



Harit Sagar Samachar

December 2025 | Issue 9

Welcome Note

Welcome to the ninth issue of Harit Sagar Samachar.

We are pleased to present the latest edition of **Harit Sagar Samachar**, your go-to source for innovation, updates, and best practices in sustainable maritime operations. This publication is designed to inform, inspire, and connect professionals dedicated to reducing the environmental footprint of ports and shipping activities.

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NCoEGPS Joins BIMCO Ship Recycling Alliance as Observer – Strengthening Efforts Toward a Sustainable Ship Recycling Roadmap

The **BIMCO Ship Recycling Alliance** was established to create a global platform dedicated to safe, responsible and environmentally sound ship recycling. The Alliance brings together shipowners, recyclers, and industry experts to promote international standards such as the **Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships (HKC)** and the **Basel Convention**. Its goal is to foster cooperation, transparency, and knowledge sharing to make ship recycling safer, greener, and more sustainable worldwide.

The **National Centre of Excellence for Green Ports & Shipping (NCoEGPS)** has recently been granted Observer Status within the BIMCO Ship Recycling Alliance. With this recognition, NCoEGPS will now participate in the Alliance's upcoming meetings — beginning with the one scheduled in **Hong Kong on 18 November 2025**.

This milestone comes at an important time, as NCoEGPS has already initiated work on developing a **Sustainable Ship Recycling Roadmap for India**, aimed at aligning national practices with international sustainability and safety standards. The Observer Status provides valuable opportunities for NCoEGPS to engage directly with global experts, gain insights into evolving international frameworks, and contribute to collaborative solutions for greener recycling practices.

As part of its ongoing efforts, the NCoEGPS team has already visited **Alang**, one of the world's largest ship recycling clusters, to understand on-ground realities and interact with stakeholders involved in ship dismantling and material recovery. Going forward, the team plans to strengthen dialogue with regulators, shipowners, recyclers, and local authorities to promote sustainable operations and worker welfare in the sector.

This association with BIMCO's Ship Recycling Alliance marks a significant boost for India's ship recycling ecosystem as "SRIA – Ship Recycling Industries Association of India" is a founding member in this alliance. It will enable NCoEGPS to bring forward sustainability-focused perspectives, better understand the challenges of recycling older vessels, and contribute to shaping a circular and responsible maritime economy.

NCoEGPS would also like to extend heartfelt thanks to Ms Gudrun Janssens, Head of EU Engagement at BIMCO, for her continued support and collaboration. Her guidance and facilitation have been instrumental in enabling NCoEGPS's inclusion in the Alliance and in strengthening ongoing efforts toward sustainable ship recycling and greener maritime practices.

Ayushi Srivastava
Associate Fellow





Green Initiatives

National Initiatives

VOC Port announces green methanol bunkering facility to boost sustainable shipping

Tuticorin's V.O. Chidambaranar (VOC) Port is taking a significant step towards sustainable maritime operations with the development of a Green Methanol Bunkering Facility, positioning itself as a frontrunner in India's green port transition. According to officials, the upcoming facility will feature a 750 m³ dedicated green methanol storage system connected through a 2.4-km pipeline network, enabling the safe and efficient transfer of green fuel to vessels.

[Read more...](#)

IWAI inks MoUs worth ₹3,000 crore to boost inland waterways and logistics in Northeast

The two primary MoUs were signed with Assam Petro-Chemicals Ltd. (APL) and the Government of Assam to strengthen Assam's inland water transport network and logistics ecosystem. Under the first agreement, IWAI and APL will collaborate to transport Methanol and Formalin via the Indo-Bangladesh Protocol Route and National Waterways. The initiative will enable exports from IWAI terminals at Bogibeel, Pandu and Jogighopa to Bangladesh and Southeast Asia, while also supporting

domestic cargo movement through National Waterway-1 and 2. [Read more...](#)

Mumbai Port Authority Opens Indira Dock Berths to Private Players for Sustainable Cargo Operations

In a major step towards enhancing efficiency and promoting sustainable business practices, the Mumbai Port Authority (MbPA) has invited private participation for the operation and maintenance of berths at the Indira Dock. The authority has issued an Expression of Interest (EoI) to attract leading trade partners for undertaking clean cargo handling, marketing, administration and overall management of the berths.

[Read more...](#)

Rajasthan to develop soon Inland Port & Waterway system up to Jalore

There is development in the project for an Inland Port in Jalore and a 262-Km Waterway, connecting the Arabian Sea with the Southwestern Rajasthani town via Kandla port. This will transform the life, the economy, and the ecology of the desert state. A memorandum of understanding (MoU) has already been signed between the Rajasthan River Basin, Water Resources Planning Authority, and Inland Waterways Authority of India on October 28 during the India Maritime Week 2025 in Mumbai, State Water Resources Minister Suresh Rawat said on Tuesday. [Read more...](#)

HSL, APMB sign MoU to explore greenfield shipyard development in Andhra Pradesh

Hindustan Shipyard Limited (HSL), a Defence Public Sector Undertaking under the Ministry of Defence, has signed a Memorandum of Understanding (MoU) with the Andhra Pradesh Maritime Board (APMB) to explore the development of a greenfield shipyard in the state. The agreement was formalised during the 30th CII Partnership Summit 2025 held in Visakhapatnam. [Read more...](#)

Uttar Pradesh Accelerates Inland Waterways Expansion with Major MoUs Signed at India Maritime Week 2025

Inland Waterways Authority of India (IWAI), the nodal agency under the Ministry of Ports, Shipping & Waterways (MoPSW) for development of waterways in the country, made major announcements for development and stepping up Uttar Pradesh's inland waterways network, signing key agreements at India Maritime Week 2025 (IMW). IWAI signed MoUs worth more than ₹6,000 crores for development and expansion of Inland Waterways network on river Ganga (NW 1). [Read more...](#)

Development Of One Nation One Port Framework

The Ministry of Ports, Shipping and Waterways has initiated the "One Nation One Port Process" framework to standardize



port operations across India, including Andhra Pradesh. This initiative aligns with the National Logistics Portal – (Sagar Setu) for the electronic submission and processing of ship-related data. It aims to meet International Conventions and brings together key stakeholders such as Port

Authorities and Customs onto a single platform. [Read more...](#)

Mr Sonowal flags off India's first all-electric tug project

India's first all-electric green tug was virtually flagged off by Union Minister Sarbananda Sonowal, marking a significant step towards sustainable

maritime operations. This tug, intended for Deendayal Port Authority in Kandla, is part of the Ministry of Ports, Shipping and Waterways' Green Tug Transition Programme, which focuses on advancing maritime decarbonisation in India.

[Read more...](#)

International Initiatives

Singapore and the Republic of Korea Ink Agreement to Establish Green and Digital Shipping Corridor

The Ministry of Transport of the Republic of Singapore and the Ministry of Oceans and Fisheries of the Republic of Korea have signed a Memorandum of Understanding (MOU) to establish the Singapore-ROK Green and Digital Shipping Corridor. The MOU was signed by Singapore's Acting Minister for Transport Mr Jeffrey Siow, and his counterpart, ROK's Minister of Oceans and Fisheries Mr Chun Jae Soo. 2025. [Read more...](#)

New MoU looks to advance maritime education in Hong Kong

On 18 November, The International Union of Marine Insurance and the Hong Kong Maritime and Port Development Board (HKMPDB) signed an Memorandum of Understanding (MoU) to advance maritime education.

As informed, the MoU the builds on a shared commitment to

enhancing high-quality maritime education and the nurturing of talent in Hong Kong's maritime industry. [Read more...](#)

New initiative to establish large-scale hydrogen port infrastructure in Korea

Hyundai Motor Group announced on 11 November a multilateral Memorandum of Understanding (MoU) with Pyeongtaek City and key partners to develop carbon-neutral hydrogen port initiatives. As announced, the partnership aims to establish Korean model for port decarbonization and contribute to national carbon neutrality goals. Under the agreement, Hyundai Motor Company will oversee hydrogen-related business strategy, while Kia Corporation and Hyundai Glovis Co. will introduce and operate hydrogen fuel cell power generators at their facilities in Pyeongtaek Port. [Read more...](#)

Hong Kong charts course towards shipping's green transformation

The Hong Kong Government announced the establishment of the Green Maritime Fuel Development Communication Platform, a major initiative to

accelerate the creation of a green maritime fuel bunkering supply chain. The platform is a key component of the Action Plan on Green Maritime Fuel Bunkering issued by the Transport and Logistics Bureau last year, which set out five strategies and 10 actions to position Hong Kong as a regional centre for green maritime fuel bunkering and trading. [Read more...](#)

Ports of Tallinn and Stockholm to collaborate on green initiatives

The Port of Tallinn and Ports of Stockholm signed a Memorandum of Understanding (MoU) on 4th of November to launch the Swed-Est Green Collaboration aimed at promoting sustainable and fossil fuel free maritime activities between Estonia and Sweden. The Memorandum covers a range of joint activities and targets to be implemented across four ports, focusing on reducing emissions, improving energy efficiency, and promoting circular economy practices. [Read more...](#)





News Highlights

Ports of Los Angeles and Long Beach commit to 'bolstered' zero-emission initiative

November 12, 2025 |
Source: Offshore Energy

The Long Beach Board of Harbor Commissioners has issued a stamp of approval for a cooperative agreement with the South Coast Air Quality Management District (SCAQMD) and the Port of Los Angeles encompassing "time-bound and enforceable" commitments to develop zero-emissions infrastructure at the ports' complex. As disclosed, the cooperative agreement, which was officially greenlit on November 7, envisions that the ports of Los Angeles and Long Beach create and implement plans for zero-emission infrastructure for equipment types in three phases.

[Read more...](#)

NOCC's first LNG dual-fuel PCTC named in China

November 18, 2025 |
Source: Offshore Energy

NOCC has named its first LNG dual-fuel pure car and truck carrier (PCTC), NOCC Pacific, built by CIMC Raffles in China. The 7,000-CEU vessel, unveiled on November 14 at Longkou Shipyard, is the first of three ships ordered and marks a key milestone in NOCC's fleet upgrade and support for greener shipping. Measuring 199.9m by 38m with

a service speed of 19 knots, it features dual-fuel engines, two type-C LNG tanks, and delivers zero emissions in port. The vessel carries DNV's 'Ammonia-Ready' and the new 'EV notation', making it the world's first PCTC meeting this electric-vehicle safety standard. It is also the 15th PCTC delivered by CIMC Raffles and the seventh scheduled from Longkou in 2025. [Read more...](#)

Port of Oslo rewards green shipping initiatives

November 19, 2025 |
Source: Shippax

The Port of Oslo is introducing new incentives to accelerate green shipping and support the city's climate goals. A bonus-malus system will exempt zero-emission vessels from quay fees, while ships using shore power or achieving strong environmental scores will receive discounts. Vessels that fail to adopt greener options will pay higher charges. Since 2018, the port has invested NOK 225 million in zero-emission infrastructure, including shore-power systems and fast-charging stations, contributing to a 26% reduction in port-related emissions. The port aims to become a zero-emission port by 2030 and a global leader in sustainable maritime transport. [Read more...](#)

Singapore Awards Three Methanol Bunkering Licenses

November 24, 2025 |
Source: Seatrade Maritime

Global Energy Trading, Golden Island, and PetroChina International, have been successful in a call for applications for methanol bunkering licenses by the Maritime & Port Authority of Singapore (MPA). The licenses are valid for five years from 1 January 2026. MPA said the three suppliers were selected and were chosen through a "comprehensive evaluation process that assessed supply chain reliability, operational readiness, safety systems, and the sustainability certification of the methanol to be supplied". Singapore received Expression of Interest (EOI) for methanol bunkering over 50 proposals. [Read more...](#)

IMO picks Council members but Net Zero Framework hiatus raises red flag for potential fragmentation of shipping decarbonisation

December 1, 2025 |
Source: Offshore Energy

The Assembly of the International Maritime Organization (IMO), a specialized agency of the United Nations responsible for regulating and improving international shipping has elected Member States to serve on three categories of the IMO Council. Meanwhile,



EmissionLink's Managing Director has warned that the IMO's decision to delay its Net Zero Framework is creating a regulatory vacuum which threatens to fragment global shipping decarbonization efforts. [Read more...](#)

APSRTC's Vijayawada Zone posts record *120 crore cargo revenue, set to cross Rs 140 crore this year

December 1, 2025 |
Source: The Shipping Tribune

The Vijayawada Zone of the APSRTC achieved record revenue through cargo shipment services this year, recording around Rs 120 crore in revenue by October. This surpassed last year's total revenue of Rs 114 crore. The RTC authorities estimated that the revenue would cross Rs 140 crore by the end of the year, marking a significant achievement in cargo shipment services. Officials attributed the jump in revenue to the deployment of cargo vehicles directly at market areas, from where agricultural goods, mainly perishable items, are transhipped to various destinations. [Read more...](#)

ADB Supports Green Port and Shipping Development in Anhui Province, PRC

December 1, 2025
The Asian Development Bank (ADB) has approved a loan of CNY755.64 million (\$106.05 million equivalent) to support the development of green, smart, and resilient inland river ports and clean-energy shipping in Anhui Province of

the People's Republic of China (PRC). [Read more ...](#)

VOC Port Becomes the First Port to Produce and Use Green Hydrogen On-Campus

December 2, 2025

V.O. Chidambaranar Port Authority (VOCPA), Tuticorin, has marked a major milestone in India's green maritime transition by becoming the first port in the country to produce and utilise green hydrogen within its campus. [Read more...](#)

First four green corridors hit 'realisation' stage

December 2, 2025 |
Source: Sagar Sandesh

The Getting to Zero Coalition and the Global Maritime Forum have called for continued momentum on green shipping corridors in their new report At a Crossroads: The report identifies 25 new green shipping corridor projects including in China, India, Brazil, Chile, Ghana, and Kenya bringing the total to 84 initiatives globally. Grouped by development stage, 24 green corridors are at the earliest initiative stage, 16 are in the early stages of exploration, 28 are in the advanced stage of exploration, 12 are in the preparation stage, and four are in the most advanced realisation stage. The four green corridors in the realisation stage are Oslo-Rotterdam, Stockholm-Turku, Vaasa-Umeå, and the only deep-sea route Australia-East Asia Iron Ore. The Stockholm-Turku and Vaasa-Umeå corridors have both entered operation. [Read more...](#)

VO Chidambaranar Port Authority orders India's first fully electric tug under green tug transition programme

December 3, 2025 |
Source: India Seatrade News

V.O. Chidambaranar Port Authority (VOCPA), under the Ministry of Ports, Shipping and Waterways, has taken a significant step towards decarbonizing port operations with the procurement of a state-of-the-art fully electric tug. The initiative is part of the Government of India's ambitious Green Tug Transition Programme (GTTP), aimed at replacing diesel-powered tugs with low- and zero-emission alternatives. [Read more...](#)

Adani Ports cargo volumes in November increase 14% to 41 MMT

December 3, 2025 |
Source: CNBC18
Adani Ports and Special Economic Zone Ltd. said it handled 41 million metric tonne (MMT) cargo in November 2025, marking a 14% increase from the previous year, driven by strong growth in container and dry cargo movement. In October, cargo volumes stood at 40.2 million metric tonne. Container volumes rose 20% during the month under review, while dry cargo volumes were up 10% from the previous year, Adani Ports said in an exchange filing. [Read more..](#)



Green Corner

The Emerging Role of Nuclear Power in Maritime Decarbonisation

- Green hydrogen, ammonia, and other e-fuels dominate current decarbonisation discussions, scaling these fuels sustainably remains a challenge. Nuclear energy, with its high energy density and near-zero lifecycle emissions, is rapidly re-entering the conversation as a viable enabler of net-zero shipping.

Why Nuclear? A Data Snapshot

- 32,790-ton cargo ship consumes ~63 tons of fuel/day, emitting over 200 tons of CO₂/day.
- A 14–15 MW(e) onboard small modular reactor (SMR) could replace this fuel use entirely.
- 1 ton of nuclear fuel can power a ship for several years, far surpassing the energy density of fossil fuels or batteries.
- Nuclear-enabled hydrogen, ammonia, and methanol could tap into high-availability, low-carbon baseload energy, avoiding renewable intermittency issues.

Five Pathways Nuclear Can Support

- SMR-powered electric vessels: Zero emissions, proven tech (icebreakers, naval vessels), no refuelling stops.
- Grid-charged electric ships using port-side nuclear power: Battery charging near major ports through land-based reactors.
- Nuclear-assisted green hydrogen: High-purity hydrogen production for fuel cells or engines.
- Nuclear-enabled green ammonia & methanol: Scalable fuels produced using nuclear hydrogen + DAC/air separation systems.
- Nuclear-upgraded sustainable biofuels: Biomass-based fuels refined with nuclear heat and hydrogen.

Key Advantages

- Consistent output: Nuclear plants operate at high capacity factors (>90%), enabling stable fuel production.
- Minimal land footprint: A nuclear facility requires drastically less land than equivalent renewable capacity.
- Sector-wide spillover: Nuclear cogeneration can serve shipping, ammonia, fertilizer, and industrial clusters simultaneously.
- ESG uplift: Nuclear-aligned shipping pathways can strengthen ESG ratings and reduce exposure to carbon pricing.

Outlook

- While not a stand-alone solution, nuclear energy offers one of the few scalable, dispatchable pathways that can meet the maritime sector's immense energy demands without increasing land or mineral pressures. [Read More...](#)





Upcoming Events

Connectivity Investment Conference on Green and Efficient Ports

04th to 05th December 2025

Beijing, China | [Read more...](#)

11th Pan Asian Association of Maritime Engineering Societies (PAAMES) Forum & Advanced Maritime Engineering Conference (AMEC) 2025

10th to 12th December 2025

National University of Singapore (NUS), Singapore | [Read more...](#)

8th International Conference on Ship & Offshore Technology (ICSOT) – India

12th to 13th December 2025

IIT Kharagpur, West Bengal, India | [Read more...](#)

Maritime Decarbonization Conference, Americas 2026

22nd to 23rd January 2026

Houston, Texas | [Read more...](#)

The 26th DNV Nordic Universities Workshop

29th to 30th January 2026

Tromsø, Norway | [Read more...](#)

Maritime Policies & Guidelines

The Coastal Shipping Act, 2025

The Coastal Shipping Act, 2025 consolidates laws regulating vessels in India's coastal waters, promotes domestic participation, and strengthens maritime security. It provides for penalties, including vessel detention, for offences like operating without a licence or providing false information, and mandates a National Coastal and Inland Shipping Strategic Plan within two years. Lawmakers emphasized its role in boosting Make in India, environmental benefits, economic growth, self-reliance, and empowering coastal regions. Currently, coastal shipping accounts for just 6-7% of logistics traffic, and the Bill aims to expand this significantly, making trade more competitive and accessible. [Read More...](#)

The Merchant Shipping Act, 2025

The Merchant Shipping Act, 2025 marks a transformative milestone for India's maritime sector. Replacing the Merchant Shipping Act, 1958, and the Coasting Vessels Act, 1838, the new law introduces a modern, facilitative framework aligned with international conventions. Key provisions include electronic and remote vessel registration, expanded vessel ownership for Indians, NRIs, OCIs, and co-operatives, and recognition of bareboat charters. Safety, environmental protection, and maritime security are strengthened through adherence to MARPOL, Nairobi Wreck Removal, Salvage, and MLC conventions. Streamlined clauses reduce compliance burdens, while seafarer welfare, training, and professional standards are reinforced. By simplifying regulations, boosting investor confidence, enhancing employment opportunities, and supporting sustainable growth, the Act positions India as a global maritime hub, advancing the Maritime India Vision 2030 and Maritime Amritkaal Vision 2047. [Read More...](#)

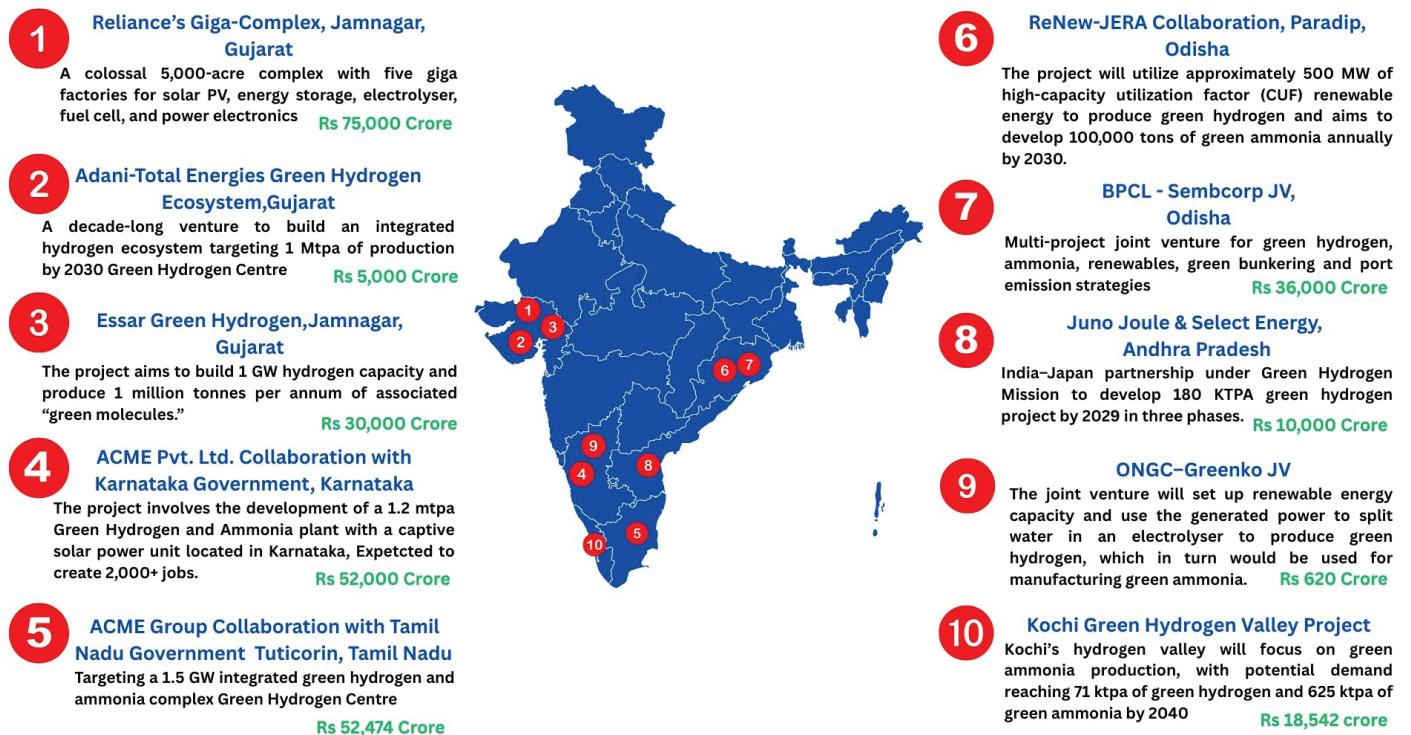
DID YOU KNOW?

The Kite sail system for shipping allows for a CO₂ reduction of up to 90 percent compared to a conventional ship with the same capacity, while offering an absolutely acceptable cruising speed. [Read More...](#)



Infographic Section

Mega Green Hydrogen Projects in India



Source: www.swarajyamg.com, www.adani.com, www.eqmagpro.com, www.business-standard.com, www.essar.com, www.semcorp.com, www.thehindu.com, www.greenKogroup.com, www.renew.com, www.energyforum.com

DID YOU KNOW?

V.O. Chidambaranar Port records a remarkable 61% rise in windmill blade and accessory handling, reaching 2,300 units up to October 2025. [Read More...](#)



Latest Announcements

- **India's First Indigenous Hydrogen Fuel-Cell Vessel Flagged Off in Varanasi**

Union Minister Sarbananda Sonowal flagged off India's inaugural indigenous hydrogen fuel-cell vessel in Varanasi, marking a pivotal stride in sustainable inland water transport. This groundbreaking launch underscores the nation's commitment to green technology and zero-emission solutions in the maritime. [Read more...](#)

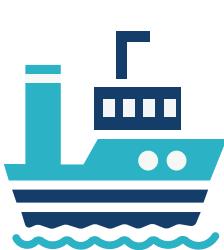
- **India re-elected to the Council of International Maritime Organisation for the biennium 2026-27 with highest tally**

India has been re-elected to the Council of the International Maritime Organization (IMO), London, in Category B of 10 members comprising of countries with the largest interest in international seaborne trade. India secured the highest number of votes in this category, receiving 154 out of 169 valid votes casted during the election. [Read more...](#)

- **The Union Minister for Ports, Shipping and Waterways (MoPSW), Sarbananda Sonowal Inaugurates 3rd Global IALA Council Session in Mumbai, Unveils Digital Portal for Lighthouse Tourism**

The Union Minister for Ports, Shipping and Waterways (MoPSW), Sarbananda Sonowal virtually inaugurated the 3rd Session of the Council of the International Organization for Marine Aids to Navigation (IALA) held in Mumbai today. The Union Minister also launched the Digital Ticketing Portal for Lighthouse Tourism, marking a major step toward digital visitor services for improved access to lighthouse destinations across India. [Read more...](#)

Visit the NCoEGPS Portal at <https://green-port-shipping.org> to explore resources on green ports and sustainable shipping. You can also access back issues of Harit Sagar Samachar directly at <https://green-port-shipping.org/NCoEGPSPublication>



Call for Contributions

Be a participant in the Next Issue of

Harit Sagar Samachar

Send in your:

- Short articles • Case studies • Opinions
- Photos & infographics

On themes such as Port decarbonization strategies; Green shipping corridors; Alternative fuels (LNG, hydrogen, etc.); Digital tools for sustainability; and Gender leadership in green shipping

Submit by: December 31, 2025

Send to: ncoegps@green-port-shipping.org/reetas@teri.res.in

Together Towards a Greener Future

For feedback and contributions email us at: ncoegps@green-port-shipping.org