



Confederation of Indian Industry

Minutes of Awareness Workshop

Electrification of Trucks for Cement Sector in India

Date: 16th February'2024 ,1100 hrs - 1330 hrs, Venue: CII office, Gurugram

Members Present	Attached in Annexure I
Key Discussion Points	
<ul style="list-style-type: none">• Address by Mr. Madhavkrishna Singhanian, Chairman- CII cement activities & Dy. MD & CEO, JK Cement Ltd.• The context & details of the project were presented by Mr. Balaji Raparathi, Senior Programme Manager (Electric mobility), Shakti Sustainable Energy Foundation.• The activities carried out in “Electrification of Trucks for Cement Sector in India” & way forward of the project were presented by Mr Vaibhav Girdhar, Senior Counsellor, CII.• Mr. Karthik G, Marketing & Sales Manager, ABB Traction, presented on<ul style="list-style-type: none">➤ ABB solution on electrification of mining & offroad vehicles➤ Main drivers for vehicle retrofitting & solutions.➤ Battery & trolley hybrid operation for mining trucks➤ LTO battery (Lithium Titanium Oxide) has rapid charging, 80% charging possible in 10- 15 mins, > 20,000 cycles~ 10-12 years life.➤ OHT tractions is an alternate option to reduce the batter size, in turn increase pay load, mines head to crusher can be considered, Cement truck trial done at Turkey.• Mr. Venugopal Rao, VP (S&M), Olectra Greentech Ltd., presented the successful case studies of Olectra E tipper application in Mines & Cement plants.• Mr. Arun Andavar, EV Marketing Executive, Propel Industries Pvt. Ltd., presented on the E-tipper portfolio of Propel & successful case studies of the same at different cement mines application. Dalmia Cement, Rajgangpur unit trial outcomes were shared.• Mr. Vishal Jain, Logistics Operation Head, JK Cement shared the case studies & outcome of commercial EV trucks applications:<ul style="list-style-type: none">➤ Low operation cost, improved wellbeing of drivers & lower GST rates are some of the advantages experienced.➤ The financial cost recovery needs an average running of 8,000-10,000 km/month.➤ Limited charging infrastructure, limited capacities & models in the market, high initial cost, lack of incentives & unpredictable secondary market are current issues.• Mr. Vishal Kanthawala, Head- Logistics Centre of Excellence, JSW cement, shared the successful case studies for EV truck deployment.<ul style="list-style-type: none">➤ 5 vehicles deployed in JSW Nandyal plant➤ 280 Kms one way route – 4 chargers (2 at plant & 2 -enroute) installed➤ Registration delay & driver retainment is a challenge.➤ Spare parts availability & vigorous monitoring of TAT & Trips with digital support is focus area.➤ Green channel & long-term guarantee to fleet owners can be enablers.	

- JSW is planning to invest Rs. 40,000 crs, in phases, for setting up an integrated electric vehicle and battery manufacturing project in Odisha.
- During the open forum discussion, cement industry representatives from logistics, mining, sustainability & purchase departments shared the following points.
 - Charging infrastructure: needed throughout the country, for cement despatch and clinker, possible for inside the plant / local area under control
 - No major advantage except for lesser initial capital outlay with a 5% GST rate (compared to 18% in ICE trucks) as the industry claims input tax credit .
 - Reduction in pay load due to battery weight is an issue, strategic location identification for optimizing charging time, reduce travel to charging is to be done case to case basis
 - Driver comfort is a positive point with E-truck. Adequate compensation can be given to E-truck driver to retain them and the need for training the new driver can be avoided.
 - Retrofit is an option, at the end of the age – however restriction on the condition and age to be taken care. Tata motors is working on that.
 - Through cement companies, organizing workshops at clusters, cities for logistics companies, mine operators, truck owners (> 50 trucks) for EV adoption can be an enabler for accelerating the adoption of E-truck.
 - Battery swapping option, digitization to optimize the charging, issues solving can help. Charging infrastructure development, economics, needs support.
 - Mandate Green Financing: Incentivize banks to offer green loans at reduced rates through mandatory policy measures.
 - Need to extend Fame Policy subsidies to commercial EVs beyond 4-wheelers
 - Participants requested CII to facilitate changes in getting faster approvals and be an advocate of shared ecosystem infrastructure.

Annexures:

Annexure I : Programme agenda of the workshop & List of delegates

Time	Particulars	Speakers
1100 hrs	Welcome remarks and address by Chairman	Mr. M K Singhania Chairman - CII Cement sector initiatives & Dy. MD & CEO, JK Cement Ltd.
1110 hrs	EV project & other initiatives	Mr Balaji Raparathi Senior Programme Manager (Electric mobility), Shakti Sustainable Energy Foundation
1125 hrs	Presentation – Project updates & EV Truck scenario in Cement Sector	Mr Vaibhav Girdhar Senior Counsellor, CII-GBC
1145 hrs	Retrofit of ICE trucks: Futuristic EV technology	Mr Karthik G Marketing & Sales Manager, ABB Traction
1200 hrs	Successful application of E truck at cement sector & sector & another industrial sector	Mr. Venugopal Rao VP (S&M), Olectra Greentech Ltd.
1215 hrs	Successful application of E truck at cement sector & other industrial sector	Mr. Arun Andavar EV Marketing Executive, Propel Industries Pvt. Ltd.
1230 hrs	EV truck deployment case study	Mr. Vishal Jain Logistics Operation Head, JK Cement Ltd.
1245 hrs	EV truck deployment case study	Mr. Vishal Kanthawala Head- Logistics Centre of Excellence, JSW Cement
1300 hrs	Discussion: Open forum	
1330 hrs	Closing remarks	CII-GBC

S.No.	Name	Company Name
1	Mr. M K Singhania	JK Cement Ltd
2	Mr. Yagyesh Gupta	JK Cement Ltd.
3	Mr. Vishal Jian	JK Cement Ltd.
4	Mr. Ashish Gupta	Orient Cement Limited
5	Mr. Ankrity Das	Adani Cement
6	Mr. Chirag Varshney	UltraTech Cement
7	Mr. Vinay Kapoor	UltraTech Cement
8	Mr. Gaurav Kapoor	Dalmia Cement
9	Mr. Vishal Kanthawala	JSW Cement
10	Mr. Anurodh Malik	Star Cement
11	Mr. Chetan Prakash Bhati	Birla Cement
12	Mr. Sajjan Sharma	Nuvoco Vistas Corp. Ltd.
13	Mr. Pradeep Nain	Nuvoco Vistas Corp. Ltd.
14	Mr. Neeraj Katoch	JK Cement Ltd.
15	Mr. Karthik G	ABB Traction
16	Mr. Venugopal Rao Nellutla	Olectra Greentech Ltd.
17	Mr. Puneet Jain	UltraTech Cement
18	Mr. Gaurav Yadav	Tata Motors
19	Mr. Balaji Raparathi	Shakti Sustainable Energy Foundation
20	Mr. Arun Andavar	Propel Industries Pvt. Ltd.
21	Mr. K Muralikrishnan	CII-GBC
22	Mr. Vaibhav Girdhar	CII-GBC
23	Mr. Sougata Mahanti	CII-GBC
24	Mr. Nikhil Kumar	CII-GBC
25	Mr. Arvinth Jambunathan	CII-GBC

Annexure II : Photographs :

