



SAGAR SAMPARK

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Why in News?

The **Ministry of Ports, Shipping, and Waterways of India** has inaugurated '**SAGAR SAMPARK**', that marks a significant step towards **digital transformation in the [maritime industry](#)**.

What is SAGAR SAMPARK?

▪ About:

- It is an indigenous **Differential Global Navigation Satellite System (DGNSS)**.
 - DGNSS is a **terrestrial based enhancement system** which corrects the errors and inaccuracies in the Global Navigation Satellite System (GNSS) allowing for more accurate positioning information.
- The introduction of the DGNSS system will have a **profound impact on maritime navigation**, enabling safer and more efficient movement of **vessels in port and harbor areas**.

▪ Features:

- **Enhanced Safety:** The DGNSS service will assist mariners in safe navigation, reducing the risk of collisions, groundings, and accidents at sea.
- **Accuracy Improvement:** The DGNSS significantly improves the accuracy of GPS positioning, reducing errors caused by atmospheric interferences, satellite clock drift and other factors.
- **Redundancy and Availability:** The DGNSS incorporates multiple satellite constellations like **GPS and Global Navigation Satellite System (GLONASS)**, ensuring increased availability and redundancy as per international standards.
- **Precise Positioning:** Mariners can now improve their positioning **within 5 meters using the latest DGNSS system**, enabling better navigation and reducing the margin of error.
- **Meeting International Obligations:** The DGNSS fulfills the international obligations of the **[International Maritime Organization \(IMO\)](#), **Safety of Life at Sea (SOLAS)**, and the **International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA)**.**

Note:

- **Safety of Life at Sea:** The **International Convention for the Safety of Life at Sea (SOLAS)**, is an important international treaty concerning the safety of merchant ships.
 - It ensures that ships comply with minimum safety standards in construction, equipment and operation of ships.
- **International Association of Marine Aids to Navigation and Lighthouse Authorities:** IALA is a non-profit, international technical association.
 - Established in 1957, IALA encourages its members to work together in a common effort to harmonise **Marine Aids to Navigation worldwide** and to ensure that the **movements of vessels are safe, expeditious and cost-effective while protecting the environment**.

What are the Other Government Initiatives Related to Maritime Security?

- **NavIC:** [NavIC](#) or **Indian Regional Navigation Satellite System (IRNSS)** is designed with a constellation of **7 satellites and a network of ground stations operating 24×7**.
 - NavIC coverage area includes **India and a region up to 1500 km beyond Indian boundary**.
 - IMO has recognized NavIC as a component of the **World-Wide Radio Navigation System (WWRNS)**.
- **SAGAR Vision:** In 2015, India unveiled its strategic vision for the Indian Ocean i.e. [Security and Growth for All in the Region \(SAGAR\)](#) to improve relations with its maritime neighbours on the economic and security fronts.
- **Indian Ocean Naval Symposium:** The [IONS](#) is a voluntary and inclusive initiative that brings together navies of **Indian Ocean Region (IOR)** littoral states to increase maritime co-operation and enhance regional security.
- **Maritime India Vision 2030:** It aims to accelerate the growth of the maritime sector over the next decade by **enhancing infrastructure, efficiency, services and capacity across ports, shipping and waterways**.

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