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Automotive Component Manufacturers Association of India

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IMPACT

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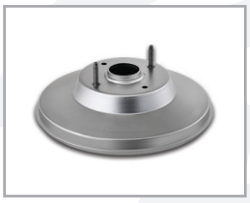

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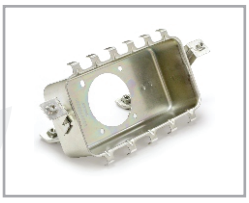

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Chairman's Message

ACMA – Skilling & Mentoring

I'm delighted to present Volume 16 - Issue 2 of IMPACT magazine, titled "ESG – Survival and Growth for All." Just as India's Chandrayaan-3 mission filled us with pride, the Automotive Component Industry has achieved a milestone of $69.7 billion in revenue, showcasing our resilience post-pandemic. However, we now face a new challenge—aligning with the Environmental, Social, and Governance (ESG) reporting framework.

ESG will determine our industry's survival and growth. These principles guide responsible and sustainable business practices. By integrating ESG into all aspects of business and society, we can achieve balanced and equitable growth, benefiting businesses, individuals, communities, and the planet. Achieving harmony among circular economy, green innovation, ethical governance, and people is essential for survival.

Investors, consumers, and stakeholders demand responsible practices, making ESG adoption crucial. ACMA offers innovative ESG programs, including certification, assessment, and a 24-month handholding program, fostering informed employees, ethical practices, and sustainable businesses.

ACMA has also introduced programs on Robotics, Automation, Total Productivity Maintenance, Lean Tool Engineering, Equipment Maintenance, and Optimization, boosting productivity, quality, and profitability.

Our programs aim to create a culture of continuous improvement, equipment reliability, and shop floor excellence. ACMA continues to prioritize workforce skill development, collaborating with national and international partners.

We invite you to participate in these programs to benefit your organization and contribute to the nation's growth during this transformative phase.

As I lay down this post, I take this opportunity to express my gratitude to one and all and in particular, past president Sri Nirmal Minda for reposing faith in me and the great opportunity to lead pillar-3, involved in improving and transforming of member industry.

I also thank ACMA members for their support, for the last seven years. Despite pandemic, the activities continued and post-pandemic, the world changed so did the technology and Pillar 3 was able to handle all these challenges in a great way. This was possible due the commitment and knowledge of Dinesh Vedpathak and his team.

I take this opportunity to wish the very best to the incoming Chairman and all the team members of pillar - 3.

As always, your feedback is invaluable as we strive for continuous improvement.

Best Wishes
FR Singhvi

Cover Story : Environment, Social, Governance- Survival and Growth for all



V. K. Sharma
Mentor - Clusters & Projects

We now live in the hottest climes known on Earth, manifest in heat waves and extreme rain. Climate change has no borders – India's monsoon trends are affected by 'western disturbances' and rise in surface temperature of ocean waters. We have read about the landslides in Himachal Pradesh and Uttarakhand, sinking of houses in Chamoli region, Ferocious than ever cyclones in South India, Assam floods, Delhi floods and it is not yet over. Climate change (or Global warming) is here to stay. However, although global warming paints a picture of despair yet it also has a message of hope in its fold – we should take inspiration from countries that have already become carbon negative – Bhutan, Surinam, Panama – and carbon neutral countries – Comoros, Gabon, Guyana, Madagascar, Niue (near New-Zealand).

The main reason why almost "all of a sudden" we have started talking about sustainability is because during the last 30 years we have gone through frequent economic crises that have led the world into the current state of emergency. In other words, we fear for the survival of our world as we know it. We fear we cannot keep up our present standard of living, and we have realized that resources are limited and we cannot **"SUSTAIN"** the way we live for ever.

Sustainability is necessary for survival.

Environmental, social and corporate governance are the three central factors in measuring the sustainability and societal impact of any organisation. If the last few months have taught us anything it must surely be how inherently linked sustainability is to survival. The business of tomorrow is likely to be different from the business of yesterday and it is now more likely than ever that the most transparent, sustainable and purposeful companies are also most likely to succeed financially.

The world, until 30-40 years ago, was much less interconnected than it is today. Every nation, every state, every region, every city or town was working and living almost in isolation. Transportation and information exchanges were more difficult, and the possibility of cultural, economical and social "contamination" was much more unlikely.

The problem of sustainability really only concerned local communities, and not a larger environment. Today, instead, the explosion of information technology and increased mobility have made the "local optima" model obsolete. We live in a constantly growing environment that requires a different approach to sustainability, or, in another word, survival. If we really want to have a safe and sustainable economy, and as a consequence we want to survive, then our system, our network, and our environment cannot be static; they must be dynamic, and so must their goals. They must learn to cooperate, adapt and grow.



What is obvious is that, for decades now, many countries have found a way to prosper through economic growth. This rapid development, however, has often been at the expense of the environment and society with dire consequences such as pollution, deforestation, and Greenhouse Gas (GHG) emissions that have contributed to the acceleration of climate change.

Sustainable growth is one that is repeatable, ethical and responsible for current and future communities. And it is key to the long-term success of any business. A sustainable approach to growth is the smartest way ahead to stay resilient and future-forward.

Sustainability in business refers to a company's strategy to reduce negative environmental impact resulting from their operations in a particular market. An organization's sustainability practices are typically analyzed against environmental, social, and governance (ESG) metrics.

Socially, sustainable practices can help strengthen community bonds, improve quality of life and provide hope for a better future. Environmentally, sustainable practices can help protect natural resources, mitigate and adapt to climate change and promote biodiversity.

Sustainability can promote business growth in many ways. Sustainability can be an advantage for anyone that wishes to engage with it, and it can foster new opportunities through risk mitigation of incoming regulations on carbon, or through new revenue streams within circular supply chains. Traditionally, economic growth has been mostly powered by fossil fuels, but new technologies are the answer to improve business development while minimizing the impact on the environment. Examples of these innovations can be electric power, innovative materials, compostable parts, and decarbonization technology such as alternative fuels, solar panels, wind technology and more. Choosing to be sustainable can mean making a profitable choice. From capitalizing with a great reverse logistics strategy, to choosing to invest in sustainability and integrate it into the main business strategy. Transparent actions towards sustainability can benefit company's reputation, and help their business grow and flourish.

We are now transitioning to what we call the "Purpose Economy". The millennial generation is demanding purpose in

their work at a level never seen before. By 2025, 75% of the workforce will comprise of millennials. At a company that has a clear ESG purpose and strategy - Employees are 3 times more likely to stay, they are 1.7 times more engaged and 1.4 times more satisfied.



Consumers are increasingly demanding socially conscious brands and organisations. In an effort to meet their overall ESG targets, automotive OEMs are increasingly adopting green procurement criteria addressing GHG emissions of suppliers. OEMs are evaluating the environmental performance of suppliers, contractors and service providers along with quality and cost giving priority to 'green' suppliers/contractors and service providers and 'green' products.

- Recently, an automotive OEM approached a well known Indian auto component manufacturer to assess them for awarding new business. The company scored 77% in the ESG audit against a requirement of 80%. The OEM deferred their decision till the supplier became ESG compliant. The supplier then worked on improving the identified KPIs and garnered the required score. Only after that, the RFQ was released by the OEM.
- In another case, a world renowned furniture manufacturing company, approached an Indian auto component manufacturer for a job order for plating. However, since the company did not have a clear cut sustainability policy and strategy at the time, the customer did not award the business to this company.

There is a move towards favouring businesses that meaningfully engage with sustainability over polluting ones, and that consumers, armed with the instant power of social media, can determine if a business can grow or struggle to survive.

Growth of a business lays in being able to invest towards a long-term future and not only chasing after immediate gains. Sustainable businesses are more committed to environmental, social, and governance (ESG) objectives. They have increased their sustainability investments year on year, showing their desire to increase their engagement with sustainability, and to do so as part of their core strategy. Real change can be achieved through sustainability partnerships. Particularly for logistic supply chains, sustainable solutions that improve business and growth, can be achieved through partnerships. These partnerships can be established among players of the same industry, or even different entities such as non-profits, governments, and logistics providers that all share the same values.

Conclusion: Now is the Time to Act on ESG :

Sustainability is at an early stage in manufacturing, but the intense focus on this topic promises to bring rapid advancements. The pressure to make operations more sustainable is coming from many directions and will only increase. Customers themselves are demanding companies to be more sustainable. If manufacturers don't respond correctly, they will definitely be left out.

What began with regulatory pressure—and is now being extended through societal and stakeholder pressure—will give manufacturers the chance to rethink their business models and their basic ways of doing business. In every market, the fastest to adapt will survive. The cost of continuing the normal path may be higher in the long term than the cost of making changes now.

The basic planetary needs that are driving sustainability will ultimately overcome any other objective and require manufacturers to make these efforts a fundamental aspect of their industry.

Sustainability creates business value for long-term prosperity. And that's because the sustainable business is built to last – strategies are implemented for longevity. The dependencies between our environmental, social, and economic systems are leveraged.

You can earn more money and boost your bottom line by making your business more sustainable. Reduced business costs, more innovative strategies, an improved reputation, and more new customers who value sustainability all work to increase the amount of monev sustainable businesses earn.



Need & Challenges of ESG Reporting in Automotive Industry



Tanu Ahuja
Sr. Counselor

There's no getting away from ESG these days. Bringing together three core sustainability areas—environmental, social, and governance—ESG is now increasingly high on the corporate agenda.

The automotive industry sector is facing several ESG challenges, which are posing a threat to the industry's sustainability. This industry is not only one of the largest consumers of energy and resources but also a significant contributor to greenhouse gas emissions. Therefore, the need for sustainable business practices has become a critical issue

Not only regulators, customers, and employees insist that companies commit and adhere to certain sustainability standards, but also capital markets and financial stakeholders request clear ESG targets and reported progress on them.

With the upcoming tightening regulations on ESG reporting the pressure's only mounting.

The need to focus on ESG reporting could be attributed to following factors:

Increased Focus on Emissions Reduction: GHG Emission Reduction is the prime factor for Sustainability. Countries across the globe and hence OEMs, have taken ambitious targets to become net zero in near future.

Disclosure of Supply Chain Impacts: There is growing pressure on automobile companies to disclose the social and environmental impacts of their supply chains, including issues such as forced labor, deforestation, and carbon emissions.

Emphasis on Diversity and Inclusion: Companies in the automotive industry are also recognizing the importance of diversity and inclusion in driving business success and are reporting on their efforts to promote a more diverse and inclusive workforce.

Need of Good Governance Practices: Good corporate governance leads to ethical business practices, which leads to financial viability. It also includes transparency & code of conduct for all stakeholders.

Increased Demand for ESG Assurance: Investors and other stakeholders, especially the Customers, are placing a greater emphasis on the need for independent assurance of ESG reporting, in order to ensure the accuracy and reliability of the information being disclosed.

However, there are challenges associated with ESG reporting too.

Auto industry is a complex network of organised & unorganised suppliers & service providers. Lack of Awareness or Understanding of sustainability among the supply chain makes it difficult to collate the ESG data.



While emissions are critical ESG issue, there is a lack of agreement on their measurement. Some standards ask for emission at product level and some at company level. Different reporting frameworks also make it difficult for companies to compare their ESG performance accurately.

The ESG reporting can be time-consuming and resource-intensive as companies need to gather and analyse large amounts of data to report accurately on their ESG practices. This can be particularly challenging for smaller companies or those with limited resources.

Obtaining accurate and reliable data on ESG issues can be challenging, particularly for supply chain impacts and End of Life.

There is a need for independent assurance and verification of ESG reporting, but this can be challenging and expensive to obtain.

Irrespective of challenges associated with ESG reporting, the companies that can effectively report and verify their ESG data will not only be better positioned to manage ESG risks and opportunities but will also build stakeholder trust and enhance their reputation.

The pressure to report ESG credentials is both internal & external. On one hand, Regulations from SEBI or EU etc are demanding to disclose non- financial KPIs and on the other hand the companies compete among themselves regarding the speed of and strategy behind their sustainability shifts.

The time to ACT on ESG is NOW !!



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Highway, NH-2, Palwal
Hodal - 121106, (HR)- India

Bawal
Plot No. 120-130, Sector - 7
Growth Centre Bawal - 122501
(HR)- India

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Culmination Report :

ACMA Sustainable Manufacturing Program

(October 2021 – March 2023)



Mr. V. K. Sharma
Mentor - Clusters
& Projects, ACMA



Ms. Tanu Ahuja
Sr. Counselor, ACMA

Participating Companies :

- Abilities India Pistons & Rings, Ghaziabad
- Global Autotech Limited, Gr. Noida
- Sundaram Auto Components Ltd., Hosur
- Wheels India Ltd- EEPD, Padi, Chennai

Breakthrough Achievements :

Major achievement is 9300 MT CO_2 emission reduction.

Total Savings 18 Cr	Payback 22.5 Times	ROI in 24 Days

Energy Efficiency:

Total Projects Done: 29

Units Consumption Reduced: 16,71,003 Kwh

Co2 Emission Reduction: 576 Ton

Cost Saved: 28 Lakhs

Water Efficiency

Total Projects Done: 19

CO2 Emission Reduction: 1426 Ton

Consumption Reduced: 60,000 Kilo Litres

Cost Saved: 165 Lakhs

Material Efficiency

Total Projects Done: 32

Consumption Reduction: 2571 Tons

CO2 Emission Reduction: 4806 Ton

Cost Saved: 1200 Lakhs

Waste Management:

Total Projects Done: 11

Consumption Reduced: 1084 Ton

CO2 Emission Reduction: 674 Ton

Cost Saved: 90 Lakhs

Logistics Improvements:

Total Projects Done: 13

Consumption Reduction: 15420 litres

Consumption Reduction: 51.48 Ton

CO2 Emission Reduction: 460 Ton

Cost Saved: 155 Lakhs

Feedback

Sr. No.	Particulars	Score * -- (on a scale of 10) SACL	WIL, EEPD	Abilities India	Global Auto
1.	Counselor Visits	10	10	10	10
2.	Inputs Received	10	09	10	10
3.	Relevance of Inputs	10	10	10	10
4.	Delivery as per plan (roadmap)	10	10	10	10
	Total score (out of 40)	**40**	**39**	**40**	**40**
	Score in % (Out of 100)	**100**	**98**	**100**	**100**

Renewable Energy & Rain Water Harvesting

SACL
- Current:
- Solar : 5 %
- Wind Energy: 90 %
- Target: 100

Rain Water Harvesting: 115 Lakh Litres (2 Ponds)

AIPL
- Solar Energy:
- Current: : 16 %
- Target: 70 %

Rain Water Harvesting: 5281 KL

GAL
- Solar Energy:
- Current: : 9.58 %
- Target: 38

Rain Water Harvesting: Target: 105 KLD





Culmination Report :
Zero Defect Quality Cluster - 1
(April 2021- Mar 2023)



Mr. Sunil Mutha
Dy. Exe. Director, ACMA
(Mentor)

Participating Companies :

- **Stumpp Schuele & Somappa Springs, Bengaluru**
- **Minda Industries, Pune**
- **I M Gears, Chennai**
- **HI Tech Gears, Bhiwadi**
- **Madhusudan Auto, Gurgaon**
- **SKH Marelli Exhaust System, Manesar**
- **MGM springs, Ananthpuram**
- **Wheels India Ltd., Pune**



Mr. Arup Kumar Basu
Expert Cluster Program, ACMA
(Counselor)



Mr. Ashok Havanurkar
Expert Cluster Program, ACMA
(Counselor)

Breakthrough Achievements

- Out of total 276 defects, 255 Defects eliminated or in positive trend in Model line
- Out of total 1469 defects, 1370 Defects eliminated or in positive trend in total plant.
- 1469 DRVMEs prepared by the teams including operators.
- A total of 3879 nos. actions have been implemented as DRVMEs action.
- 689 Nos Poka yoke implemented
- 45696 and 40817 nos. abnormality captured and eliminated respectively using Five senses
- 402 and 352 nos. Deskilling identified and implemented respectively.
- Quality war room created in all eight companies
- ZDQ Logo made in all the eight plants. Logo competition organized for the same for awareness and TEI.
- All companies improved in undesirable habits & practices score by min 50%
- In star diagram 388 actions implemented and 211 storage locations deleted.

Savings	
Company Names	**Savings in INR (Lakh)**
Stumpp Schuele & Somappa Springs	108.10
Minda Industries	Not Disclosed
I M Gears	38.17
HI Tech Gears	100.40
Madhusudan Auto	107.12
SKH Marelli Exhaust System Pvt. Ltd.	15.00
MGM springs	163.00
Wheels India Ltd.	218.86
Total Savings	**750.55**

Total Savings 750.55 Lakh	Payback 5.5 Times	ROI in 73 Days

Feedback									
Sr. No.	Particulars	Score * -- (on a scale of 10)							
		IM Gears	WIL Pune	Minda Industries	Hi Tech Gears	SKH	Madhu sudhan Auto	MGM Springs	SSS Springs
1.	Counselor Visits	10	10	10	10	10	10	10	10
2.	Inputs Received	10	10	09	10	09	10	08	10
3.	Relevance of Inputs	10	10	09	10	09	10	08	10
4.	Delivery as per plan (roadmap)	09	09	09	08	08	10	08	9.5
	Total score (out of 40)	**39**	**39**	**37**	**38**	**36**	**40**	**34**	**39.5**
	Score in % (Out of 100)	**97.5**	**97.5**	**92.5**	**95**	**90**	**100**	**85**	**98.8**

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Cooling the Planet

Culmination Report :
Engineering Excellence Cluster - 5
(June 2021 to May 2023)



Mr. Sunil Mutha
Dy. Exe. Director, ACMA
(Mentor)



Mr. Jayant Thipse
Expert Cluster Program, ACMA
(Counselor)

Participating Companies :

- **Dana Anand India Pvt. Ltd., Dharwad**
- **Mutha Engineering Pvt. Ltd. Unit II, Satara**
- **Wheels India Limited, CAW, Chennai**

Total Savings 2284 Lakh	Payback 31.72 Times	ROI in 19.2 Days

Breakthrough Achievements

- Coolant Free machines : 22 M/c's converted to DRY Cutting.
- Plant Preparation time reduced from 72 hours to 0.5 hour.
- Productivity Improvement by 120% to 300 %.
- 88 Chip Conveyors Eliminated.
- Tool life improvement by 10 time to 110 times.
- Capital Cost Saving 4 machine removed.
- FREE From Stabilizers Plants.
- Electrical Control Panel AC FREE Plant.
- Electrical Control Panel Size reduced by 50 %.
- Electrical Energy Saving 20% wrt Sale.
- Hydraulic Radiator's and Heat Exchangers eliminated.

Savings

Company Names	Savings in INR (Lakh)
Dana Anand India Pvt. Ltd., Dharwad	719.3
Mutha Engineering Pvt. Ltd. Unit II, Satara	629.0
Wheels India Limited, CAW, Chennai	936.12
Total Savings	**2284.42**

Feedback

Sr. No.	Particulars	Score * -- (on a scale of 10)		
		Dana Anand India Pvt. Ltd. Dharwad	Mutha Engineering Pvt. Ltd. Unit - II	Wheels India Limited
1.	Counselor Visits	10	10	10
2.	Inputs Received	10	10	10
3.	Relevance of Inputs	10	10	10
4.	Delivery as per plan (roadmap)	10	10	09
5.	Learning from model company visits	09	09	09
	Total score (out of 50)	**49**	**49**	**48**
	Score in % (Out of 100)	**98**	**98**	**96**









Broaching M/c Converted from Hydraulic to Electrical

Culmination Report :
Advance Cluster - 15
(November 2020 – March 2023)

Participating Companies :

- **JK Fenner Ltd. Unit - II, Hyderabad**
- **JK Paper Ltd. Unit - CPM, Songadh**
- **JK Paper Ltd. Unit - JKPM, Rayagada**
- **Trinity India Forgetech Pvt. Ltd., Pune**



Mr. Sunil Mutha
Dy. Exe. Director, ACMA
(Mentor)



Mr. Aniket Khasnis
Asst. Principal Counsellor, ACMA

Total Savings 8500.76 Lakh	Payback 6.31 Times	ROI in 99.60 Days

Breakthrough Achievements

- 5S Score achieved – 85%.
- Plant Preparation time reduced from 4320 to 30 min.
- Spitting free walls and corner of the building.
- Use of air guns reduced by 70%.
- 100% TEI achieved by activities like Suggestion, Kaizen and QCC.
- No earth is visible in entire area, material movement path is well defined at shop floor.
- Able to reduce the working inventory from 2 days production to half day production, by proper planning and use of star diagram.
- Space saving 21000+ sq. ft. (@2000 Sq. mtr.)
- Model line length reduced by 38% from 50 To 35 mtr.
- Single Piece flow and no waiting time on all the lines, productivity Improved - 30% on model line.
- Doubled productivity through VSM concept in Gearbox line.
- Change over time reduced by 57%.
- 124 Poka-Yoke identified and 59 implemented.
- Through LCA saving 263 lacs.
- Kit implementation and reduction in WIP Inventory by 21% and elimination of primary packing
- Customer Satisfaction : 95.4%, On time Delivery – 100%, Customer Complaint reduced by 45% and Good Appreciation from Customers and Seniors.

Savings

Company Names	Savings in INR (Lakh)
JK Fenner Ltd., Hyderabad	82.00
JK Paper Ltd. Unit - CPM	7458.80
JK Paper Ltd. Unit - JKPM	865.39
Trinity India Forgetech Pvt. Ltd.	94.57
Total Savings	**8500.76**



Plant preparation time 4320 min.



Plan preparation time 60 min.

Feedback

Sr. No.	Particulars	Score * -- (on a scale of 10)			
		JK Fenner Ltd.	JK Paper Ltd. Unit - CPM	JK Paper Ltd. Unit - JKPM	Trinity India Forgetech Pvt. Ltd.
1.	Counselor Visits	10	09	09	10
2.	Inputs Received	10	10	10	10
3.	Relevance of Inputs	09	10	09	10
4.	Delivery as per plan (roadmap)	09	09	09	09
5.	Learning from model company visits	09	10	08	09
	Total score (out of 50)	**47**	**48**	**45**	**48**
	Score in % (Out of 100)	**94**	**96**	**90**	**96**



5S culture developed

Culmination Report :
ACMA TVSM Supplier Improvement Cluster
(April 2022 – March 2023)



Mr. V. K. Sharma
Mentor - Clusters & Projects, ACMA



Mr. M. S. P. Maren
Expert Cluster Program, ACMA
(Counselor)

Participating Companies :

- GI Auto Pvt Ltd., Unit-5
- Narasipur Auto Components Pvt. Ltd
- GI Auto Pvt. Ltd., Unit 4
- Sandhar Automotives, Bommasandra
- Multilink
- Sandhar Technologies Limited, Hosur

Breakthrough Achievements

- Focus on Plant Safety through 1S , 2S zone wise monitoring.
- Red Tag campaign followed to improve 1s.
- Kaizen implementation across companies.
- TEI QCC 100% covered.
- SMED Projects taken up in all 6 companies.
- Equipment Step 123 practiced.
- DPR & QPR Daily review and monitoring to achieve > 98%
- Garden Green out Skirts.

Total Savings 176.42 Lakh

Savings

Company Names	Savings in INR (Lakh)
GI Auto Pvt Ltd., Unit-5	12.74
Narasipur Auto Components Pvt. Ltd	6.84
GI Auto Pvt. Ltd., Unit 4	8.11
Sandhar Automotives, Bommasandra	65.36
Multilink	32.83
Sandhar Technologies Limited, Hosur	50.54
Total Savings	**176.42**

Companies' Feedback

Multilink
Hr. Production : 70% → 98%
DPR : 70% → 96%
QPR : 77 % → 86%

GI Auto – Unit 5
OEE :64% → 86%
DPR :79 % → 91%
QPR :84 % → 95%

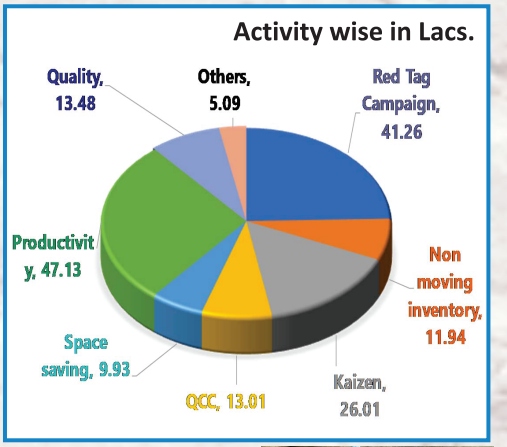
Narsipur Auto Components
Hr. Production : 81% → 96%
DPR :39 % → 86%
QPR :92 % → 92%

Sandhar Automotives
Hr. Production : 93% → 97%
DPR :95% → 100%
QPR : 60 % → 78%

GI Auto – Unit 4
Hr. Production : 72% → 89%
DPR :91 % → 98%
QPR :90 % → 95%

Sandhar Technologies
Hr. Production : 68% → 84%
DPR :80% → 95%
QPR : 60 % → 78%

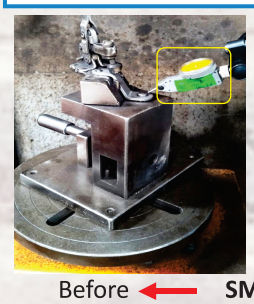
Waste Elimination Cost Saving = 167 Lacs.







Before ← PARTS HANDLING → After





Before ← SMED → After
Reduction in Set Up Time by 69%

SONA COMSTAR

GEAR UP
TOWARDS THE FUTURE!

We are proud to have crossed the production milestone of

350,000,000

Bevel Gears

Feb 2023



5,000,000

Differential Assemblies

Jul 2023



Electrifying the
future of mobility!

ACMA Programs on Offer

Futuristic / Upcoming Programs

- Industry 4.0 / AI
- Customer Relation Ship Management
- Enhancing Innovation
- Electric Vehicle Support Program

List of Assessment Programs

- Productivity
- Manufacturing Excellence
- Safety
- Energy efficiency
- Sustainability
- Digitization/ Industry 4.0
- Skill

List of Clusters Programs

- ACMA Program on Environment, Social and Governance
- Sustainable Manufacturing Cluster - Carbon Footprint eduction
- Zero Defect Quality Cluster
- Zero Defect Plus Cluster - Zero defect in NPD process
- Beyond Zero Defect
- Engineering Excellence Cluster
- Advance Cluster - Lean Manufacturing
- New Product Development Foundation Cluster
- New Product Development Design Cluster
- Tool Engineering Cluster
- Skill Development Cluster
- Low Cost Automation Cluster
- Rudimentary Framework Program
- Human Resource Cluster
- Special Program on Robotics & Automation-maintainability & Optimization

For more details please contact :
Mr. Anupam Dass at anupam.dass@acma.in
Mr. Aniket Khasnis at aniket.khasnis@acma.in
Ms. Tanu Ahuja at tanu.ahuja@acma.in

List of Programs / Projects

- Wow Effect - complete turn around project
- Bottleneck Management
- Deskilling of Manufacturing Activities
- ACMA Equipment Maintenance & Optimization Program
- Special Lean Process Engineering for Plastic Industries
- Special Lean Process Engineering for Forging Industries
- Special Lean Process Engineering for Foundry Industries
- Special Lean Process Engineering for Fabrication Industries
- Daily Work Management Program
- Uptime Improvement
- Lean Implementation Program
- Special Projects on Zero Defect
- Asset Turn Ratio Improvement Project
- Productivity Improvement Project
- Quality Adherence Project
- Breakeven Point Reduction Program
- New Plant Initiation Project
- Material Flow Cost Accounting - MFCA program
- Management By Objective - Improvement Project
- Paint Shop Optimization & Modernization Project
- Through Put Rate Improvements Project - Bottleneck Management
- Working Capital Improvement Project
- Performance Enhancement Project
- Employee Participation, Involvement and Engagement Project
- Manufacturing and Process Engineering Project
- Safe Working Culture development program
- Engineering Improvement Project
- Inventory Improvement Project

ACMA

SAKSHAM
ACMA CENTRE OF EXCELLENCE

2+3 Days Certification Course

on

ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG)

at

ACMA Centre of Excellence (ACoE) SAKSHAM

Topics to be Covered

(27.9.23 / Wed) DAY 1

- Concept of Sustainability
- Environmental, social, and economic governance of sustainability.
- Importance of balancing these aspects for long-term success.
- Group Exercise
- Sustainable Manufacturing
- Introduction to ESG and its impact on auto component manufacturers
- UN Sustainable Development Goals

(28.9.23 / Thru) DAY 2

- Purpose Statement
- ESG Policy & Framework
- Group Exercise
- Carbon Emission accounting: Scope 1, 2, 3
- Carbon Emission Reduction- illustrations & case studies

(30.10.23 / Mon) DAY 3

- Group Exercise
- Responsible business
- Mindful Leadership
- Safety, Training & Development
- Diversity and Inclusion
- Code of Ethics

(31.10.23 / Tue) DAY 4

- Reporting frameworks – BRSR, GRI, SBTi, CDP
- Sharing reports – BRSR, GRI
- Integrated report
  - Importance of transparent reporting on sustainability efforts.
  - Group Exercise
- Greenwashing

(01.11.23 / Wed) DAY 5

- Clean energy, Water harvesting, Afforestation
- Sharing of Best Practices by companies
- Commitment to Sustainable Change
  - Encouraging participants to take active roles in promoting sustainability within auto companies.
- Continuous Learning and Improvement
  - Emphasizing the importance of ongoing education and adaptation to evolving sustainability trends.
- Conclusion and Call to Action

Last date to apply 20th September, 2023

Note: As the training is for a limited number therefore, the First 30 registered participants will be permitted for the training.

For more details please contact
Mr. Rakesh Kumar at rakesh.kumar@acma.in

ACMA ESG ASSESSMENT PROGRAM

ESG stands for Environmental, Social, and Governance. Investors and Customers (including automotive OEMs) are increasingly applying these factors as part of their assessment process to identify material risks and growth opportunities in the entire value chain.



Starting FY2022-23, Securities and Exchange Board of India (SEBI) has mandated Environmental, Social, and Governance (ESG) reporting requirements for country's top 1,000 listed entities (by market capitalisation). These companies will need to submit a Business Responsibility and Sustainability Report (BRSR), replacing the erstwhile Business Responsibility Report (BRR).

In an effort to meet their overall ESG targets, automotive OEMs are increasingly adopting green procurement criteria addressing GHG emissions of suppliers. OEMs are evaluating the ESG performance of suppliers, contractors and service providers along with quality and cost giving priority to 'green' suppliers/contractors and service providers.

Awareness is growing that a strong ESG proposition correlates with higher equity returns. Sustainable practices attract more customers, allows better access to resources, lowers energy and water consumption and therefore also reduce operational costs

As a responsive Industry body, ACMA has always come up with new services and programs that help the membership to become future ready. In addition to ACMA's two years ESG program introduced earlier this year, we have now introduced a new service i.e. ESG assessment - to help members understand their current level of maturity against the ESG requirements. This realization can then help in formulating focused strategies to achieve the desired levels of ESG performance.

Once contracted, ACMA will conduct a detailed data collection, assessment and analysis at the client company and will submit a comprehensive report within a short duration, typically two weeks.

THE ASSESSMENT DELIVERABLES ARE:

- Thorough investigation of parameters under three pillars of ESG
  - Environment
  - Social
  - Governance
- Identification of major AFIs to enhance ESG performance
- Indicative recommendations on interventions in identified areas
- Detailed assessment report, with scope of improvement

THE MULTIPLE BENEFITS COMPANIES CAN DERIVE BY BECOMING ESG COMPLIANT INCLUDE:

- Building brand value
- Attractive to investors, customers, employees and society
- Meeting regulatory requirements
- Competitive exports to EU and USA
- Improving topline and bottomline

PROGRAM ON ESG

ACMA

Program Duration : 24 Months

Topics to be covered

- Understanding ESG
- Environment Stewardship
- Energy Management
- Water Management
- Safe and Joyful workplace
- Human Capital
- Societal Stewardship
- Governance
- Sustenance

ESG stands for Environmental, Social, and Governance. Investors and Customers (including automotive OEMs) are increasingly applying these factors as part of their analysis process to identify material risks and growth opportunities.



Environmental

- Quantification of Scope 1, 2 & 3 Emissions
- Energy Efficiency
- Primary & Secondary materials efficiency
- Process Waste – Reduce, Reuse, Recycle
- Zero liquid Discharge
- Zero waste to landfill
- Water neutral

Social

- Safety
- Ergonomics
- Employee Engagement & Development
- Gender Diversity
- Community connect
- Carbon Offsetting – Afforestation, Water harvesting
- Renewable Energy

Governance

- ESG Policy
- Actions for Sustainability
- Business Ethics
- Supplier Code of Conduct
- Employees' Code of Conduct
- Performance reporting
- Board composition

- Carbon Footprint Reduction
- Specific energy consumption reduction
- Material waste reduction
- Other waste reduction, recycling

- Water consumption reduction
- Zero accidents
- Improved employee productivity
- Reduced energy costs
- Brand building

- Clear structure with defined roles & processes
- Improved Decision Making
- Greater shareholder value, better P/E ratios

UNO MINDA
DRIVING THE NEW



LEADERS IN AUTO COMPONENT & SYSTEMS MANUFACTURING

DRIVING the NEW TECHNOLOGY

PERSONALIZED

Wireless Chargers, Logo Projectors, CAN-enabled Switch & Heat-cool Seat

AUTONOMOUS

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CONNECTED

Telematics Control Unit & IoT Platform

ELECTRIFIED

More than 12+ EV Specific 2W & 3W Products

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Sustainable Mobility in India:
Combating Pollution and Oil Dependency for a Greener Future



Abhinav Rastogi
Asst. Director

As countries worldwide strive to achieve the goal of net-zero emissions in the coming decades, India is also taking ambitious steps. India aims to reduce the pollution produced per unit of economic activity by 45 percent by 2030.

Air pollution is a serious environmental issue in India. According to the annual world air quality report published by Swiss air quality technology company IQAir, 15 out of top 20 most polluted cities in the world are Indian (PTI). Also, India is among the top 10 countries in terms of most vehicle owners and, as per the trends, in upcoming days the numbers will increase so Vehicular emission is a major cause of air pollution in urban areas. Typically, vehicular emission contributes 20-30% of Particulate Matter (PM) 2.5 at the breathing level of air quality. At the same time, around 10% of total Greenhouse Gas (GHG) Emissions in India is from the transport sector.

Adding to the challenge, India is the world's third-largest consumer and importer of oil. A significant 85 percent of the oil it needs is imported. This oil is turned into gasoline and diesel at refineries. In the fiscal year 2022-23, India's crude oil imports increased by 9.4% compared to the previous year, reaching a staggering 232.4 million tonnes. In terms of money spent, India shelled out $158.3 billion for crude oil imports in that fiscal year, a substantial jump from $120.7 billion in the year before, according to data from the PPAC.

This trend suggests that India's oil imports are on the rise and are projected to continue growing over the next five years. The cost of importing all this crude oil is enormous. Also, India currently spends roughly 13% to 14% of its economic output (GDP) on logistics. The goal is to significantly cut this expense down to around 7.5% in next five years.

To tackle these issues, India is exploring a strategy centred around using clean and sustainable fuels for vehicles like biofuels, EV batteries, hydrogen, electric highways etc. which we'll delve into in this article. Here are some of the ways India is planning to use its own resources to power green energy for its vehicles-

Li-Ion battery by India-

Li-ion batteries make up most expensive component of an electric vehicle, accounting for 40-50% cost. With the increasing penetration of EVs in our transport system, the demand for Li-ion batteries for EV application is set to skyrocket. This is expected that India will need about 60 GWh by 2025 and 120 GWh by 2030.

Currently, Li-ion cells are imported from China or Taiwan to be assembled into batteries in India, already assembled battery packs are also being imported. Considering the ambitious plans to push EVs, these imports are going to cost the economy dearly. Previously India neither has any known source of Lithium nor cobalt but recently we have found reserves of lithium (around 5.9 million tonnes) and other critical minerals in the Salal Hamima region of the Resai district of Jammu and after Jammu, lithium reserves have also been found near Nagaur district in Rajasthan. It is believed that these reserves can meet 80% of the country's demand. Also, the central government has facilitated Khanij Bidesh Organization to sign separate MOUs with Argentina and Bolivia to ensure continued supply of Lithium compound. To get a correct perspective, it is necessary to mention that Lithium forms only 1.4% of the cell weight.

The Indian lithium-ion battery market was valued at USD 1.66 billion in 2020, and it is expected to reach USD 4.85 billion by 2027, registering a CAGR of 17.23% during the forecast period of 2022-2027.

Benefits:

- Lithium-ion batteries have a high energy density, meaning they can store a substantial amount of energy in a relatively small and lightweight package.
- Lithium-ion batteries have a low self-discharge rate compared to many other rechargeable battery technologies. This means they can hold their charge for longer periods when not in use.

Limitations:

- Lithium-ion batteries have a finite lifespan, typically measured in charge cycles. Over time, the capacity of the battery degrades, reducing its ability to hold a charge.
- Lithium-ion batteries are sensitive to overheating, overcharging, and physical damage. In rare cases, they can experience thermal runaway, leading to fires or explosions.

Aluminium Air Batteries-

Despite the popularity and overall advantages of lithium-ion batteries in the booming EV market in India and in other countries, many experts have highlighted their drawbacks such as high temperatures can make them vulnerable, they require protection from being overcharged and completely discharged, and they have a finite lifespan.

With the evolution of the electric vehicle (EV) industry, evolves the energy storage technologies. Hailed as a workhorse tech option, Lithium-ion is the dominant energy source for EVs. That could change over the next few years, as Aluminium-air (Al-Air) technology gets ready to be commercialised in India this year.

Also, India has few exploitable options to produce lithium, but the eastern jungles of India hold large reserves of bauxite, the ore used to make Aluminium. India is among the top 10 bauxite producers. It has some 600 million tons of the ore in proven reserves according to the U.S. Geological Survey, though India's mining ministry estimates that untapped resources may be many times than this amount. This availability of raw material for Aluminium batteries can make India a global leader in Aluminium batteries.

Aluminium-air batteries are a type of metal-air battery that uses aluminium as the anode and ambient air as the cathode. These batteries have the potential to offer high energy density and long-range capabilities, making them attractive and economic for electric vehicles (EVs) and other energy-intensive applications.

Benefits:

- Aluminium-air batteries also have a high energy density, meaning they can store a significant amount of energy relative to their size and weight.
- Aluminium is abundant and recyclable, making aluminium-air batteries relatively environmentally friendly. The primary byproduct of these batteries is aluminium oxide, which can be recycled back into aluminium.

Limitations:

- One of the primary limitations of aluminium-air batteries is that they are not easily rechargeable. Once the aluminium anode is consumed, the battery needs to be replaced or recharged by replacing the aluminium, which can be a cumbersome and costly process.
- Aluminium-air batteries face practical challenges, such as managing the reaction with oxygen and preventing corrosion of the aluminium anode.

Sodium Ion Batteries-

Lithium-ion batteries have led the market in electric vehicles (EV) since the inception of this category of vehicle. But lithium-based cell chemistries are not the industry for batteries in the medium or long term. Price, safety, sustainability, and ethical considerations limit its future growth.

Few Indian companies are betting big on Sodium-Ion batteries, which are believed to offer better performance and can operate at a wider temperature range. They work much more efficiently in cold environments. They are non-flammable and are expected to have more service life than Lithium-Ion batteries.

India can well emerge as a global hub for manufacturing sodium-ion batteries, which is seen as an alternative or complementary technology to the more expensive lithium ion-powered batteries. Sodium has some upper hand on lithium like sodium is a thousand times more abundant across the world than lithium and extraction costs are extremely low. A sodium-ion battery uses aluminium whereas a lithium-ion one uses copper, which is three or four times more expensive. Also, sodium-ion is a safer alternative, and can be transported at zero volt, whereas lithium-ion batteries have to be stored with a minimum charge at all times, raising the chances of fire hazards. All this makes a sodium-ion battery 30-40 per cent cheaper than a lithium-ion battery. Sodium-ion batteries also charge at a faster rate than lithium-ion variants and have a life cycle that is three times higher. It can charge a battery for a three-wheeler, for instance, up to 80 per cent within seven or eight minutes.

By around 2025, it is anticipated that the installation of equipment for sodium-ion batteries will be in progress, enabling the stepwise growth of the market share for sodium-ion technology in India.

Benefits:

- India has access to abundant sodium resources, which makes sodium-ion batteries an attractive option. Sodium is more abundant and less expensive than lithium.
- Sodium-ion batteries are considered more environmentally friendly compared to some other battery types, such as lithium-ion. They don't rely on scarce or environmentally sensitive materials, and sodium is a more sustainable resource.

Limitations:

- Sodium-ion batteries generally have a lower energy density compared to lithium-ion batteries. This means they may have a lower capacity to store and deliver energy, which can result in shorter driving ranges for electric vehicles and the need for larger, heavier batteries.
- Sodium-ion battery technology is still in the development and research phase. While there is potential, there are challenges to overcome, including improving energy density, cycle life, and safety, before they can compete with established battery technologies like lithium-ion.



Above, we've talked about the primary energy sources for Indian electric vehicles (EVs). The three battery types we discussed are at very mature stage to be used in coming future.

But that's not all - there's exciting research happening in India on batteries like lithium-tungsten, lithium-sulphur and zinc-manganese oxide. These are newer technologies, still in the research and development phase, but they hold great promise for the future of EVs.

As technology evolves, we can look forward to even more advanced and efficient energy solutions to power the electric vehicles of tomorrow."

In India, the future of fossil fuels is indeed limited. Given the urgent need to address carbon emissions, it's high time we rethink our approach to fuels.

At the recent UN Climate Change Conference COP 26, Prime Minister Narendra Modi made a significant commitment. India is determined to achieve net-zero carbon emissions by 2070. This is a bold and essential step.

By moving toward net-zero emissions, India has the potential to emerge as a global leader in sustainable energy. This not only benefits our environment but also makes our nation 'Atmanirbhar,' or self-reliant. Imagine, we can transform from one of the world's largest fuel importers to one of the largest fuel exporters in the near future.

India's vision for a cleaner future doesn't rely solely on electric vehicle (EV) batteries. There are several other methods in the mix, each playing a vital role in helping us achieve net-zero emissions. These include biofuels, hydrogen, hydrogen fuel cells, and even electric highways.

Stay tuned for our next issue of 'IMPACT,' where we'll dive deeper into these exciting green energy solutions. Thank you for joining us on this journey towards a cleaner and more sustainable India.

(To be continue in next issue...)

JK EVOLVE

EV Solutions

2W EV Product Solutions


Traction CVT System


Hub Motor

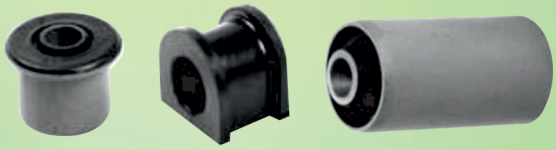

Mid Drive Motor


Rubber & Steel Braided cables


Transmission Seals


Wheel Hub Seals


Fork Seals


Moulded Rubber Parts

3W/LCV E-Axle Solutions

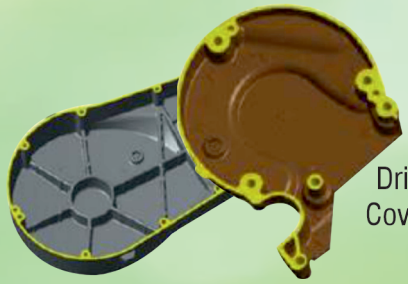



Motor


Controller


Gear Box

Light Weight Solutions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+91 452 - 4283800 filmdu@jkfenner.com

ACoE Program Calendar (Sept, Oct & Nov 2023)

S.No.	Date	Program Area	Program Name	Key Deliverables	Mode of Training
1.	25-27 Sep-23	Automation	PLC and HMI COntrol System	• Gain practical knowledge of PLC and HMI concepts. • Understand the integration of PLCs and HMIs in industrial automation. • Learn to design, program, and troubleshoot PLC and HMI systems. • Acquire skills to create efficient and user friendly HMI interfaces. • Develop the ability to work on real-world industrial automation projects.	Physical @ACoE Sonipat
2.	27-28 Oct-23	ESG	(Phase -I) ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) SMALL ACTS, BIG IMPACTS	• Identify your overarching sustainability values and define your vision • Learn how to prioritise your key areas of focus • Define KPIs for ESG • Set measurable and actionable goals to achieve business objectives • Create ESG policies • Prepare a plan to implement your ESG strategy • Bridge the gap for Customer's Expectations on Sustainability	Physical @ACoE Sonipat
3.	30 Sep -23	Safety Awareness Virtual Session	IDENTIFY YOUR RISK Driving Safety Culture in the Organization	• Understanding the core principles of safety culture within ACMA. • Showcasing the progress made in cultivating a safety first mindset throughout the organization. • Recognizing the collective effort of individuals in fostering a culture of safety.	
4.	04-06 Oct-23	VSM	Phase - I Five-Days Workshop Enhancing Productivity through Value Stream Mapping (VSM) by driving projects at your organization	Day 1: (4th Oct 2023) Introduction to Lean & VSM Basics • Registration and Welcome • Workshop Overview and Objectives • Understanding Lean Principles and Concepts • Introduction to Value Stream Mapping (VSM) Day 2: (5th Oct 2023) Current State Mapping & Analysis • Value Stream Mapping Symbols and Terminology • Group Exercise: Drawing a Basic Current State Map • Value Stream Analysis Techniques and Metrics • Analysing Current State Maps and Identifying Waste Day 3: (6th Oct 2023) Advanced VSM Concepts and Future State Mapping • Developing Future State Maps • Identifying gaps and designing an Improvement plan • Group Exercise: Creating Future State Map • VSM Tools & Techniques for implementation	Physical @ACoE Sonipat
5.	30 Oct-1 Nov -23	ESG	(Phase -II) ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) SMALL ACTS, BIG IMPACTS	• Identify your overarching sustainability values and define your vision • Learn how to prioritise your key areas of focus • Define KPIs for ESG • Set measurable and actionable goals to achieve business objectives • Create ESG policies • Prepare a plan to implement your ESG strategy • Bridge the gap for Customer's Expectations on Sustainability	Physical @ACoE Sonipat
6.	21-22 Nov-23	VSM	Phase - II Five-Days Workshop Enhancing Productivity through Value Stream Mapping (VSM) by driving projects at your organization	Day 4: (21st Nov 2023) Presentation of Projects • Participant Presentations: Implementation Experience and Challenges • Group Discussion on Participant Presentations • Interactive Workshop: Sharing Lessons Learned and Best Practices Day 5: (22nd Nov 2023) Feedback, Analysis & Conclusion • Faculty Feedback on Participant Presentations • Group Activity: Analysing Common Implementation Challenges • Workshop Closure and Certificate Distribution • Reflection and Q&A Session	Physical @ACoE Sonipat
7.	To be planned	Automation	Mechatronics - Factory Automation	• Sensor and object detection, graphic symbols, set up of different sensors along with working principles, connection technology and circuit technology. • Hardcore practical work on industrial advance electro pneumatic & electro-hydraulic with PLC. • Design, assemble and test basic PLC based control circuit. • Circuit writing and Simulation exercises on FluidSIM Hydraulic and Pneumatic.	Physical @ACoE Sonipat
8.	To be planned	Carbon neutrality	Sustainability and carbon neutrality	• What is carbon neutrality. • Effects of carbon offsets • Knowledge of the various energy options we have • What is carbon neutrality and its future.	Physical @ACoE Sonipat

SUMMARY OF ACTIVITIES DONE

→ One of the components of the programme is to cover 225 companies through counselling training, and as of now 275 companies have joined the programme. Therefore, the target in terms of numbers of companies to be covered through counselling programme has exceeded the target. All 275 companies have successfully completed the programme.

→ Another component of the programme seeks to promote skill development through e-learning training programme in 50 companies.

→ The ILT version of e-learning module on MFCA is complete. The Self learning version is underway. Also, the ILT version of the e-learning module on RECP will start soon.

→ As of now 57 companies (exceeding the target of 50) have successfully completed the e-learning programme through Instructor Led Training (ILT) in 10 batches.

→ 46 additional organizations have joined the e-learning programme through Self-learning mode.

INDUSTRY 4.0

→ Conducting Physical Assessment and Roadmap building on Industry 4.0. –
- Physical assessment on Industry 4.0 was conducted on 11th Aug at M/s. Mahalakshmi Metals,
- Kolhapur.
- Physical assessment on Industry 4.0 was conducted on 14th Aug at M/s. Mascot Plastics, Vadodara
- Physical assessment on Industry 4.0 was conducted on 18th Aug at M/s. Shreeunnat Metallics , Jamshedpur
- Physical assessment on Industry 4.0 was conducted on 23rd Aug at Modern General Industry, Chennai
- Ludhiana 4 companies' assessment is scheduled between 4-7 sept 2023

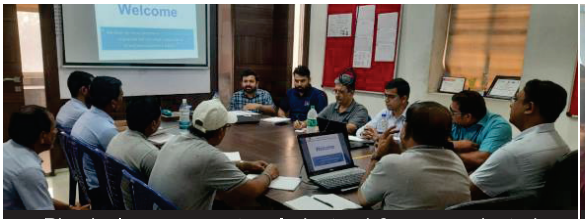
→ All assessments are conducted by C4i4 team along with UDAY PRIDE Counsellors. Recommendations were submitted to respective companies

WAY FORWARD

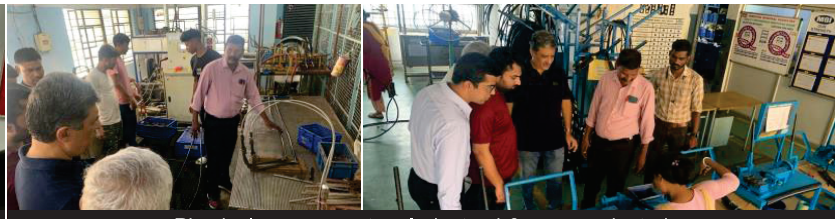
→ Conducting Physical Assessment and Roadmap building on Industry 4.0. – For Ludhiana Companies
→ Development of RECP &MFCA content for e-learning portal.



Physical assessment on Industry 4.0 was conducted on 18th Aug at M/s. Shreeunnat Metallics , Jamshedpur



Physical assessment on Industry 4.0 was conducted on 11th Aug at M/s. Mahalakshmi Metals, Kolhapur



Physical assessment on Industry 4.0 was conducted on 23rd Aug at Modern General Industry, Chennai



ACYM ANCHEMCO ANEVOLVE ANSYSCO CYMyutec DANA FORVIA faurecia GABRIEL Haldex

Henkel HL Mando inalfa roof systems iPOWER JOYSON SAFETY SYSTEMS MAHLE SUJÁN Valeo SNS Foundation

www.anandgroupindia.com

Glimpses of ACMA Program Launches



Launch of ACMA Turmaround Project (WOW) in Stumpp Schule, Chennai on 14th March, 2023



Launch of ACMA Advance Cluster- 16 at Uniparts, Noida on 10th April, 2023



Launch of ACMA Engineering Excellence Cluster - 5 at Ramkrishna Forgings, Jamshedpur on 27th April,2023



Launch of ACMA Social and Governance Program at Abilities India Pistons, Ghaziabad on 08th May, 2023



Launch of ACMA Leveled Production Program at Cummins India Ltd., Pune on 2nd August, 2023



ch of ACMA Zero Defect Quality 2 Program at Anand India Pvt. Ltd., Pune on 7th August, 2023



Launch of ACMA ACMA Advance Lean Program at New Swan Enterprises, Ludhiana on 24th August 2023



Launch of ACMA Maintenance & Engineering Program at Wheels India Ltd, Rampur on 15th May, 2023



Launch of ACMA Zero Defect Quality Program at MT Autocraft, Baddi on 22th May, 2023



Launch of ACMA TVSM Operational Excellence Program at Endurance Technologies, Aurangabad on 24th May, 2023



Launch of ACMA Zero Defect Quality Program at Sanesra Engineering, Bangalore on 30th June, 2023



Launch of ACMA Advance Cluster- 16 at KSPG Automotive India, Supa on 07th July, 2023



ACMA Standard Cluster Programs

ZDQ (Zero Defect Quality) Cluster Program (18 Months)

The main objective of this cluster program is to strengthen the quality in the organization and control the defects at the source itself and make a defect free product line. This program also integrates deskilling at the shop floor to make the process, independent of skilled manpower.

Key Highlights

- Keep House In Order
- Introduction to ZDQ
- ZDQ Tools
- Deskilling
- Deliver Zero Defect Quality
- Holding Gains

Engineering Excellence Cluster Program (24 Months)

An advanced level program aiming to create engineering excellence at the shop floor. This cluster primarily focuses on Engineering aspects of manufacturing set-up to make it overall Lean through design and application of Lean machines, resulting in achieving a greener supply chain.

Key Highlights

- Lean Hydraulic Power packs
- Lean Electrical Panels
- Making the shop-floor environment friendly
- Chip Free Machines, Tooling – Tools &Fixtures, Parts handling
- Lean & leakage free assembly work stations, Material Handling, Logistics

Advance Cluster Program (24 Months)

For companies at an advanced level of operational performance & work practices. Advance Cluster proposes to re-look into the established work practices and introduce all the lean manufacturing.

This results in single piece flow, quality improvement and in-house capability enhancement and resource optimization

Key Highlights

- Advance 5S X 6M Concept,
- Integrated QA and QC
- Introduction of LCA
- Integrated Material Handling
- De-Skilling
- Integrated Flow Manufacturing

For more details please contact:
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Table- 1

Awards Categories, Criteria, Norms & Awards Application Fee

Sr. No.	Group Company Sales Turnover	*Categories w.r.t. Group Company Sales Turnover*			
		Small	**Medium**	**Large**	**Very Large**
	(April 2022 to March 2023)	**Up to INR 50 Cr**	**> INR 50 Cr to 250 Cr**	**> INR 250 Cr to 750 Cr**	**> INR 750 Cr**
		(A1) Companies - Corporate Level Awards			
	Application Total Marks	Not Applicable	500	500	500
A1.1	***Award Application Fee*** (18% GST Extra)	Not Applicable	INR 1,25,000/-	INR 1,65,000/-	INR 2,20,000/-
1	Excellence in Exports	Not Applicable	Applicable	Applicable	
2	Excellence in New Product Design & Development (NPDD) & Localization	Not Applicable	Applicable	Applicable	
Note: Under Section A1 above, regarding Corporate Level Awards:		Fees mentioned above are applicable for the corporates applying for Exports and NPDD & Localization Category. Corporates may like to apply for one or for both categories by paying separate awards application fee as mentioned under A1.1 "Award Application Fee".			

		(A2) Plant Level Awards			
		Categories w.r.t. Group Company Sales Turnover			
Sr. No	**Group Company Sales Turnover**	**Small**	**Medium**	**Large**	**Very Large**
	(April 2022 to March 2023)	**Up to INR 50 Cr**	**> INR 50 Cr to 250 Cr**	**> INR 250 Cr to 750 Cr**	**> INR 750 Cr**
	Application Total Marks	500	500	500	500
A2.1	***Award Application Fee*** (18% GST extra) One fees for one or all applicable plant level award categories	INR 10,000/-	INR 35,000/-	INR 50,000/-	INR 75,000/-
1	Excellence in Exports	Applicable	Applicable	Applicable in case not applied under Corporate Level Awards	Applicable in case not applied under Corporate Level Awards
2	Excellence in New Product Design & Development (NPDD) & Localization	Applicable	Applicable	Applicable in case not applied under Corporate Level Awards	Applicable in case not applied under Corporate Level Awards
3	Excellence in Sustainable Business	Applicable	Applicable	Applicable	Applicable
4	Excellence in Manufacturing	Applicable	Applicable	Applicable	Applicable
5	Excellence in Digitalization	Applicable	Applicable	Applicable	Applicable
6	Excellence in Safety	Applicable	Applicable	Applicable	Applicable
7	Excellence in Tier 2 Supplier Development	Not Applicable	Applicable	Applicable	Applicable
Note: Under Section A2 above, For Plant Level awards		Companies applying under Plant Level Category may apply to all or any number of categories (as mentioned in A2, above) by paying prescribed application fee mentioned in A2.1, i.e for all 7 categories applications, only one fees to be paid			

Special Encouragement (Award application fee is waived* off for Plant level awards if the plants meet any or all the following criteria(s)

Plants who have employed 15 % or more female employees on the shop floor. The 15% of women's Employment is to be calculated considering the complete and overall strength of the Plant Plants who have employed 10 % or more differently-abled employees across the Group. The 10% of differently-abled employees across the plant are to be calculated considering the complete and overall strength of the plant.

Note: * Waiver of fees as mentioned above is applicable for plant level awards only and not applicable for the corporate level awards 2023.

Timeline of Award Process

Release of awards notification /circular & Digital ACMA Awards Systems (DAAS) live date	ACMA Awards Awareness Virtual Sessions for companies (Complimentary session)	Online application submission Last date	Virtual Site Assessment for applicant Companies at Corporates/ plant Level	Submission of reports to ACMA Awards Jury Panel	Evaluation of final shortlisted application by OEM (Jury Panel)	Announcement of Award winners (During ACMA Tech Summit)
21st July 2023	24th July 2023 & 8th Aug 2023	20th Oct 2023	10th Aug 2023 22nd Oct 2023	Dec 2023	Jan 2024	Feb / Mar 2024

Benefits of ACMA Excellence Awards

1. Opportunity to explore the potential of the organizations
- While filling application organization reveals the strengths and opportunities for Improvements.
- During the assessment, ACMA's seasoned and learned assessors give brief feedback to the plant which highlights current & Existing industry-based practices in vogue.
- On completion of a detailed assessment of plant/company, ACMA provides a detailed report wherein point-by-point observations are documented and plant/company may refer to same for improvement purposes.
- Meet industry experts and gain contacts - While we do not like to admit it, the ACMA's awards ceremony is not only about the prizes and the accolades, the day we spend at award ceremony which is away from shopfloors and computers that is spent communicating with players in the industry and potential customers can be more vital than you think.

2. Getting visibility and exposure to customers
- Award finalization is done by eminent (OEM) Original Equipment Manufacturers, and leaders as our esteemed Jury Panel.
- Networking opportunity During Grand Award Ceremony, moment to get connected with OEMs and other component manufacturing companies at Domestic / Global level.
- Detailed information about Award winners is published in a special edition of the ACMA periodical circulated pan India and Globally "IMPACT"and in ACoE Newsletter." Media also covers this. IMPACT is distributed to component manufacturers as well as OEMs. It is also showcased in a prominent location on the ACMA website https://www.acma.in/impact.php

3. Benefits to the applicant organization/ companies
- Recognition of excellent performance in the industry
- Motivation to organizations and employees who are striving for the excellence
- Clear understanding of improvements needed to elaborate performance to the next level
- Motivates organization to aspire for winning awards in various areas.
- Why ACMA EXCELLENCE Awards
- ACMA is a neutral body conducting this Award process since 1966
- Entire award process is independent and shortlisting and finalization of winners is done by OEM leaders as a Jury.
- The Award is one of its kind and follows a transparent & complete digital process which makes the application process easy, robust, and user-friendly.

In case of any queries, ACMA Awards Team may be contacted

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Mr. Jagadeesh
Managing Director,
GI Auto Pvt. Ltd.

ACMA has helped GI Auto in Many Ways. We are able to get better result in waste Elimination, delivery performance etc. Thanks to TVS motor company for initiating this as a part of supplier excellence program



Mr. Deepak Narasipur
Managing Director,
Narasipur Auto Components Pvt. Ltd

ACMA Programs enables us to meet customer specific requirements, ultimately enhancing customer satisfaction.



Mr. Anoop Mutha
Managing Director
Mutha Group of Foundries

Engineering Excellence Cluster helped us in

- Finding out-of- box ideas & implementing them.
- Big Targets are reality - this was experienced in the EEC journey.
- Converted team members to team leaders.
- Team working improved.
- Confidence building throughout the team.
- Improvement is a continuous journey learning again reinstated in the team.
- All this was possible due to excellent support from ACMA team and cluster companies.



Mr. Anil Machani
Director / Senior VP – Operations
Stumpp, Schuele &
Somappa Springs

Our association with ACMA is traced back to decades.
As mentioned above, the programmes with ACMA like, Foundation cluster, Advanced Cluster has
helped us to create a niche in the Business World.
In particular this, ZDQ programme has helped us to further shapen ourselves and thereby instilling a Footprint in the minds of our Customers
The unique techniques used in this programme is simple, yet very effective.
We thank ACMA for this wonderful programme and expect many more to come



Mr. Sunil Arora
Managing Director
Abilities India Pistons & Rings Ltd.

We have experienced an extremely rewarding journey with ACMA – SMP Cluster.
Sustainability is now the core focus in all our present activities as well as new / expansion programs.
Some of the major highlights of our company's achievements thus far are-

- 16.3 % reduction in carbon emissions
- Cost saving of INR 87.7 Lakhs
- Zero water discharge activity under progress
- Renewable energy installation of 450 Kw under progress (127 kWh 15.9% at present),

Our goal is to make Continuous Improvement & constant advances in our company's sustainability performance.



Mr. Mukul Verma
EVP (Works), JK Paper Ltd,
CPM Plant - Songadh

I would like to take a moment to recognize the exceptional work that has been done by the entire team of people in Paper Finishing & Sales area for Successful implementation of Advanced Lean Cluster Program. Team attention to detail and commitment to safety have also played a significant role in ensuring that our plant remains a safe and healthy environment for all of us. I would like to commend everyone who has contributed to the successful implementation of Kaizen / QCC circle / Star Diagram/ VSM Concepts & improvements projects in the plant.



Mr. G. A. Kshirsagar
Director Operation,
Trinity India Forgetech Pvt. Ltd

Our team has done exceptionally well on this new project, our management style is commendable and has helped us to meet our ACMA targets on time. I understand that striking a good balance with new projects like ACMA takes time and effort, but we ready to face every challenge & bring a new Change.

ACMA

Special Program for TPM Practices Implementation

ACMA understands the challenges you face and is committed to empowering your organization with a strategic approach that can transform the way you operate. Total Productive Maintenance (TPM) is more than a methodology; it's a philosophy that empowers organizations to achieve the highest level of operational efficiency by involving all employees in the continuous improvement of equipment, processes, and systems. By systematically eliminating losses and downtime, TPM drives productivity, quality enhancement, and overall profitability.



Topics Include :

- Employee Involvement and Routine Management
- Autonomous Maintenance
- Planned Maintenance
- Kobetsu Kaizen (Focused Improvement)
- Quality Maintenance
- Re - Training

Program Duration: 18 Months (Split into two parts of Nine months each)

ACMA Special Program for TPM Implementation offers several valuable benefits for individuals and organizations in the automotive and manufacturing industries.
This program focuses on equipping participants with essential tools and methodologies to enhance operational efficiency, quality, and competitiveness.

JOIN NOW

For details please contact
Mr. Sunil Mutha on sunil.mutha@acma.in
Mr. Jayant Thipse on jayant.thipse@acma.in

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*Data updated as on 1st August, 2023



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