

# 1ST CE TECHNOLOGY SUMMIT

Being Future Ready - Technology | Innovation | Sustainability

**Focus: Construction Equipment (CE) Technology  
 Vision Roadmap 2035**

Wednesday, 4th October, 2023  
 Hotel Shangri-La Eros, New Delhi

## PROGRAMME OUTLINE

0900 Hrs	Registration
1000 – 1100 Hrs	<b>Inaugural Session</b> <i>Technology Vision Roadmap 2035 for the Indian Construction Equipment Industry</i>
1100 – 1130 Hrs	Tea/Coffee Break
1130 – 1300 Hrs	<b>Panel Discussion – I: Ensuring Jobsite Safety for Operators, Equipment and the Job Environment</b> <i>Solutions that will improve operator, equipment and occupational safety</i>
1300 – 1345 Hrs	Lunch
1345 – 1515 Hrs	<b>Panel Discussion – II: Technology-driven Solutions Enhancing Equipment and Jobsite Efficiency</b> <i>Solutions that will improve overall jobsite productivity and efficiency</i>
1515 – 1545 Hrs	Tea/Coffee Break
1545 – 1715 Hrs	<b>Panel Discussion – III: Balancing Progress and Preservation through Sustainability Strategies for the CE Industry</b> <i>Solutions that will achieve sustainability goals of the CE industry and contribute to India's sustainability targets</i>
1715 – 1730 Hrs	Summary and Closing Remarks
1730 Hrs	Close

Contd./-

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### PROGRAMME

#### 1000 – 1100 Hrs INAUGURAL SESSION

The Indian CE Industry, the world's third largest, with a market size of USD 8.5 billion, is a key enabler of infrastructure creation and economic growth of India through supply of critical heavy machines used across various infrastructure sectors including roads & highways, railways, ports & waterways, aviation, real estate, and urban infrastructure. The industry is committed to help the government in its endeavor to build world-class infrastructure by meeting the requirement for new-age and efficient equipment needed for the execution of infrastructure projects in a time-bound and cost-effective manner. The government's continued focus on infrastructure-led economic growth has resulted in significant demand for construction equipment, as a result of which the Indian CE industry is well on its way to achieving its Vision Plan 2030 target of becoming the second largest as well as the fastest growing manufacturing and export hub of construction equipment in the world. To achieve these targets through technologically updated augmentation of capacity and global competitiveness of the CE industry's products, ICEMA, as the apex body of the industry, has developed the CE industry Technology Vision Roadmap 2035. The 'Technology Vision Roadmap 2035' for the construction equipment industry outlines a strategic pathway towards enhancing safety, sustainability, and overall productivity on construction sites through technology innovation and adoption. This roadmap will serve as a guiding compass, aligning industry stakeholders and innovators towards common objectives, to ensure that the Indian Construction Equipment industry remains at the forefront of safety, productivity, and sustainability. It enables integration of innovative technologies to enhance jobsite safety, improve overall efficiency and contribute to a more sustainable future. A well-defined technology roadmap not only boosts industry competitiveness but also helps address global challenges, making it an indispensable tool for the construction equipment industry's growth and evolution. ICEMA 1<sup>st</sup> CE Technological Summit aims to provide a platform for deliberations and discussions around the key focus areas of the Technology Vision Roadmap and to facilitate stakeholder consultations and collaborations for synergetic growth of the Indian CE industry.

1000 – 1100 Hrs

#### Welcome Address

**Mr. Dimitrov Krishnan**

Immediate Past President ICEMA, Convener ICEMA Technology & Sustainability Panel and Managing Director, Volvo Construction Equipment India

#### Special Address

**Mr. Vivekanand Vanmeeganathan**

President, ICEMA and  
Managing Director, Caterpillar India Pvt. Ltd.

#### Guest of Honour

**Mr Vijay Mittal**

Joint Secretary  
Ministry of Heavy Industries

#### Chief Guest

**Dr. Mahendra Nath Pandey\***

Minister of Heavy Industries  
Government of India

#### Vote of Thanks

**Mr. Deepak Shetty**

President Designate & Mentor- ICEMA S.M.A.R.T. Infra Panel &  
CEO & Managing Director, JCB India Ltd.

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1130 – 1300 Hrs

#### PANEL DISCUSSION - I

##### “Ensuring Jobsite Safety for Operators, Equipment and the Job Environment”

‘Jobsite Safety’ is one of the three key focus areas of the CE industry’s Technology Vision Roadmap 2035. The Jobsite Safety vision underscores a steadfast commitment to incorporating advanced safety measures into equipment design and operations. This includes intelligent safety systems, real-time monitoring, and predictive analytics to mitigate risks and avert accidents. By fostering a culture of safety, the industry aspires to set new standards for workplace security.

The key points to be discussed under Jobsite Safety include:

- Mandating licensing requirements for operators and technicians for key construction equipment
- Steps to boost customer adoption of equipment with in-built safety features
- Gaps in skilling programs and network of training centers
- Collaboration with local training institutes, programs such as ITIs, to develop a comprehensive training program
- Accepting international certificates for compliance (e.g., Mutual Recognition of Agreement (MRA) of Indian test agencies with international test agencies
- Universal communication protocols at jobsites to enable interoperability

1130 – 1300 Hrs

#### Session Chair

**Mr. Vivekanand Vanmeeganathan**  
 President, ICEMA and  
 Managing Director, Caterpillar India Pvt. Ltd.

#### Presentation on the theme of the session

**Mr. Yogesh Thakar**  
 Director, PwC

#### Panelists

**Mr. Dimitrov Krishnan**  
 Chairman, Infrastructure Equipment Skill Council (IESC) and Managing Director, Volvo Construction Equipment India

**Mr. Saurabh Dalela**  
 Director, ICAT

**Dr. A. K. Swamy**  
 Member Secretary, Accreditation Committee, Indian Roads Congress and Professor  
 Department of Civil Engineering, Indian Institute of Technology Delhi

**Mr. Sundresh Chandrabose**  
 Senior Vice President Engg., Product Development & Innovation JCB India Ltd.

**Mr. Vipul Vora**  
 Managing Director, MyPort

**Mr. Reji K Jose**  
 Sr. Engineering Specialist, Caterpillar India Pvt.Ltd

**Mr Pankaj Parate**  
 Senior General Manager & HOD – R&D and New Products Introduction, Sany Heavy Machinery India Pvt.Ltd.

1300 – 1345 Hrs

**Lunch**

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1345 – 1515 Hrs

#### PANEL DISCUSSION - II

##### **“Technology-driven Solutions Enhancing Equipment and Jobsite Efficiency”**

The second key focus area of the CE industry's Technology Vision Roadmap 2035 is 'Jobsite Solutions'. The Jobsite Solutions vision envisages equipment embedded with sensors and connectivity, enabling real-time data collection and analysis. This information empowers stakeholders to make informed decisions, optimize resource allocation, and enhance overall project management.

The topics to be deliberated upon in this session include:

- Solutions for improper deployment of equipment on diversified applications
- Programs by which education and awareness for customers be increased for deploying the right equipment
- Technology and interoperability requirements to improve efficiency from planning and operation perspectives
- Data protocols between OEMs for data sharing – advantages and challenges

1345 – 1515 Hrs

#### Session Chair

##### Presentation on the theme of the session

**Mr. Yogesh Thakar**  
Director, PwC

##### Keynote Address

**Mr R K Pandey**  
Former Member-Projects  
NHAI

##### Panelists

**Mr. Sanjay Bajaj**  
Vice President,  
Wirtgen India Pvt. Ltd.

**Mr. Channappa D Madar**  
General Manager  
BEML Ltd.

**Mr Manav Kohli**  
COO, Gainwell India

**Mr Anand Sirohi**  
Director - Key Accounts & Large Projects, Trimble India

**Mr. Rajeev Shalia**  
Vice President Design  
Schwing Stetter India Pvt. Ltd.

**Mr. Harpreet Singh Wahan**  
Business Head – India, Asean and South Korea, Enovation Controls

1515 – 1545 Hrs

Tea Break

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1545 – 1715 Hrs

#### PANEL DISCUSSION - III

##### “Balancing Progress and Preservation through Sustainability Strategies for the CE Industry”

‘Sustainability’, besides being one of the primary imperatives of development practices, is also the third key focus area of the CE industry Technology Vision Roadmap 2035. Through the emphasis on Sustainability, the industry acknowledges the urgency of minimising its environmental footprint while bolstering economic growth. To this end, the adoption of eco-friendly materials, energy-efficient systems, and emission-reducing technologies is paramount.

The topics under discussion include:

- CEVs to be included under the proposed FAME-3
- GST and Electric recharging tariffs for CEVs are to be rationalized in line with auto sector
- Establishment of appropriate infrastructure and ecosystem, required specifically for the electrically powered CEVs working at remote projects
- Incentives provided for EVs in auto sector are to be extended to CEVs as well. Global references may also be considered as reference.
- Government tenders to include a clause for deploying a minimum share of construction equipment with alternate fuels

1545 – 1715 Hrs

#### Session Chair

#### Presentation on the theme of the session

**Mr. Yogesh Thakar**  
Director, PwC

#### Keynote Address

**Mr. Sudhendhu Jyoti Sinha**  
Adviser, NITI Aayog

#### Special Address

**Mr. K C Sharma**  
Superintendent Engineer, MoRTH

#### Panelists

**Mr. Girish Tanawade**  
General Manager ARAI

**Mr. Roopak Sharma**  
Vice President, Engg., Product Development & Innovation, JCB India Ltd.

**Mr. Ankit Goel**  
Vice President & Head Design and Engg., Action Construction Equipment Ltd

**Mr. Yuvraj Sarda**  
Head E-mobility Business Development, Volvo CE India Pvt. Ltd.

#### Vote of Thanks

**Mr. Dimitrov Krishnan**

1715 – 1730 Hrs