



सागराः सुपन्थानः सन्तु

IIM MUMBAI DIRECTOR GENERAL OF SHIPPING ADDRESS

Directorate General of Shipping

Contribution of the Blue Economy Towards Viksit Bharat 2047



India and its Blue Economy

95%

By trade volume

70%

By trade value

India's Infrastructure Leverages

12

Major Ports

200+

Non-major
Ports

11,098 km

Total length of
India's coastline

India's Vessel Advantage



India has 1,520+ merchant vessels with 13 mn+ GT capacity



India ranks 18th globally in flag registration and 19th globally in carrying capacity

India is emerging as the leader of the Blue Economy in the world with multiple initiatives focusing on infrastructure, business and the overall economy

Port-led
Development

Ports for
Prosperity

Policy reforms driving EoDB,
modern infrastructure and
multi-modal logistics

India's Maritime Vision



MIV 2030

Chapter 10 : Become Top Seafaring Nation with World Class Education, Research and Training

- **10.2 - By Promoting research and innovation** by establishing maritime knowledge clusters and dedicated innovation laboratories.
- **10.2 - By Strengthening maritime education and training** through continuous improvement of training programmes and expansion of career opportunities for seafarers.
- **10.3 - By Building a robust seafarer-centric ecosystem** with a focus on welfare measures, grievance redressal mechanisms, and social security.
- **10.4 - By Encouraging port-led capability development** to support skill creation, employment generation, and integrated maritime growth.

MAKV 2047

Theme 7 : Develop World Class Education, Research & Training

- **By Integrating maritime education, training, and research** through a unified innovation ecosystem.
- **By Setting up knowledge clusters, incubators, and accelerators** to drive maritime research and startups.
- **By Strengthening global partnerships and Centres of Excellence** to enhance institutional quality and faculty capability.
- **By Implementing systemic reforms** to improve efficiency, standardisation, and future readiness.

Chapter 10 of the Maritime India Vision 2030 outlines the development of a comprehensive training ecosystem aimed at enhancing maritime education, training, and skilling across the sector.

DIRECTORATE GENERAL OF SHIPPING

As the apex maritime authority in the nation, the Directorate General of Shipping is entrusted with the responsibility to:



Protect and advance India's maritime interests



Ensure the welfare and safety of over 500,000 seafarers



Safeguard the marine environment and prevent pollution

Regulate the registration, survey, and operation of all seafaring vessels, including their architecture and certifications

Promote international cooperation in maritime affairs



Represent India in global forums of the International Maritime Organization (IMO), London

Facilitate multimodal logistics and ensure the safe and economical transit and transshipment of cargo at major and non-major ports



Ensure port navigational safety, port and vessel security, in coordination with port authorities and security agencies



Maintain navigational standards and promote maritime domain awareness for commercial vessels



MERCHANT SHIPPING ACT 2025



CARRIAGE OF GOODS BY SEA ACT 2025



COASTAL SHIPPING ACT 2025



INDIAN PORTS ACT 2025



BILLS OF LADING ACT 2025



Directorate General of Shipping



Powered by Bing
© GeoNames, Microsoft, TomTom

MARITIME MERCANTILE DEPARTMENTS (MMD) ACROSS INDIA

Under the Directorate General of Shipping,
Ministry of Ports, Shipping and Waterways

Two Pillars Of Maritime Transformation



Technology Integration - Digital Platforms

1. Flagship platforms: e-Samudra, SAGAR SETU, Maritime Single Window (MSW).
2. e-Samudra integrates 60+ maritime services (MTO registration, shipbuilding aid).
3. AI-powered exams & simulations for seafarer training.
4. Real-time vessel/cargo monitoring via Command & Control Centre.
5. Digital Centre of Excellence (DCoE) promotes AI, IoT, blockchain.
6. Reduced cargo dwell time; enhanced port efficiency.
7. Swachh Sagar Portal

Sustainability Initiatives - Green Shipping Agenda

1. Targets: 500 GW non-fossil energy (2030), 1 billion-ton carbon cut, net-zero by 2070.
2. Policies encourage LNG, green hydrogen, biofuel vessels.
3. Mandates shore power, waste, and renewable port integration.

Sustainability Initiatives - Key Programmes

1. Harit Sagar Guidelines support 100% renewable energy, AI/IoT logistics in ports.
2. Green Tug Transition: 50% hybrid/electric tugs by 2030.
3. Green hydrogen plant at Deendayal Port scaling to 10 MW; 5 million tonnes by 2030 goal

INDIA'S MARITIME TECHNOLOGY TRANSFORMATION IN 2025



CLOUD - NATIVE PLATFORMS



ARTIFICIAL INTELLIGENCE



BLOCKCHAINS



MARITIME SINGLE WINDOW



SIGNIFICANT REDUCTION IN CARGO DWELL TIMES
REAL TIME VESSEL TRACKING



DIGITAL CENTER OF EXCELLENCE

INDIA'S MARITIME SUSTAINABILITY INITIATIVES



500 GW NON-FOSSIL ENERGY BY 2025



1 BILLION TONNE CARBON REDUCTION



LNG GREEN HYDROGEN VESSEL



100% RENEWABLE ENERGY PORTS



GREEN TUGS TRANSITION PROGRAMME



GREEN SHIPPING CORRIDORS



GREEN HYDROGEN



GREEN SHIPPING CORRIDORS



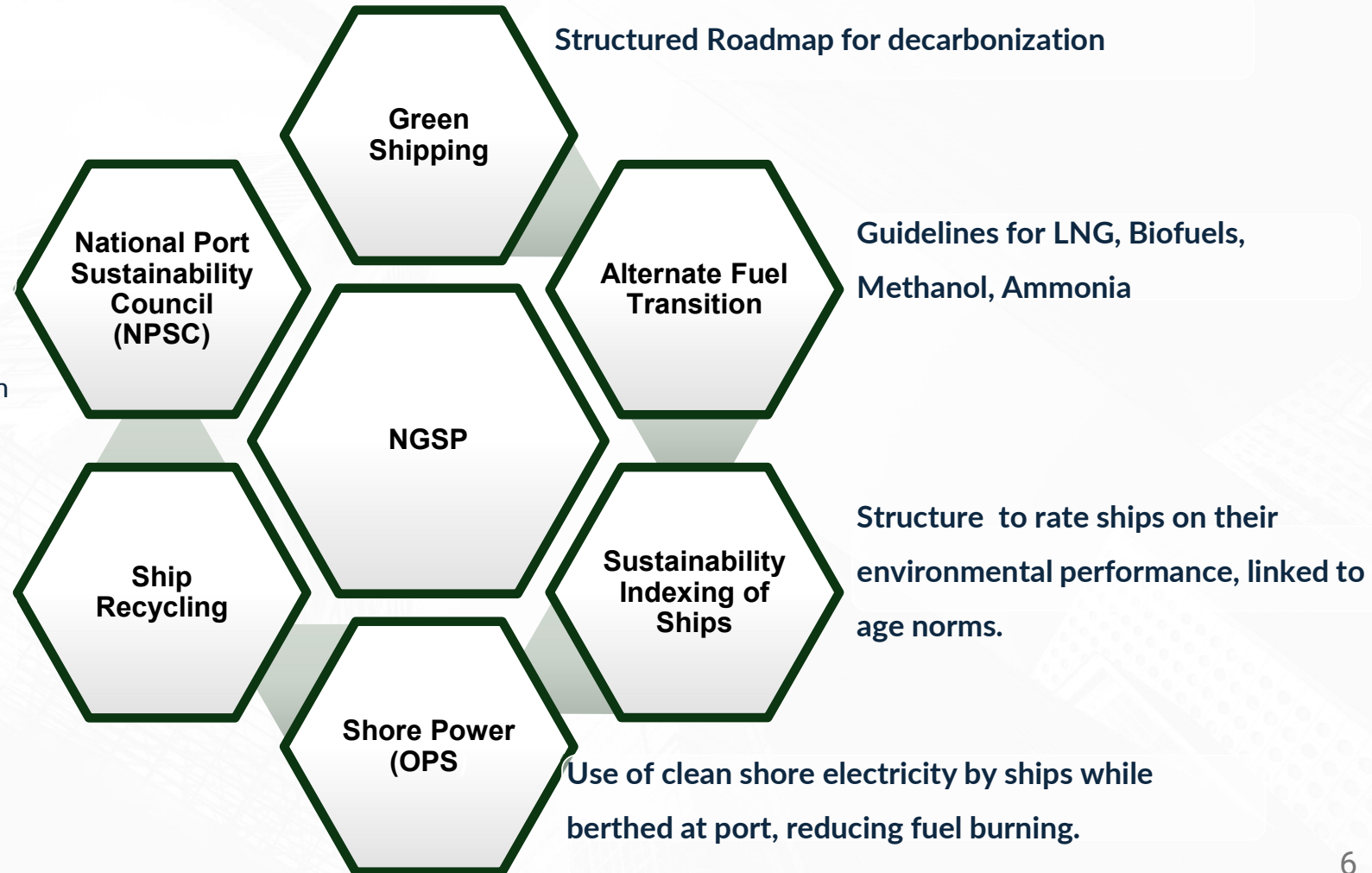
₹ 25,000 CRORES MARITIME DEVELOPMENT FUND

Sustainability : Green Shipping Initiatives



NPSC metrics include **Green Port Index (GPI)**, **Port Readiness Level (PRL)**, **Smart Port Shore Power Index (SPSPI)**, **Environmental Ship Index (ESI)**, and **GHG Emissions Inventory** to benchmark sustainability and readiness of Indian ports

With the Hong Kong Convention now in force, India leads globally with 115 compliant yards at Alang.



Shipbuilding Scenario in India



**30,000
GT**

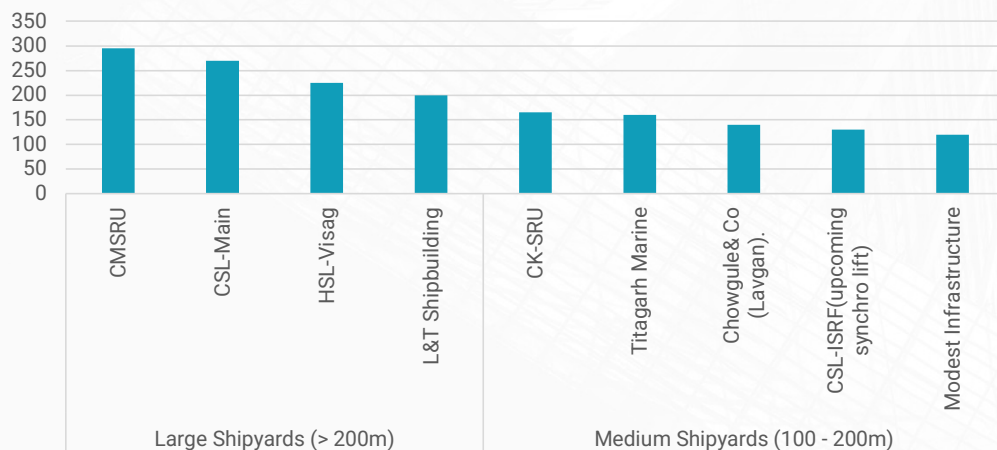
**Current Annual
Tonnage
Produced**

53*

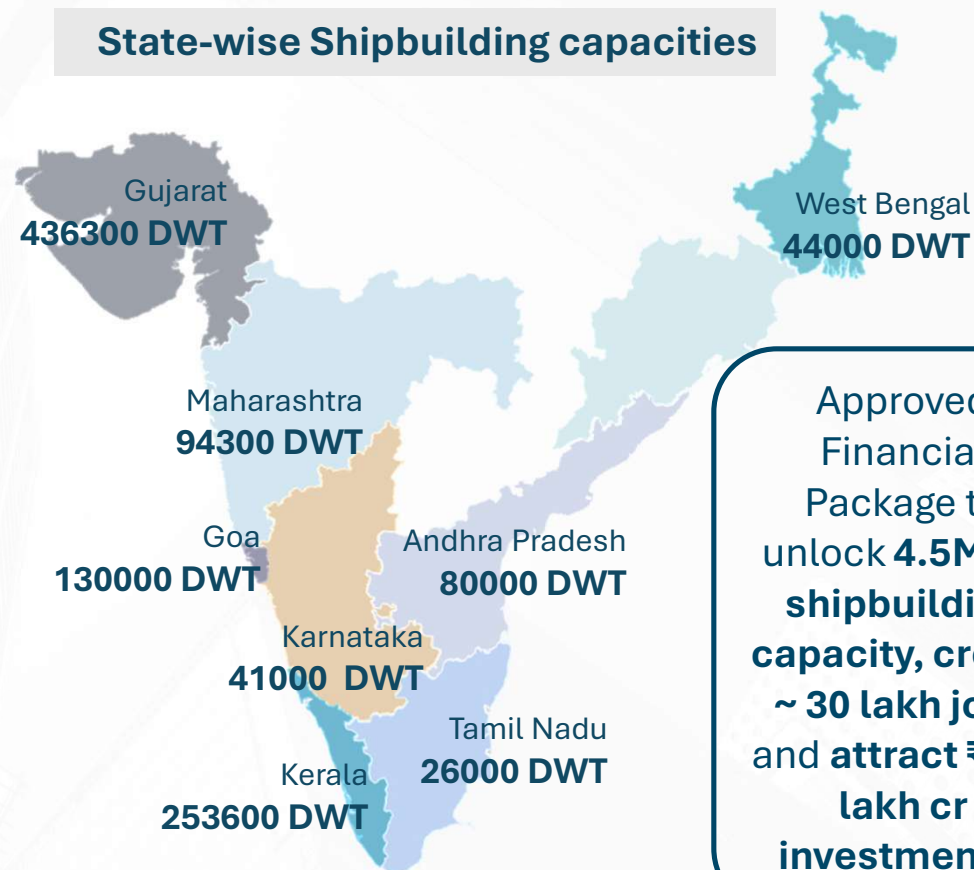
**Total Number of
Shipyards**

**Annual Report, MoPSW*

Shipyards with capacity based on Ship's length for docking



State-wise Shipbuilding capacities



Approved Financial Package to unlock **4.5M GT** shipbuilding capacity, create **~ 30 lakh jobs** and attract **₹ 4.5 lakh cr** investments.

Four Pillar Approach For Shipbuilding And Maritime Sector



Cabinet approves ₹ 69,725 crore Package to Revitalize India's Shipbuilding and Maritime Sector



Shipbuilding Financial Assistance scheme

Allocation: ₹24,736 crore

- Overcome cost differential vis-a-vis foreign shipyards.
- Credit note for new builds against ship scrapping in India
- Establish National Shipbuilding Mission



Maritime Development Fund

Allocation: ₹25,000 crore

- Enable long-term financing to maritime sector through equity & debt-based funding:
- Maritime Investment Fund
 - Interest Incentivization Fund
 - Credit Guarantee Fund



Shipbuilding Development Scheme (SbDS)

Allocation: ₹19,989 crore

- Greenfield cluster creation
- Brownfield capacity expansion to **4.5 million GT**
- Risk outlay for shipyards
- Setting up of India Ship Technology Centre (ISTC) as Apex body under IMU



Legal, Policy and Process Reforms

- Demand aggregation
- Large Ships as infrastructure
- Taxation issues
- Flagging reforms

Digital Initiatives in Training



Examination Reforms



MTI Modules- 3 + helpline and escalation matrix



Learning Management System



Web based simulation



Digitization of Training and Assessment Record (TAR)



Centralized Attendance system CAS 2.0



OMCV



Maritime Knowledge Cluster



Placement portal and authentic job portal



Maritime Single Window framework



Faculty development Program

India's Seafaring Scenario



- **India among top 5 maritime nations** in seafarer supply
- **Contributes ~ 12%** of the global seafarer workforce
- **MIV 2030 target:** Increase India's share to **20%** by 2030

- Current share of women seafarers in India: **< 0.5%**
- **MIV 2030 target:** Raise women participation to **2-3%** by 2030
- **Growth achieved: 339%** rise since 2021

Sagar Mein Yog

Sagar Mein Samman

Sagar Mein Yog is a **comprehensive wellness program** built on the integration of yoga, mindfulness, emotional resilience, physical health, and spiritual well-being.

Sagar Mein Samman (Honor at Sea) is the flagship initiative, **designed to transform India's maritime sector into a more inclusive, equitable, and aspirational ecosystem.**

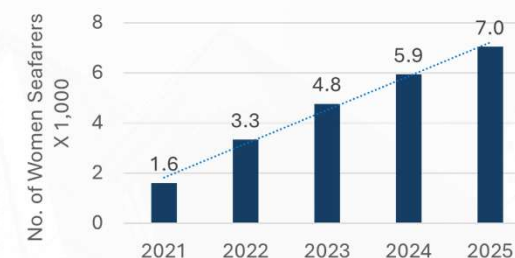
- In partnership with **NUSI** and knowledge partner Trijog
- Linked with MIV 2030 **Deliverable 10.16.3**
- A pilot 3 day ToT Programme was conducted in December with participations of ~56 trainers



LMS Link



Year on Year growth of Women Seafarers



- **National average: < 0.5%** women seafarers in India
- **Maritime India Vision 2030: 2-3%** women participation by 2030.

Transparency and Zero Tolerance for Fraud



Raising issue over the Call/SMS/WhatsApp

Helpline between 09:00 AM – 06.00 PM

Escalation mechanism for resolving query

Follow-up
Support and right guidance

Analysis & Correction and recurrence

Zero Tolerance in Crewing

DG Shipping follows a Zero Tolerance policy against fraud, cheating, and illegal recruitment of seafarers.

- A nationwide digital awareness campaign was launched through DG Shipping's social media platforms, publishing multiple videos on:
 - Fraudulent agents and fake job offers
 - Illegal payments to RPSL companies
 - Seafarers' rights
 - 24x7 Grievance redressal
- To strengthen outreach, DG Shipping conducted symposiums on seafarer recruitment and welfare.
 - Successfully held: Mumbai, Delhi
 - Planned next: Chennai, Kolkata

Social Media Outreach



For any queries on Maritime Training, course details, Guidance.

Please reach out to the Official helpline.

CONTACT: 8655798737

- ✓ Stay Informed
- ✓ Stay Compliant
- ✓ Stay Safe

Suraksha Sarvapratham

Safety First



DGS is focused on promoting safety on vessels and is set to launch a campaign called the Suraksha Sarvapratham, 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

Indian Global Maritime Safety Platform is being established as an unified digital platform that improves maritime safety, promotes risk-free professional practices,

Humans As The Paramount Element In The Maritime Industry



Human element is of paramount importance in the maritime industry as human skills, judgement and welfare drive maritime safety.

Harnessing Onboard Experience to Drive Further Growth

Technical & Operational Expertise



- Strong base in ship operations, navigation, cargo systems.
- Knowledge of IMO conventions, SOLAS, MARPOL etc.
- Familiar with SMS and compliance culture.
- Practical sea experience to support shore decision making.

Commercial & Business Understanding



- Awareness of chartering, ship ops, port logistics.
- Understanding of cost control, fuel efficiency.
- Link operations with commercial results.
- Exposure to contracts, insurance, risk management.

Transferable Skills



- Leadership & teamwork in diverse crews.
- Crisis handling & decision-making under pressure.
- Adaptability to office environment.
- Analytical, problem-solving approach.

Entrepreneurship Support



- Provide opportunities for retired officers to contribute to audits, inspections, curriculum development or safety awareness.
- Facilitate linkages with credit schemes, incubation centres, and business advisory services.

Technology & Digital Competence



- Experience with digital shipboard systems.
- Adaptability to ERP, analytics, fleet monitoring tools.
- Awareness of green fuels, smart shipping, AI.

Programmes such as the Executive MBA in Logistics, Supply Chain & Maritime Management by IIM Mumbai contribute to building this capability.



**संगच्छध्वं
संवदध्वं
सं वो मनांसि
जानताम्।**

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