



2nd Annual Conference on

MODERNISATION, MECHANISATION AND DIGITAL TRANSFORMATION OF PORTS

May 7-8, 2018

ITC Maratha, Mumbai

Organiser:

**Indian
Infrastructure**

Supported by:



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MODERNISATION, MECHANISATION AND DIGITAL TRANSFORMATION OF PORTS

Mission

- The past two years have been quite eventful for the Indian port sector, particularly with regard to technology deployment at both the major and non-major ports.
- The replacement of manual forms by web-based e-forms, introduction of direct port delivery, installation of container scanners, and radio frequency identification (RFID)-based systems for gate automation, paperless transactions, digitisation of land records, automation of issuance of delivery orders, launch of single-window interface for facilitating trade (SWIFT), integration of more seaports with port community systems (PCS) are some of the major initiatives that have been taken. Increasing automation has also led to an enhanced focus on developing smarter, green and sustainable ports.
- The adoption of new technologies is being driven by the need to improve operational efficiency and customer service, as well as to increase utilisation of the existing infrastructure. Launched in 2015, the government's flagship programme, Sagarmala, also ranks modernisation and ease-of-doing business as its key components.
- However, when compared to the global scenario, Indian ports are still at a nascent stage of technology adoption. Driven by cost and performance efficiencies, foreign ports are extensively using cloud computing, internet of things (IoT), big data, robotics, video analysis, wireless RF, port information management systems, drones, 3D printing and sensor technologies.
- Factors such as the shortage of trained and skilled manpower for operating advanced equipment, a general reluctance to adopt new technologies, strict labour laws, the presence of old and obsolete equipment and server issues are impacting the pace of technology uptake at Indian ports.
- Nevertheless, going forward, Indian ports offer significant opportunities for technology and equipment providers. To capitalise on the opportunity, a timely review of ease-of-doing business at ports needs to be taken to adapt to the changing industry requirements. To bring down the turnaround time for ships, rakes and trucks, green channels can be made available at the ports. The government can also look at standardising technology implementation rules at Indian ports, both major and non-major.
- **The mission of this conference is to identify the challenges, opportunities and future potential for modernisation, mechanisation and digital transformation in the port sector. It will also showcase the latest innovations and the most promising and relevant technologies for Indian ports.**

Target Audience

The conference is targeted at:

- Ports and Terminals (Public, private)
- Maritime boards/State port departments
- Captive port and jetty operators
- Shipping lines
- Specialized equipment and port technology providers
- RFID system providers
- VTMS solution providers
- Data Centre solution providers
- Providers of operational technologies technologies (SCADA, C&I, GIS, etc)
- Equipment manufacturers/leasing companies
- Renewable energy developers (solar, rooftop and wind)
- Security and surveillance solution providers
- Providers of information technologies (ERP, big data, CRM, cloud, etc)
- Cyber security providers/System Integrators
- IT hardware manufacturers
- Communication/Connectivity solution providers
- Consultancy organizations
- Investors/private equity firms, etc.

Previous participants

Some of the companies that participated in our previous conference include: ABB India, Adani Ports and SEZ, Anupam Industries, Bar Code India, Beckett Rankine India, BMT Consultants India, Cargotec India, Cavotec, Cochin Port Trust, Conceptia Software Technologies, DNV-GL, DP World, DP World-Nhava Sheva International Container Terminal, Elecon EPC Projects, Envecon IT, Fugro Survey, GreyM Marine, IIC Technologies, IL&FS Maritime Infrastructure Company, Intech Creative Services, Jawaharlal Nehru Custom House, Jindal Steel & Power, JM Baxi Group, Kalmar Global, Kalmar Middle East JLT, Kamrajar Port, Kandla International Container Terminal, Ketiot, Kolkata Port, Larsen & Toubro, Liebherr India, Lloyd's Register, Logstar ERP, Maersk Line India, Ministry of Shipping Govt of India, Oiltech Engineering, Omnia Tags, Praja Controls & System, PSTS Logistics, Siemens, Suraj Informatics, Tata Consulting Engineers, Tata Projects, TRF, Trimble, UltraTech Cement, Unison, Vedanta, Zephir, etc.

AGENDA/STRUCTURE

STAKEHOLDERS' PERSPECTIVE

GOVERNMENT PERSPECTIVE: FOCUS ON OPPORTUNITIES UNDER SAGARMALA

- What is the progress on the Sagarmala programme?
- What are the modernisation, mechanisation and digital transformation requirements of ports under the Sagarmala programme?
- What are the opportunities for technology and equipment providers?
- What are the likely challenges? How can these be addressed?

PORT OPERATORS' PERSPECTIVE (MAJOR AND NON-MAJOR)

- What is the perspective of port operators on the modernisation, mechanisation and digital transformation of port infrastructure and services?
- What are their current and future requirements?
- What are their expansion plans in this area?

CUSTOMS FACILITATION: ISSUES & CHALLENGES

- What steps have been taken for the facilitation of customs procedures at Indian ports?
- What are the key issues and challenges?
- What new initiatives or developments can be expected in the next few years?

MODERNISATION, MECHANISATION AND DIGITAL TRANSFORMATION OF PORTS: TRENDS, EXPERIENCE AND OPPORTUNITIES AT INDIAN PORTS

KEY TRENDS AND OUTLOOK

- What are the key trends and developments in the Indian port sector?
- What are the key drivers for modernisation, mechanisation and digital transformation in the port sector?
- What are the issues and challenges?
- What are the new and emerging technologies? What is the future outlook?

IT AND AUTOMATION IN PORTS

- What is the role of IT and automation in various port operations (cargo tracking and management, yard management, gate automation, etc.)?
- What is the current status of IT adoption in these areas? What is the future outlook?
- What are the global advancements? What lessons can be learnt?

OPTIMISING CONTAINER TERMINAL PRODUCTIVITY

- What are the various technologies being used at the container terminals? What has been the experience so far?
- What are the current and future requirements?
- What are the most promising applications in the container business?
- What are the global advancements? What lessons can be learnt?

PORT COMMUNITY SYSTEM

- What is the current scenario with regard to the implementation of PCS at Indian ports?
- What are the current and future requirements?
- What are the key issues and challenges?

ERP IMPLEMENTATION AT PORTS

- What are the emerging ERP requirements of the Indian port sector?
- What are the new enhancements offered by vendors?
- What are the key issues and challenges?

FOCUS ON GREEN TECHNOLOGY/EQUIPMENT

- What are the steps being taken to improve energy efficiency in port operations?
- What are the technology options available in this regard?
- What are the global advancements? What lessons can be learnt?

VESSEL TRAFFIC MANAGEMENT SYSTEM (VTMS)

- What is the current scenario with regard to the implementation of VTMS at Indian ports?
- What are the emerging requirements? What are the new enhancements offered by vendors?
- What are the key issues and challenges?

CYBERSECURITY SOLUTIONS

- What are the strategies adopted by ports to enhance cybersecurity?
- What are the technologies and solutions for managing cybersecurity risks?
- What are the global best practices?

EMERGING TECHNOLOGIES: IoT, CLOUD COMPUTING, BIG DATA ANALYTICS, AND GEOGRAPHIC INFORMATION SYSTEM (GIS)

INTERNET OF THINGS

- What is the promise of IoT for the Indian port sector?
- What specific benefits can the sector draw from IoT?
- What has been the experience globally? What are the key issues and challenges?

BIG DATA ANALYTICS

- What are the key applications of big data analytics for the Indian port sector?
- What specific benefits can the sector draw from big data analytics?
- What will be the key drivers for its adoption?
- What has been the experience globally? What are the key issues and challenges?

CLOUD COMPUTING

- What is the promise of cloud computing for the Indian port sector?
- What specific benefits can the sector draw from cloud computing?
- What has been the experience globally? What are the key issues and challenges?

GEOGRAPHIC INFORMATION SYSTEM (GIS)

- What are the key applications of GIS and other spatial solutions in the sector? What are the specific solutions on offer?
- What are the key issues, challenges and opportunities?
- What has been the experience globally? What are the key issues and challenges?

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors in India. The company publishes **Indian Infrastructure** magazine. It also publishes the **Ports in India**, **Dredging in India**, **Container Market in India** and **Railways in India** research reports, as well as **Ports & Shipping News** (a weekly newsletter) and the **Ports Directory and Yearbook**.

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2	40,000	7,200	47,200	787
3	55,000	9,900	64,900	1,082
4	70,000	12,600	82,600	1,377

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