⚓ LAUNCH OF SIXTH ASW SWC BY 528 (MAGDALA) AT CSL, KOCHI

Feature	Detail
Vessel Name	**BY 528 (Magdala)**
Series	Sixth of eight **Anti-Submarine Warfare Shallow Water Crafts (ASW SWC)**
Launch Date	**18 Oct 2025**
Shipyard	**Cochin Shipyard Limited (CSL), Kochi**
Design/Build	**Indigenously** designed and built by CSL
Role/Capability	Augments **underwater domain awareness**, **Anti-Submarine Warfare (ASW)**, and **Mine Laying** capabilities.

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⚓ LAUNCH OF SIXTH ASW SWC BY 528 (MAGDALA) AT CSL, KOCHI

Feature	Detail
Propulsion	Three **Diesel Engine powered waterjets**
Key Sensors	**Hull Mounted Sonar** and **Low Frequency Variable Depth Sonar (LFVDS)**
Weaponry	**Torpedoes**, **Anti-Submarine Rockets**, **NSG-30 Gun**, and **12.7 mm SRCG**
Significance	Boosts **'Aatmanirbhar Bharat'** (Self-Reliant India) and indigenous shipbuilding.

🛠 Shipyards and Vessel Status (List of Eight Vessels by CSL)

The eight vessels are primarily divided into two classes based on their builder:

1. The **Arnala-class** (built by GRSE)
2. The **Mahe-class** (built by CSL).

The **Arnala-class** (built by GRSE)

Vessel Name	Status (Latest Known)
1. **Arnala (P68)**	**Commissioned** (18 June 2025)
2. **Androth (P69)**	**Commissioned** (06 Oct 2025)
3. **Anjadip (P73)**	Launched (June 2023)
4. **Amini (P75)**	Launched (Nov 2023)
5. **Agray**	Launched (Mar 2024)
6. **Akshay**	Launched (Mar 2024)
7. **Abhay**	Under Construction (Scheduled for delivery 2026)
8. **Ajay (Yard 3034)**	Launched (21 July 2025)

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The Mahe-class (built by CSL).

Vessel Name	Status (Latest Known)
1. **Mahe (BY 523)**	**Delivered** (23 Oct 2025)
2. **Malwan (BY 524)**	Under Construction (Scheduled for delivery 2025)
3. **Mangrol (BY 525)**	Under Construction (Scheduled for delivery 2025)
4. **Malpe (BY 526)**	Launched (Sep 2024)
5. **Mulki (BY 527)**	Launched (Sep 2024)
6. **Magdala (BY 528)**	Launched (18 Oct 2025 - *from prompt*)
7. **Machilipatnam (BY 529)**	Under Construction (Scheduled for delivery 2028)
8. **BY 530**	Keel Laid (May 2025)

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Q.1: The total number of Anti-Submarine Warfare Shallow Water Crafts (ASW SWC) approved for the Indian Navy is:

A. 8
B. 10
C. **16 ✓**
D. 20

Q.2: The ASW SWC vessels are intended to replace which class of Indian Navy ships?

A. Kamorta-class Corvettes
B. **Abhay-class Corvettes ✓**
C. Shivalik-class Frigates
D. Talwar-class Frigates

Q.3: The ASW SWC project involves which two Indian shipyards building eight vessels each?

A. MDL and GRSE
B. HSL and CSL
C. **CSL and GRSE ✓**
D. L&T and GRSE

Q.4: What is the official classification name for the eight ASW SWC vessels being built by Cochin Shipyard Limited (CSL)?

A. Arnala-class
B. Mahe-class ✓
C. Abhay-class
D. Kamorta-class

Q.5: The vessel BY 528 (Magdala) is the sixth ship in a series of eight under which specific category?

A. Fast Patrol Vessels (FPV)
B. Offshore Patrol Vessels (OPV)
C. **Anti-Submarine Warfare Shallow Water Crafts (ASW SWC) ✓**
D. Landing Craft Utility (LCU)

Q.6: BY 528 (Magdala) was launched at which shipyard, signifying an indigenous defense manufacturing effort?

A. Mazagon Dock Shipbuilders Ltd. (MDL), Mumbai
B. Garden Reach Shipbuilders & Engineers (GRSE), Kolkata
C. **Cochin Shipyard Limited (CSL), Kochi ✓**
D. Hindustan Shipyard Limited (HSL), Visakhapatnam

Q.7: Which of the following is NOT a stated primary role or capability of the ASW SWC series of vessels?

A. Anti-Submarine Warfare (ASW)
B. Underwater Domain Awareness
C. Mine Laying
D. **Long-Range Ballistic Missile Interception ✓**

Q.8: What type of propulsion system powers the ASW SWCs?

A. Gas Turbine propulsion
B. Nuclear-powered reactors
C. **Diesel Engine powered waterjets ✓**
D. Steam Turbines

BrahMos Missile Flag-Off

Feature	Detail
Event	Flag-off of the **First Batch** of BrahMos missiles.
Date	**October 18, 2025**
Location	**BrahMos Integration & Testing Facility Centre, Lucknow.**
Context	Key component of the **Uttar Pradesh Defence Industrial Corridor (UPDIC)**.
Completion Speed	Facility was virtually inaugurated on May 11, 2025, with the first batch ready in just **five months**.
Missile Description	Supersonic cruise missile with a **traditional warhead** and **advanced guided system**.
Annual Output	Facility to produce approximately **100 missile systems** per year.

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🚀 BrahMos Missile Flag-Off

Strategic and Economic Impact

- **Strategic Reach:** Raksha Mantri Shri Rajnath Singh stated that "Every inch of **Pakistan's territory is now within the reach of BrahMos**."
- **"Operation Sindoor":** Referenced as proof that BrahMos has moved beyond trials to practical national security and that "victory has become a habit."
- **Indigenous Capability:** The BrahMos facility in Lucknow is the first in the corridor to manage the **entire manufacturing and testing process indigenously**, strengthening **strategic autonomy**.

🚀 BrahMos Missile Flag-Off

Strategic and Economic Impact

- **Global Export:** India is now a **"giver, not just a taker"** in defense technology (e.g., export to the **Philippines**).
- **Economic Benefit:** Expected annual turnover of the Lucknow unit is around **Rs 3,000 crore** with GST collection of about **Rs 500 crore**.

🚀 BrahMos Missile Flag-Off

Focus on Supply Chain

- **The Critical Need:** Shri Rajnath Singh stressed the need to develop all types of indigenous technologies (like **advanced seekers** or **ramjet engines**) to ensure the **supply chain remains within India**.
- **Goal:** Strengthen small industries that produce thousands of components to reduce reliance on foreign countries for spare parts.

Q.1: The first batch of BrahMos missiles manufactured under the 'Aatmanirbhar Bharat' initiative was flagged off at a facility located in which city, a key node of the UP Defence Corridor?

A. Kanpur
B. Agra
C. **Lucknow ✓**
D. Aligarh

Q.2: According to the Raksha Mantri, the BrahMos missile facility in Lucknow is expected to produce approximately how many missile systems per year?

A. 25
B. 50
C. **100 ✓**
D. 200

Q.3: Which country was specifically mentioned as an export partner for the BrahMos missile system, demonstrating India's role as a defense technology "giver"?

A. Vietnam

B. Indonesia

C. **The Philippines ✓**

D. Thailand

Q.4: What is the primary propulsion characteristic mentioned that makes BrahMos one of the best systems in the world, combining with its accuracy and power?

A. Stealth capability

B. **Supersonic speed ✓**

C. Nuclear capability

D. Hypersonic maneuverability