

Next Generation Missile Vessel (NGMV)

Prelims: Current events of national and international importance | Defence

Why in News?

The keel-laying ceremony of the first Next Generation Missile Vessel (NGMV) for the Indian Navy was held at Cochin Shipyard Limited (CSL).



NGMV

NEXT GENERATION MISSILE VESSEL

Stealth | Speed | Strike | Stronger Seas



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Feature	Details
 Full form	Next Generation Missile Vessel
 Builder	Cochin Shipyard Limited (CSL)
 Customer	Indian Navy / Ministry of Defence
 Number of vessels	6
 Maximum speed	33 knots
 Crew	About 80 personnel
 Propulsion	Waterjet
 Primary role	Offensive maritime strike / sea denial



Stronger Navy
Safer Seas
Stronger India

Agile.
Lethal.
Future-Ready.



Enhanced
Maritime Security



Stronger
Naval Capabilities



Secure
Maritime Interests



A Stronger,
Atmanirbhar India

- **Role** - The NGMV is primarily designed to function as a **high-speed missile combatant**.
- **Offensive role** - The vessel is capable of conducting the following operations:
 - Maritime Strike Operations
 - Anti-Surface Warfare (ASuW)

- Potential targets include:
 - Enemy warships
 - Merchant vessels
 - Land targets
- **Sea-denial operations** - These operations are particularly effective in the vicinity of maritime choke points.
- **Defensive role**
 - Local naval defense
 - Seaward defense of Offshore Development Areas (ODAs)

Weapon system & Sensors

- **BrahMos - Surface-to-Surface Missile (SSM)**
- It enables the vessel to engage targets at long range, offering both anti-ship and land-attack capabilities.
- NGMV models are equipped with **inclined BrahMos missile launchers**.
- **VLSRSAM** - Vertically Launched Short Range Surface-to-Air Missile
 - Delivers air and missile defense capabilities.
 - Designed to intercept and neutralize incoming aerial threats.
- **76 mm SRGM**
 - Serves as the primary naval gun system.
 - Positioned on the forward section of the vessel.
- **CIWS** - Close-In Weapon System
 - Offers short-range defense against incoming projectiles and threats.
 - The NGMV model features a CIWS mounted at the stern.
- **Multi-Function Radar**
 - Performs air surveillance operations.
 - Supports fire-control functions.
 - X-band radar.
 - Approximate range - 200 km.

Indigenous Defence Ecosystem

- The Defence Research and Development Organisation (DRDO) developed the Multi-Function Radar (MFR).
- Bharat Electronics Limited (BEL) supplies the Multi-Function Radar (MFR).
- Hindustan Aeronautics Limited (HAL) assembles LM2500 gas turbines.
- Cochin Shipyard Limited (CSL) designs and constructs vessels.

***INS Vikrant**, India's first indigenous aircraft carrier, was built by Cochin Shipyard Limited.*

Reference

[The Hindu | Next Generation Missile Vessel \(NGMV\)](#)



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