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A VIRTUAL CONFERENCE

DIGITAL TRANSFORMATION OF PORTS & TERMINALS

Emerging Needs, New Solutions and Future Potential

February 17, 2021

Organiser:

**Indian
Infrastructure**

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Digital Transformation of Ports & Terminals

Mission

- Indian ports are witnessing technology adoption at a never seen before pace. Ports are making substantial investments in smart digital solutions. The non-major ports have started deploying more sophisticated technologies to not only increase their efficiency levels but also to outperform the major ports.
- A digital transformation roadmap for select Indian ports has been created to improve efficiency and increase productivity. Over 50 digital and technology modules have been identified across cargo and vessel operations, among others. A number of ports have also implemented solutions such as enterprise business systems (EBS) to modernise and automate port processes, gate automation and RFID gates to reduce human intervention, geographic information systems, and automated container yard positioning.
- Ports are now looking at advanced technologies such as artificial intelligence, blockchain and IoT, and the use of drones for seamless operations. Video analytics is an emerging technology being considered for container operations. Robotics is being used for gate automation. Real-time tracking of containers has been made possible with IoT, while the introduction of sensor systems will facilitate a reduction in the wait time.
- The Covid-19 outbreak has certainly increased the adoption of technology-based solutions at ports. One of the biggest technological initiatives taken amidst the ongoing pandemic is the digital issuance and approval of documents. Customs authorities too have been quick to adapt to the changed requirements.
- Going forward, the opportunity in the digital transformation space is enormous. Sagarmala too has port modernisation as one of its core components. This makes it imperative to deploy technology-based solutions and modern equipment at ports to increase their efficiency levels.
- The mission of this virtual conference is to highlight the progress so far with regard to the digital transformation of Indian ports, discuss the experience and challenges with technology adoption, and identify the future needs and requirements. It will also showcase the latest innovations, and the most promising and relevant technologies for Indian ports.

Target Audience

The event is expected to draw participation from executives, managers and decision-makers from:

- Public and Private Ports
- Port Terminal Operators
- Logistics Companies
- Technology Providers
- System Integrators
- Other Solution Providers (blockchain, AI, big data etc.)
- Custom House Agents
- IT Hardware and Software Providers
- Shipping Agencies
- Consultants
- Financial Institutions
- Research and Development Agencies
- Policymakers and Regulatory Authorities
- Cybersecurity Solution Providers, etc.

To register: Call +91-9711588987, email: tania.agarwal@indiainfrastructure.com, or visit us at www.indiainfrastructure.com

AGENDA/STRUCTURE

GOVERNMENT PERSPECTIVE: PROGRESS, PLANS AND POTENTIAL

- ❖ What has been the level of digital transformation at major and non-major ports?
- ❖ What are the emerging requirements?
- ❖ What are the key priorities of the government to develop the ports of the future under the Maritime Vision 2030?
- ❖ What are the upcoming opportunities in the segment?

PORT DEVELOPER/OPERATOR PERSPECTIVE: DIGITALISATION AND AUTOMATION OF PORTS & TERMINALS

- ❖ What has been the experience so far?
- ❖ What are the current gaps? What are the new solutions being explored by the ports?
- ❖ What are the key issues and challenges faced in technology adoption? What can Indian ports learn from their global counterparts?

DIGITAL INITIATIVES FOR TRADE FACILITATION

- ❖ What has been the impact of various IT reforms undertaken to improve customs procedures at Indian ports (ICEDASH, SWIFT, Indian Customs EDI system, etc.)?
- ❖ What has been the stakeholder experience?
- ❖ What new initiatives or IT reforms can be expected in the next few years?

CONTAINER TERMINAL AUTOMATION

- ❖ What has been the experience with regard to the automation of container terminal operations?
- ❖ What is the potential for robotised and remote-controlled handling systems?
- ❖ What are the technology disruptions the industry will look at in the future?

DIGITAL AND TECHNOLOGICAL ADVANCEMENTS IN THE SHIPPING INDUSTRY

- ❖ What has been the level of technology adoption in ship and fleet operations?
- ❖ What has been the experience so far in terms of ensuring the efficiency of ship traffic control operations?
- ❖ What are the future plans with regard to the adoption of new-age digital solutions?

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?
- ❖ What are the global advancements? What lessons can be learnt?

SPOTLIGHT ON DIGITAL COLLABORATION PLATFORMS AND SOLUTIONS

- ❖ PORT COMMUNITY SYSTEM1x
 - ❖ LOGISTICS DATA BANK
 - ❖ GATE AUTOMATION
 - ❖ OTHERS
- What has been the experience so far?
 - What has been the level of stakeholder acceptance of these platforms and solutions?
 - What are the expected advancements in these systems?

FOCUS ON AUTOMATION AND REMOTE OPERATIONS AT PORTS

- ❖ What are the kinds of automation solutions available to deal with the challenges posed by the Covid-19 crisis?
- ❖ What have been the latest innovations?
- ❖ What are the global advancements?

NEW AND EMERGING TECHNOLOGIES

- ❖ ARTIFICIAL INTELLIGENCE (AI)
 - ❖ REAL-TIME 3D PLATFORMS
 - ❖ BIG DATA
 - ❖ CLOUD
 - ❖ ROBOTICS
 - ❖ BLOCKCHAIN
 - ❖ REMOTE SENSING AND GIS
- What are the technology solutions that can be deployed to improve productivity and ease of doing business at Indian ports?
 - What has been the experience so far?
 - What are the global advancements? What lessons can be learnt?

FOCUS ON CYBERSECURITY AND DATA PRIVACY

- ❖ What are the issues and concerns associated with data security and protection?
- ❖ What are the new and emerging solutions for managing cybersecurity risks?
- ❖ What has been the port operators' experience? What are the lessons learnt?

FOCUS ON LAST MILE AUTOMATION

- ❖ What are the key business drivers for last mile automation?
- ❖ What has been the progress so far with regard to last mile automation?
- ❖ What are the key industry offerings?

Digital Transformation of Ports & Terminals

What differentiates our conferences?

- The **agenda** is developed by our researchers, who track the sector round the year. It is thus **relevant** and **topical**. It is not driven by a particular organisation and does not have a particular slant.
- The **speakers** are **professionals** and **experts** involved in the sector, not a mix of ambassadors, ministers, celebrities and business owners.
- The conferences do not just comprise panels and speeches; they provide a good mix of **expert presentations** and **case histories**, and of course **panel discussions**.
- We have **representation** from **across the country**, as is the case at our physical conferences too.
- Each **stakeholder group** – **policymakers**, **developers**, **financiers**, **consultants** and **relevant NGOs** – is represented at our conferences.
- The moderators merely ask the questions. The **stars** are the **speakers** themselves.
- The **sessions begin and end on time**.
- There is adequate time for a **Q&A session** with **each speaker**. These are not “hit and run” speeches.
- The **delegates** are **professionals** who are vested in the sector, and are not just assembled through social media.

Previous Participants

We have successfully organised seventeen editions of “**Ports in India**” conference in past and we recently concluded our 18th edition virtually on November 27-28, which again received excellent response from the industry. We have also organised four editions of “**Ports Modernisation and Mechanisation**” and thirteen editions of “**Container Infrastructure in India**”.

Some of the organisations that participated in these events include: ABB Ports, Adani Dahej Port, Adani Hazira Port, Add Valutech Services, Alar Group, Allcargo Logistics, Angre Port, APM Terminals Pipavav, BLOK Container Systems, Blue Global Marine Service, BMT Consultants, Bothra Shipping, C&B Tek, Cargo Partner Logistics, Central Warehousing Corporation, Chennai Port, Chettinad Mangalore Coal Terminal, Cisco Systems, Cochin Port, Conceptia Software Technologies, Coresonant Systems, CRISIL, Daiichi Chuo Shipping, Dakshin Bharat Gateway Terminal, Delta Infralogistics, DMICDC Logistics Data Services DP World, EKA Consultants, EMG Automation, Envecon, Envision Enterprise Solutions, Ernst & Young, ESRI, Essar Ports, Excelsource International, Fugro, Gandhi Automations, Global Infrastructure Partners, Gopalpur Ports, Gujarat Maritime Board, HPC Hamburg Port Consulting GmbH, HR Wallingford, ICICI Bank, ICRA, Igus, Indian Oil Corporation, Indian Oiltanking, Indian Ports Association, Indus Container Lines, IWAI, J.M. Baxi & Co., Jawaharlal Nehru Port Trust, JSW Dharamtar Port, JSW Jaigarh Port, Kale Logistics, Kandla Port Trust, Karaikal Port Private, Kargwal Constructions, Keller, Kemar Automation, KFW IPEX-Bank GmbH, KNK Shipping, Kolkata Port Trust, Kongsberg, KPMG, Logix ITS, LogStar, Ministry of Shipping, Mormugao Port Trust, Mumbai Port Trust, National Marine And Infrastructure India, Navayuga Infotech, Navis, NEC, Nomura, Paradip Port Trust, Petronet LNG, Philip Capital, Portall, Premier Tech Chronos, PwC, Ramco, SAP, SBI Capital Markets, Shipping Corporation of India, Seaport OPX, South Asia Gateway Terminals, Shapoorji Pallonji Port, Strata, Tata Communications, Tata Consulting Engineers, Tolani Shipping, Trelleborg, Umeandus, V.O. Chidambaranar Port Trust, Value Chain Solutions, Vopak, Zebra Technologies, etc.

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Registration Fee

	INR	GST@18%	Total INR	Total USD
1 Login	6,000	1,080	7,080	100
2 - 3 Logins	10,000	1,800	11,800	200
4 - 5 Logins	14,000	2,520	16,520	300
6 - 9 Logins	18,000	3,240	21,240	400
10 - 20 Logins	22,000	3,960	25,960	500

- There is a 25 per cent discount before January 28, 2021
- GST @18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment.

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Payment Policy:

- Full payment must be received prior to the conference.
- Payments for “early bird” registrations should come in before the last date of discount. Discount offers cannot be combined with any other offer.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

Organisers

The conference is being organised by **India Infrastructure Publishing**, the leading provider of information on the infrastructure sectors. The company publishes **Indian Infrastructure** magazine, a series of reports on the infrastructure sectors including **Ports in India**, **Logistics in India**, **Freight Market in India** and **Storage Infrastructure in India**. It also publishes **Ports and Shipping News** (a weekly newsletter) and the **Ports Directory and Yearbook**.

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