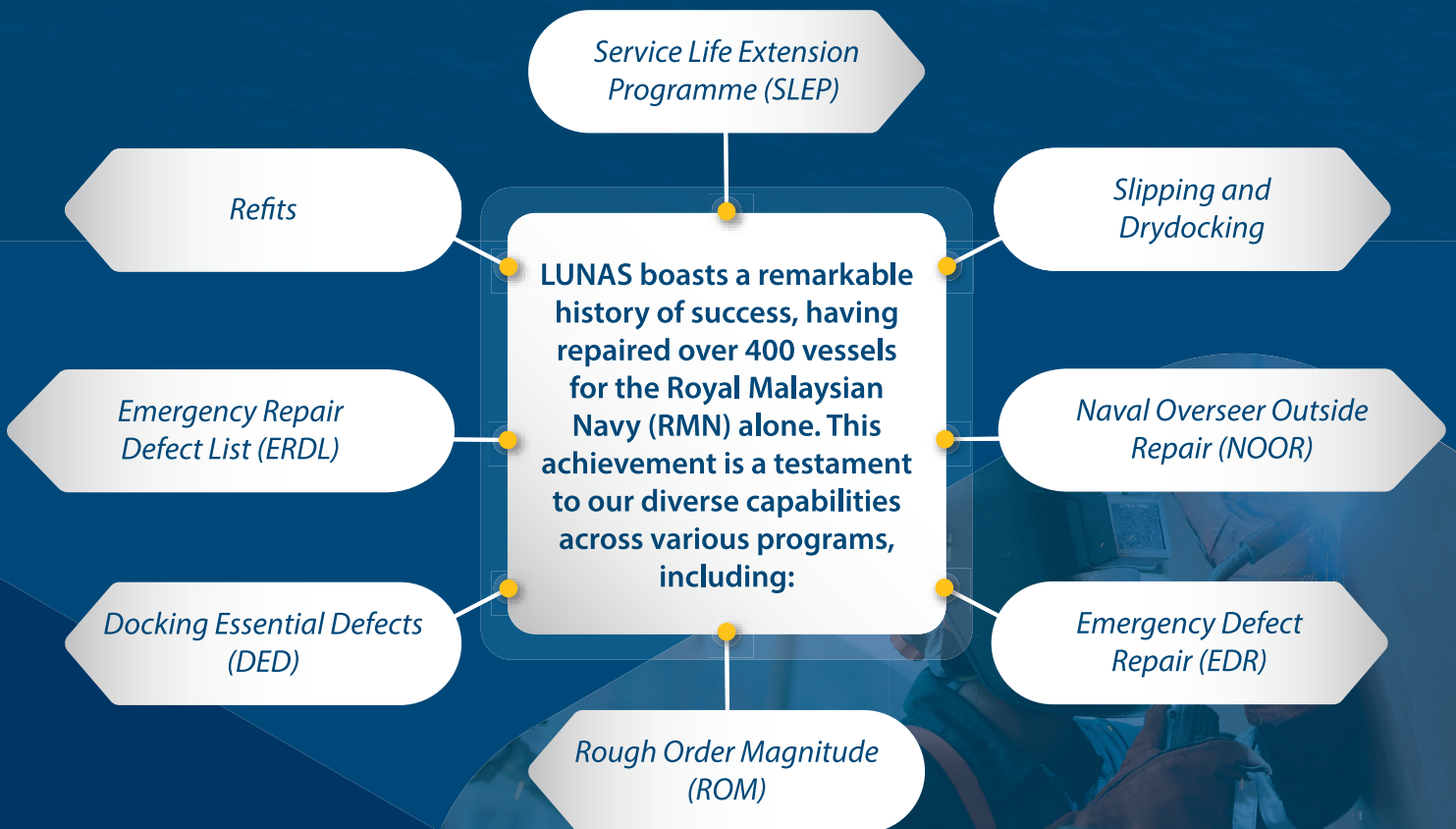
**Proven experience :**  
Decades of success in the maritime industry.

**World-class facilities:**  
Advanced infrastructure for top-quality results.

**Commitment to excellence :**  
We uphold the highest safety and reliability standards.

*LUNAS is your trusted partner for a successful maritime journey.*

## Proven Experience, Unmatched Results



**LUNAS is committed to partnering with our clients to deliver exceptional shiprepair solutions that ensure the continued success of their maritime operations.**

# LUNAS Engineering:

## Powering Innovation and Excellence

Our dedicated Engineering Department is the backbone of LUNAS's success. Since 1991, they've continuously built expertise across all shipbuilding and shiprepair projects.

### Key Strengths

**Complete Design Capabilities:** LUNAS engineers handle every stage, from initial concept to detailed fabrication drawings.

**Global Collaboration:** We partner with top naval design firms in Germany, the Netherlands, and France to stay on the cutting edge.

**Custom Solutions:** Our team tailors ships to meet your specific needs and requirements.

**Advanced Design Tools :** LUNAS utilizes 3D modeling and data management systems for superior quality and efficiency.

This commitment to innovation allows us to deliver one-of-a-kind vessels and solidify our position as a leader in the maritime industry.

# Ongoing Project

## Littoral Combat Ship (LCS)

The Littoral Combat Ship (LCS) is built based on the design of the Gowind 2500 corvette developed by the Naval Group. The Maharaja Lela-class frigate is the most advanced ship of the Royal Malaysian Navy (RMN) designed for four-dimensional maritime operations.

1

Can accommodate 138 people onboard.

2

Maximum speed of 28 knots with a total range of 5,000 nautical miles and an endurance of 21 days at sea.

3

The frigate boasts an array of sensors and processing systems. The Naval Group SETIS combat system forms the backbone of its combat capabilities, complemented by the Thales SMART-S Mk2 search radar, Rheinmetall TME0 Mk2 fire control radar, and the Thales TUS ASW suite (including Kingklip Mk.1 hull-mounted sonar and CAPTAS-2 towed array sonar), which enhance its situational awareness and anti-submarine warfare capabilities.

4

A CODAD propulsion system, consisting of four MTU 20V 1163 M94 engines, provides a total output of 29,600 kW.

7

Carries 16 VL MICA surface-to-air missiles (planned) for air defence, eight Naval Strike Missiles for anti-ship operations, and two triple J+S torpedo launchers for anti-submarine warfare. The vessel can accommodate various types of UAVs and helicopters, weighing up to 10 tons, in its stern hangar and helicopter landing platform.

6

Equipped with a Bofors 57 mm gun and two MSI DS30M 30 mm cannons for surface engagements.

5

With a displacement of 3,100 tons and a length of 111 meters, this frigate combines versatility and power.



# Future Project

## 2<sup>nd</sup> Batch New Generation Patrol Vessel

The second batch of our New Generation Patrol Vessel (2nd NGPV) consists of building 6 vessels specifically designed to:

**Enhance local expertise:** The NGPV program fosters advancements in domestic naval shipbuilding design, engineering, and construction capabilities.  
**Maximize local content:** LUNAS prioritizes using locally-sourced materials and technical support services wherever possible.

### Building on a proven platform:

The NGPV utilizes the well-established MEKO® 100 hull design, ensuring reliability and performance. LUNAS incorporates upgrades, including more durable machinery and equipment, to increase vessel endurance.

### Synergy and Collaboration:

The NGPV program leverages the recently acquired ship construction facilities used for the LCS program, maximizing efficiency.

### PRINCIPAL DIMENSIONS

Length Overall	91.10 m
Length DWL	82.80 m
Beam on 1st Deck (Max)	12.85 m
Deam DWL	11.80 m
Depth to 1st Deck	6.80 m
Design Draught Hull Approx.	3.40 m
Displacement Full Load Approx.	1,852 tonnes
Speed	22 Knots
Endurance	21 days
Range at Economical Speed	5000 nM
Complement	76 plus 14 persons
Propulsion	2 x Main Engine
al Power	10,900 kW
Electrical Plant	3 x Generator Set
al Power (TBC)	1,500 kVA
Medium Range Gun	57mm
all Range Gun	30mm

LUNAS collaborates with local design firms and research institutions for a comprehensive review of the ship designs, incorporating expertise in specialized military applications.

# Achievements



**2 UNITS SRI TIGA-CLASS  
FAST TROOP VESSEL (FTV)**



**6 UNITS KEDAH-CLASS  
NEW GENERATION PATROL VESSELS (NGPV)**



**SERVICE LIFE EXTENSION PROGRAMME (SLEP)  
OF KASTURI-CLASS CORVETTE**



**4 UNITS KERIS-CLASS  
LITTORAL MISSION SHIP (LMS)**

## COMMERCIAL SHIPBUILDING



**2002**  
2 IN NOS PULAU PINANG  
FERRIES



**2006**  
60M OFFSHORE SUPPORT  
VESSEL MV TASNEEM 2



**2008**  
60M ANCHOR HANDLING TUG  
MV TANJUNG SARI



**2009**  
60.8M WELL TEST SERVICING  
VESSEL TANJUNG GELANG



**2010**  
141M YACHT HOTEL  
SUNBORN III

## COMMERCIAL SHIP REPAIR



MY CALISTO



NAUTICA TANJUNG PUTERI 2



CONVERSION AND  
MODIFICATION WORKS  
FOR JAVA IRDINA



RORO JAYA SATU



GRADE ONE MANJUNG 7

## OTHER BUSINESSES



PORT CONTAINER  
CRANE



HYDRAULIC PIPE REPAIR



PIPE FABRICATION WORKS



TUGBOAT SERVICES

# Facilities

## Area

42 hectares (Land and water)

## Jetty

Floating jetty with quayside crange

## Berthing

Berthing facility with reticulated saltwater, fresh water and electrical supply of 440V and 415V

## Shiplift

One 4,500 tonne Synchronlift  
Length : 120 metres  
Breadth : 23 metres  
Depth : 9 metres

## Ship Transfer System

Rail bound transfer system with parking length of 1,000 meter

## Warehouse

Ten Locations Warehouses (19,000 sqm)

## Workshops

Steel Fabrication (19,471 sqm)  
Ship Assembly & Erection (29,907 sqm)  
Outfitting (8,400 sqm)  
Piping & Mechanical (19,691 sqm)  
Electrical (2,300 sqm)  
Electronics & Weapon (6,500 sqm)

## Lifting Capacity

Elevating Trucks  
Scheuerle  
Brohl Shunting Carriage  
300T Rubber Tyred Gantry Crane  
280T Crawler Crane  
50T and 70T Mobile Crane  
5T, 10T and 40T Quay Side Luffing Crane

## Hangar

8 X Big Tops (Height 29m, area 375 sqm)  
Hangar Location 25 (Height 34.5m, area 2,500 sqm)  
Hangar Location 31 (Height 10.3m, area 2,400 sqm)  
Hangar Location 35 (Height 9m, area 7,200 sqm)  
Hangar Location 77 (Height 32m, area 7,500 sqm)  
Hangar Location 78 (Height 32m, area 4,500 sqm)

## Hardstand

Five Locations (31,059 sqm)



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