

Guardians of the Sea -- Maritime Safety and Security

India Maritime Week 2025



Director General of Shipping

28th October 2025 | NESCO, Mumbai



MIV 2030 & MAKV 2047 Objectives

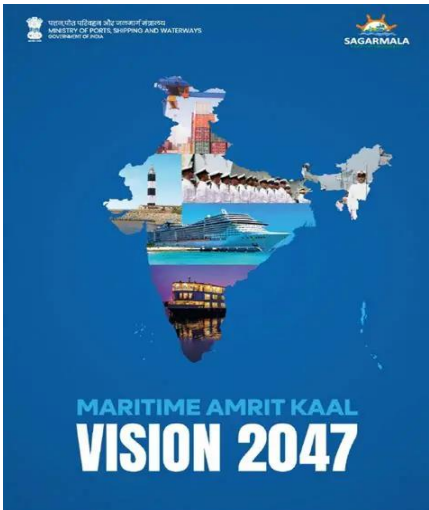


MARITIME INDIA VISION 2030



Maritime India Vision (MIV) 2030

The Maritime India Vision 2030 (MIV 2030) provides a roadmap for transforming India into a world-class maritime nation. Embedded within this vision is the goal of strengthening occupational health and safety frameworks — from modernizing port operations with digital tools to enhancing **seafarer welfare and environmental safeguards**.



Maritime Amrit Kaal Vision 2047

Maritime Amrit Kaal Vision (MAKV 2047) sets the stage for India to become a global maritime leader. This vision emphasizes sustainable practices, cutting-edge technologies, and a holistic approach to safety — one that includes not **only physical security but also mental wellbeing and social protection for every worker connected to the maritime economy**.



Safety and Security in the Maritime Industry



Charting India's maritime destiny through safe, secure, and sovereign seas — strengthening our global presence while ensuring sustainable, resilient, and inclusive ocean governance.

Two guiding pillars of Guardians of the Sea

Anchoring Excellence

- Strengthening maritime safety standards
- Empowering skilled and resilient seafarers
- Advancing digital and sustainable innovation
- Ensuring compliance through global best practices
- Fostering collaboration for secure and sovereign seas

Navigating Safely

- Enhancing coastal and port security systems
- Promoting risk-based vessel inspections and audits
- Strengthening search and rescue infrastructure
- Leveraging technology for real-time maritime surveillance
- Building awareness and preparedness for safer seas



Maritime Incidents and Need for Safety



Seafarers face challenging conditions on vessels with hazardous conditions.

- **Marine Incidents and Casualties**
- **Onboard incidents** often linked to unsafe conditions or inadequate training.
- **Fires and explosions** emphasizes the need for better fire safety systems.
- **Man-overboard accidents** points to critical gaps in protective gear and rescue preparedness.
- **Groundings, collisions, and machinery failures** further underscored vulnerabilities in workforce safety and operational resilience.

Such incidents not only endanger human lives but also disrupt trade, compromise operational efficiency, and undermine India's global competitiveness. The data affirm that a resilient, globally competitive maritime sector cannot be realized without embedding safety and health at its core.

NAVIC Cell 2 (2025) Report Key Findings (2019–2024)

195

Incidents
reported

77

Marine
Casualties

11

Fire and explosions
Fatalities

04

Man-overboard
Accidents Fatalities



Port-wise Distribution of Marine Incidents (2019-2024)



Key Insights:

- Deendayal Port Authority recorded the highest incidents: 28
- Followed by Chennai (19), Cochin (18), and Visakhapatnam (15)
- These four ports account for nearly 74% of all incidents
- Ports like Tuticorin (2) and Jawaharlal Nehru (1) have minimal incidents
- Incidents correlate strongly with vessel traffic density and cargo handling complexity

Impact of Marine Incidents

- Endanger human lives
- Disrupt trade and operational efficiency
- Undermine India's global maritime competitiveness

**Table: Marine Incidents Registered at Ports
(2019-2024)**

Port	Total Incidents
Deendayal Port Authority	28
Chennai Port Authority	19
Cochin Port Authority	18
Visakhapatnam Port Authority	15
Paradip Port Authority	10
New Mangalore Port Authority	8
Murmugao Port Authority	4
Kolkata Port Authority	3
Tuticorin Port Authority	2
Jawaharlal Nehru Port Authority	1



Strengthening Maritime Domain Awareness



Collaboration: DG Shipping, Coast Guard, Navy, IFC-IOR



Key initiatives – Merchant Shipping Act 2025, e-Samudra, MAITRI Corridor



Focus on digital surveillance, AI navigation and cybersecurity



Seafarers as true custodians – skill, welfare, and dignity



Safety First – ‘Suraksha Sarvapratham’



DGS is focused on promoting safety on vessels and is set to launch a campaign called the Suraksha Sarvpratham, ensuring that the seafarers are able to discharge their duties in a risk-free manner.

To reduce accidents and minimize risks aboard ships.

Detailed documentation of incidents that occur at sea and during port operations.

Systematic recording and analysis of incidents will help identify patterns, understand root causes, and implement preventative strategies.

Instill a culture of safety among seafarers.

Web-based learning management systems for training.

Free online courses will be developed.

To create a safer working environment for seafarers by reducing the frequency and severity of accidents at sea and in ports.

Comprehensive incident documentation, strict adherence to safety protocols, and innovative AI-based safety videos--- to establish Safety Culture



International Compliances to ensure Safety



Seafarers face **hazardous working and living conditions**: confined spaces, heavy machinery, extreme weather, long hours, and isolation.

Ensures **compliance** with international conventions like:



Onboard Safety Drills



Prevention of occupational hazards



Seafarers' mental well-being



Compliance with ILO Maritime Labour Convention (MLC, 2006)



Use of PPE



Medical care and telemedical support



Safe cargo and machinery operations



Maritime Security Status



Indian ports

74 ports

ISPS compliant, overseen by DG Shipping and proposed Bureau of Port Security (BoPS) for centralized security audit and risk management

Security incidents in 2024

81 reported

81 needed Indian Navy intervention, mostly involving Indian seafarers



Incident Analysis Highlights & KPIs



Total fatalities (2019-2024): 48 deaths, 20 injuries reported in port and sea incidents



Incident locations: Berth/Jetties (31), port roads (29), navigation channels (14)



Safety KPIs under IMCM: accident frequency rate, compliance rate, emergency response time, training completion



Digital platforms like E-Samudra, Digital Twin and Sagarmanthan Dashboard deployed for real-time monitoring and data-driven risk mitigation

Key Initiatives of DGS for Health & Safety



- **Bureau of Port Security (BoPS):** Statutory port security, SoCs, AIS, drones, CCTV, multi-agency command.

On the port side, the integration of the Bureau of Port Security will establish a dedicated statutory body. Security Operation Centres in every major port will use AIS, drone surveillance, VHF, and CCTV systems to provide real-time tracking and multi-agency coordination with CISF, Customs, Port Police, and intelligence services.



- **Occupational Safety & Medical Response:**

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Regulatory & Institutional Initiatives 2025



Merchant Shipping Bill, 2025

Enacted August 2025 modernizing maritime safety and governance in India aligned with IMO standards.



Indian Ports Act, 2025

Aims to streamline port governance, safety, environmental protection with enhanced compliance mechanisms



NAVIC Cell 2 and India Maritime Compliance Manual (IMCM)

Launched for integrated safety, security, disaster, environmental compliance



ISO 45001

Occupational health and safety standards piloted across ports and shipyards, mandatory rollout planned by end-2025



Maritime Safety and Security



- A multidisciplinary field concerned with the **safety, health, and welfare of people at work**.
- Ensuring safe working conditions, preventing workplace accidents, injuries, and illnesses.
- Protecting workers **physical, mental, and social well-being** in all occupations.



Workplace Safety –
Preventing accidents, hazards, and unsafe conditions.

Occupational Health
monitoring health risks like chemicals, noise, stress, ergonomics.

Compliance & Standards
Following national laws and international guidelines (ILO conventions, ISO 45001)

Training & Awareness
safety drills, use of protective equipment, hazard reporting.

Welfare Measures
Ensuring first aid, rest breaks, proper working hours, and mental health support.



Maritime Safety and Security



- ***Global leader under Hong Kong Convention***
- ***DG Shipping as National Authority for safety and sustainability***
- ***Compliance with ISO 45001, waste management, and effluent treatment***
- ***Promoting green steel and responsible circularity***



संगच्छध्वं
संवदध्वं
सं वो मनांसि
जानताम्।

*“Move together,
speak together,
may your minds
be in harmony.”
(Rigveda 10.191.2)*



सत्यमेव जयते

Ministry of Ports,
Shipping & Waterways
Government of India



Picture Credits: Shriya Khelurkar