

4th Annual Conference on

# Modernisation & Digitalisation of Ports, Terminals & Logistics

May 6-7, 2020, ITC Maratha, Mumbai



Organiser:

**Indian  
Infrastructure**

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# MODERNISATION & DIGITALISATION OF PORTS, TERMINALS & LOGISTICS

## Mission

- Over the past two years, India has witnessed a significant jump in the World Bank's Ease of Doing Business Index under the "Trading across Border" head. The country's ranking has improved from 146 in 2017 to 68 in 2019. This can be attributed to the various initiatives taken for port modernisation, mechanisation and digitalisation.
- The introduction of direct port delivery/direct port entry, installation of container scanners and RFID-based systems for gate automation, promotion of paperless transactions, digitalisation of land records, automation of issuance of delivery orders, and launch of a single-window interface for facilitating trade (SWIFT) and ICEDASH are some of the major initiatives taken. Several more customs facilitation measures are on the anvil.
- Launched in 2015, the government's flagship programme, Sagarmala ranks modernisation and ease of doing business as its key components. Overall, 208 projects worth Rs 790 billion have been identified to be taken up under the port modernisation component of the programme.
- However, when compared to the global scenario, Indian ports are at a nascent stage of technology adoption. Foreign ports are extensively using cloud computing, internet of things, big data, robotics, blockchain, artificial intelligence, drones, sensor technologies, among others.
- Going forward, India can learn from global advancements. The government can also take measures such as standardisation of technology implementation at Indian ports, both major and non-major. Further, the ease of doing business measures must be timely reviewed to adapt to the changing industry requirements.
- Issues that have restricted technology deployment in the past such as shortage of trained and skilled manpower, a general reluctance towards technology adoption, strict labour laws, and old and obsolete equipment need concrete action.
- **The mission of this conference is to provide a platform to discuss the needs, benefits, drivers and challenges associated with modernisation, mechanisation and digitalisation of the Indian port sector. It will also showcase the latest innovations, and the most promising and relevant technologies for Indian ports.**

## Target Audience

- Ports and terminals (Port Trusts, Private and Terminal Operators)
- Maritime boards/ State ports departments
- Captive port and jetty operators
- Logistic Companies
- Shipping Lines
- Container train operators
- Port and terminal equipment manufacturers and technology service providers
- Cargo handling equipment companies
- Consultancy organisations
- IT Service Companies
- Multi Modal Operators

## TECHNOLOGY PROVIDERS

The conference will also be useful for companies offering solutions such as Artificial Intelligence | Big Data | Block Chain Technology | Cargo Tracking & Management | Control & Instrumentation | Communication / Connectivity | CRM | Cyber Security Providers/System Integrators | Drones | ERP | Gate Automation | IOT | Mobile Data and Apps | Remote Sensing & GIS | SCADA | Security & Surveillance Solution Providers | Sensor Technologies | Virtual Simulation | VTMS | Yard Management | etc.

## Previous participants

Some of the companies that participated in our previous conference include: ABB India, Abrao Group-Omega Shipping, Acqua Metro Oil Marine, Adani Hazira Port, Adani Kattupalli Port, Adani Ports & SEZ, AIWTD Society, Allcargo Logistics, Anupam Industries, APM Terminals, Bar Code India, Beckett Rankine, BMT Consultants, Bothra Shipping, Cargotec India, Carrier UTC, Cavotec, Central Warehousing Corp, Cisco Systems, Cochin Port Trust, Conceptia Software Technologies, Container Corporation of India, Dakshin Bharat Gateway Terminal, Deendayal Port Trust, DFCCIL, Directorate General of Lighthouses and Lightships, Directorate General of Shipping, DNV-GL, DP World, DP World-Nhava Sheva International Container Terminal, Eka Consultants, Elecon EPC Projects, Electromech, Envecon IT, ESRI, Essar Ports, Fugro Survey, Gateway Rail, GreyM Marine, Gujarat Maritime Board, HOWE Engineering, HR Wallingford, Igus India, IIC Technologies, IL&FS Maritime Infrastructure Company, I-Maritime Consultancy, Indian Port Rail Association, Inland Waterways Authority of India, Intech Creative Services, Jawaharlal Nehru Custom House, Jindal Steel & Power, JM Baxi Group, Jawaharlal Nehru Port Trust, Kalmar Middle East JLT, Kale Logistics, Kamarajar Port, Kandla International Container Terminal & Cargo Shipping, Kandla Port Trust, Karjalal Port Trust, Kemar Automation, Ketiot, Kolkata Port Trust, KPMG, Larsen & Toubro, Liebherr, Lloyds Register, Logstar ERP, Maersk Line, Ministry of Shipping, Mormugao Port Trust, Mumbai Port Trust, Navayuga Container Terminal, NEC Technologies, Oiltech Engineering, Omnia Tags, Pentacle Consultants, Petronet LNG, Planys Technologies, Porttrucks Equipments, Praja Controls & System, Premier Tech Chronos, Pristine Logistics&InfraProjects, PSTS Logistics, PwC, Rapiscan Systems, Sany Heavy Machinery, Sick India, Siemens, Smag Piener, Strata Geosystems, Suraj Informatics, Tata Consulting Engineers, Tata Projects, TIL, TMEIC, TRF, Transin Logistics, Trimble, UltraTech Cement, Unison Insurance, Vedanta, Vizag General Cargo Berth, WBIDC, Sebra Technologies, Zephyr and many more

## AGENDA/STRUCTURE

### STAKEHOLDER PERSPECTIVE

#### KEY TRENDS AND OUTLOOK

- ❖ What have been the key trends and developments in the port sector?
- ❖ What are the key issues and challenges?
- ❖ What is the future outlook? What are the new opportunities?

#### GOVERNMENT PERSPECTIVE

- ❖ What are the key requirements for the modernisation, mechanisation and digital transformation of ports under the Sagaramala programme?
- ❖ What has been the progress so far?
- ❖ What are the opportunities for technology and equipment providers?
- ❖ What are the likely challenges? How can these be addressed?

#### PORT COMMUNITY SYSTEM 1x

- ❖ What are the key characteristics of PCS 1x?
- ❖ How is it facilitating the ease of doing business at Indian ports?
- ❖ How is PCS 1x different from the PCS launched earlier?
- ❖ What are the key areas of concern?

### PORT DEVELOPERS/OPERATORS' PERSPECTIVE (MAJOR AND NON-MAJOR PORTS)

- ❖ What are the new technologies being explored by port operators?
- ❖ What has been the experience in the adoption of these technologies?
- ❖ What are the key issues and challenges faced in technology adoption?
- ❖ What are the emerging requirements?

### FOCUS ON NEXT GEN TECHNOLOGIES

- Artificial Intelligence (AI)
- Blockchain
- Drones
- Remote Sensing and GIS
- Big Data and Cloud Computing
- Machine Learning (ML)
- Automation and Robotics

- ❖ How can these next-gen technologies support the new requirements for the port sector?
- ❖ What are the areas where these technologies can be leveraged by port operators?
- ❖ What are the required strategies and roadmap for technology adoption?

### TECHNOLOGY DEPLOYMENT FOR PORT OPERATIONS

#### CARGO TRACKING AND MANAGEMENT

- ❖ What are the issues and concerns associated with cargo tracking and management?
- ❖ What are the new and emerging solutions for cargo tracking and management?
- ❖ What are the global advancements? What lessons can be learnt for India?

#### GATE AUTOMATION

- ❖ What are the issues and concerns associated with gate automation?
- ❖ What are the new and emerging solutions for gate automation?
- ❖ What are the global advancements? What lessons can be learnt for India?

#### FOCUS ON PORT CALL OPTIMISATION

- ❖ What is the trend in the vessel waiting time and turnaround times at Indian ports?
- ❖ What are the issues and concerns associated with port call optimisation?
- ❖ How can the efficiency of vessels arriving at port terminals be improved?
- ❖ What are the global advancements? What lessons can be learnt for India?

#### CUSTOMS CLEARANCES

- ❖ What are the various customs-related issues and concerns?
- ❖ What are the various IT reforms taken for improving customs procedures at Indian ports (ICEDASH, SWIFT, risk management system, etc.)?
- ❖ What has been the impact of such measures?
- ❖ What new initiatives or IT reforms can be expected in the next few years?

#### REDUCING EMISSIONS

- ❖ What strategies can be adopted to address carbon emissions at ports?
- ❖ What are the key issues and concerns?
- ❖ What are the global advancements? What lessons can be learnt?

#### 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?

#### COMMUNICATION TECHNOLOGIES

- ❖ What are the new and emerging challenges related to the port sector?
- ❖ What are the technologies and solutions most suited to meet Indian ports' requirements?
- ❖ What are the key issues and concerns?

#### DEVELOPING SMART PORT CITIES

- ❖ What are the key characteristics of a smart port city?
- ❖ What is the update on smart port cities in India?
- ❖ What are the key issues and concerns?
- ❖ What are the global advancements? What lessons can be learnt?

#### IMPROVING PRODUCTIVITY

- ❖ What are the key challenges faced in terms of improving productivity? How are ports dealing with this issue?
- ❖ What are the technology solutions that can be deployed to improve productivity?
- ❖ What are the global advancements? What lessons can be learnt?

#### DIGITALISATION OF PORTS

- ❖ What are the key digitalisation requirements for port operations?
- ❖ What are the various digital solutions and technologies available for ports?
- ❖ What are the costs and benefits of such 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?

#### EQUIPMENT AND TECHNOLOGY SHOWCASE

- ❖ What are the latest trends in technology and equipment?
- ❖ What have been the latest innovations?
- ❖ How can the new technologies & equipment ensure energy efficiency of port operations?
- ❖ What are the global advancements? What lessons can be learnt for India?

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## Registration Form

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	INR	GST@18%	Total INR	Total USD	INR	GST@18%	Total INR	Total USD
1	20,000	3,600	23,600	393	25,000	4,500	29,500	492
2	32,000	5,760	37,760	629	40,000	7,200	47,200	787
3	44,000	7,920	51,920	865	55,000	9,900	64,900	1,082
4	56,000	10,080	66,080	1,101	70,000	12,600	82,600	1,377

- There is a 20 per cent "early bird" discount for those registering before April 8, 2020.
- Registration will be confirmed on receipt of payment. To register online, please log on to <http://indiainfrastructure.com/conf.html>

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