

'TASK FORCE' ON "ICEMA-IMTMA"

**IMTMA DELEGATION visit to Volvo Construction Equipment India Private Ltd., Bengaluru on 22 January 2021
Summary of the Visit**

Volvo Plant Visits:

- Mr. Dimitrov Krishnan, MD, Volvo CE India, welcomed the delegates
 - He reiterated his full support for synergic activities that can happen between ICEMA and IMTMA
 - He mentioned that "Vision Plan 2030 for construction Industry" was released by Honourable Minister Gadkariji; ICEMA action-oriented vision plan is a roadmap for taking the size of CE industry to 3X from the current levels in the next 10 year.
- Presentation by Volvo CE by Jaydeep Sagare, Director Purchase
 - Three Major product lines are manufactured in the Volvo plant Excavators, Compactors & Pavers. There are various models in each line
 - Purchase department addresses Risk management, Compliance and handles Processing and Procurements of components and sub-systems
 - Volvo procures component and parts from Global and Local suppliers.
 - Final finishing, assembly and testing is being carried out in the Volvo Plant.
 - Global Supplies are: Power trains, Embedded Electronics and Software, Engine, Transmission, under carriage, Hydraulic Cylinder and the global players are from Korea, China and Europe.
 - Local Supplies are: Heavy fabrication, castings, forgings, sheet metal, machined parts, cabin body, paint etc.
 - 'Supplier development team' takes care of identifying and developing local suppliers.
 - Although suppliers are spread across the country, focus is on developing local suppliers within around 100 kms radius of the factory.
- Presentation on 'Volvo plant Operations' by Dharmendra Pandey- GM, Plant Operations
 - Eleven models, Excavator -3 and Road machinery – 8, are assembled and tested in the facility
 - Only critical parts are manufactured in the plant and rest of the components are outsourced
 - Welding, Painting, Assembly and Testing is carried out in the Volvo CE plant
 - They have a fabrication shop for their welding requirements (manual)
 - Around 20% of the products manufactured are exported, rest are for domestic market
 - They are also working on transforming Volvo plant in to 'Factory of Tomorrow' – implementing I4.0 concepts in phases

Requirements captured during the visit and interactive session:

- a) Volvo can work with 'Component manufacturing' member companies of IMTMA, OEM organisations interested in diversification in to component manufacturing can approach Volvo in this regard
- b) Three specific areas of interest of ICEMA are indigenous development of imported assemblies / aggregates : (1) Development and supply of High Pressure Hydraulics, Hydraulic pumps, drives, (2) Undercarriage Chassis parts and (3) Electrical and Electronics including controllers(hardware and software), drives and displays
- c) Component / aggregate - 'Slewing Ring' (Excavator) needs localisation which is currently being imported.
- d) Volvo expects synergy in sourcing of castings, fabrication, hydraulic, electrical and electronics, drives, motors, displays and controller – Knowledge sharing, sharing supplier base info and for localisation
- e) Volvo would like to know services offered by AMTTF and details of their facility specifically regarding noise and vibration testing, EMI/EMC testing, assessment and solutions for Safety and Compliance.
- f) Volvo would like to engage with IMTMA member companies involved in offering solution for productivity enhancement and cost reduction - Automation could be a possibility for their requirement.
- g) Training requirement in the Manufacturing Technology domain
 - i. Training is required for Volvo's vendors (for their supply chain)
 - ii. Welding skill based training is another requirement
 - iii. Training in productivity enhancement is very important and is required immediately
 - iv. Selection of machine Tools (for Volvo's fabrication team and suppliers)
 - v. IMTMA can organise a course on 'Design Thinking' for Volvo CE
- h) Volvo would like to associate with IMTMA for engaging premier Academia like IIT-M for R&D and new product / technology development

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On 22 January 2021 : Bengaluru

Programme schedule is appended below.

Programme schedule - Visit to Volvo CE India Pvt. Ltd., 22 January 2021, Bangalore	
<i>Time</i>	<i>Schedule</i>
1430 - 1440 hours	Welcome address by key officials of Volvo CE
1440 - 1450 hours	Introduction of IMTMA delegation.
1450 - 1510 hours	Presentation by Volvo CE
1510 - 1525 hours	Presentation by IMTMA.
1525 - 1645 hours	Visit to the facilities of Volvo CE
1645 - 1705 hours	Interactive meeting between key officials of Volvo CE and IMTMA delegation.
1705 - 1710 hours	Vote of thanks by IMTMA delegation to key officials of Volvo CE
1715 hours	Departure of IMTMA delegation from Volvo CE

The following Delegates visited Aequs Private Limited, Belagavi on 12 January 2021

	Name	Company	Designation
1	Mr.T.K.Ramesh	Micromatic Machine Tools Pvt. Ltd.	Managing Director
2	Mr.Rajendra Rajamane	Rajamane Industries Pvt. Ltd.	Managing Director
3	Mr.Agte Rajesh Shriram	Bharat Fritz Werner Ltd.	Vice President - Sales & Marketing
4	Mr.Ajay T.J	Jyoti CNC Automation Ltd.	Assistant Manager - Sales
5	Mr.S.Pradeep	Setco Spindles India Pvt. Ltd.	Assistant General Manager
6	Mr.Khalid N	Trumpf (India) Pvt. Ltd	Territory Manager - South
7	Mr.Lokesha S	Alex Machine Tools Pvt. Ltd.	Technical Sales Executive
8	Mr.P.J.Mohanram	IMTMA	Senior Advisor
9	Mr.Satish Kumar	IMTMA	Senior Advisor
10	Mr.M.G. Srinivas	IMTMA	Executive Director
11	Mr.Mahesh Gopalakrishna	IMTMA	Deputy Director

Contact Details of Volvo Functional Heads / Officials

Sl. No.	Name	Designation	Contact Details
1	Dimitrov Krishnan	MD, Volvo CE India & VP- ICEMA	
2	Jaydeep Sagare	Director -Purchase	8861586404 Jaydeep.sagare@volvo.com
3	Deepak Joshi	Director Technology -India	6366047172 Deepak.joshi@volvo.com
4	Dharmendra Pandey	GM - Plant Operations	8041291500 Dharmendra.pandey@volvo.com
5	Nishanth	Design	
6	Chandra	Head of Marketing	
7	KV Krishnamurthy	Technical Advisor	9880402616 Kvkmurthy1106@gmail.com