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News: Sagar Samriddhi

Sagar Samriddhi

- Sagar Samriddhi is an **online dredging monitoring system developed and launched by National Technology Centre for Ports, Waterways and Coasts (NTCPWC), the technological arm of the Ministry of Ports, Shipping & Waterways (MoPSW).**
- The system **improves upon the old Draft & Loading Monitor (DLM) system.**
- The system aims to **enhance productivity, contract management, and promotes effective reuse of dredged material.**
- It **aligns with the vision of Atmanirbhar Bharat (Self-reliant India) and Make in India, strengthening the country's technological capabilities.**

Capabilities

- Real time dredging progress report.
- Daily and monthly progress Visualization.
- Dredger performance and downtime monitoring.
- Easy location track data with snapshot of loading, unloading and idle time.

Significance

- By minimizing human error through technology, the system improves project implementation, reduces dredging costs, promotes environmental sustainability, and enhances transparency and efficiency.
- The annual maintenance dredging at Major Ports and Waterways is around 100 million cubic meters, for which about Rs.1000 crores are spent each year by the Ports and Inland Waterways Authority of India.
- By implementing the Addendum and using the 'Sagar Samriddhi' system, the dredging cost will significantly decrease, ensuring transparency and efficiency.
- The system enables better project planning, reduces operational costs, and facilitates the development of deep draft Ports.

Dredging

- Dredging is the removal of sediments and debris from the bottom of lakes, rivers, harbors, and other water bodies.
- This is necessary because over time, sediment builds up and makes the waterways too shallow for boats and ships to navigate safely.

- The main purpose of dredging is to **maintain or increase the depth of navigation channels, anchorages, and berthing areas so that larger ships can pass through and transport goods.**
- This is crucial for the economy, as these ships carry a significant portion of the country's imports.
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