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3rd Annual Conference on

MODERNISATION, MECHANISATION AND DIGITAL TRANSFORMATION OF PORTS

May 2-3, 2019, ITC Maratha, Mumbai

Organiser:

**Indian
Infrastructure**

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MODERNISATION, MECHANISATION AND DIGITAL TRANSFORMATION OF PORTS

Mission

- Technology is a key focus area in the infrastructure sectors, and the port sector is no exception. The government has given a further push to port modernisation, mechanisation and digitalisation, with a number of ease of doing business initiatives implemented in the past year under the Sagarmala programme. In addition, greater investments have been made by ports in technology deployment.
- The launch of the revamped port community system, "PCS1x", is expected to connect and provide real-time information to stakeholders on a single platform. Other key measures for port modernisation include the introduction of web-based e-forms and direct port delivery; the installation of container scanners and radio frequency identification (RFID)-based systems for gate automation; the digitalisation of land records; the automation of issuance of delivery orders; the launch of a single-window interface for facilitating trade; and the integration of more seaports with PCS. Steps are also being taken to create green and sustainable ports.
- Going forward, technology is going to play a key role in shaping India's port sector. Around 260 projects involving an investment of Rs 1.4 trillion have been identified under the port modernisation component of the Sagarmala programme.
- New technologies such as cloud computing, artificial intelligence, remote sensing and GIS, blockchain, augmented reality, internet of things (IoT), big data, robotics, simulation, drones and sensors are being explored for Indian ports.
- However, issues such as shortage of trained and skilled manpower, a general reluctance towards technology adoption, strict labour laws, old and obsolete equipments and poor server need to be addressed to increase the uptake of technologies and solutions.
- **The mission of this conference is to highlight the modernisation, mechanisation and digitalisation requirements of Indian ports, discuss the opportunities and future potential, and identify the key issues and concerns. 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

Shipping lines

Container train operators

Port and terminal equipment manufacturers, and technology service providers

Cargo handling equipment companies

Consultancy organisations

TECHNOLOGY PROVIDERS

Companies offering solutions such as Artificial Intelligence | Asset Management & Robotics | Augmented Reality | Big Data | Block Chain Technology | Cargo Tracking & Management | Control & Instrumentation | Cloud Computing | 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, Acqua Metro Oil Marine, Adani Hazira Port, Adani Kattupalli Port, Adani Ports & SEZ, Anupam Industries, Bar Code India, Beckett Rankine, BMT Consultants, Cargotec India, Carrier UTC, Cavotec, Cochin Port Trust, Conceptia Software Technologies, Deendayal Port Trust, Directorate General of Lighthouses and Lightships, Directorate General of Shipping, DNV-GL, DP World, DP World-Nhava Sheva International Container Terminal, Elecon EPC Projects, Electromech, Envecon IT, Essar Ports, Fugro Survey, Gateway Rail, GreyM Marine, Gujarat Maritime Board, HOWE Engineering, IIC Technologies, IL&FS Maritime Infrastructure Company, I-Maritime Consultancy, Indian Port Rail Association, Intech Creative Services, Jawaharlal Nehru Custom House, Jindal Steel & Power, JM Baxi Group, Jawaharlal Nehru Port Trust, Kalmar Middle East JLT, Kamarajar Port, Kandla International Container Terminal & Cargo Shipping, Kandla Port Trust, Ketiot, Kolkata Port Trust, Larsen & Toubro, Liebherr, Lloyd's Register, Logstar ERP, Maersk Line, Ministry of Shipping, Mumbai Port Trust, Oiltech Engineering, Omnia Tags, Pentacle Consultants, Petronet LNG, Planys Technologies, Porttrucks Equipments, Praja Controls & System, PSTS Logistics, PwC, Sany Heavy Machinery, Siemens, Smag Plener, Strata Geosystems, Suraj Informatics, Tata Consulting Engineers, Tata Projects, TIL, TRF, Trimble, UltraTech Cement, Unison Insurance, Vedanta, Vizag General Cargo Berth, WBIDC, Zephir and many more.

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What are the key trends and developments in the Indian port sector?
- ❖ What are the recent trends and developments with regard to modernisation, mechanisation and digital transformation in the port sector?
- ❖ What are the key issues and challenges?

GOVERNMENT PERSPECTIVE: FOCUS ON OPPORTUNITIES UNDER SAGARMALA

- ❖ What are the key requirements for the modernisation, mechanisation and digital transformation of ports under the Sagarmala 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 OPERATORS' PERSPECTIVE (MAJOR AND NON-MAJOR)

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

FOCUS ON PORT COMMUNITY SYSTEM 1x

- ❖ What are the key features of PCS 1x? How is this system different from the PCS launched earlier?
- ❖ How is it expected to facilitate the ease of doing business at Indian ports?
- ❖ What are the key areas of concern?

IMPROVING CUSTOMS PROCEDURES

- ❖ What measures have been taken to reduce the transaction time and promote ease of doing business at Indian ports?
- ❖ What has been the experience in implementing these measures? What have been the key benefits?
- ❖ What are the key challenges?

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?

SMART TERMINAL SOLUTIONS

- ❖ What are the types of technologies and solutions available for improving terminal productivity and efficiency?
- ❖ What has been the experience so far?
- ❖ What are the key issues and challenges?
- ❖ What are the global advancements? What lessons can be learnt?

ENERGY EFFICIENCY IN PORTS

- ❖ What are the technologies and solutions that can help ports become energy efficient?
- ❖ What are the key issues and challenges?
- ❖ What are the global advancements? What lessons can be learnt?

IMPROVING EQUIPMENT UTILISATION

- ❖ What are the key challenges faced in terms of equipment utilisation? How are ports dealing with these challenges?
- ❖ What are the technology solutions being deployed to improve equipment utilisation?
- ❖ What are the global advancements? What lessons can be learnt?

CYBERSECURITY AND SAFETY

- ❖ What are the key cybersecurity risks in the Indian port sector?
- ❖ What are the technology solutions being deployed for managing cybersecurity risks?
- ❖ What are the key issues and challenges?

COMMUNICATION TECHNOLOGIES

- ❖ What are the different types of communication technologies and solutions available for ports?
- ❖ What has been the experience so far?
- ❖ What are the key issues and challenges?
- ❖ What are the global advancements? What lessons can be learnt?

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?

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?

ASSET MANAGEMENT

- ❖ What are the advanced technologies and solutions that can help ports in asset management?
- ❖ What is the impact of these solutions on asset reliability, failures and maintenance?
- ❖ What are the global best practices?

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

SMART LIGHTING SYSTEMS

- ❖ What are the key technology options for smart lighting?
- ❖ 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?

NEW TECHNOLOGIES: NEEDS, REQUIREMENTS, CHALLENGES AND OPPORTUNITIES

This session will cover the following technologies:

- VIRTUAL SIMULATION
- ARTIFICIAL INTELLIGENCE AND ROBOTICS
- IoT, BIG DATA AND CLOUD COMPUTING
- ENTERPRISE SOLUTIONS
- REMOTE SENSING AND GIS
- BLOCKCHAIN TECHNOLOGY
- AUGMENTED REALITY
- MOBILE DATA AND APPS

- ❖ What are the key applications of these technologies for the Indian port sector?
- ❖ What specific benefits can the sector draw through these technologies?
- ❖ What are the issues and concerns?
- ❖ What has been the experience globally? What are the lessons 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 5, 2019.
- Registration will be confirmed on receipt of payment. To register online, please log on to <http://indiainfrastructure.com/conf.html>

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**Contact: Raymol Reji, Conference Cell, India Infrastructure Publishing Pvt. Ltd.
B-17, Qutab Institutional Area, New Delhi 110016
Tel: +91-11- 41034616, 41034615, +91-9582232031, 8076218925
Fax: 011-26531196, 46038149 | E-mail: conferencecell@indiainfrastructure.com**

Organisers

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