

**ACMA**

Automotive Component Manufacturers Association of India

# WINNING WITH

QUALITY & INNOVATION



**ANNUAL REPORT**  
**2015/16**



# WINNING WITH

QUALITY & INNOVATION

**ANNUAL REPORT  
2015/16**



**ACMA**

Automotive Component Manufacturers  
Association of India

# CONTENTS

05 \ President's  
Message

12 \ The Auto Component Industry  
Imperative

14 \ Global Developments in the  
Automotive Industry

16 \ Emergence of Engineering as a  
Value Proposition from India

18 \ Director General's  
Message

19 \ State of the Industry

20 \ About the Organisation

26 \ Office Bearers

27 \ What we do

36 \ Region & Committees:  
A Snapshot

39 \ Annual Activity  
Highlights

67 \ ACT

70 \ YBLF

72 \ ACMA Publications

73 \ People at ACMA

78 \ List of Members

28 \ Marquee Events

35 \ ACMA in Press





***ENVISSION***



The Indian Auto Component industry is at a point of inflection, quality and technology will be the key differentiator for industry competitiveness



## PRESIDENT'S MESSAGE

During FY2016, the collective vision for the next decade of automotive industry in India has been delineated in the Automotive Mission Plan 2016-26 (AMP2026), which sets a turnover target of USD200 billion for the auto-component industry, with exports ranging between USD 70-80 billion. Clearly, to achieve these targets, much of the next ten years of the industry will be about penetrating and integrating into global supply chains.

To reach such a scale, significant investments of around USD 25-30 billion would be required along with upgrading the skills and competencies of the existing talent pool and the capabilities of tier 2s and tier 3s. Attracting such large scale investment would also require the Government of India to make India a more attractive manufacturing destination and the industry to improve its profitability.

The global automobile landscape is currently undergoing a rapid change with the integration of digital and intelligent technologies in vehicles, much higher consideration for environment protection, reduction of fossil fuels, enhancement of safety features and changing user preferences. Added to this is the fast emerging concept of digitization of the manufacturing sector. Changes such as these and others are sure to have a far-reaching impact on the entire automotive supply chain.

As individual players across the industry segments, we have to acquire scale and create intellectual property to become co-development partners with our customers. To do so, industry players should be on constant lookout for opportunities that will enable them to build scale and acquire technology wherever possible. It is not always possible to do this organically and a mindset of constantly being on the lookout for such opportunities to accelerate development will go a long way in helping the industry achieve its goals. Already a few domestic players have done so successfully and are now well established global suppliers.

To collectively work towards transforming the industry with a strong focus on technology and to prepare ourselves for the next phase of growth, we at ACMA adopted the theme 'Make Quality & Technology in India' for the year. This included efforts aimed at promoting new product development, spreading quality culture and

### Dear Friends,

At the outset, I thank the ACMA membership for reposing faith in me and supporting me through the year. The Indian auto-component industry is going through an interesting yet challenging phase. While the Indian auto-component industry has progressed well in the decade gone by, the next phase of growth requires another set of competencies to become natural 'partners of choice' for our customers. We are conscious of the need to transform ourselves, which warrants progressing from manufacturing excellence to creating a competitive edge through R&D and innovation for offering distinct value proposition to rapidly globalising supply chains. While doing so we must also recognise that 'zero defect' is now the requirement for anything that we do.

You would recall that in in Financial Year (FY) 2006, the Government of India, automobile manufacturers and the auto-component industry had laid down their collective vision as the 'Automotive Mission Plan (AMP) - 2016'. During this plan period, we faced several daunting upheavals including the global economic meltdown in 2008 and the slowdown in the Indian economy. However, it gives me immense pleasure to report that even amidst these adversities, the Indian auto-component industry managed to surpass its target of Rs.2,07,000 crore in FY2016 by recording an overall turnover of Rs.2,55,636 crore in Fy2016.

improving the capabilities of suppliers to support the changing needs of OEMs, strengthening of Tier-2 and Tier-3 suppliers, facilitating development of emission and safety standards, and popularising digital technology in manufacturing.

In line with ACMA's theme, our showcase event the Auto Expo 2016 - Components show had a dedicated 'Innovations Pavilion' with many world-class products on display, designed and developed in India and being supplied to customers in India and internationally.

## Industry Performance

While internationally the auto industry remained under some stress, the Indian auto industry showed signals of a steady recovery.

According to data released by the Society of Indian Automobile Manufacturers (SIAM), total passenger vehicle production, which include cars, utility vehicles and vans, increased by 5.97% to 3,413,859 units. Passenger car production expanded by 4.02% to 2,519,444 units in FY2016, while production of utility vehicles rose by 13.66% to 711,830 units, and the off-take of vans grew by 5.56% to 182,585 units. There was growth of 12.10% in the overall commercial vehicles segment production - from 698,298 units in FY2015 to 782,814 units in FY2016. Production in the two-wheelers segment, which includes scooters, motorcycles and mopeds grew by 1.84% to 18,829,786 units in FY2016 from 18,489,311 units sold in FY2015.

While the numbers suggest that the worst is behind us, some of the challenges such as uncertainty relating to diesel vehicles in NCR (national capital region), infrastructure cess and distress in rural economy continued to impact the growth adversely.

In this milieu, despite the challenges, the auto component industry registered a satisfactory growth of 8.8%, scaling USD 39 billion, in FY2016. Further, while overall manufacturing exports from India witnessed de-growth of 9.58%, the Indian auto component industry exports grew by 3.5% to USD 10.8 billion. With signs of recovery in the auto market in the country and prospects of a better monsoon, the component sector is cautiously optimistic about FY 2017.

During this year, ACMA continued to play a critical role in supporting its members in discovering and harnessing new market opportunities internationally and engaging with the Government to create a conducive business environment to operate in.

Broadly, our efforts were focused around four major domains - public policy advocacy, brand building and business development, enhancing internal efficiencies and knowledge initiatives.

## Public Policy Advocacy

Our continued engagement with the Union Government as well as State Governments across ministries, departments and agencies has led to several positive developments. The Government's initiative of setting up 1500 multi skill training institutes in partnership with the industry and academia, amendments in the Motor Vehicle Rules, amendment in the CENVAT Credit Rules, 2004, which will enable manufacturers with multiple manufacturing units to maintain a common warehouse for inputs and distribute these inputs with credits to the individual manufacturing units, also the hike in interest rate to 9% from earlier 6% in case in delay of refund by the authorities are examples of such outcomes. Also, the proposal made in the Rail budget to establish India's first rail auto hub is a welcome move since it will significantly bring down the logistic cost and facilitate the last mile connectivity for shipments.

While proactive support from the Government has indeed been very helpful in furthering the industry's agenda, however, certain policy enablers are urgently needed to facilitate deepening of the automotive value chain in the country. We need to formulate policies that will encourage localisation and local development of new technology components that are required for future vehicles including components for Hybrids and EVs. Focus on development of a robust electronics-manufacturing base is also the need of the hour as infotainment, safety and other control mechanisms are gaining presence in vehicles. Foreign Trade Agreements that are not beneficial to the country need to be revisited while the new ones need critical examination to ensure that they provide Indian companies with a 'level playing field'; countries such as China have actively followed policies that have helped develop the local industry while opening up their domestic market for global companies. It should also be ensured that the FTAs do not result in an inverted duty structure, which is detrimental to manufacturing.

Considering technology will determine the winners of the future, Indian companies, especially SMEs need to be encouraged for development of Indian 'know-how' in technologies of the future. To encourage R&D and new product development, a technology Upgradation and development fund must be put in place, as also the Income tax benefit on R&D investments needs to be reinstated. To make the necessary investments and build the capabilities required, scale is extremely important. Consolidation in the domestic auto component industry would enable such scale and the RBI should revisit its guidelines to help finance such consolidation.

During the year ACMA also undertook regular interface with the Department of Heavy Industry, Ministry of Commerce & Industries, the Ministry of Finance and the Ministry of Micro, Small and Medium enterprises on various matters related to AMP 2016-26, Union Budget, Foreign Trade Policy, Export related schemes and others. We hope for an early implementation of GST, a much-sought reform that will end the multiplicity of local taxes in India; the industry will need to work closely with the Government for its smooth implementation.



## Brand Building and Business Development

We continued with our efforts to reach out, explore new markets and position India as a preferred base for manufacturing and sourcing of auto-components. We facilitated participation of our members in several international trade shows and exhibitions, organised buyers-sellers meets, organised CEOs' mission to automotive countries to establish strong networks with our global counterparts and enhance our members' understanding of newer markets. In fact, ACMA's recognition as Export Promotion Council by the Ministry of Commerce & Industries has helped us extend government's market development assistance to our members for export promotion initiatives.

Our key international trade promotion activities included ACMA's participation at the 66th IAA Passenger Cars show in Messe Frankfurt, Germany, first-ever India Autoparts Business Matchmaking Show in Japan, Automechanika Dubai, Automechanika Shanghai, Automechanika Jeddah, Automechanika Istanbul and AAPEX Show Las Vegas; buyers-sellers meets in Cairo, Dhaka, Yangon and Almaty, ACMA CEOs' Mission to Taiwan and South Korea, to name a few. The ACMA mission to South Korea was replete with learnings on the functioning of the automotive industry and shop floor best practices followed by the South Korean industry.

In June 2016, ACMA also signed a Memorandum of Understanding (MoU) with Korea Trade Centre (KOTRA) adding to the list of over 30 existing MoUs with our counterpart associations across the globe. Korea Trade Centre plays a crucial role in developing and supporting bilateral trade between Korea and India.

On the domestic front, the 13th Auto-Expo-Components Show was the major marquee event in 2015-16. Highlighting our theme 'Make quality and technology in India', the components show, for the first time, was spread across the entire Pragati Maidan in New Delhi, covering 18 halls, housing 1,500 companies including 600 international exhibitors.

## Enhancing Internal Efficiencies

While ACMA has been actively promoting technology, quality, productivity and best business practices amongst members to make the industry globally competitive, the efforts on this front was redoubled with focus on new product development and creating own intellectual property. ACMA has strongly recommended to the Government that a dedicated fund to boost R&D in the component sector be created.

R&D and creation of IP are very fundamental for any industry that aspires to be global. This also requires conscious support of the vehicle manufacturers to encourage technology developed within the country, government incentives for companies that engage in R&D as well as close industry - academia collaboration. We are hopeful of positive developments in all these fronts in the coming years.

The ACMA Centre of Technology (ACT), which completed 25 years, has been promoting best practices amongst component manufacturers and over the years has made interventions in around 600 organisations through its cluster programmes. The ACMA-UNIDO project supported by the Department of Heavy Industry has also helped over 100 small-scale companies to upgrade their processes. During the year, ACT successfully completed 12 cluster programmes with participation from 61 companies. It is also running a successful cluster program on 'new product development' where several companies are engaged to learn how they could embark on a journey of creating new products and IP. The Zero-Defect-Zero-Effect cluster program is another innovative offering from ACT, which, as the name suggests, will equip companies to produce defect-free components with no adverse impact to the environment.

The need for quality is well recognised by the industry. Quality consciousness across ACMA is evident from the fact that today 688 ACMA members have their business systems certified for ISO9000 while 574 are certified under TS16949, 14 members have secured the prestigious Deming Prize and 5 have Japan Quality medals.

## Knowledge Initiatives

ACMA continues to engage with renowned global knowledge partners to study specific aspects of automotive value chain. The study on Auto Electronics brings to fore the key growth opportunities and helps identify the segments of the auto-electronics value chain where component manufacturers can enter while the ongoing ACMA Study on FTAs provides factual evidence on trade deficit and challenges in exporting to countries with which India has signed trade agreements. It also focuses on the plausible trade impact of the forthcoming Trade Agreements under negotiations. Based on the findings of the study ACMA is seeking government intervention to secure the interest of the Indian component industry in global trade. Further, ACMA's Global Automotive Aftermarket Study has emerged as a well-researched document, which encompasses analysis of potential twenty countries in Africa, South America and CIS countries. It highlights addressable opportunities for identified components in these emerging markets. A deep dive analysis of six countries - Nigeria, Kenya and Algeria in Africa and Columbia, Panama and Mexico in South America provides in-depth perspective of the aftermarket in these emerging markets.

## Conclusion

In the coming decade, driven by needs of safety, fuel efficiency, sustainability and end customer preferences, the Indian automotive industry will undergo a significant transformation. The New Motor Vehicles Safety Bill and legislations on Vehicle Recall and Vehicle Scrappage and focus on electric mobility and alternative fuels will also impact the industry dynamics.

The component industry, over the years has adapted well

to the changing environment and customer needs. In its next phase of development, the industry will have to focus on creating its own IP, distinct value addition and building efficiencies for global scales of operations through significant export growth and domestic consolidation. Essentially, the industry needs to graduate from being a 'build to print' to one that is 'art to part'; support from the Government and OEMs would be critical in this regard.

## Acknowledgements

I sincerely acknowledge the support of the Government at the Centre and States, who have been extremely receptive to ACMA's suggestions and inputs. I am grateful to the Ministry of Heavy Industry and Public Enterprises, our nodal ministry, and the Ministry of Road Transport and Highways for their unstinted support and guidance through the year.

I would also like to place on record my appreciation for the support extended to us by CII, SIAM, IMTMA and other industry bodies.

Finally, as I conclude my term as President, I would like to

thank all our members for their unstinted support. I would, particularly, like to thank the Vice President, the Regional, Committee and Zonal Chairpersons, the Past Presidents and our Executive Committee members for their guidance and involvement. I also appreciate and applaud the efforts of the ACMA Secretariat.

I am confident that we will emerge as the preferred global auto component-sourcing hub in not too distant a future by our unwavering focus and commitment to technology and quality.

**Best Wishes**  
**Arvind Balaji**





*aspire*

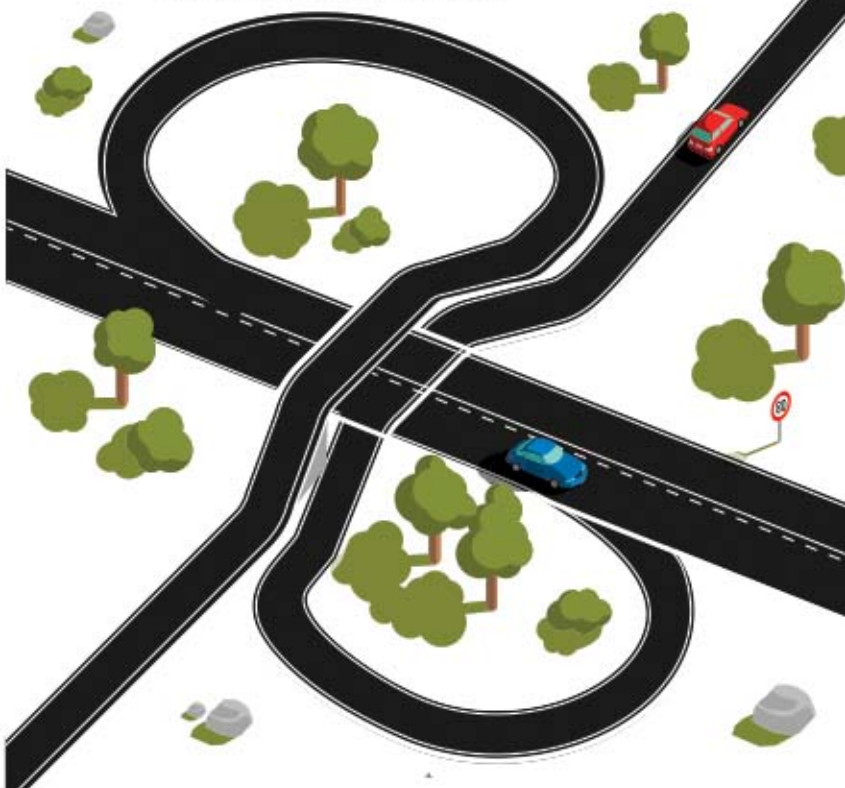
The Indian Auto Component Industry is driven by the ambition to attain global leadership by focussing on technology and innovation



# THE AUTO-COMPONENT INDUSTRY IMPERATIVE:

## Automotive Mission Plan (Phase 1 - 2006-2016)

The Automotive Mission Plan (AMP) 2006-16 maps the aspirations of the automotive industry, to promote India as a preferred global manufacturing and sourcing destination. The first phase of the plan focussed on five aspects: Economic growth, passenger comfort, sustainability, quality, and cost competitiveness.



For the Auto-Component Industry, AMP revenue target for 2016 was Rs. 1,84,000 crore - Rs. 2,07,000 crore. The industry surpassed its target by registering a turnover of Rs.2,55,635 crore in 2015-16.

Table 1: Sectoral Growth

in millions	Target	Achievement
Passenger Vehicles	27.75	27.91
Commercial Vehicles	6.7	7.1
Three Wheelers	7.2	7.8
Two wheelers	192	142

Gives the sectoral growth achievements. The target of AMP 2006-16 were largely achieved, barring two wheelers.

## Automotive Mission Plan (Phase II - 2016 to 2026)

AMP 2026 is the collective vision of the government of India and the automotive industry that sets the targets for the automobile industry and auto component industry for the next decade i.e. 2026.

By 2026, the Indian automotive industry will be among the top three of the world in engineering, manufacturing and exports of vehicles and auto components, and will encompass safe, efficient and environment friendly technologies for affordable mobility of people and transportation of goods in India comparable with global standards, growing in value to over 10% of India's GDP, and generating an additional 65 million jobs. With major growth in exports the Indian Auto-Component Industry is projected to grow to Rs.12,11,500 crore (USD 200 billion) in 2026.

The Indian Auto Component Industry is on a journey of transformation from being 'build to print' to technology driven solution provider with quality as the bedrock



*transform*

# GLOBAL DEVELOPMENTS IN THE AUTOMOTIVE INDUSTRY

In 2015 the automotive industry witnessed mixed performance, on one hand record sales in the U.S. gave the sector a much-needed boost, while on the other growing economic malaise in much of the rest of the world, particularly in emerging markets, led to a flat year.

Meanwhile, in design rooms and on factory floors, auto and IT/electronic companies are dabbling with new technologies and vehicle concepts that have the potential to disrupt the automotive as well as the entire transportation sector. Technologies such as diverse mobility, autonomous driving, electrification, and connectivity, call for a completely different set of industrial skills and competencies to succeed in a digital world.

The intelligent car is fast moving from the drawing board to the streets. As an obvious precursor to the autonomous vehicle, the intelligent car can give drivers a first taste of the experience of relinquishing control of a vehicle, with such functions as self-braking, self-parking, automatic cruise control based on road conditions, automatic accident-avoidance features, computer-operated power steering, and electric parking brakes, as well as electronic throttles and engine control.

The idea of fully autonomous vehicles is futuristic for much of the driving public to embrace right now. But for automakers, the path from current models to driverless cars is going to be an exciting period of transformation. Original equipment manufacturers (OEMs) must navigate the challenges of designing, manufacturing, and upgrading



traditional powertrain models while staking a claim in emerging technologies and improved customer experiences.

For an auto equipment supplier, the future is a test of strategic acumen – the ability to place one’s company at the forefront of product trends without running afoul of ever more stringent environmental rules. Indian Auto-component players have to integrate into these global engineering development programmes and increase their R&D spends, stress on engineering and product development to participate in the next round of growth. The type of technologies (illustrative) that need to be adopted to over different periods are:

<b>GLOBAL DEVELOPMENTS IN THE AUTOMOTIVE INDUSTRY</b> (Technologies readily available and could be implemented in 1-3 yrs)	<b>MEDIUM TERM TECHNOLOGIES</b> (Technologies available and could be implemented in 3-5 yrs)	<b>LONG TERM TECHNOLOGIES</b> (Technologies under development)
<ul style="list-style-type: none"> <li>Reverse Parking Guide (RPG)</li> <li>In Car Entertainment (ICE) System</li> <li>Anti Lock Braking System (ABS)</li> <li>Driver Information System (DIS)</li> <li>Body Control Module (BCM)</li> <li>Immobilizers</li> </ul> 	<ul style="list-style-type: none"> <li>Telematics</li> <li>Tyre Pressure Monitoring System (TPMS)</li> <li>Airbag Electronics</li> <li>LED based Headlamps</li> <li>Fully Automatic Temperature Control (FATC)</li> <li>Electric Power Steering (EPS)</li> </ul> 	<ul style="list-style-type: none"> <li>Intelligent Transportation System (ITS)</li> <li>Automatic Transmission (AMT, DCT, CVT)</li> <li>Electric and Hybrid Vehicles (EV/HEV)</li> <li>Remote Vehicle Diagnostic System (RVD)</li> <li>Electronic Stability Program (ESP)</li> <li>Advance Driver Assistance Systems (ADAS)</li> <li>Power Management</li> </ul>

Source: PWC, Kpmg, Ernst and Young



The Indian Auto Component Industry has to continually innovate to meet the changing needs of its customers



*innovate*



# THE EMERGENCE OF ENGINEERING AS A VALUE PROPOSITION FROM INDIA

Globally, Japanese and European corporations account for 76 percent of R&D spend in the automotive vertical, with North America contributing 20 percent to this.

The automobile landscape is currently undergoing a rapid change with BS-VI emission norms likely to be implemented across the country by April 2020 and corporate average fuel economy (CAFE) norms by 2017. In addition, efforts have been initiated to set higher safety system norms including provisioning for frontal and side crash tests for new vehicles from October 2017 and for existing vehicles by October 2019. These regulatory changes coupled with the increase of auto electronics in vehicles, will have a far-reaching impact on the entire automotive supply chain. Further to promote electric mobility, the Government has launched FAME India - Faster Adoption and Manufacturing of Hybrid and Electric vehicles, scheme as part of the National Electric Mobility Mission Plan. To keep pace, the Indian auto component manufacturers will be required to develop capabilities for in-house design, harness frugal engineering and create product differentiation through innovation. A move towards product and process innovation along with zero

defect quality will be an integral part of this change. It will require industry to focus on Quality and Innovation more than ever before. To graduate from being a 'build to print' to one that is 'art to part'

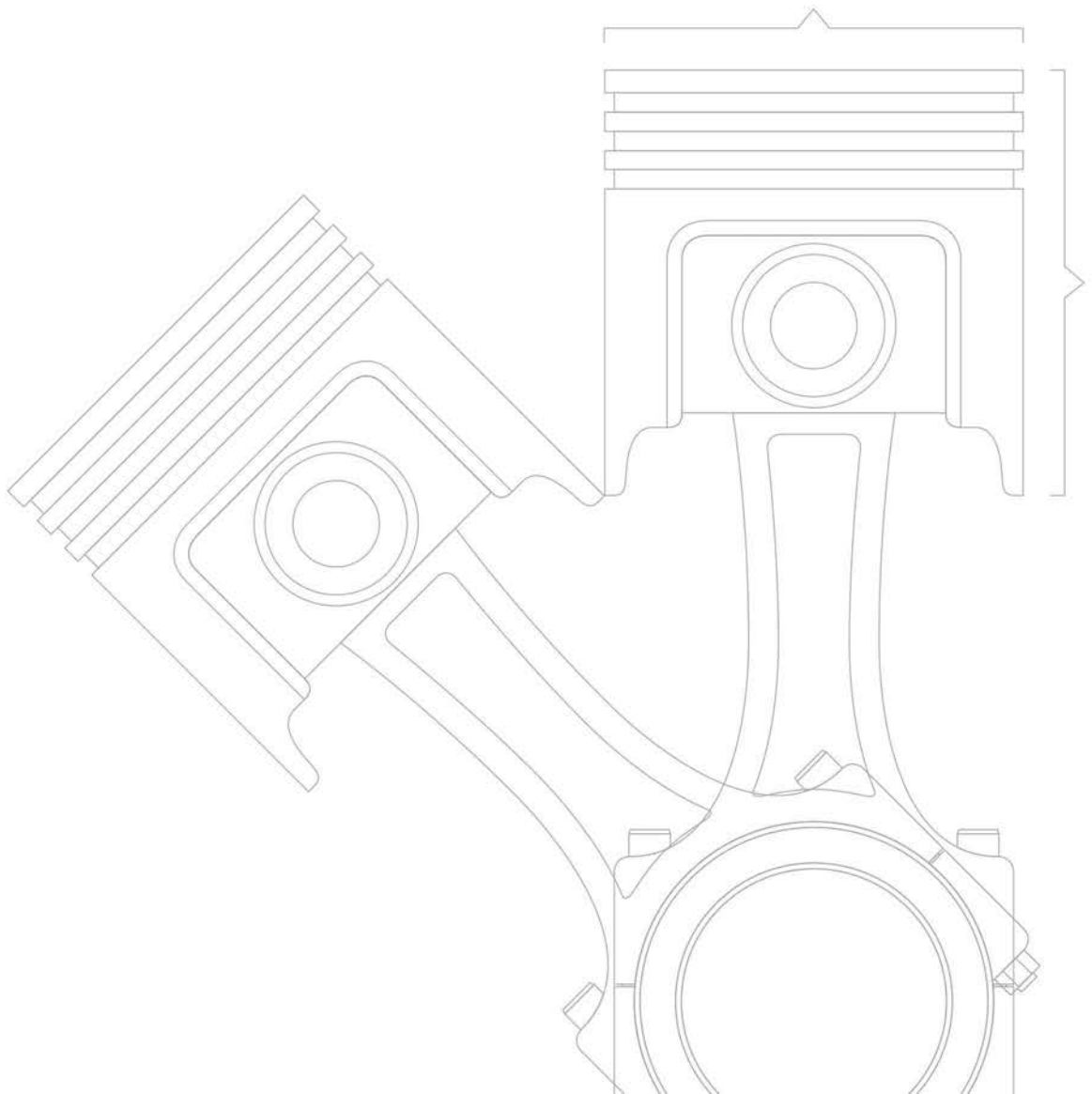
Some examples of automotive engineering/development Centres in India:

Automotive  
Players with R&D  
centres in India

BMW, Bajaj, GM, Honda, Hero Moto Corp, Hyundai, Maruti Suzuki, Mercedes, Renault Nissan, Volvo, Mahindra & Mahindra, Tata Motors etc.

Auto-Component  
players with  
engineering  
centres in India

Bosch, Bharat Forge, Cummins, Eaton, Motherson Sumi, Jai Bharat Maruti, Sona, Koyo, Subros etc.





*integrate*

The Indian Auto Component Industry seeks to create value by integrating with global supply chains by providing frugal engineering solutions



## DIRECTOR GENERAL'S MESSAGE

developing and validating parts for local and global requirements. While the transformation process has begun with larger component suppliers setting up their engineering centres, much needs to be done for it to become a mass movement.

The Government of India with its focus on 'Make in India' continued to be supportive of the industry. The overall thrust on infrastructure development including roads and power, education, skilling, infrastructure development, ease of doing business and attracting investments provided the right environment for growth of the industry. However, this needs to be substantiated with policies that allow for higher localisation and development of local products.

We at ACMA have taken the onus of facilitating the transformation of the auto component industry through continued advocacy with the government for a conducive regulatory and policy framework, brand building and business development locally as well as globally, enhancing internal efficiencies and upgrading industrial competency through our offerings at the ACMA Centre for Technology and by engaging in initiatives to enrich the knowledge base of our membership on diverse pertinent issues.

The ACMA secretariat, continues to facilitate growth and development of the auto component sector, and as its executive head, I would personally like to thank all my colleagues for their tireless efforts towards delivering the industry's agenda. I express my deep gratitude to all the members and stakeholders of ACMA, including the government, for their unstinted support and guidance.

The vision for the next decade has been clearly laid out in the Automotive Mission Plan 2026. Together, we, all the stakeholders need to take the right steps to realise it, the journey for next phase of development has just begun.

Regards  
Vinnie Mehta

FY2016 was as much about grappling with challenges of today as it was about preparing for the future. The last few years have been quite difficult for the Indian auto component industry however, the worst seems to be behind us as the automotive industry is getting back on the growth track. The Auto Component Industry in FY2016 grew by 8.8% despite a less than expected performance in the Passenger Vehicles, Two-wheelers and Tractors segments. With imminent changes in the regulatory environment and the changing needs of the OEMs, the component industry is actively focussing on delivering enhanced quality and technology products.

In tune with the dynamics of the environment, auto component players in India will have to engineer frugal solutions, without any compromise on quality, that are affordable and accessible. Indian auto component players have to fast catch with new technology trends and develop their own innovative solutions in areas such as light weighting, electrification of powertrains, vehicle safety, fuel efficiency, environmental soundness and others. In our bid to be among the top five global suppliers in the next few years, the industry will have to transform with technology as a key differentiator.

In FY2016, ACMA adopted the theme of 'Make Quality and Technology in India', which was evident with the resplendent display at the Auto Expo. The ethos of Quality as a bedrock needs to spread wider and deeper into tier 2 and tier 3 companies. In addition, focus will be needed to develop an ecosystem that fosters creation of IP and patents in India, and moving from build-to-print to designing,

# STATE OF THE INDUSTRY

## AUTOMOBILE INDUSTRY



### GLOBAL

2015 was characterized as a good year in the mature passenger car market, though it was largely offset by a very poor year for many of the world's emerging markets. The net result was a sub-par 1.4% growth in global passenger sales - the slowest pace of growth since 2010. Europe registered a growth of 1.7%. Russia, Turkey and the other non-EU countries had a challenging year with sales falling by 31.3% in 2015 compared to 2014. The Americas witnessed lower sales by 6.5%, with sales in NAFTA countries including USA down by 0.8% while in Central and South America sales were down by 18.6%. Asia, Oceania and the Middle-East was the best performing region with a sales growth of 4.7% with China growing by 7.3% and India by 7.9%.

#### GLOBAL PASSENGER CAR SALES



\*Sourced from OICA

Global commercial vehicles sales increased by 3.8% in 2015. Europe registered a healthy 7.7% growth with EU28 and EFTA countries recording 12% growth while Russia, Turkey and other European countries registering 9% lower sales. The Americas witnessed 8.5% growth with NAFTA countries growing by 12.5% within which sales in USA increased by 12.8%. In contrast, Central and South America saw lower sales by 23.6%. In this segment, Asia, Oceania and the Middle East saw 3.3% lower sales, with China recording 9% lower sales. In Asia, India was one of the better performing markets in this segment with 7.6% growth.

#### GLOBAL COMMERCIAL VEHICLES SALES



\*Sourced from OICA

### INDIA

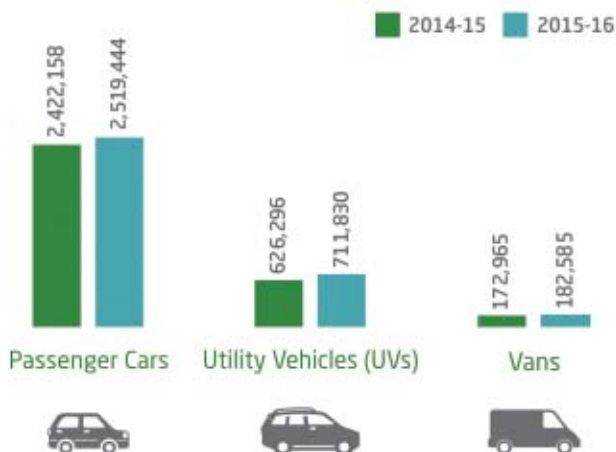
The Indian automotive industry displayed a lot of resilience under challenging conditions in 2015-16. To begin with, unseasonal rainfall during February and March 2015, deficient monsoon and flattish Minimum Support Price (MSP), rural demand remained weak over the last twelve months impacting volume off-take in rural dependent segments like tractor, motorcycles and LCVs. In addition, several regulatory issues mostly related to environment norms created uncertainties that adversely affected domestic demand. Exports, too, were affected due to slowdown in global demand, especially for small vehicles, which account for majority of India's exports. Interestingly, under these conditions, barring tractors and farm vehicles, all segments recorded positive growth.

The passenger vehicle segment grew by 5.97% to 34,13,859 units in 2015-16. The growth was driven largely by 13.66% growth in Utility Vehicles to 7,11,830 units in 2015-16, while Passenger Car production grew by 4.02% to 25,19,444 units in 2015-16, and production of vans increased by 5.56% to 1,82,585 units. The growth in the passenger vehicles segment came mainly from launch of new models in both compact SUV and the compact small car segments.

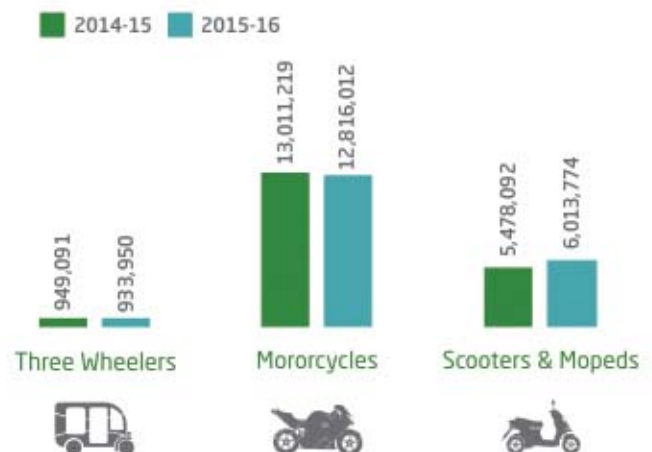
Commercial Vehicle production, which had witnessed major slowdown in the last few years seems to have bottomed out and there was a good recovery in 2015-16. Total commercial vehicles production increased by 12.1% to 7,82,814 units in 2015-16. Growth was driven mainly by the rapid growth in the medium and heavy vehicles (M&HCVs), which recorded 27.04% growth to 3,41,181 units in 2015-16. The growth was attributed to the tipper market that recovered due to speedier execution of National Highways as also resumption in mining activities. LCVs recorded 2.77% growth to 4,41,633 units in 2015-16. Trends in the two and three wheeler segment remained subdued. While motorcycle production recorded a de-growth of 1.5%, scooter production grew by 11.71% resulting in overall production of two wheelers growing by 1.84% to 188,29,786 units in 2015-16. However, three wheeler production was down by 1.59% to 9,33,950 units in 2015-16. The two-wheeler segment, in terms of vehicle units, is the largest in India and has seen rapid growth in the past. It is undergoing a structural correction and awaiting next phase of growth where there can be much greater penetration in rural markets.

After a decade of strong growth, the tractor industry continued to be on a downward spiral for the second successive year. An inadequate monsoon in 2014-15 also did not help its fortunes. Total production reduced by 6.89% to 5,70,791 units in 2015-16.

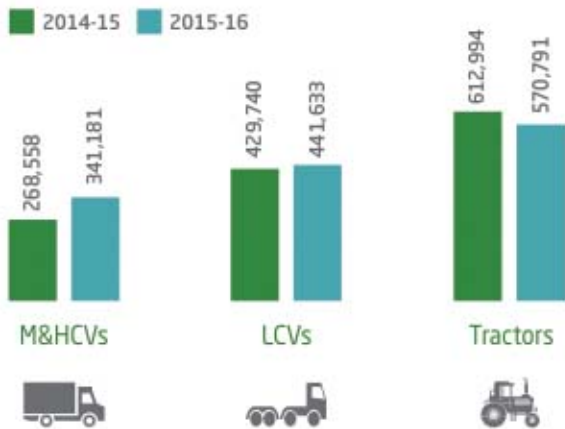
TOTAL PASSENGER VEHICLES PRODUCTION UP 5.97%



TWO AND THREE-WHEELERS RECORD LOW GROWTH



COMMERCIAL VEHICLE PRODUCTION UP 12.1%  
TRACTORS DOWN 6.9%



\*Sourced from SIAM & TMA

INDIAN AUTO-COMPONENT INDUSTRY

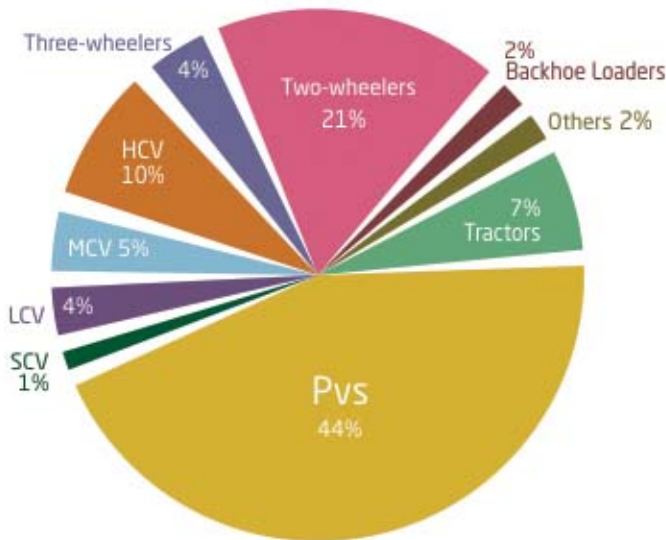
The Indian Auto-Component Industry faced several headwinds in 2015-16. Demand, domestic as well as, global was affected by several adverse developments. Apart from macro-economic slowdown, global demand was also impacted by the unexpected slowdown in the M&HCV sector in the US and the uncertainties brought about for a few large multinational OEMs due to the revelation of wrong and fraudulent reporting of emission data. On the domestic front, too, demand conditions were below expectations. Rural demand was dampened due to inconsistent monsoons and also certain regulatory developments like the banning of diesel vehicles in the Nation Capital Region (NCR) created uncertainties and gave a negative signal to the industry. While upcoming regulations on safety, emissions and electrification are expected to trigger off a fresh round of investments in the sector on research and development to meet these requirements, today, a lack of clarity on the roadmap of such regulatory reforms has created some uncertainty and players have held back investments in these areas.

Under such challenging circumstances, the Indian auto-component industry managed to hold its ground. The auto component industry grew by 8.8% and recorded a turnover of Rs.255,636 crore (USD 39 billion) in 2015-16. With this growth, the industry registered a CAGR of 6% over a period of six years. Even after facing such headwinds, the auto-component industry managed to record a positive growth of 3.5% in exports during 2015-16. This is at a time when overall exports of India declined by 9.58%.

INDIAN AUTO-COMPONENT INDUSTRY - ANNUAL TURNOVER AND GROWTH



**SEGMENT WISE AUTO COMPONENT SUPPLY DISTRIBUTION TO OEMs**



\*OEMs consumption includes locally produced Components and Imports

SCV	Less than 2 T
LCV	2 to 7.5 T
MCV	7.5 to 16 T
HCV	More than 16 T

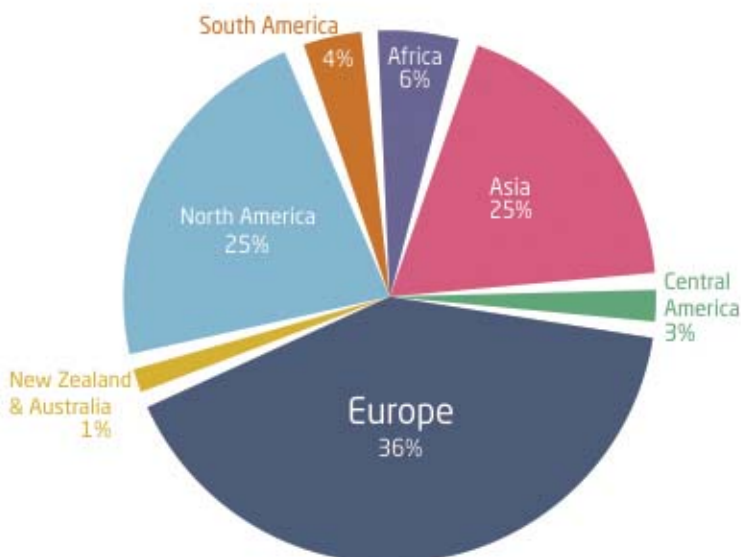
In India amongst OEM customers, auto-component products are used highest for passenger vehicles with a share of 44%; this is followed by 2-3 wheelers who have a share of 25%; commercial vehicles right across the spectrum from SCVs to HCVs consume 20%; while farm and construction equipment consume the remaining 11%

In a difficult year, exports of auto components grew by 3.5% from Rs.68,500 crore (USD 11.2 billion) in 2014-15 to Rs.70,900 crore (USD 10.8 billion) in 2015-16, registering a CAGR of 18% in last six years. Europe accounted for 36% of exports; followed by Asia and North America with 25% share each. Major components of growth in exports came from North America (3%) and Central America (30%). The key export items included Hydraulic Power Steering Systems & Steering Gear Systems, Gear boxes & parts, parts of diesel engines, parts for automobiles and earth moving equipment, drive - axles & parts, spark ignition, suspension systems, crank shaft for engines, toothed wheels, brakes and servo brakes to name a few.

**INDIAN AUTO-COMPONENT EXPORTS**



**EXPORTS - SHARE OF REGIONS**

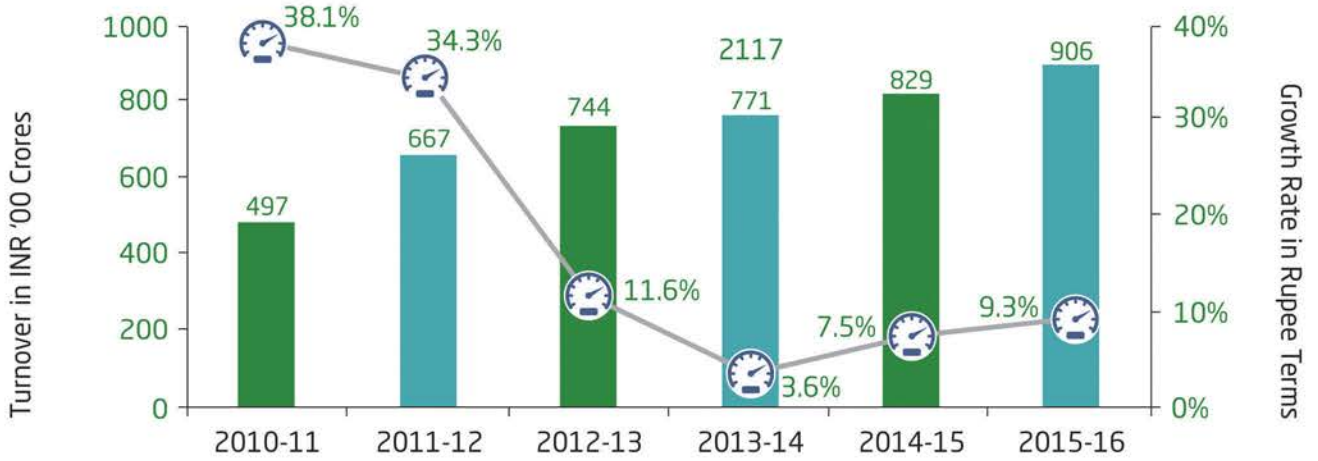


**EXPORTS DESTINATIONS - TOP 10 COUNTRIES IN %**

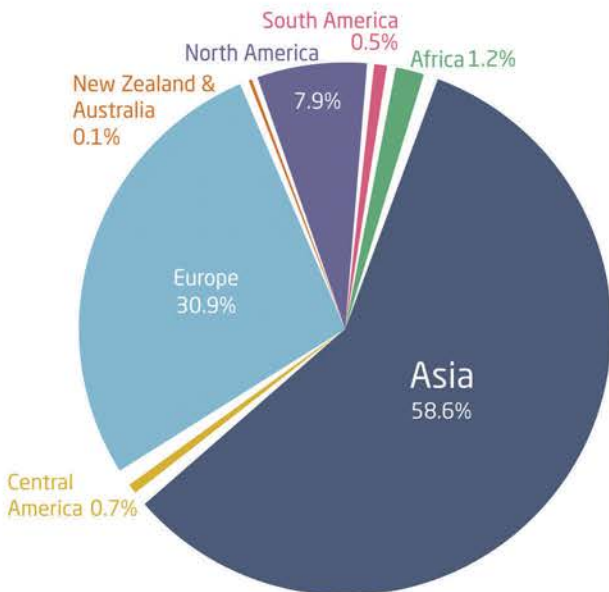
USA	23.59	THAILAND	3.18
GERMANY	6.96	UAE	3.15
TURKEY	6.22	FRANCE	2.99
UK	5.43	BRAZIL	2.62
ITALY	3.86	MEXICO	2.59

Imports of auto components increased by 9.3% from Rs.82,900 crore (USD 13.58 billion) in 2014-15 to Rs.90,600 crore (USD 13.82 billion) in 2015-16; Asia and Europe contributed to 58.6% and 30.9% of the imports respectively, while by North America accounted for 7.9%.

INDIAN AUTO-COMPONENT IMPORTS



IMPORTS - SHARE OF REGIONS



ORIGIN OF IMPORTS: TOP 10 COUNTRIES IN %

CHINA	23.15	USA	7.63
GERMANY	14.29	ITALY	3.43
S KOREA	11.2	UK	2.58
JAPAN	10.65	FRANCE	1.64
THAILAND	8.07	SWEDEN	1.4

# ABOUT THE ORGANISATION

## INTRODUCTION

Established in 1959, the Automotive Component Manufacturers' Association (ACMA) represents the collective interests of one of India's most successful manufacturing sectors, the auto-component industry. As an apex body, ACMA has been relentlessly promoting the interests of the auto-component industry be it for conducive policy environment or for business development - locally and internationally, or for enhancing internal efficiencies of its member companies.

The organisation has an illustrious history of executing the objectives of its charter, which is to develop a globally competitive Indian Auto Component Industry and strengthen its role in national economic development as also promote business through international alliances.

ACMA's active involvement in trade promotion, technology up-gradation, quality enhancement and collection & dissemination of information has made it a vital catalyst for this industry's development. The other activities include participation in international trade fairs, sending trade delegations overseas and bringing out publications on various subjects related to the automotive industry

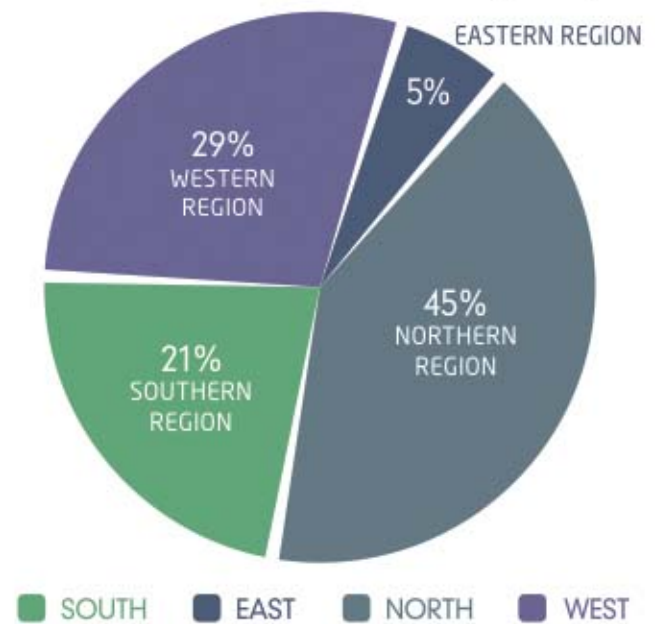
## MEMBERSHIP

Today, with over 750 companies as members, ACMA represents around 85% of the entire auto-component sector in the organised sector in India. Its member companies, supply directly to OEMs or tier one and tier two companies spread across India.

### ACMA MEMBERSHIP (As of March 2016)

REGIONS	MEMBERSHIP
Eastern Region	34
Northern Region	348
Southern Region	154
Western Region	222
<b>Total</b>	<b>758</b>

### ACMA MEMBERS - REGIONAL PRESENCE (INDIA)



## REPRESENTATION

The organisation is represented on all government and industry bodies in India pertaining to the automotive industry. In terms of affiliations and partnerships with other industry bodies, ACMA continued to work closely with the Associated Chambers of Commerce and Industry of India (ASSOCHAM), Confederation of Indian Industry (CII) and Federation of Indian Chambers of Commerce and Industry (FICCI). The organisation continued its regular interface with the Society of Indian Automobile Manufacturers (SIAM), Automotive Research Association of India (ARAI), Indian Machine Tools Manufacturers Association (IMTMA), National Automotive Testing and R & D Infrastructure Project (NATRiP), Automotive Skill Development Council (ASDC) and other member Association of the Associations Councils of CII.

ACMA continues to be represented on the following government bodies:

- Automotive Industry Standards Committee
- Automotive Research Association of India (ARAI)
- Automotive Skill Development Council (ASDC)
- Bureau of Indian Standards (Transport Engineering Division)
- Central Motor Vehicles Rules-Technical Standing Committee
- Development Council for Automobiles and Allied Industries
- Development Council for the Machine Tool Industry
- Indo-German Joint Working Group on Automotive Sector
- India-Netherlands Joint Working Group on Automotive Sector



- National Automotive Board
- National Automotive Testing and R&D Infrastructure Project (NATRiP)
- National Board for Electric Mobility
- WP.29 and Subsidiary technical bodies of WP. 29

## INTERNATIONAL ALLIANCES

With increased focus on globalisation, ACMA has developed strong relationships with several counterpart organisations across the world that help better integrate the Indian auto-

component industry in the global supply chain.

## SECRETARIAT

The operations are executed by a strong secretariat with a presence across all regions of India. In keeping with ACMA's continuous pursuit for excellence, the system and processes across the functions of the secretariat have adopted best practices, and ACMA has been certified as ISO 9001-2008 institution.

COUNTRY	ORGANISATIONS	MOU Partners
Brazil	Brazilian Association of Automotive Components Manufacturers (SINDIPECAS)	
Canada	Automotive Parts Manufacturers Association (APMA)	
Egypt	Egyptian Auto Feeders Union (EAFU)	
France	Federation Des Industries Des Equipments Pour Vehicules (FIEV)	
Germany	Verband der Automobilindustrie (VDA)	
Germany	Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V.	
Germany	ACMA-Messe Frankfurt - Trade Fairs	
Hungary	MAJOSZ (Association of Hungarian Automotive Component Manufacturers)	
Iran	Iranian Autoparts Manufacturers Association (IAPMA)	
Italy	Unione Industriale Torino (UIT)	
Japan	Japan Auto Parts Industries Association (JAPIA)	
Korea	Korea Auto Industries Cooperative Association (KAICA)	
Korea	Korea Trade Centre (KOTRA)	
Malaysia	Malaysian Automotive Component Parts Manufacturers Association (MACPMA)	
Nigeria	National Automotive Council (NAC)	
Pakistan	Pakistan Association of Automotive Parts and Accessories Manufacturers (PAAPAM)	
Russia	National Association of Automotive Components Manufacturers (NAPAK)	
South Africa	The National Association of Automotive Components & Allied Manufacturers (NAACAM)	
South Korea	Economic Cooperation Agreement between Gunsan City, Jeollabuk-do Province, Republic of Korea & ACMA	
Spain	Asociation Espanola de Fabricantes de Equipos y Componentes para Automocion (SERNAUTO)	
Sweden	Scandinavian Automotive Suppliers Association (SASA)	
Thailand	Thai Auto-Parts Manufacturers Association (TAPMA)	
Tunishia	UTICA / L' Association Tunisienne des Fabricants de Composants Automobiles (UTICA/ATFCA)	
Turkey	Association of Automotive Parts & Components Manufacturers (TAYSAD)	
UK	The Society of Motor Manufacturers & Traders Ltd. (SMMT)	
USA	Motor & Equipment Manufacturers Association (MEMA)	
USA	Society of Automotive Engineers (SAE)	
USA	Original Equipment Suppliers Association (OESA)	
USA	Auto Care Association (earlier known as Automotive Aftermarket Industry Association - AAIA)	
Uzbekistan	The Association of the Enterprises of Automotive Industry of the Republic of Uzbekistan (UZAUTOSANOAT)	

## ACMA QUALITY POLICY

ACMA is committed to provide leadership and quality services to its customers. This would be achieved by:

- Evolving & delivering innovative services through consensus and in partnership with members/other stake holders.
- Contributing to the developmental needs of the customers in the backdrop of changing external environment.
- Enhancing ACMA's capabilities and competence portfolio commensurate with emerging industry needs and expectations.
- ACMA is committed to comply with the requirements of the Quality Management System and to continually improve its effectiveness through employee involvement.

President

Director General

### EXECUTION

The association executes its activities through a network of regional committees, national committees and specialised divisions like ACT and YBLF. Broadly the spectrum of activities can be categorised under four segments of operations:

**Brand Building and Business Development:** This is done with a focus of enhancing the appeal of the Indian auto-component industry and providing platforms for individual to promote themselves. Activities are undertaken nationally as well as internationally.

**Government Affairs and Policy Advocacy:** As the apex industry body representing the auto-component industry in India, a primary goal of the association is to create a conducive policy environment that helps the industry to continue on the growth path given the evolving external

conditions. It also assists the government in developing appropriate policies and regulatory mechanisms.

**Enhancing Internal Efficiencies:** While promoting the larger interests of the industry, the association plays a critical role in promoting latest technology and best practices amongst its members to make the companies globally competitive.

**Thought Leadership, Knowledge Initiatives and Competitions:** The association continually engages with consultants of global repute to carry-out research on diverse subjects related to market dynamics, technology trends, skill development etc.

Driven by the goal of achieving the AMP targets, ACMA continues to work through its regions and committees to promote the interests of the industry. The regions and individual committees have specific objectives and scope, which are highlighted in a separate chapter.

## OFFICE BEARERS



**President**  
Mr Arvind Balaji  
Joint Managing Director  
Lucas-TVS Ltd.



**Vice President**  
Mr Rattan Kapur  
Chairman and MD  
M/s Mark Exhaust Systems Ltd.

## Regional Chairpersons



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



**Southern Region**  
Mr A Venkataramani  
Director  
India Pistons Ltd.



**Western Region**  
Mr Kirti Rathod  
Chairman &  
Managing Director  
Delux Bearings Pvt. Ltd.



**Eastern Region**  
Mr Killol Kamani  
Managing Director  
Samarth Engineers  
Co. Pvt Ltd.

# WHAT WE DO...

## GOVERNMENT AFFAIRS AND POLICY ADVOCACY:

Continuously engage with the Government and related bodies to create a regulatory environment best suited for the Indian auto component Industry.

## BRAND BUILDING AND BUSINESS DEVELOPMENT:

Promote brand India globally and assist Indian companies in getting market abroad and domestically. Assistance is also provided in developing network.

**ACMA**

## THOUGHT LEADERSHIP, AND KNOWLEDGE INITIATIVES:

Creates and develops knowledge base for understanding market dynamics, technology trends, export opportunities and more.

## ENHANCING INTERNAL EFFICIENCIES:

Training and sharing of globally acknowledged best practices for the collective benefit of companies in the industry. Also assist in optimising IT infrastructure for competitiveness.

# MARQUEE EVENTS

## ANNUAL SESSION AND NATIONAL CONFERENCE, NEW DELHI (SEPT. 2015)



ACMA Awards are given in five categories - Excellence in Export – Small & Large; Excellence in Technology – Small & Large; Excellence in Quality & Productivity – Small & Large; Excellence in Manufacturing – MSME & Large Category and Excellence in HR – MSME, Small, Large & Special Category. A record 155 applications were received this year, of which 39 were awarded.

The 55th Annual Session and National Conference of ACMA themed 'How the Auto Component Industry Can Make it Happen' brought together policy makers, industry leaders and opinion mobilisers on a common platform not only to celebrate past performance but to galvanize thought leadership on creating manufacturing excellence in the auto component sector in India for global competitiveness.

The inaugural session commenced with welcome address by Mr Ramesh Suri, outgoing President ACMA and Chairman, Subros. The Chief Guest for the event, Mr Anant Geete, Union Minister for Heavy Industries and Public Enterprises, Government of India encouraged the industry to become an integral part of the global value chain, while Jayant Sinha, Minister of State for Finance, Government of India expressed optimism on the industry's future. Mr O Suzuki, Chairman, Suzuki Motors, stressed on the need for improving quality and remaining focused on manufacturing.

During the event, ACMA's joint study with McKinsey on 'Make in India - Make it Happen' was unveiled. The study highlighted the need for concerted action from auto component manufacturers, OEMs, automotive value-chain partners and policy makers, in order to establish India as a global manufacturing and export hub. The study also highlighted that in order to achieve the targets for the auto component industry in Automotive Mission Plan 2026, - turnover of USD 200 billion in revenue, USD 70-80 billion in exports and contribution of 10 percent to India's manufacturing GDP, the industry needs to attract an investments of USD 30 - 40 billion over the next decade, ensure skill development of the existing talent pool, hand

hold the tier 2s and tier 3s, increase individual company's profitability and strengthen India's competitiveness as an investment destination for manufacturing by improving ease of doing business.

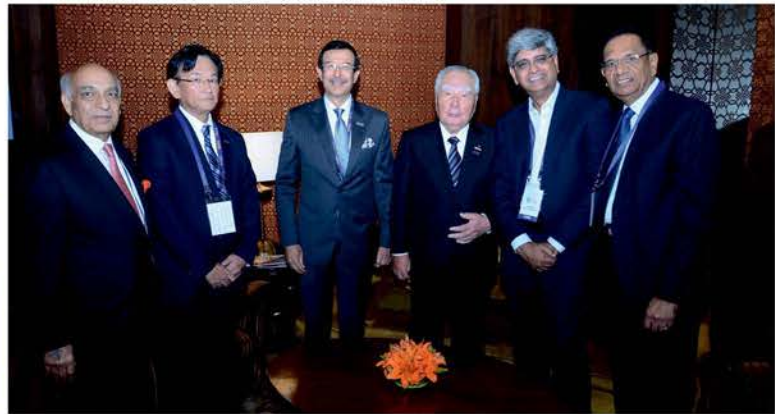
Various luminaries from the industry and the government including Dr. Rajan S Katosh, Secretary, Department of Heavy Industries and Public Enterprises, Government of India; Mr Vinod K Dasari, President SIAM and Managing Director, Ashok Leyland; Dr Pawan Goenka, Executive Director and Group President (Automotive and Farm Sector), Mahindra and Mahindra; Mr Anant Talaulicar, Chairman and Managing Director, Cummins India; Mr Ashok Taneja, Managing Director & CEO, Shriram Pistons; Mr Hairsh Lakshman, Managing Director, Rane TRW Steering Systems; Mr Claude d'Gama Rose, Managing Director, Continental Automotive Components (India) and Mr Rajat Dhawan, Director and Mr Shivangshu Gupta, Partner, Mckinsey and Company India shared their perspective. The panel discussed various issues concerning the industry such as investment sustaining return on investments, challenges of regulatory environment, safety and emission requirements, promotion of frugal engineering, need for innovation and technology deployment and creation of an eco-system for skilling in India.

Further, the Awards were given at the Annual Session in the categories of manufacturing, quality and productivity, human resource, exports and technology. ACMA awards are today recognised not only as a hallmark for excellence but have set the benchmark for innovative growth in domestic as well as international markets. A record 155 application were received last year, of which 39 were awarded.

# 55<sup>th</sup> Annual Session & National Conference

# MAKE IN INDIA

HOW THE AUTO COMPONENTS INDUSTRY CAN MAKE IT HAPPEN



### ACMA AWARDS



## THE THIRTEENTH AUTO-EXPO-COMPONENTS SHOW, NEW DELHI (FEBRUARY 2016)



The biennial showcase event, organised jointly by ACMA, CII and SIAM at Pragati Maidan, New Delhi witnessed resplendent displays, hectic business meetings and networking engagements reflecting the positive sentiment in the automotive sector in India. Mr Anant Geete, Union Minister for Heavy Industries and Public Enterprises, inaugurated the event. Aptly themed 'Automotive Technologies that Drive the World', the event highlighted the critical need for focus on R&D and innovation in the auto component sector.

Spread over 80,000 square meters across 18 halls, the

event witnessed participation from 1,500 companies, which included 900 Indian companies and 600 international exhibitors. There were eight dedicated international pavilions from China, Canada, France, Germany, Japan, Taiwan, South Korea and the UK. Over 1,14,328 focused trade visitors attended the expo across 4 days, from 62 countries making it one of the premier business events in the region. The display at the expo not only provided an exposure to the Indian auto-component industry to the latest and the best, but it also gave the participants an opportunity to strike collaborations to develop technologies indigenously.





## THE THIRTEENTH AUTO-EXPO-COMPONENTS SHOW



## INNOVATION PAVILION

With rapid changes in customer needs and the regulatory environment, the component industry has been making conscious efforts to graduate from 'build to print' to 'creation of Intellectual Property'. Reflecting this ethos, for the first time at Auto Expo, an innovation pavilion was set-up spread over 100 square meters with 13 leading exhibitors. On display were latest offerings from the auto component industry - products that were designed, developed, tested and validated in India.



## ASLI NAQLI PAVILION



Continuing with its efforts to create awareness about the disadvantages of counterfeiting and to promote genuine parts, ACMA set up the 'Asli Naqli' pavilion. The 150 square meters Asli-Naqli island stand endeavoured to educate visitors on safety, life cycle of genuine parts compared to fakes, repercussions of using fakes in vehicle performance and new technologies introduced to counter such malpractices. 12 companies participated in the pavilion.

Visitors to the stand included OEM groups, dealers, wholesalers and retailers. As a comprehensive event, Asli Naqli also offered exclusive services of an IPR cell for Auto Expo participants, wherein any exhibitor aggrieved by infringements to their intellectual property rights could lodge a complaint to the attorney on duty for necessary action.

## NEW DELHI AUTOMOTIVE SUMMIT, 2016



Alongside the Auto Expo, ACMA organised the New Delhi Automotive Summit, 2016.

The summit witnessed participation from several luminaries from Government and the automotive industry, these included Ms. Rita Teatolia, Secretary, Department of Commerce, Ministry of Commerce & Industry, Government of India, Dr. Tim Leverton, Head Advanced & Product Engineering CVBU Pune, Tata Motors Ltd., Mr. Abraham Joseph, Chief Technology Officer, Bajaj Auto Mr. Jayant Davar, Managing Director, Sandhar Technologies, Mr. Ashok K. Taneja, Managing Director & CEO, Shriram Pistons & Rings, Mr. Srivats Ram, Managing Director, Wheels India, Mr. Manoj Solanki, Purchasing Leader-India ABO, Cummins India, Mr. P. Kaniappan, Managing Director, Wabco India, Mr. C. V. Raman, Executive Officer - Engineering, Maruti Suzuki India, Dr. S K Shivakumar, Prof. Vikram Sarabhai Professor & Former Director, Indian Space Research Organisation (ISRO), Mr. Ramesh Mangaleswaran, Director, McKinsey & Company, and others.



The presentation by McKinsey & Company, on Automotive Sector in India, highlighted key trends of Electrification, Emissions, Safety, Connectivity & Convenience, Autonomous Driving, Advanced Manufacturing & Advanced Materials. It further suggested imperatives for the industry to succeed - Making winning portfolio choices across Product, Marketing & Technology.



# ACMA IN PRESS

## INDUSTRY UPDATE

### ACMA urges government to set up technology fund to support smaller suppliers

"QUALITY JUST GIVES you the ticket to play the game. And technology is what's going to win the game," says Arvind Balaji, president, Automotive Component Manufacturers Association (ACMA), to reason why companies should focus on ramping up technology and renovation now more than ever before.

There are companies in India that are ramping up



### ARVIND BALAJI, President, ACMA

## ACMA predicts high growth for auto ancillaries

owners. We all together and you have a look at the feeling of innovations to showcase happening what it is. But I would like to make a point here that the OEMs have been very supportive, almost every company has sent a delegation of their senior management and engineers here. People have taken the



प्रगति गैलरी में केंद्रीय भारी उद्योग मंत्री ने किये आर्टो एक्सपो कंपोनेंट का उद्घाटन

## नकली ऑटो पार्ट बड़ी समस्या : गीते

## Aerospace and defence business to give Indian suppliers new thrust

With India looking to replace 50 percent of its ageing defence equipment, Indian component suppliers, who meet top-notch quality norms, stand to notch huge gains says Shobha Mathur.



### INDUSTRY NEWS

### First-ever ACMA show in Japan, a thumping success

The show, supported by the Indian Embassy in Tokyo and the Indian Ministry of Commerce & Industry, served as an ideal platform to discover opportunities for the emerging, joint venture and technical collaborations for the auto-component industries of both the countries, as also leverage each other's strengths.

This is the first-ever such initiative taken by ACMA in the backdrop of the visit of the Prime Minister, Mr. Narendra Modi, to Japan in September 2014.

"Consistent focus on quality has helped the rapidly growing companies of India make significant inroads in the global supply chain. During the last three decades of working together with the Japanese auto industry, Indian auto-component manufacturers have earned several Japanese Quality premiums. This year, the past few years have seen a significant shift as Indian component manufacturers consistently score very high 'Build to Print' in innovation, R&D and quality of products and IP, backing the success of exports.



विश्व की सबसे बड़ी कार, सड़क परी की बजाय कार को ही...  
नया हीरो: बिट्टू सागरा उपरा, आसोको के सचिव

## Auto components industry may grow 12 per cent in FY 17

SPECIAL CORRESPONDENT



The global markets continue to be slow but the domestic industry is showing signs of recovery

Arvind Balaji,

### STRINGENT NORMS

## AUTO COMPONENT FIRMS GEAR UP

Component makers are looking to forge alliances and JVs, seeking buyouts and strengthening their R&D capabilities as they seek to adapt to the changes that will kick in over the coming years

## ACMA's New Delhi Automotive Summit 2016



Association Interview

### India: Driving to New Horizons

12/19/2015 | Editor: Usha Chakravarti



The steady growth in the auto component sectors stands to be bolstered by various Government of India initiatives around infrastructure development, skilling initiatives and ease of doing business.

Associations such as the Automotive Component Manufacturers Association (ACMA) are undertaking initiatives to support the current scenario and

Manufacturers Association of India (ACMA) said.

### Positive trend

"In the first two months of this fiscal, trends have been positive. With prospects of a

said that despite a challenging year, the industry had "satisfactory" growth of 8.8%.

Exports grew by 3.8% last year, while overall exports from India witnessed a decline of 9.58%, the Indian auto component exports



## ACMA: Auto component sector to grow 10-12% in this fiscal

### Auto parts sector sees 8.8% growth in turnover FY16

Eyes double digit growth this year

turnover in 2014-15. Capital investment last year was ₹2,700-4,000 crore, compared with



Indian auto component industry is expected to grow in the range of 10-12 per cent in the current fiscal as hopes are high for a more normal monsoon and recovery in the domestic auto-

Despite a challenging year, the auto component industry has registered a satisfactory growth of 8.8%. Further, while overall exports from India witnessed a decline of 9.58%, the Indian auto component exports grew by 3.8%. Yes, it is a challenge, but we are optimistic about the future.



### AUTO TECH REVIEW

### CAN'T SURVIVE BY BEING BUILD-TO-PRINT COMPANIES; NEED TO DEVELOP MORE



the steady growth in the auto component sectors stands to be bolstered by various Government of India initiatives around infrastructure development, skilling initiatives and ease of doing business.

Associations such as the Automotive Component Manufacturers Association (ACMA) are undertaking initiatives to support the current scenario and encourage further growth through expanding avenues. President, ACMA and joint Managing

grew by 3.8% last year, while overall exports from India witnessed a

### ACMA PRESIDENT

President Arvind Balaji reports here. The global market continues to be slow but domestic industry is showing signs of recovery, he added.

Commenting on the last fiscal, Balaji said: "Despite a challenging year, the auto component industry has registered a satisfactory growth of 8.8 per cent. Further, while overall exports from India witnessed a



also talking to our Government to provide us a level playing field in terms of trade policy, he added.

Last fiscal, the component industry invested in the range of ₹2,700-4,000 crore compared with ₹2,000-3,000 crore in 2014-15. "The enhancement in investment can be attributed to better business prospects owing to improving market sentiments," ACMA Director General Vinod Mehta said.

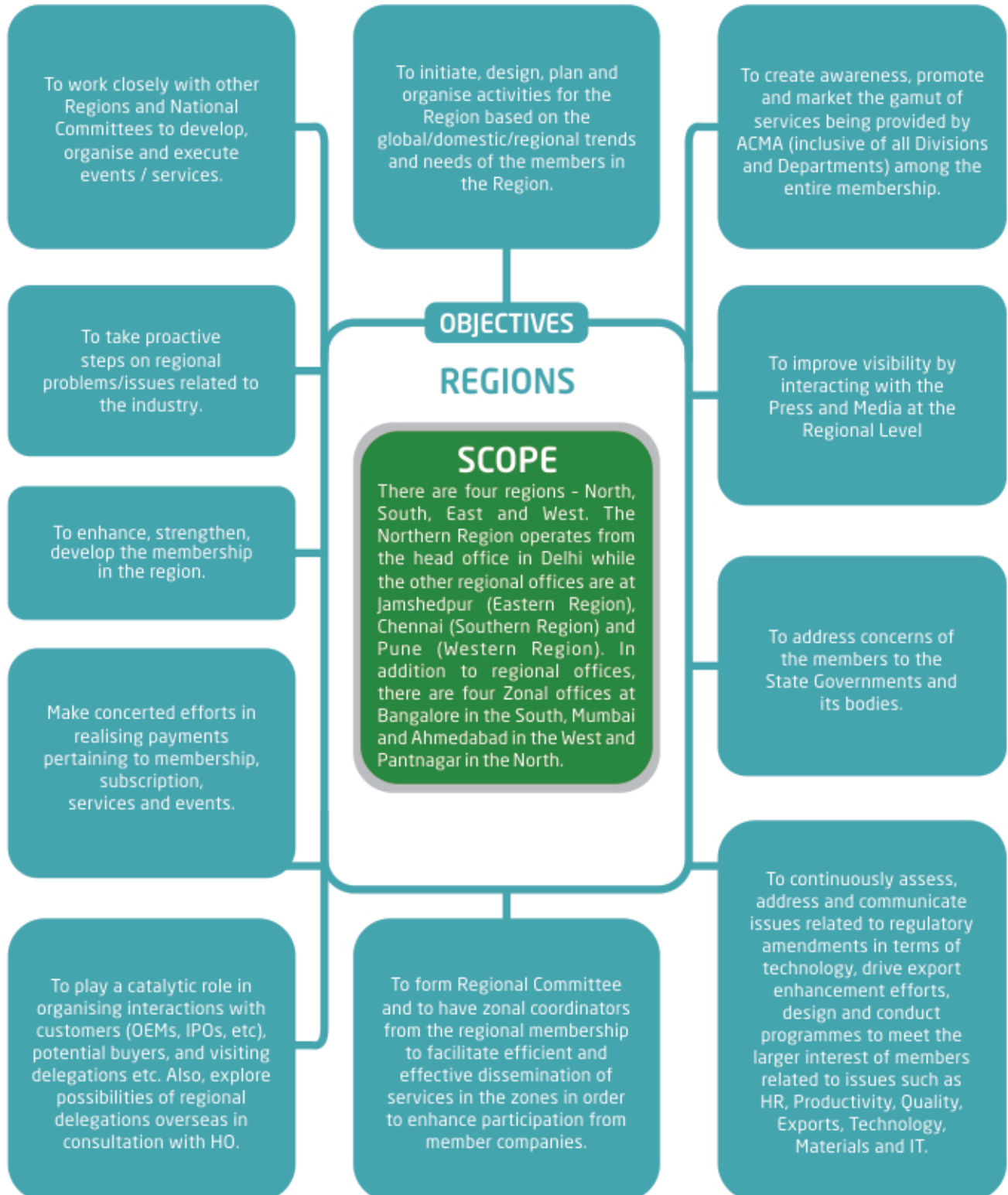
For the component industry, things are starting to look a little positive. We are seeing signs of recovery. Passenger car segment has shown growth while commercial vehicles have also come up well

SMARTBYTES

# REGIONS & COMMITTEES: A SNAPSHOT

The various regional and national committees deliver ACMA's agenda. In this chapter, we provide a brief description of these committees highlighting their objectives and activity profile.

## OBJECTIVE AND SCOPE



## COMMITTEES OBJECTIVES AND SCOPE



### ACMA CENTRE FOR TECHNOLOGY

Mr. Srivats Ram  
Chairman

Provides expert guidance to members in improving their manufacturing competitiveness, enhancing their quality capabilities and increasing productivity through various specific cluster programs.



### AEROSPACE, DEFENCE & RAILWAYS COMMITTEE

Mr. F R Singhvi  
Chairman

Supports ACMA members to understand and leverage opportunities in the adjacencies, especially with liberalisation in these sectors.



### CONSUMER AFFAIRS AND ANTI-COUNTERFEITING COMMITTEE

Mr. Sriram Viji  
Chairman

Addresses issues related to the aftermarket with a special focus on dealing with identification and prevention of counterfeiting.



### FINANCE COMMITTEE

Mr. Srivats Ram  
Chairman

Ensures sound financial health of the association, makes appropriate recommendations to the Executive Committee regarding financial matters and ensures all statutory compliance.



### GLOBALISATION COMMITTEE

Mr. Deep Kapuria  
Chairman

Focuses on internationalisation of member companies by expanding linkages with global automotive leaders and manufacturers. It also supports exports development by facilitating participation of member companies in international trade fairs, organising international BSMs and tech shows. The committee is also engaged in dissemination of strategic information and knowledge on international automotive trade and best practices.



### HR, IR AND SKILL DEVELOPMENT COMMITTEE

Mr. Deepak Jain  
Chairman

Recognising the present limitations of the industry and shortage of skilled manpower, the committee works specifically to address these challenges and devise appropriate solutions.



### INDIAN MACHINE TOOLS MANUFACTURERS' ASSOCIATION (IMTMA) INTERFACE COMMITTEE

Mr. P Kaniappam  
Chairman

Helps in identifying areas where the machine tool sector should focus to support and augment the competitiveness of the Indian Auto Component sector.



### INFORMATION TECHNOLOGY (IT) COMMITTEE

Mr. Ravi Machani  
Chairman

Facilitates adoption of digital solutions among ACMA members.



### KNOWLEDGE PARTNER ENGAGEMENT COMMITTEE

Mr. A K Taneja  
Chairman

Engages with Knowledge Partners to enrich the industry on various subjects and trends - local as well as global. It helps its members to strategize and navigate better in the dynamic business environment as well as harness newer business opportunities.



**MEMBERSHIP  
DEVELOPMENT  
COMMITTEE**

Mr. Rattan Kapur  
Chairman

The objective of the Committee is to elicit feedback from members so that ACMA services can be continually improved. The committee also engages in enhancement of ACMA membership base and revitalisation of dormant and inactive members.



**MICRO, SMALL AND  
MEDIUM ENTERPRISES  
(MSME) COMMITTEE**

Ms. Sharadha Suri Marwah  
Chairman

Champion the cause of smaller companies in ACMA. Special programs and engagements are devised based on members' inputs to help the MSME sector.



**OEM INTERFACE  
COMMITTEE**

Mr. A K Taneja  
Chairman

This formal mechanism of Interface with SIAM helps address areas of common concern between the OEMs and the Component Manufacturers.



**PUBLIC POLICY AND  
GOVERNMENT  
AFFAIRS COMMITTEE**

Mr. Arvind Balaji  
Chairman

Facilitates proactive engagement of ACMA with the various Ministries and Departments of Government of India. This is ensured by participating on appropriate panels / committees/ councils / working groups of the government pertaining to Trade Policy and Promotion, WTO, Monetary & Fiscal Policy, Technology, and such issues that impact the auto component sector.



**RAW MATERIAL  
COMMITTEE**

Mr. Pranav Kapuria  
Chairman

Interfaces with input raw material suppliers and helps members keep abreast with the raw material industry.



**SUPPLY CHAIN/BSM  
COMMITTEE**

Mr. Rattan Kapur  
Chairman

Helps address the basic hygiene factors of Quality, Cost and Delivery, especially for the tier 2s and tier 3s. It also helps strengthen the capacity and capability in the various stakeholders of the supply chain.



**SUSTAINABLE  
DEVELOPMENT/ELECTRIC  
MOBILITY COMMITTEE**

Mr. Sunjay Kapur  
Chairman

Maintains a constant engagement with relevant authorities that define various aspects of sustainable development of auto-component players. The committee is also engaged in facilitating creation of ecosystem for electric mobility in the country.



**TECHNOLOGY, SAFETY  
AND REGULATORY  
MATTERS COMMITTEE**

Mr. Harish Lakshman  
Chairman

Interfaces with the government on issues related to standards and regulations for the automotive industry.



**YOUNG BUSINESS  
LEADERS'  
FORUM (YBLF)**

Mr. Sanjay Labroo  
Mentor



Mr. Anmol Jain  
National Coordinator

The forum is aimed at grooming the next generation of leadership in the auto component industry through an effective system of mentoring and giving them exposure to industry leadership in India and abroad.

# HIGHLIGHTS OF ACTIVITIES

## REGIONS

The major activities undertaken by various regions of ACMA during 2015-16 are given below:

### EASTERN REGION

**April 8, 2015, Training program on Statistical Process Control (SPC), Jamshedpur**



The one day workshop was focused on improving the product quality by reducing process variation and monitor process behaviour. Faculty for the program was Mr. Anurag Satsangi, Mechanical Engineer from Dayal Bagh Educational Institute. Some of the topics covered in the workshop were control location for different places, mean, median, mode, standard deviation, procedure for SPC etc. Twenty nine delegates attended the program and the feedback received was positive and encouraging.

**July 1, 2015, Members' Interaction, Jamshedpur**



ACMA Eastern Region organised a member's interaction forum to discuss ways to protect the industry at a time when the commercial vehicle industry was facing severe recession. Fourteen members from Eastern Region came together to discuss an agreement floated by Tata Motors Ltd for all its vendors which had created much speculations among the community.

**September 28, 2015, Training Program on Supply Chain Management (SCM), Jamshedpur**

Objective of this program was to learn about supply chain basics, logical thinking, performance measurement and value creation for the target market. It was an interesting mix of classroom teaching and practical explanations through audio visual. 22 delegates attended the program.

**November 23, 2015, Training program on Supply Chain Management, Jamshedpur**



The full day training program was organised to learn the basics of supply chain, logical thinking, performance measurement and creating value to the target market. It covered the 'Bullwhip effect' - an observed phenomenon in forecast-driven distribution channels. In the second half of the session, many practical games were played with participants which generated interest. The program was attended by 23 participants.

**December 11, 2015, Workshop on Conflict Management, Jamshedpur**



Conflict management is a process to limit the negative aspects of conflict while increasing the positive aspects of it. The aim of conflict management is to enhance learning and group outcome including effectiveness or performance in organizational setting. ACMA, Eastern Region organized a full day workshop on Conflict Management. The program was an interesting mixture of classroom teaching, anecdotes, and stories with visual aids. It was attended by 29 delegates.



**January 8, 2016, Training Program on FTA & FMEA, Jamshedpur**



The objective of FMEA program was to enable participants to understand the importance of FMEA in achieving robust capable designs and processes. It also taught participants how to improve the efficiency and effectiveness of their FMEA efforts. FTA helps connect failure mode to Assignable Cause(s), uses data logic and physics without emotion or bias, it also creates a series of possible failure mechanisms. The training was attended by 38 participants.

**February 12, 2016, Training Program on Problem Solving and Decision Making, Jamshedpur**

The objective of this program was to familiarise the members with systematic and structured approach for problem solving and decision making. Definition of problem, identification of problem, negative and positive aspects of any problem, structuring of problems and fluency were explained. The program was attended by thirty eight delegates.

**February 23, 2016, Members' Interaction with President and Vice President, ACMA, Jamshedpur**



The annual interaction with Mr. Arvind Balaji, President, ACMA and Mr. Rattan Kapur, Vice President, ACMA, was organized for the eastern region members. Major achievements of ACMA in the past year were discussed at the meet. There were forty one delegates who took part in the interaction that was followed by cocktail and dinner hosted by the regional council of ACMA, Eastern Region.

**March 11, 2016, Awareness Program on, how to interpret figures, trends and industry health from a balance sheet, Jamshedpur**

The objective of the program was to make the delegates

aware of: Various sections of financial statements (balance sheet, trail balance, P&I etc.); Ratios and figures; Tactical and analytical approach towards these figures; ability to draw conclusions pertaining to health of an organization through these ratios and figures and to interpret the trends of these figures over a time frame. The program was attended by sixteen delegates who appreciated the program.

**NORTHERN REGION**

**April 8, 2015, Training program on 'Empowerment and the Art of Delegation', New Delhi**



ACMA organized this program to focus and emphasise on personal grooming, highlighting the true meaning of empowerment. The program covered definition of employee empowerment; rationale and inhibitors of empowerment; management's role in empowering their employees as also in implementing it; understanding what motivation is and how delegation to be done and the need for delegation.

**April 16, 2015, Launch Of 15th Batch Six Sigma Black Belt Certification Module I, New Delhi**

ACMA Northern Region has successfully completed 14 batches conferring 243 black belts out of its 496 members. These batches have so far collectively saved 177 million worth resources of their respective companies. The Module I had 16 participants from 7 ACMA member companies. This was a six month training program and concluded in October 2015. During this period, the participants also undertook solving at least two shop-floor related problems using the Six Sigma tools.

**April 23, 2015, Value Stream Mapping and a Visit to Minda Corporation Ltd., NOIDA**



The workshop focused on seven types of waste and the difference between value-added versus non-value-added activities in a process. The workshop was organized to understand the complete process for preparation of current state map. Similar program was organized in Noida for ACMA Northern Region members, at Auto Ignition Ltd. on May 5, 2015 at the Palwal plant.

**April 28, 2015, Training program on Red Bin analysis to achieve zero defect, Manesar**

Training program on 'Red Bin Analysis' was to focus on process improvement techniques and advice on addressing the rejected products in a company. Such products, if remodelled and reworked in a proper manner, companies can save large resources.

**May 25&26, 2015 Module II of 15th Batch of Six Sigma Black Belt Certification, New Delhi**

The projects review was done by the faculty, thereafter participants were facilitated for their efforts.

**May 15, 2015, First Zonal Quality Circle Competition Uttarakhand, Rudrapur**



Started in Japan, Quality Circle (QC) movement acts as a successful tool for problem solving and team building in every company when implemented. This movement brings-in high level of bonding and confidence amongst the team members as well as within management. Eighteen teams from Uttarakhand region participated in this competition, witnessed by over 100 delegates. The competition was unique with six teams winning the first three positions amidst tough competition.

**May 26, 2015, Annual interaction with ACMA leadership, New Delhi**



ACMA hosted annual interaction with its senior leadership and a special interaction session with Maruti Suzuki officials.

**May 27-28, 2015 Certification Programme on Geometric Dimensioning and Tolerancing (GD & T), New Delhi**

The objective of the course was to understand the standard method of interpreting the Geometric Dimensioning and Tolerancing (GD&T) given in the drawing and to understand how inspection gages and fixtures have to be designed based on the GD&T given in the drawing. GD&T is a language used in Mechanical Engineering to accurately communicate geometry requirements for associated features on components and assemblies.

**June 1, 2015, Problem solving skill-building Program, Faridabad**

ACMA launched an intensive three months program for A G



Industries Pvt. Ltd. This in-company program was to develop problem solving skills in employees through project facilitation.

**June 17, 2015, Workshop on Overall Equipment Effectiveness, Ludhiana**

ACMA, Northern Region organised one day workshop on overall equipment effectiveness (OEE) to train the work-force of member companies of Northern Region on shop-floor techniques. The workshop was organized to make the participants aware of effective OEE. Topics covered were meaning of OEE; calculating OEE; three basic factors of OEE; availability ratio; performance ratio; quality ratio; OEE benchmark; 3M; identify MUDA; value addition and Kaizen.

**June 25, 27, Training program on PPAP and FMEA, Uttarakhand**

Two consecutive training programs were organized by ACMA Northern Region for its members of Uttarakhand zone on Production Part Approval Process (PPAP) and Failure Modes & Effects Analysis (FMEA) at:

- Minda Industries, SIDCUL, Pantnagar, attended by 18 delegates from 7 companies
- Endurance Technologies Pvt. Ltd, SIDCUL, Pantnagar, attended by 22 delegates

**June 1-3 and July 6 & 7, 2015, In-House Training Program on Six Sigma Green Belt, Gurgaon**

A Six Sigma Green Belt program was organized by ACMA at the request of Sandhar Technologies for their work-force at Gurgaon plant. The first module was conducted from 1st-3rd June, 2015 & project facilitation was done on 6th & 7th July, 2015.

**July 2, 2015, Training Program on Achieving Zero Failure in Delivery Schedules & Visit to Mark Exhaust Systems Ltd., Dharuhera**

The objectives of the workshop was to understand zero failure in delivery schedule, optimise resources, seek the best practices for minimizing losses, reduce losses due to poor quality, develop confidence and strengthening team building.

**July 11, 2015, In-House Training Program on "3M", Uttarakhand**

A 3M (MURA, MURI, MUDA) in-house training was organized by ACMA for Bajaj Auto Vendor Association of Uttarakhand zone at the facilities of Pricol Ltd, SIDUL, Pantnagar. 35 delegates attended the session. Most organizations only

focus on eliminating 'Muda' as it is an effective way to reduce waste and increase profitability. Other two M's are usually neglected, leading to problems in long run. The session introduced activities related to the subject for better understanding of the participants.

**July 31, 2015, 12th Quality Circle Competition, New Delhi**



Quality Circle (QC) is a participatory management technique that helps employees in solving problems related to their jobs and recognizing solutions for improvements. ACMA Northern Region organized 12th Quality Circle Competition, where 48 member teams participated at the event.

**August 7, 2015, PPAP & APQP Training Program, New Delhi**

Over fifty five participants attended this training to learn the fundamentals, process and contents of PPAP and APQP.

**August 8, 2015, Effective decision making and negotiation skills**



Effective Decision Making and Negotiation Skills in-house training program was organized by ACMA for employees of Meenakshi Polymers Pvt. Ltd. at their premises.

**August 12, 2015, Improving organizational profitability, Uttarakhand**



ACMA organized exclusive workshop for the members of Uttarakhand region at Minda Industries, SIDCUL, Pantnagar on ways to improve organisation profits. Key challenges addressed were:

- Reducing and maintaining conversion cost
- Cost of Poor Quality
- Lean
- Value Stream Mapping
- Overall Equipment Efficiency

#### August 13, 2015, Awareness session on GST, New Delhi



This session was to apprise the ACMA members of the new taxation system as well as address their doubts related to GST, which is slated to be implemented by Indian Government in 2016. This tax will be applicable on both goods and services, which will replace the archaic laws of collecting indirect tax. Implementation of GST is expected to give a competitive edge to the Indian industry.

#### August 24, 2015, Effective communication & presentation skill, Rudrapur

This workshop was organized at Endurance Technologies Pvt. Ltd. and was attended by sixteen delegates from seven member companies. Various case studies were discussed to make participants understand the several steps in making the upward and downward communication effective.

#### September 16, 2015, Statistical Process Control (SPC), Uttarakhand

This training was organised at Minda Industries, SIDCUL, Pantnagar for members of Uttarakhand region. SPC is a useful tool used in the process of monitoring and taking necessary actions well in advance to prevent rejections of

on-going cycle. Twenty delegates attended the training.

#### September 11, 2015, Quality Initiatives to Achieve Competitiveness, New Delhi

Micro, Small and Medium Enterprises (MSMEs) are an integral part of Indian economy as they provide employment, investments, innovations and exports. Today due to global competition, many of these MSMEs are struggling hard to survive. Thus, the workshop was organised to introduce various quality Initiatives, which could be undertaken by companies to improve their competitiveness. The workshop focused on COPQ, cost of re-work, their role in managing their daily work, PDCA cycle and continuous improvement, Value Stream Mapping and identification and elimination of wastes.

#### September 24, 2015, Joint knowledge seminar on improving productivity in CNC machining, Gurgaon

ACMA and IMTMA jointly organized a one day knowledge seminar on improving productivity in CNC Machining the facilities of Rico Auto Industries Ltd. Latest developments in CNC machining were covered with several other presentations, followed by a brief visit to the shop floor of Rico Auto along with sharing of experiences by Rico experts on CNC Machining.

#### September 28 & 29, 2015, Problem prevention using Monte Carlo Simulation Technique, New Delhi

The two day workshop covered:

- Introduction to Monte Carlo Simulation
- Process of simulation to understand process variation
- Collection of data from the process for input to simulation

Data collection, actual simulation using excel, finding rejection percentage from the process using simulation, identifying the target for improvement using simulation, exercise on simulation using data from companies and other crucial topics were discussed.

#### October 5-8, 2015, Final Assessment & Certification Ceremony of 15th Batch of Six Sigma Black Belt



The 15th batch on Six Sigma Black Belt Certification Program which was launched in April 2015, reached its last leg of final assessment on 5th & 6th October. The result of the final assessment was declared on 7th & 8th October 2015. After the exhaustive six months training, 12 participants from six companies were certified as the Six Sigma Black Belts for successfully completing the final assessment exam and the validation of their projects. The participants completed 24 projects that amounted to savings of Rs.6 Million.

### October 9, 2015, One Day Training Program on 3 M, New Delhi



3M (Muri, Mura and Muda) is traditionally a Japanese term referring to TPS (Toyota Production System). Program covered in detail about 3M, 3K, 3G, value addition, basic resources, 8-wastages, TAKT time/cycle time/lead time/change over time, improving one's ability to identify 3M, VSM & JIT, how to conduct a time study, how to calculate value added percentage, cellular concept & line balancing, methodology to identify waste, identify improvement opportunities and implement KAIZEN to achieve manufacturing excellence.

### October 9, 2015, Training Program on Team Building

Team building is an ongoing process that helps a work group evolve into a cohesive unit. The team members not only share expectations for accomplishing group tasks, but trust and support one another and respect each other's individual differences. The content of the program included establishing the need for effective team building, creating effective team, characteristics of Team Building and Qualities of a Leader. The session comprised practical exercise, which helped the participants understand the concepts.

### October 30, 2015, Training on Eight Disciplines of Problem Solving (8D), New Delhi

As a part of its new initiative, a training program was organised on the 8 Disciplines, which is a problem solving approach typically employed by quality engineers or other professionals and commonly used across the automotive industry. The key objective of organizing this training was to enhance the participants existing skills to enable them become effective at problem-solving and bring in improvement within their work process.

### November 3 & 4, 2015, In-house training on presentation skills at Rockman Industries, Haridwar

The training focused on bringing clarity and confidence in presentation. The participants were taught new vocal techniques to enhance public speaking, how to improve body language and discover ways to connect and retain the attention of the audience. Techniques to structure the presentation for success and effective use of visual aids to strengthen the presentation were also explained.



### November 6 & 7, 2015, In-house Training Program on "5S" at KIE Engineering Pvt. Ltd

The program was organized with an objective to train the participants on "5S" and to motivate the participants to realize how "5 S" implementation bring-in overall change in the organization. The concepts of 5S concepts are: Healthy Work Culture, Motivated Employees, Safe Work Place, Reduction in Quality defects and Machine Break Downs.

### November 4, 2015, Training program on Value Stream Mapping, Uttarakhand



Training program on Value Stream Mapping (VSM) was organized at the facilities of Roop Polymers Ltd, SIDCUL, Pantnagar. The objective was to prepare Value Stream Map for the plant and then by way of brainstorming, identify wastages and improvement opportunities. The main focus was to understand the complete process for preparation of current state map by identifying a particular product, following that product right from Raw Material Stage to Finished Goods stage. Sixteen delegates attended this session.

### November 6, 2015, Training Program on Measurement System Analysis (MSA), New Delhi

Measurement System Analysis (MSA) is a tool which helps to understand measurement systems, its variance and errors. The objective of the training program was to: Explain measurement concepts and fundamental analysis, Analyze variation error in measurement results, Perform bias, linearity, and stability studies, Perform gauge R&R studies, Apply techniques to attribute and variables data. The participants were guided to demonstrate how to determine gauge R&R (repeatability and reproducibility) for attribute and variables data to complete the training.

### December 3, 2015, Program on "Wellness for Life", Uttarakhand

This was an in-house program at Lumax Industries Ltd., SIDCUL, Pantnagar, Uttarakhand. The training emphasized on the wellness framework that can be used to help participants organize, understand, balance and improve their life. Stress and its impact and ways to manage stress were also explained at length. Overall 13 participants attended this session from Uttarakhand zone.

### December 16, 2015, Annual Interaction with ACMA President and Vice President, New Delhi



An interaction of Northern Regional members with Mr. Arvind Balaji, President and Mr. Rattan Kapur, Vice President, ACMA was organized. Mr. Sunil Arora, Chairman - Northern Region welcomed the ACMA leadership and the members of Northern Region. He stressed on achieving AMP 2026 which is a collective vision of the Government of India and the Automotive industry. According to the Auto Component industry it is said to achieve USD 200 Billion turnover from the existing USD 38.5 Billion, with exports ranging between USD 70- 80 Billion from current USD 11.2 Billion. The leadership also answered to the queries that the membership posed to them on various issues concerning the industry as also the future plans of the Association.

### December 12, 2015, In-house Training Program on Communication and Leadership skills at Meenakshi Polymers

ACMA Northern Region organized one day in-house training program on communication and leadership skills at the Gurgaon Plant of Meenakshi Polymers. The workshop trained 22 participants.

### December 16-18, 2015, Workshop on 'Enhancing Export Capabilities through Project Management'

There is a huge demand for 'Project Managers' across the industry to manage projects within cost targets, achieve 'On-Time-Launch' and 'First Time Right' to service export markets. Therefore ACMA Northern Region organized this workshop with the objective of teaching fundamentals of project management, planning and execution of projects of on time, monitor and track projects for successful completion, make the participants understand various pitfalls and obstacles to successful project closure and to understand the importance of leadership and team building.

### December 18, 2015, Program on 'Management of Production Tooling', Uttarakhand

A training program on Management of Production Tooling was organized at the facilities of Endurance Technologies Pvt. Ltd. The program covered designs of press tools, moulds, die casting, jigs and fixtures and its standardization. Fourteen delegates from various department of Tool room, Production and Quality engineers attended the training session.

### January 12, 2016, Second KAIZEN contest, New Delhi



Kaizens have been proved to bring quantum benefits to the company and employees while simplifying processes, eliminating waste, saving costs and other intangible benefits. This contest aimed at showcasing the breakthrough Kaizens done at various companies by the Junior and Middle Management. Thirty two teams from 19 Northern Region member companies participated.

**January 19 & 20, 2016, Health & Safety Audit, Noida**

A two Days In-House Training Program on Health & Safety Audit was organized at Makino Auto Industries Ltd.

**January 22, 2016, Training Program on Measurement System Analysis (MSA), Uttarakhand**

MSA is a tool that helps to understand measurement systems, its variance and errors, enabling the process owners to decide the correct system to ensure right measurements and avoid any wrong judgements. The objective of this program was to analyse variation error in measurement results, perform bias, linearity, and stability studies, apply techniques to attribute and variables.

**January 22, 2016, Advanced Lean Manufacturing for Productivity Improvement**

The course is a Five Module training, spread over five months, with a session every month. The first module explained about "Productivity" and the main topics covered were "Basics of Productivity" and "Approach towards Productivity". The basics entailed the evolution, concept, functional aspect and measurement of productivity while the approach towards productivity educated the participants about PQ Analysis, TAKT Time and Process Approach to Productivity.

**February 7, 2016, 6th ACMA Invitational Golf Tournament, NOIDA**



ACMA Northern Region's Golf Tournament has become so popular that golfers from across India look forward to network and build new contacts at this regional event. Like in the past OEMs, ACMA members, Senior Government officials, and eminent Golfers from PAN India participated in the event. In all 73 Golfers played at the tournament.

**February 15, 2016, Workshop on "Enhancing Export Capabilities through Project Management"**

The final certification module workshop on "Enhancing Export Capabilities through Project Management" was organized where twelve participants from the 7 companies underwent training during all 3 modules.

**February 25 & 26, 2016, Training Program on Finance for Non-Finance Personnel**

This training program was organized for ACMA members on

Finance for Non-finance Personnel at ACMA HQ. The two-day program imparted valuable insights on important financial areas that are extremely relevant for decision making in business.

**February 26, 2016, Ghaziabad 'Zonal Members' meet with Government Officials**

ACMA Northern Region organized an 'Interaction with the Zonal level Government officials of Ghaziabad for its members. The dignitaries also answered the queries that the membership posed to them on various issues concerning the industry as also on the future plans of the association.

**February 26, 2016, Training Program On Low Cost Automation (LCA), Uttarakhand**



LCA can be implemented in any area like assembly, machining, inspection and testing where an individual man is involved. India is being looked at as a "Hub" for global auto manufacturing where low cost automation is the need of the hour to improve productivity, consistency in quantity and quantity. The objective of this program was to improve the working conditions, to face the variety in demand, to increase product quality, to master new technologies and to reduce cost in all aspects including investments.

**March 4, 2016, 4th SMED Competition, New Delhi**



Ten companies representing 13 teams participated in the competition. Single Minute Exchange of Dies (SMED) is one of the many lean production methods for reducing waste in a manufacturing process. The objective of the event was to help the companies to witness the actual case studies from various companies, to reduce their non-value added activities.

**March 12, 2016, Session on "Modern Techniques of Inventory Management", Uttarakhand**

Traditional model in inventory management, also called the

Economic Order Quantity (EOQ) is increasingly being replaced or supplemented by contemporary models of inventory management viz. Just in Time, Materials Requirement Planning and Distribution Requirement Planning. These modern inventory management techniques were introduced to participants.

## SOUTHERN REGION

### March 12, 2015, Member's Interaction with Researchers from Japan, China and IIM- Bangalore

The interaction focused on innovation and technology developments currently happening in Indian industries. The meeting was hosted at Sansera Engineering and included teams from Bill Forge and Toyota Kirloskar Auto Parts.

### April 24 (Chennai) and May 10 (Bangalore), 2015, Workshop on Interpersonal Skills and body language at workplace



This workshop was organised with an aim to impart life skills on interpersonal and body language, which was attended by 8 delegates in Chennai and 11 in Bangalore. A similar program was conducted for Coimbatore members on May 19, 2015 at Roots Industries India Ltd., attended by 14 delegates.

### April 28, 2015, Workshop on Presentation Skills, Chennai

The workshop was conducted in Chennai office with the aim of helping and enabling managers make effective presentation and communication strategies. Fifteen delegates from seven companies participated in the workshop. Topics covered in the workshop were:

- Making the most effective presentation
- Importance of presentations for business success
- Presentation Planning
- Tools & Techniques for making effective presentations

### April 29, 2015, Special session on Goods and Services Tax, Bangalore

ACMA along with KPMG organized a session on Goods and Services Tax - its impact, benefits and challenges; attended by 6 companies.

### May 5, 2015, Special Session on Mapping White Collar Productivity, Bangalore

One of the most challenging points for the HR and the Management is to understand the productivity levels of white collared staff. According to a research, white-collar employees are 50% productive while remaining is non-productive due to personal delays (15%) and improper management (35%). In order to understand how to map white collar productivity this workshop was organized.

### June 10, 2015, Interaction with Mr. Jagmohan Singh Raju, IAS, Commissioner - Industries Department, Govt. of Tamil Nadu

A high level delegation of ACMA Southern Region led by Mr Arvind Balaji, Chairman ACMA met Mr. Raju, as part of the regular interaction with the Government. The ACMA team discussed upon the next steps on the TN Auto Component Policy and the Vision 2023 for the state.

### June 12, 2015, Interaction with Potential Members

To increase the reach of its membership and services, the Membership Department of ACMA along with the ACMA Southern Region organised an interaction of potential members in the Southern Region with Mr. Sandeep Balooja, Vice President, ACMA & Chairman - Membership Committee. Tier-2 suppliers of member companies including Rane Group, India Nippon Electricals Ltd., Mando India were the participants.

### June 16, 2015, Interaction with FIEV, Chennai

A 16 member delegation from ACMA's counterpart in France, French Vehicle Equipment Industries (FIEV), interacted with ACMA. The delegation's visit was to understand the developments in the Indian market and the areas of co-operation between the Indian and French automotive sector.

### June 13, 2015, ACMA-IMTMA Joint Knowledge Seminar, Bangalore

Taking forward the agenda of the ACMA's Committee on IMTMA Interface, a joint knowledge seminar was organised on improving productivity of CNC Machines. The seminar was organised with over 23 participants at the facilities of Toyota Kirloskar Auto Parts Pvt. Ltd.

### June 24 & 26, 2015, Workshop on Vendor Management skills, Chennai and Coimbatore



Two workshops were organized on Vendor Management Skills for ACMA members in Chennai at ACMA office and at



Pricol Ltd, Coimbatore. Ten member companies participated in Chennai while 13 delegates from 4 companies participated in the workshop. The workshop covered: ways to improve vendor quality, developing vendor evaluation, making JIT work for vendor, role of employee involvement in vendor quality control and how to reduce vendor quality costs.

**June 30, 2015, Visit to Federal Mogul–Powertrain, Bangalore**

Continuing with the trend of sharing the best practices among members, an ACMA delegation of 10 members visited Federal Mogul, Powertrain. Some of the best practices that caught member attention were Gyan Manch, Talent Management System, Kaizen, 5S, Safety and Health. The mentor program developed by Federal Mogul is quite unique as it identifies the young talent and develops them to become future leaders.

**June 25 and July 4, 2015, Recruitment Drive of Engineering Graduates at TVS Training & Services, Chennai**



Thirty trainees and 2 companies attended the recruitment drive of Trained Engineering Graduates at TVS Training & Services (TVSTS). TVS TS provides Advance Technical Program for Engineering Graduates with the intent of bridging the gap between acquired theoretical knowledge and practicality as required by the industry. The selected engineers for the drive underwent 75 day residential training program at TVS Training & Services, including factory visits etc. Most of the students available at the drive were from Mechanical and Electrical streams.

**June 19, 2015, Best Practices on Inventory Management visit to Sundram Fasteners Limited**



Twenty delegates from 11 companies attended the

detailed presentation on best practices on inventory management followed by Sundram Fasteners Limited. It was shared with participating delegates by Mr G Subramanian, Manager, Sales and Operations and Ms. Nithya, Deputy Manager. Their presentation showcased a striking balance between cost and service.

**July 3, 2015, Session on Goods and Service Tax, Chennai**

A special session was organized at KPMG on Goods and Service Tax (GST) its impact, benefits and challenges. The session covered topics like VAT/GST around the world, present indirect tax structure, anomalies of present structure in India, GST framework, key impact areas, impact on manufacturing activity, fiscal impact, impact on auto sector, impact on financials, cash flow impact, impact on IT and compliances, preparation for GST.

**August 28, 2015, ACMA Safety Convention, Coimbatore**



The convention was to bring awareness on safety amongst ACMA members. 57 delegates from 15 member companies from the Southern Region participated in the convention. The presentations covered safety of plant and machinery, electrical and fire, behavioural, material handling, other mandatory safety procedures and audit compliance.

**August 25, 2015, Visit to Owari Precision Products India Ltd. and Motherson-Sumi Systems Ltd., Karnataka**

In order to develop a culture of cross learning within the membership, ACMA planned a visit to Owari Precision Products India Ltd. and Motherson-Sumi Systems Ltd. 23 participants from ACMA member companies joined for this visit.

**August 31, 2015, Interaction with Government of Karnataka**

Karnataka hosts nearly 700 MNCs and a multitude of Fortune 500 companies and has been in the forefront of industrial development. Government of Karnataka organised a seminar to attract investments in Karnataka and offer ease of doing business to the manufacturing sector. Two e-initiatives were launched:

- E-Udyami - an online portal focusing on online submission of application forms
- E-Bhoomi - check the land availability for industrial use with GPS

### September 8, 2015, Meeting with Secretary, Labour and Employment, Government of Tamil Nadu, Chennai

ACMA Southern Region met with Mr. Kumar Jayant, Secretary, Labour and Employment. The meeting was to apprise the Labour and Employment department of the auto component sector's contribution towards generating employment for skilled and non-skilled workers. ACMA also reiterated its request to reinstate the auto component sector under the "Public Utility Services" under the Industrial Disputes Act, 1947, which would help in avoiding flash strikes.

### September 9 & 10, 2015 Global Investors Meet, Chennai

Mr. Arvind Balaji, President, ACMA was an invitee at the recently concluded Global Investors Meet organized by the Government of Tamil Nadu. ACMA participated at the various thematic sessions. Few of the sessions were on skill development, developing the state as the world's leading automobile & auto ancillaries cluster, aerospace and MSME. A MoU worth Rs. 2,42,160 crores was signed at the event out of which 1.10 lac crore was for manufacturing sector.

### September 10, 2015, KAIZEN for Organization Success Program in Kannada, Bangalore



While Kaizen is well understood by our industry, the results show when the shop floor employees are able to understand and apply it in their workplace. This session was specially designed in Kannada by ACMA for the shop floor employees who are well-verse with the language, to enable them to relate to the concepts and benefits it brings to the organization.

### September 14, 2015, Participation at the MSME Policy Development Meeting of Government of Tamil Nadu

Government of Tamil Nadu invited ACMA to participate and give inputs for MSME Policy. Mr. Jaishankar Unnithan, Member Executive Committee and JMD, Sankar Sealing Pvt. Ltd., Mr. M. Raja Annamalai, Member Regional Committee and Partner, KR Industries and Mr. T.S Rajagopalan, CFO,

WABCO India Ltd. represented ACMA and gave inputs for development of the MSME policy of the state. Subsequent to the deliberations at the meeting, ACMA was invited to be a part of the Task Group to enhance global competitiveness of MSMEs through skilling and capacity building and R&D and innovation incubation, and Make in Tamil Nadu for the world and develop equity.

### September 14, 2015, Focus group discussion with Government of Odisha

In an effort to create an industry-friendly environment in the state the Government of Odisha, ACMA organized a focus group discussion with select sectors - automotive and auto components being one of them. ACMA Southern Region participated in this focus group discussion and highlighted that presence of an OEM in Odisha would attract auto component manufactures in the state.

### September 15 & 16, 2015 Training Program on Value Analysis & Value Engineering in Tamil, Chennai

Based on inputs from members, ACMA Southern Region organised a two days training program on Value Analysis and Value Engineering in regional language for the benefit of members. Value Analysis a universal tool that can drive improvement in all processes, the training covered its definition, brainstorming exercises, the process and its steps. Eighteen delegates attended the program from six companies.

### September 24 & 25, 2015 Training on Design of Experiments (DOE) at Pricol Ltd., Coimbatore



Eighteen delegates attended this program from four companies. The benefits and use of DOE along with a comparative discussion of classical, Taguchi and Shainin approach was explained to the delegates. Through this program, delegates understood a way to resolve quality problems in manufacturing and also use DOE at design stage. A similar program was held on October 16&17, 2015 in Chennai.

### September 24, 2015, Visit to Tractors & Farm Equipment Limited (TAFE), Bangalore

ACMA Southern Region as part of its series of customer interactions, organised a visit to Tractors and Farm Equipment Ltd. (TAFE), Dodaballapur plant. The company shared the best practices followed at their plant. Mr Selvam, Plant Head conducted the visit and spoke about the best processes followed at TAFE. He mentioned how IT has been leveraged in their digital process of information flow.

### October, 16 & 17, 2015, Training on Design of Experiments, Chennai

This two days training program on Design of Experiments (DOE) was attended by 23 delegates from 9 companies. Through this program, delegates understood a way to resolve quality problems in manufacturing and also use DOE at design stage and of product and process.

### October 28 & 29, 2015, Certificate program on VDA 6.3 process and audit training at Bill Forge Pvt. Ltd.

Over 600 companies are members of the VDA. Companies in India with German connection have to comply with VDA standards, therefore it is important for auto component companies in India to know and understand VDA. Program a mock audit was conducted at Bill Forge Plant. The mock audit concept was good for the participants to put-to use their learning and share their feedback, clarify their doubts and the challenges they faced. In all 15 participants attended this program.

### November 26, 2015, Sharing of best practices and visit to Faurecia Emission Control Technologies, Bangalore



ACMA Southern Region, Karnataka & Hosur Zone members visited Faurecia Emission Control Technologies (FECT). During the plant visit the Faurecia team showcased and explained various process in place. Few best practices followed at Faurecia were also shared during the plant visit. The managers and supervisors main focus is to ensure that these practices are followed correctly. Ten participants from ACMA member companies attended the visit.

### November 26, 2015, Training Program on Value Stream Mapping at Roots Industries India Ltd. Coimbatore



Twelve delegates attended the program from four companies. The program covered introduction to value stream mapping, plan to map current state, collect data and map future state. Through this training, delegates learnt to draft current state value stream map, review draft and identify open issues, resolve open issues and complete the current state value stream map. Apart from this, best

practices on Value stream mapping was also imparted as part of training.

### December 10, 2015, ACMA seeks Government support for flood affected companies in Tamil Nadu

ACMA organized an interactive session with the honorable Minister of MSME Thiru P. Mohan and Mr. Jagmohan Singh Raju, Principal Secretary, MSME, Government of Tamil Nadu. ACMA sought the support of the Government for the auto components industry which was badly affected due to the floods in the State. A representation was also made to the Department following the interaction. Close to 60% of the employees were believed to be affected due to the rains and flooding. In the wake of the magnitude of destruction suffered by businesses, there is an urgent need to announce a relief and rehabilitate on package for the industry, especially in the SME segments to help them repair, rehabilitate and start their operations immediately so that livelihood of thousands of employees are not adversely affected.

### December 15, 2015, Workshop on Effective Process for new Product Development, Karnataka



Mr. Satish P. S., the program conductor explained the need for new product development in any industry and more importantly in the auto sector. He emphasized that New Product Development is the key for long term sustenance of companies. Every product undergoes a life cycle and at the end, it has to be replaced by the better product as per the customer demand. Nine participants attended this workshop.

### January 4, 2016, CM invites-Pre Cursor-Invest Karnataka

Shri. Siddaramaiah, Chief Minister, Government of Karnataka invited all the members of the industry and trade bodies to the Pre cursor event for Invest in Karnataka. Minister for Large and Medium enterprises Shri. RV Deshpande welcomed all the guests and put forward various plans of the government which is working for the betterment of the industries. He sought the support of all the guests, industry members and trade bodies to make Karnataka a preferred destination for all industries. Government of Karnataka recognised ACMA as one of its Industry partners for Invest in Karnataka.

### January 8, 2016, 7th KAIZEN contest, Chennai

A record number of 98 Kaizens were presented at the 7th edition of the Kaizen Contest. The event saw over 150 participants and delegates who shared their presentations

on Kaizen highlighting the areas of productivity, cost, quality, delivery and safety.

#### **January 8 & 9, 2016, In-House training on VDA 6.3, Madurai**

ACMA Southern Region organized an in-house training on VDA 6.3 process and audit at Sundaram Brake Lining Limited, Madurai for 24 delegates. The program included key steps in product/process development, turtle diagram, project management, life cycle of a project, importance of planning of product and process development, new product progression, carrying out the product and process development, supplier management, process analysis and production, customer support, customer satisfaction and service.

#### **January 22, 2016, 1st Automotive Aftermarket Conference, Chennai**



ACMA Southern Region along with the Consumer Affairs and Anti counterfeiting Committee of ACMA organized the first ever aftermarket conference. The conference saw a mix of presentations and panel discussions with expert speakers from industry, consultancy, law firms and dealers, giving a holistic view of the aftermarket and its challenges and possible way forward. The conference deliberated upon IP protections, patents, differentiation of terminologies, steps for getting patents, enforcements, designs, benefits of registration, patents and copyrights. Over 50 delegates from member companies participated at the conference.

#### **January 25, 2016, Training Program on Value Stream Mapping, Chennai**



Fifteen delegates attended one day training program on Value Stream Mapping organized by ACMA Southern Region. The program introduced the participants to the

value stream mapping, plan to map current state, plan to collect data and plan to map future state. Through this training, delegates learnt to draft current state value stream map, review draft and identify open issues, resolve open issues and complete the current state value stream map.

#### **February 3-5, 2016, ACMA Interaction with Government of Karnataka**



To bring in the climate of investment in Karnataka, the Government of Karnataka is hosted Invest Karnataka - Global Investors Meet. The Karnataka Udyog Mitra invited Trade Bodies and Associations for their support and to promote the event.

#### **February 26, 2016, 5th SMED Competition, Bangalore**

ACMA Southern Region's 5th Single Minute Exchange of Dies (SMED) Competition, an initiative to enhance the team building and to help companies witness actual case studies from various companies and to reduce their Non-Value added activities was organized. Fourteen teams from Southern Region member companies participated, which provided a platform for teams participating to showcase their improvements done in their area of work and the efforts put to reduce the process to a single-digit changeover time along with cost savings. The event saw over 60 participants including 10 delegates.

#### **February 17, 2016, Workshop on Manufacturing Cost Estimation and Control, Karnataka**

Being competitive in the market is one of the challenge being faced by all the manufacturing industries. The companies need to find ways and means to keep costs in control. Before controlling, it is important that everyone in the company are aware of basics of manufacturing cost estimations and be aware of the available options to reduce cost. Basics, like importance of costing in manufacturing industry, depreciation, various methods of cost calculation, calculation of machine rate and target costing was explained in detail at the workshop. In all 14 participants registered for the session.

#### **February 19, 2016, Workshop on Effective Process for New Product Development, Coimbatore**

ACMA Southern Region organized a workshop on effective process for new product development at Bimetal Bearings Limited. A similar program was held in Chennai office on February 26, 2016. The workshop covered the following topics: importance of new product development, product types, why products fail?, process approach and advantages, new product development process, capturing customer requirements, capturing voice of the customer through quality function deployment, development of

breakthrough products, product life cycle development, product development key success factors and NPD best practices.

**March 16, 2016, Annual Regional Safety Convention at Honda Motorcycle & Scooters India Ltd.**

Continuing the practice of observing March as Safety month, ACMA Southern Region Karnataka & Hosur Zone, organized Annual Regional Safety Convention. The programme was hosted at the facilities of Honda Motorcycle & Scooters India Ltd (HMSI) - Narsapura. The company also showcased its safety practices during the plant visit. There was also an interactive Q&A organized at the convention. The 19 participants and the speakers from various ACMA member companies found the program an opportunity for cross learning and appreciated the initiative.

**March 18, 2016, Annual Safety Convention at India Yamaha Motor Pvt. Ltd**

The much awaited Annual Regional Safety Convention of ACMA (Southern Region) was organized at India Yamaha Motor Pvt. Ltd. The following topics were part of the workshop, importance of costing, why costing is important, depreciation, cost of long term assets, depreciation methods, cost calculations overhead method, types of costs, costs of capital, service costs, risk costs and fixed and variable costs. Illustrative examples formed part of the training, with exercises on depreciation, calculation of component price and machine hour rate and make or buy exercise. The workshop helped the participating delegates in identifying many implementable ideas within their companies.

**March 21, 2016, Interaction with President and Vice President and Shri R V Deshpande Minister for Industries (Large & Medium) & Tourism**



The leaderships of ACMA Mr Arvind Balaji, President and Mr Rattan Kapur, Vice President interacted with members of

Karnataka and Hosur Zone to share ACMA's vision and understand members concerns. Shri R V Deshpande - Minister for Industries (Large & Medium) & Tourism was invited as the chief guest for this event. Mr Ram Venkataramani, Chairman ACMA, Southern Region and Managing Director, IP Rings Ltd. welcomed the guests and highlighted the region's activities. He also sought members' inputs and feedback to improve upon the services of ACMA.

**March 22, 2016, ACMA President and Director General Interact with Members in Coimbatore**



The leadership of ACMA Mr Arvind Balaji, President and Mr. Vinnie Mehta, Director General visited Coimbatore to interact with region members. Welcoming the members Mr. Ram Venkataramani, Chairman Southern Region mentioned that the Coimbatore had become active over the past 3 years and shows active participation from member. Exclusive value added services through ACMA Centre for Technology and the UNIDO-ACMA Cluster programs, which focuses on process improvements through shop floor interventions by counsellors who are Industry experts were also mentioned.

**March 22, 2016 Annual Interaction of President and Vice President with Southern Region Members**



ACMA Sothern Region organized a meet for its member's

based in Chennai with President, Mr Arvind Balaji and Vice President, Mr Rattan Kapur ACMA. Mr. R. Kawashima, Deputy Managing Director, India Yamaha Motor Pvt. Ltd. was the Chief Guest for the session. President ACMA urged members to respond to ACMA's requests for inputs for policy recommendations and other issues from time to time. He also stressed on the message "Make Quality and Technology in India" for the membership to reorganize their efforts and work towards building IP's. Overall the interaction gave an opportunity to members to discuss and share industry success and challenges with the leadership of ACMA and OEMs including TAFE.

## WESTERN REGION

### April 7, 2015, Session on Sales Tax and VAT

The session was to improve delegates understanding on the subjects such as non-compliance by vendors, tax credit from non-genuine suppliers, VAT applicability on developing tooling for domestic/ overseas customers and many other such topics. The session was attended by 27 participants from the auto component manufacturers who requested ACMA to organize more such sessions on various finance related matters.

### April 15&16, 2015, Workshop on Process Failure Mode Effect Analysis (PFMEA)

Process Failure Mode Effect Analysis (PFMEA) is a methodology that is intended to identify risk within a process and define controls and actions to mitigate the risk. The two day workshop, attended by 20 delegates, on PFMEA was organized with an objective to focus on both, the methodology (structured PFMEA process flow) and a road map to address company culture and engineering mindset.

### April 15 & 16, 2015, Organizational Growth and Profitability through Lean strategies

The workshop was held in Ahmedabad for operations in-charge, production managers/heads, line supervisors, industrial engineers, process engineers, executives from various departments of the organization who are responsible for improving the performance of the organization. The two day workshop, attended by 24 delegates, focused on identifying and reducing waste, using lean tools for process improvements, people involvement and physical workplace improvements.



### May 13, 2015, 1st Kaizen Competition

This was first ever zonal Kaizen competition and was held exclusively for member companies based out of Aurangabad. To bring equivalence in the competition the participants were divided in two streams: engineers and non-engineers. Total 31 teams participated from leading companies based out of Aurangabad such as Varroc, Endurance, NRB, Sanjeev Auto, Hindustan Composites, Aurangabad Electricals Dhoot Transmission, Rucha Engineering etc.

### May 19 & 20, 2015, Workshop on Visual Management

Thirty two delegates attended this two day workshop. Based on a simple set of visual cues, 5S visual management helps one to quickly locate tools, materials, information and quantity limits, identify issues before they become problems and create ownership for the operators. This proven set of techniques helps one improve quality, reduce changeover time, improve safety, improve employee morale and reduce storage costs, cycle time and machine down time.

### June 16 & 17, 2015, Cost Control by Effective Stores and Inventory Management

To increase this awareness, a two day workshop was organized by ACMA. The workshop aimed to help business unit heads, plant heads, General Managers, Business Owners & Operations Manager with the techniques to bring cost of inventor down and manage the stores in a controlled environment.

The two day workshop was a class room session, coupled with exercises, video clippings and simulation game which helped to enhance participant's understanding of the subject.

### June 19, 2015 Training Program on "Enhancing Safety Performance in Industries"

The training program was held in Ahmedabad, which mainly focused on how to control and manage the untoward incidents to create safe work environment at shop floor. The training, attended by 13 delegates, was aimed for shop floor executives and first and second-line supervisors from production, operations, warehouse, and maintenance.

**July 7, 2015, SIPOC & Management systems Charts-Simplifying Complexities**

Team work and customer focus are the main ingredients for success of any business hence this workshop was aimed to help junior and mid-level employees/engineers. SIPOC is a tool used in the six sigma methodology. It is a tool typically employed at the "Define" phase of the Six Sigma DMAIC (Define, Measure, Analyse, Improve, and Control). The workshop was organised in Pune that touched upon SIPOC Diagram template, which is used by a team to identify all relevant elements of a process improvement project before work begins.

**June 8 & 9, 2015, Workshop on "Innovation led Transformation"**



The program on 'Innovation Led Transformation' is the first from ACMA Western Region where six of its member companies observe it as a tool to remain competitive. To design and develop a road map for this program ACMA (Western Region) engaged Erehwon Innovation Consulting Pvt. Ltd. as a knowledge partner. Top Leaders of all six participating companies along with their team members attended the workshop.

**July 28, 2015, Training programme on "High Equipment Effectiveness via Autonomous & Planned Maintenance"**



The objective of organizing the training, attended by 16 delegates, was to create awareness on how to prevent

equipment deterioration through correct operation and daily checks, bring equipment to its ideal state and to establish the basic conditions needed to keep equipment well maintained. The training was aimed for supervisors and managers from production, operation and maintenance.

**July 15, 2015, 10th Annual Regional Quality Circle Competition**



Quality Circle Competition has become the most popular platform to gain exposure, particularly for the operators. It also helps to motivate employees and enable team building. The 10th edition held in Pune, saw many new features. It had largest ever participation 55 teams since its debut in 2006. New awards were introduced, first three Runner-ups and also a level playing field for Non-engineers and Engineers Team. The Engineers teams were evaluated upon higher level of tools application with different weightage criteria.

**August 3, 2015, Innovation led Transformation - 3rd Follow-Up Coaching Session**

'Innovation Led Transformation' program was organised for the first time on June 8, 2015 by ACMA Western Region with its six member companies. The third follow-up coaching session in Pune covered how to work on the identified challenge. The intent of the session was cross learning and prototyping.

**August 7, 2015, Visit to MAHLE Engine Components India Pvt. Ltd., Madhya Pradesh**

This special plant tour was organized for ACMA members to witness the best manufacturing practices and advance technology. During the plant tour the members witnessed the best practices implemented such as Kaizen, safety, Poke-Yoke etc. They also noticed that MAHLE is an environment cautious company that believes in plantation. Each member of ACMA delegation also planted trees.

**August 7, 2015, Visit and Interaction with VE Commercial Vehicles Ltd., Madhya Pradesh**

This visit was organized in continuation of ACMA's efforts to have regular dialogue with the customer to understand company's growth plans and learn the issues pertaining to supply of components and the expectation from suppliers.

Fourteen member delegation visited the company.

**August 7 & 8, 2015 Workshop on "Competency mapping & documenting employee behavior and performance"**



This two-day workshop, attended by 24 delegates, was organized for HR Professionals, Line Function Managers and other executives with reporters. The workshop focused on process of competency mapping. Framework can be utilized and familiarize the participants with the process documentation of employees behaviour and performance management.

**August 20 & 21, 2015, Workshop on "Producing zero defect with MSA-SPC", Nashik**

The training workshop was aimed for Engineers/Manager from shop-floor executives, from tool room and plant heads & supervisors. The training was a class room session, coupled with exercises to enhance participant's understanding on the subject. The workshop covered: the effects of Measurement Systems Variability; Measurement Strategy & Planning; process control systems; local actions & actions on the system, effective use and benefits of control charts amongst other things.

**August 27, 2015, Visit to MAHINDRA & MAHINDRA Ltd.**

To understand the growth plans and discuss and learn the opportunities pertaining to supply of components, a visit to Mahindra & Mahindra Ltd., Mumbai was organized by Western Region. Twenty nine ACMA delegates were part of the visit.

**August 14, 2015, National Quality Circle Competition, Pune**

The 10th edition of Annual National Quality circle was a great success and a fitting close to the regional competitions held West, South and North. A 155 teams participated in the regional competition and 11 teams qualified for the national competition. Continuing the tradition, the OE customers were invited as jury to witness the problem solving ability of the component industry. The



three winning teams received participation certificates and trophies.

**September 12, 2015, 3rd KAIZEN competition, Ahmedabad**

After receiving an overwhelming response from members during past zonal competitions, ACMA Western Region decided to organize the 3rd edition of Kaizen Competition in Gujarat Zone. All leading auto component manufacturers having plants in Gujarat participated in the event. In order to provide a level playing field to the contestants, the 3rd Kaizen competition was organized in two streams i.e. Engineer and Non-Engineer. The presentations made by teams also focused the relevant streams. Total 13 case study (KAIZENS) were presented in the competition which was attended by 44 participants.

**September 11 & 12, 2015, Workshop on "Advance Geometric Dimensioning and Tolerance"**

The workshop was to enable participants to apply and interpret the concepts using functional quotation, tolerance of form, and position and help them construct a clear vision of the existing paradox within the industry. The workshop also explained what all engineering drawing can communicate. Workshop had twenty one participants.

**October 8, 2015, Knowledge Seminar on "Improving Productivity in CNC Machining"**

ACMA - IMTMA Joint Committee Task Force, organized a Knowledge Seminar on "Improving Productivity in CNC Machining". The seminar was for middle management and supervisors in the departments of production, engineering



and manufacturing. The few of the topics covered in the knowledge seminar were: Latest developments in CNC machine tools -Turning centres, VMCs and HMCs, Features for cycle time and cost reduction; case studies on automation; How to utilize full potential of the machines, Tooling selection - considerations for productivity improvement, etc. In all there were 37 delegates who attended the seminar and feedback was very encouraging.

#### **October 15, 2015, Workshop on "Business Communication & Presentation Skills"**

Business Communication is goal oriented. The rules and regulations and policies of a company have to be communicated to people within and outside the organization. Business Communication is regulated by certain rules and norms. Effective business communication helps in building goodwill of an organization. Similarly developing Presentation Skills helps in effective presentation, confident speaking in front of people, and develop the skills to engage and persuade an audience.

#### **October 19, 2015, Workshop on "Advance Product Quality Planning (APQP)", Ahmedabad**

Product quality planning is a structured method of defining and establishing the steps necessary to ensure that a product satisfies the customer. Advanced Product Quality Planning (APQP) involves 75% upfront planning and 25% implementation through production to determine customer satisfaction and continuous improvement. The workshop was aimed for team members associated with activities related to Advanced Product Quality Planning, i.e. manufacturing, engineering, sales, service, quality, etc.

#### **October 27, November 2, 2015, Workshop on "How to make your factory Lean? - Learning through Simulation Game", Pune**

The workshop was aimed for Value Stream Leaders, Department Heads, Improvement Managers, Planning Managers, Purchase Managers, Stores Managers, Industrial Engineers & Process Engineers and focused to create clear understanding on key aspects of Lean such as implementing basics of lean, Line Balancing & Flow Management and Inventory Management Practices. The program was structured through a simulation game based on complete manufacturing process from supplier to dispatch team. The game was to full fill the customer requirement in given stipulated time. There were 20 participants from different areas viz Production, Industrial Engineering, Planning & Material Handling.

#### **November 19 & 20, 2015, Workshop on "Efficient Management of utilities", Pune**

This two day workshop was for COO, Plant Head / Managers, Maintenance Head/ Departmental Head from projects, operation, maintenance, Stores & Purchase. The topics covered included efficient operation and maintenance of Pumps, Generators, Boilers, Compressors, and Water Treatment and Effluent treatment. The participants appreciated this new initiative as the topics

selected were unique and very relevant to the industry.

#### **November 29, 2015, 3rd Invitational Golf Tournament & Networking Dinner**



Like the earlier two editions, OEMs, ACMA Members, Senior Government officials, and eminent Golfers from various parts of India participated in the golf tournament organized by ACMA Western Region, Pune. In all 72 Golfers played at the tournament. In the evening prize distribution ceremony was held followed by dinner. Networking dinner saw the presence of ACMA Executive Committee members including President and Vice President, senior officials from OEMs such as Tata Motors, Mahindra & Mahindra, FIAT India and Cummins India.

#### **December 5, 2015, 1st Quality Circle Competition, Gujarat**



All leading auto component manufacturers having plants in Gujarat participated in the event. The OE Customers were invited as jury to witness the problem solving ability of the component industry. There were 13 teams who presented the case study. The presentations made by QC teams focused on reduction in rejection and scrap, safety improvement, team involvement and horizontal



deployment, process improvement, reduce cycle time, handling customer complaint.

#### **December 18, 2015, 6th Annual Regional KAIZEN Competition, Pune**

The competition saw 67 case study presentations on improvements earned by ACMA member companies in their respective plants in the Western Region. The case study presentations covered key areas of improvements such as Safety Curtain on Fastener Assembly Machines, Lubrication oil place identification on injection molding machine, Elimination of Customer complaint, increase productivity, reduction of internal PPM, P2 Pump life enhancement.

#### **December 21-22, 2015, Workshop on "Marketing & Selling skills-Level 1", Pune**

The workshop was for Sales Executives and Managers. The content of the workshop included: Fundamental principles of marketing & sales, marketing concepts and ideas. In all 19 delegates participated in two day workshop.

#### **January 5, 2016, Workshop on "Competency Mapping and Assessment", Ahmedabad**

Competency mapping is a crucial step for any organization to measure and build behavioral and functional competencies of the employees. It helps in mapping a role, identify development needs and select viable process. This enables efficiency in the area of Talent Management and Talent Development. The workshop was for HR professionals as well as the Line Managers. The workshop focused on Competency based HR practices and Designing of the competency assessment tools.

#### **February 20, 2016, Best Practice Competition in Gujarat Zone, Ahmedabad**

ACMA Member companies were invited to present the case studies on LCA and Poka-yoke implemented in the facility. The presentation made by companies focused on Safety improvement, Quality improvement, Cost reduction, productivity improvement & delivery. Continuing the tradition, the OE customers were invited as Jury to witness the case study presentation. In all 13 teams participated in the competition.

#### **February 23-25, 2016, Workshop on "Enhancing Export Capabilities through Project Management"**

ACMA Western Region along with the IPO Forum organized workshop on enhancing project management capability. This workshop is to be completed in three phases. The



workshop was for Senior Managers/ Managers from any industry interested in acquiring a professional approach to Project Management, Middle level managers, Program managers, Project Leads, Project Coordinators and Middle level managers from Manufacturing, Quality, Operations, Purchasing, Supply Chain, Maintenance, Plant managers, Production managers etc. The objectives of this workshop was to: teach fundamentals of project management, teach planning and execution of projects on time among other things.

#### **March 4, 2016, Interactive session and case study presentation on "innovation implemented and benefit accrued", Pune**



Leaders of Five ACMA Western Region companies with their team participated in the 1st batch and used "Innovation" as a tool to address challenges. ACMA Western Region engaged "Erehwon Innovation Consulting Pvt. Ltd." as a knowledge partner. The Innovation Journey was kicked off with pre-work session to uncover the dynamics of each participating company in terms of People, Process and Challenges faced. The session was attended by CEOs, COOs, Decision makers, Executives related to innovation & Technology, Operation, Quality, Production and HR.

**March 9 & 10, 2016 Interactive Session with President and Vice President**

As part of annual regional event, ACMA Western Region organized the interactive session with Mr. Arvind Balaji, President and Mr. Rattan Kapur, Vice President, ACMA on 9th & 10th March 2016 at Pune and Ahmedabad respectively. Speaking on ACMA'S goals, Mr. Balaji said based on voice of the customers, we need to focus on Quality, Innovation and Technology. So our theme for this year is 'Make Quality & Technology in India'. Mr. Balaji mentioned about exclusive 'Innovation Pavilion' at the recent Auto Expo 2016- Components Show. And apprised the members of other significant occurrences of the past year.

**March 10, 11, 2016, Work Shop on "Value Engineering", Pune**



The two day workshop was organised for Managers from areas like Purchase, Industrial Engineering, Design, Development, Planning, Production, Quality, Sales, Service and marketing. The objective of this workshop was to make participants familiar with fundamental concepts of Value Engineering methodology of using this technique through a systematic approach for better value to the customer and the least cost to the Owner. There were 21 participants in this workshop.

**March 18, 2016, Best Practices Competition, Pune**



ACMA Western Region, as a new initiative, organized Best Practices Competition combining three tools viz. Energy Conservation, LCA (Low Cost Automaton) and Poka-Yoke at the same time. The purpose of organizing the best practices competition was to create a platform that provides an opportunity to showcase the capability, share



the experience, learn from others and most important motivate the employees who have contributed in building organization by embracing best practices. The OE customers were invited as jury to witness the case study presentation from each organization in each practice. The 33 teams participated in the competition (8 under Energy Conservation, 16 under Poka-Yoke and 10 under LCA).

## COMMITTEE ACTIVITIES

The major activities undertaken by various committees of ACMA during 2015-16 are given below:

### Globalisation Committee

April 28, 2015, National conference on leveraging Mergers & Acquisitions, Gurgaon



ACMA organised a national conference on leveraging Mergers & Acquisitions to explore inorganic growth in the automation industry. The conference was inaugurated by Mr. Sunil Kant Munjal, Joint Managing Director of Hero MotoCorp and was presided over by various past presidents of ACMA.

ACMA - Grant Thornton special joint report 'Auto & Auto Components Sector Deal tracker - Providing M&A and Private Equity deal insight' was released at the event. The report summarises the current economic and political landscape of the automotive sector and gives an insight on the overall inorganic growth in the industry based on in M&A and the private equity placement space.

October 12-17, 2015, Delegation visit from Taiwan, New Delhi, Pune and Chennai

As a follow up visit to ACMA's outing to Taiwan, Ministry of Economic Affairs of Taiwan organised an Automobile Industry Delegation for Developing Technology and Business Cooperation Opportunities in New Delhi, Pune and Chennai. The delegation comprised of nine reputable Taiwan companies in automobile-related sectors. The objective of the return visit was to engage with potential Indian partners, survey domestic ecosystems and understand the investment climate and opportunities.

February 3, 2016, IPOs Suppliers Conference on "Opportunities of Global Sourcing & Challenges"



Twenty International Purchasing Organizations (IPOs) were part of the IPOs Suppliers Conference themed "Opportunities of Global Sourcing & Challenges" organized under the IPO Forum of ACMA. The conference also included a panel discussion with eminent leaders across industries, which deliberated on the need to ensure moving from an inspection based to QA based system; sharing of best practices; regular exchange of information and communication with regard to expectations and development of the supply chain. The conference was attended by over 30 delegates from 20 IPOs and over 100 suppliers.

### Supply Chain Committee

April 28 & 29, 2015, Buyers-Sellers Meet, Ahmedabad

ACMA organised its ninth Buyer-Seller meet at Ahmedabad. The two day event was to explore the automotive business opportunity in the western region of the country.

Fifty auto component manufacturers displayed their

products and technologies at the meet, while there was an overwhelming participation from various OEM delegates



from likes of Maruti Suzuki, Ford, Tata Motors and several other manufacturers. ACMA President, Mr. Ramesh Suri and Director General, Mr. Vinnie Mehta were present at the meet and spoke about the growth trend in the component industry and how it has to keep pace with the momentum the vehicle industry of India has picked up.

### IMTMA Committee

#### June 10, 2015, Italian Machine Tool Manufacturers Association Seminar, Chennai

The visiting delegation from UCIMU-SISTEMI PER PRODURRE, the Italian machine tool robots, automation and ancillary product manufacturers association were at a seminar organised by Indo Italian Chamber of Commerce and Industry. The session highlighted the challenges and opportunities the Indian industry is facing and how machine tool sector needs to collaborate for effective solutions. Twenty five delegates participated in the seminar.

### IT Committee

#### June 25, 2015, autoDX Update, Bangalore

In March 2015, ACMA had released a Systems Integration bid, which received 10 inquires. The working group, comprising of many leaders from components sector, met in June for a final round of discussion and recommendation to the governance committee.

#### June 25, 2015, OEMs meet

ACMA Southern region organised member meet for those who have recently opted to use auto DX and so far had not met the OEMs.

#### June 26, 2015, Governance meeting on autoDX, Bangalore

The fifth governance meeting took place in Bangalore. The committee meets every quarter to review the progress and way forward of its initiatives. The platform is also used to exchange the experience of the companies on autoDX, their learning along with their concerns.

#### September 30 (Chennai) & December 15, 2015 (Pune), autoDX session on Implementation



SIAM & ACMA organised a session on autoDX on implementation for the ACMA members in Chennai and Pune. OEMs and suppliers using autoDX made case study presentation to the audience who were invited to know and understand the benefits and methodology to implement autoDX. Over 100 members from 50 companies attended the session at Chennai & Pune

#### September 30 (Chennai) & December 15, 2015 (Pune), 6th & 7th Governance Committee meeting - autoDX



The Committee discussed on SAP license issue and the need to have more participation from both ACMA and SIAM members on board. The way forward for autoDx is to increase adoption and awareness through organising more interactive sessions and leverage from Auto Expo Forum. The members deliberated on the strategy to overcome the concerns and challenges. Emphasis on marketing and promoting autoDX was discussed.

#### December 20, 2015, Milestone Achievement - autoDX crosses 1 Million Transactions

This came as a great head start to the New Year when the autoDx reached 1 million transactions from the date of its launch in 2014 during the last Auto Expo till December 2015. AutoDx went through a testing phase and was live with OEMs like Hero Motocorp Ltd., Tata Motors Ltd., TVS Motor Company Pvt. Ltd. and Bajaj Auto Ltd. And also tier-1s like SSS Springs Ltd, Brakes India Ltd., Rane Group, Sundram Fasteners Ltd. & Minda Group. There are other suppliers as well who contributed to reaching the 1 million mark. A special mention to Sona Koyo Steering Systems who have gone a step ahead and have adopted autoDX for transacting with its Tier-2's as well.

### February 5, 2016, autodx Session on Implementation @The Auto Expo 2016 - The Motor Show

A session on autoDX implementation was organized by SIAM and ACMA. OEMs and suppliers using autoDX presented case studies to the audience, the benefits of autoDX. Hero Moto Corp, TVS Motors, Tata Motors, Brakes India, SSS Springs & Rane Group shared their experience on autoDX.

### February 5, 2016, 8th Governance Committee Meeting @The Auto Expo 2016- The Motor Show

The autoDX committee meets every quarter to review the performance. IBM presented the status update report and the members deliberated on how to increase awareness and acceptability. The Committee discussed on the pricing as the IBM contract with SAP is coming to an end, more active participation required from ACMA and SIAM members.

## Consumer Affairs and Anti- counterfeiting Committee

### May 5, 15 & 25, 2015 Asli Naqli Road shows - Mumbai, Patna, Bhubaneswar

Road shows have been a successful model to bring out awareness on the counterfeit product.

### June 30, 2015, IPR conference on Custom, Trade and Taxes, New Delhi



Market malpractices like grey market, parallel imports, counterfeit sales, brand imitations, dumping, under-invoicing violate the system of patents, copyrights and trademarks but are also threat to sale of genuine products along with having economic, social and moral implications. At the IPR conference various enforcement measures towards infringements were discussed.

### June 30, 2016, IPR Conference on Customs, Trade & Taxes

The Conference highlighted on the most common IPR litigations, the differences, pros and cons and similar such issues.

### August 11, 18 & 22, 2015, Asli Naqli Road show - Kanpur, Lucknow & Meerut

Road shows have been a successful model to bring out awareness on the counterfeit product.

### February 4-7, 2016, Asli - Naqli at Auto Expo 2016

The ACMA's 'Asli-Naqli' pavilion addressed the rising concerns on counterfeit products sold in the replacement market and issues concerning intellectual property.

### February 5, 2016, Media briefing on Implementing Safety and Combating Counterfeiting

ACMA along with Bloomberg news organised a panel discussion focussing on standardising products and services in the aftermarket, enforce safety standards and use of certified quality products.

## Raw Material Committee

### July 30, 2016, Meeting with Institute of Indian Foundrymen

Discussed issues faced by members on castings.

## MSME Committee

### June 26, 2015, Visit to Brose India Automotive & Indo-Schottle Auto Parts, Pune

ACMA's MSME committee organized this plant visit to help its members learn various manufacturing and operational excellence practices. Sixteen members were part of the Brose visit. The mission members were fascinated to see how the Brose was using technology to provide engineering solutions with focus on efficiency, cost reduction and safety. At Indo-Schottle visit, company employees stood out for the members as they had indomitable passion for continuous improvement with a unwavering focus on safety and customer satisfaction.

### July 14, 2015, First National KAIZEN Competition, New Delhi



Kaizen, the Japanese management concept has brought quantum benefits to the company and employees whilst simplifying processes, eliminating waste, saving costs and

other intangible benefits. In total 23 Kaizens were presented in the competition which was attended by 72 participants. There were three award categories: Quality, Cost and Productivity and nine contestants were declared winners.

#### February 20, 2016, Plant visit to Subros Ltd., NOIDA

The MSME Committee of ACMA organized a plant visit to Subros Ltd. along with an interaction session with Mr. Deepak Thukral, Vice President - SCM, Maruti Suzuki. He addressed the issues, challenges and opportunities in supplying to OEMs/Tier-1s. The plant visit and interaction session was highly appreciated by the participants.

### Sustainable Technology Development Committee

#### July 27, 2015, Affordable and Accessible Tech-Innovations, New Delhi



The National Conference on driving affordable and accessible technology innovations was jointly organised by ACMA and SIAM. The conference highlighted the impact of disruptive technologies and changes in regulatory environment on business models of the vehicle industry and the auto component manufacturers. The event was inaugurated by Mr. Ambuj Sharma, additional secretary, Minister of Heavy Industries, Government of India in presence of Senior Leadership from ACMA. In the first session, industry leaders discussed about the affordable and accessible technology that would drive the industry. The second session was on Connectivity and Electronics-Emerging differentiators.

#### February, 15, 2016, Visit to Mercedes Benz R&D Institute and Fraunhofer, Bangalore

The visit to Mercedes Benz R&D Institute, Bangalore was organised along with an interaction with Mr. Manu Saale, Managing Director, MBRDI. 20 people attended this visit. It is a captive unit of Daimler AG for strategic partnership and insourcing for engineering R&D and IT services. MBRDI has dedicated processes for fostering Innovation with a target

of 140 patents for the 2016. The delegates later visited Fraunhofer, Bangalore, which is the largest organization for applied research in Europe and has more than 66 research institutes. Fraunhofer presented case studies on the usage of magnesium for car body to achieve light weighting and powertrain light weight designs etc.

### HR, IR and Skill Development Committee

#### February 8, 2016 ACMA- KPMG Compensation & Benefits Survey 2015-16

ACMA's HR, IR & Skill Development Committee partnered with KPMG to conduct a Compensation and benefits benchmarking exercise for all its members. The survey provided comprehensive information on HR Practices and Remuneration trends in the automotive component industry. The Survey Report was released on February 8, 2016, followed by Report Reading Sessions from February 18 to 29, in groups. The survey saw participation from 63 member companies across India.

### Northern Region HR Forum

#### March 15, 2016, Gyan Darshan - Visit to Gabriel India Ltd., Gurgaon

The key takeaways from this visit were: Operating Engineer Model (OE); 12 days induction training; operator skill management system through "Skill Book" - a holistic record maintained by an operator of his overall performance of a year; Women's Forum-Bi-monthly women's committee meeting; LSIP-Large Scale Interactive Process is a powerful initiative that can help a growing organization take hold of their internal dynamics. It is one of the tools that helps an organization build a new culture.

### Southern Region HR Forum

#### October 9, 2015, Annual Regional HR Conclave of Southern Region, Chennai

The conclave re-emphasized the role of HR to enable the "Make in India" campaign a success. The conclave, through its plenary sessions, deliberated upon the role, need and efficacy requirements in competency and skill development as productivity enablers, identifying and coaching for leadership development and HR's role as a business partner. The conclave saw over 60 delegates from the membership in the south who rated the event as useful with meaningful takeaways.

### Western Region HR Forum

#### April 14, 2015, 12th ACMA Western Region HR forum meeting, Pune

The forum, attended by 32 delegates was a great opportunity to learn through experience sharing, deliberation and discussion, and to gain better

understanding on various subjects related to HR. The topics discussed at the forum were: aligning balance score card to company's vision, mission & values and performance mapping and performance optimisation.

#### July 24, 2015, 13th ACMA WR HR Forum Meeting

Cross learning through HR Forum meetings has gained momentum in the Western Region as the knowledge exchanged on various topics related to HR, IR & Skill Development during the meeting are worth applying in any organization. The meeting was hosted by Minda Stoneridge Instruments Ltd. The topics discussed at the forum were, facilitation techniques and emotional intelligence in work place.

#### January 13, 2016, 7th Annual HR Summit, Pune

7th Annual HR Summit of ACMA Western Region focused on the theme 'Transformation to Consolidation: A Way Forward Through HRM'. The Summit was well attended by HR professionals, industry leaders and decision makers. The eminent speakers from the Industry, Academia and IR participated to discuss the role of Human Resource and people management in the auto component industry. The summit saw 5 technical sessions covering the following key areas of the HR/IR by the eminent professionals: Business Preparedness · HR Perspective; Changing Customer Expectation; Changing Pattern of Industrial Relation; HR dilemma and HR Analytics for Business Transformation.

## International Events

#### April 6-10, 2015, Make in India Seminar and part of India delegation to Taiwan



ACMA was invited to join the Indian delegation to Taiwan and 'Make in India' seminar organized by Department of Industrial Policy and Promotion. The purpose of the Indian delegation visit was to create awareness among the Taiwanese auto-part manufacturers about the investment opportunities in India. The delegation interacted with Taiwanese manufacturers and various Industry bodies and associations followed by a visit to Taipei International Auto Parts & Accessories show. More than 80 participants were part the seminar that focused on the investment opportunities in the Indian auto-parts and auto-electronics sector.

#### April 9-12, 2015, Automechanika Istanbul



ACMA participated in one of the prime automotive trade shows, Automechanika Istanbul, with its 10 members who displayed their products at the event. ACMA joint stand received buyers from OE and aftermarket segments from Turkey, Western and Eastern Europe, CIS, Egypt, South Africa, US, Middle East and Iran. Automechanika Istanbul plays a pivotal role in India's global expansion plan for its auto component makers, many Indian OEMs have also set up offices in Turkey seeing the great potential in the market.

#### June 9-10, 2015, Global Automotive Forum, China



GAF 2015 organized its sixth annual meeting at Chongqing Yuelai International Convention Center, China. The theme of the summit was "Mega change: Reshaping an Industry". For the first time ACMA was invited by China Council for the Promotion of International Trade at the forum to address the conference on Role of Auto Suppliers: building synergy with OEMs. The summit observed participation from 86 industry experts and luminaries speaking on 16 different topics ranging from the role of auto suppliers, globalization and how to integrate China's automotive industry into that of the world. ACMA was also offered an information booth to represent the Indian auto industry. ACMA's participation helped in getting networking with some of the leading Chinese OEMs, Tier 1s as well as promoting industry capabilities with the stakeholders in the Chinese auto industry.

#### July 20-23, 2015, CEO's mission to Taiwan



ACMA organised, CEO's mission to Taiwan to strengthen the



existing linkages as well as to bring new opportunities to the auto component industry of India. The delegation comprised of 8 members, led by Mr. Vinnie Mehta, Director General, ACMA. The broad objectives of the mission were to engage with the Taiwanese companies from the relevant fields, visit the auto-component manufacturers, R&D Institutions and Technology parks, explore Taiwanese partners for investing in Indian market, and visit a vehicle manufacturer (Auto OEM), tier component supplier. The delegates got a chance to interact with several companies in manufacturing of auto electronic components.

Apart from the visit ACMA along with India-Taipei Association organised "India-Taiwan Auto Industry meet 2015: Make in India- Auto parts/Auto Electronics" on July 23, 2015. The seminar witnessed over 100 attendees from the industry.

**August 7, 2015, Buyers-Sellers Meet, Myanmar**



ACMA with the support of Department of Commerce, Government of India organized buyers-sellers meet (BSM) in Yangon. The objective of organising BSM was to showcase the growing capabilities of Indian Automotive Component Industry and to engage with stakeholders from Myanmar Automotive Industry and to strengthen trade ties between both the countries. Eighteen ACMA members participated at the event to explore the opportunity. The event provided the opportunity to the component manufacturers to gather a deeper understanding on the industry in Myanmar.

**September 6, 7, 2015, Buyers-Sellers Meet, Bangladesh**

First ever Buyer-Seller meet was organised in Bangladesh, with the support of Ministry of Commerce & Industry, Government of India and Indian High Commission which was followed by an aftermarket visit. Twenty one ACMA member companies participated to showcase their products at BSM Dhaka. The show received an overwhelming response with 150 visitors witnessing the show. The majority of the buyers came from Jessore, a key market of two wheelers and Chittagong.

**October 8, 2015, Buyer Sellers Meet in Almaty, Kazakhstan**



ACMA with the support of Ministry of Commerce and Industry in India and Indian Embassy in Kazakhstan organized the first ever Buyers Sellers Meet at Kazakhstan followed by an Aftermarket visit in Almaty.

The Buyers Sellers Meet in Almaty was inaugurated by Mr. Harsh Kumar Jain, Ambassador, Embassy of India Astana, Kazakhstan. Twenty five ACMA member companies along with their group companies participated to showcase their products at the Buyers Sellers Meet. The exhibitors received an overwhelming response from the Buyers as the footfall touched approx. 100 buyers.

**October 12 and 14, 2015, Tech Expo with AVTOVAZ |India-Russia supplier meet**



ACMA organised its thirds Tech Expo with support from Ministry of Commerce, Government of India. The Tech Expo was organised with AVTOVAZ on October 12, followed by India-Russia supplier meet and visit to GAZ on October 14. The broad objective of the events was to showcase the



growing capabilities of the Indian Component Industry as well as to further strengthen our relationship and enhance business opportunities with the OEMs. Twenty five member companies and their group companies with thirty delegates travelled together for this entire event. More than 500 visitors from all departments of purchasing attended the Tech Expo in AVTOVAZ.

**October 15, 2015, ACMA Conference: "Expanding Horizon-Leveraging Business Opportunities in Latin America"**



ACMA engaged with Frost and Sullivan to study the market dimensions and addressable opportunities for its member companies with a focus on Latin America. This half day conference helped participants with concrete actionable guidelines along with the focus on three countries: Chile, Columbia and Peru. These countries were shortlisted basis the analysis confirming the significant import potential for the aftermarket components. This conference also aimed at evaluating export opportunities for ACMA members and Indian component suppliers into Latin America. Key areas of concerns such as: ease of doing business in LATAM and identification of priority areas on which the members can act upon, were addressed.

#### October 27, 29, 2015, Business Matchmaking Expo in Columbia and Peru



This was the first ever initiative by ACMA in these two countries to showcase the growing capabilities of the Indian auto component industry and develop strong business linkages. This initiative of ACMA was supported by Ministry of Commerce & Industry, Government of India, The Indian Embassy in Bogota and Lima. The event provided an adequate platform for the 15 visiting Indian auto component manufacturers to showcase their capabilities and wide range of products to 23 importers in Bogota and 31 importers in Lima. ACMA had also invited importers from Ecuador, Chile and Brazil. General Motors also visited the Expo in Lima.

#### November 3- 5, AAPEX 2015, Las Vegas, USA



ACMA participated in Automotive Aftermarket Products Expo (AAPEX), 2015 held at Las Vegas - the premier global event representing the USD 477 billion global aftermarket auto parts industry, hosted in Sands Expo. With over 2,200 automotive aftermarket manufacturers and suppliers showcasing innovative products, services and technologies to potential buyers it was an ideal platform to meet new business partners. Like last year, the event witnessed participation from many countries like Mexico, Thailand, Spain, China, Korea, Taiwan, Pakistan, Germany and Italy.

#### November 16-19, 10th International Auto Parts Fair, 2015, Iran

In all 22 countries participated in the fair. The major country pavilions were from China, Germany, India, Korea and Taiwan. On the first day of the exhibition ACMA stand was inaugurated by Mr. Saurabh Kumar, Indian Ambassador to Iran. ACMA stand was visited by many OEMs, Tier 1, large distributors, dealers and agents. The business visitors at the exhibition were mainly from Iran and Middle East from OEM, Tier 1 and Aftermarket.

#### November 16 - 19, 2015, India Auto Parts Procurement Exhibition, Japan



This was the first ever India Auto Parts Business Matchmaking show organised by ACMA with support from Ministry of Commerce and Industry India. Forty five reputed auto component companies from India showcased their growing capabilities at the event held in the two cities Tokyo (Nov 16, 17) and Nagoya (Nov 18, 19). The four day event attracted 650 visitors from cross-section of companies including Auto parts manufacturers, Trading companies, Research institutes and other stakeholders from the industry. India Japan Cooperation meet were also held at both cities. The seminars which were co-organised By JETRO and supported by the Indian Embassy in Japan, saw participation from over 150 delegates.

#### December 2-5, 2015, Automechanika Shanghai 2015, China

ACMA participated in Automechanika Shanghai - the world's second largest trade fair for parts, accessories, equipment and services. The show was spread in an area of 2,80,000 sq mtrs housed 5500 exhibitors in the National Exhibition Convention Centre, Shanghai. At ACMA pavilion 12 exhibitors showcased their products. Many international visitors showed interest in the made in India products.

**January 26-29, Automechanika Jeddah - 2016, Saudi Arabia**

Over 170 exhibitors from 27 countries participated at the event. With the steady growth of the automotive manufacturing and aftermarket industry in the region, Automechanika Jeddah has become an ideal platform to connect international manufacturers and suppliers with regional distributors and buyers. The enquiries generated were mainly from stockists, dealers & distributors.



**February 29-March 3, 2016, EQUIP Auto Show Algiers, Algeria**



ACMA in its continuing efforts to explore new markets for its members, participated for the first time in the Equip Auto Show Algeria. Overall eleven exhibitors from India, participated in the show. At the exhibition over 300 exhibitors from 20 countries participated with 5 official national pavilions. Sectors represented in the show comprised of Automotive, Spare Parts, Garage Equipment, Lubricants, Car Wash and Paint. The business enquiries generated during the show were mainly from importers and dealers. Aftermarket orders of USD 0.25 Million were booked and business enquiries amounting to USD 0.82 Million were generated.

**February 29-March 24, 2016, ACMA Aerospace Mission to UK**



To understand the dynamics of a well-developed aerospace industry, ACMA organized its first mission to U.K. with the support of UK Trade and Investment (UKTI) from February 29 to March 4, 2016. The delegation of 19 members from 18 companies was led by Mr. F. R. Singhvi, Chairman, ADR Committee of ACMA.

The broad objectives of the mission was:

- To understand the dynamics of U.K.'s Aerospace industry
- Witness best manufacturing practices as well as visit Centres of Excellence for learning & best practices
- Explore Business Opportunities, Jvs/ Collaborations/

Strategic alliances with Aerospace OEMs, Tier 1 and Tier 2s.

**March 28 & 29, 2016, Buyers-Sellers Meet in Colombo, Sri Lanka**



ACMA with the support of Ministry of Commerce and Industry in India, Indian High Commission in Sri Lanka, Sri Lanka Automotive Component Manufacturers Association & Lanka Motor Spare Parts Dealers Association jointly organized the Buyers Sellers Meet on March 29, 2016. The exhibitors got an overwhelming response from the Buyers too as the foot fall of the Automotive companies touched approx. 70 buyers which was extremely encouraging. Eleven ACMA member companies participated to showcase their products at the BS

**ACMA at the Automechanika Dubai, June 2-14, 2015**



The 14th edition of Automechanika Dubai 2015 featured 1,889 exhibitors from 59 countries and welcomed more than 30,000 trade visitors from 130 countries. The ACMA Pavilion was inaugurated by Mr. Anurag Bhushan, Consul General Consulate General of India in Dubai. During the show participants received business enquiries amounting USD 71.5 million out of which one participant received confirmed order of USD 1 million.

**ACMA's Buyers - Sellers meet in Cairo, June 7 - 8, 2015**

ACMA, with the support of the Ministry of Commerce & Industry, the Government of India, the Indian Embassy Cairo, the Egyptian Auto Feeders Association (EAFA) and the Egyptian Junior Business Association (EJB) organised the first-ever, two-day buyers-sellers meet in Cairo.



# ACMA CENTRE FOR TECHNOLOGY (ACT)

## INTRODUCTION

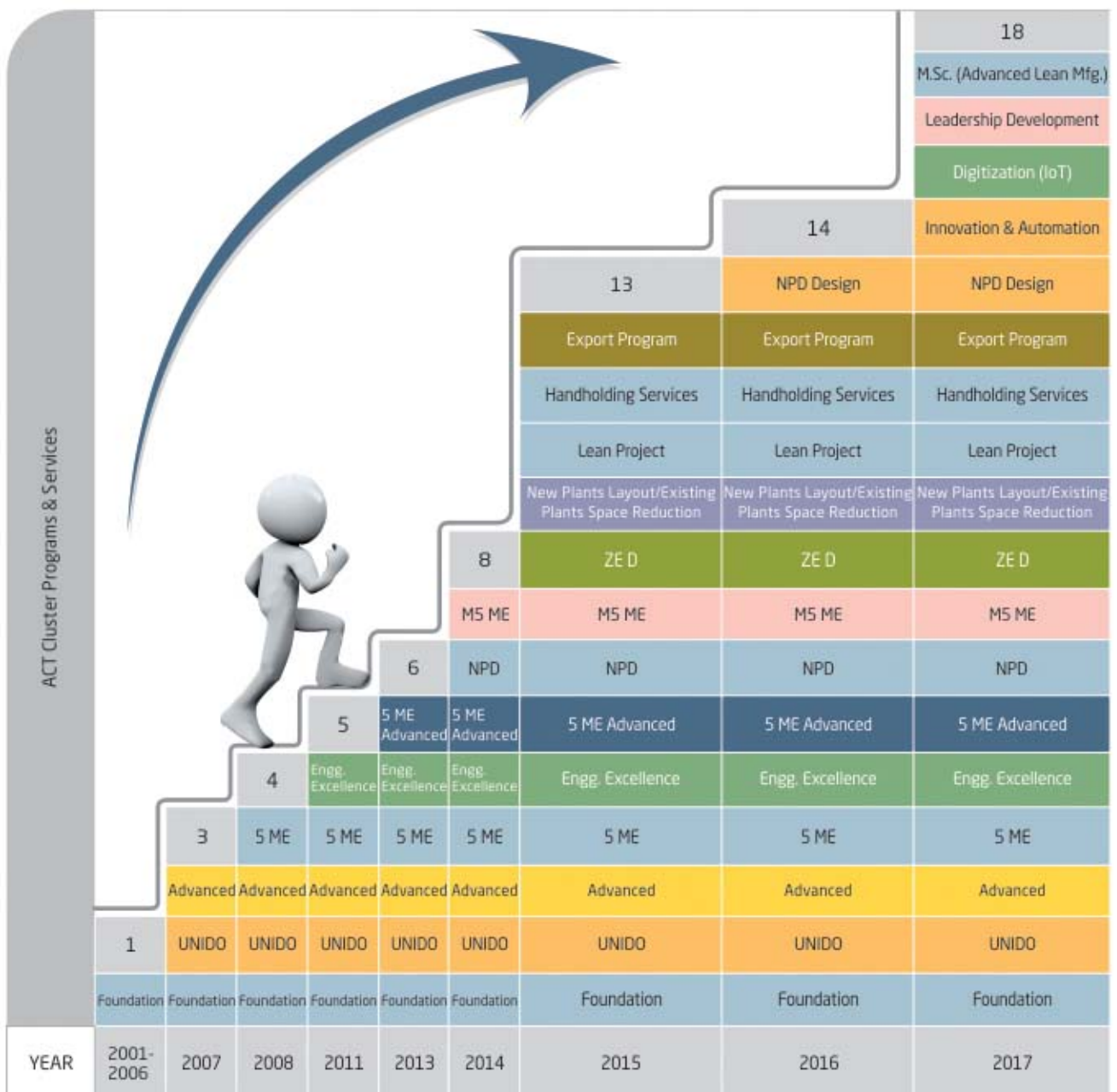
The ACMA Centre for Technology (ACT) was setup in 1989 with a mandate to provide technical support and service to ACMA members; one of the major objectives of ACT is to transform operations of the Indian auto-component industry to global standards.

In the earlier phase much of the activities of ACT were centred on improving quality across organisations, today, there is an increased stress on promoting technology

development and deploy world class new product development processes and engineering skills amongst members.

## ACTIVITY HIGHLIGHTS: 2015-16

ACT programmes have covered 25% of ACMA membership covering 600 plants. The details of the on-going cluster programmes and services from year 2000 are given below:



**Presently Running / Proposed Clusters are as follows :**

S.No	Cluster	Type	Regional, National R=Regular, P=Premium	Duration in Months
1	ACMA UNIDO Cluster (For Tier 1 / 2 suppliers < 20 Cr Turnover)	QCDS	Regional (R)	12
2	ACT Export Cluster	Export	National (R)	12
3	ACT Foundation Cluster	Building Culture of Improvements	Regional (R)	24
4	ACT Advance Cluster	Lean Resources	Regional (R)	24
5	ACT Engineering Excellence Cluster	Lean Machines/Tooling	National (P)	24
6	ACT New Product Development Cluster	NPD Process	National (P)	24
7	ACT New Product Design Cluster	NPD Design	National (P)	24
8	ACT ZED (Zero Defect & Zero Effect) Cluster	Quality-Product & Material Handling	National (P)	24
9	ACT Innovation & Automation Cluster	Innovations to create extremely efficient resources	National (P)	24
10	ACT Digitization Cluster	IoT to connect Human & Machines	National (P)	24
11	ACT Leadership Development Cluster	Mentoring CEOs	National (P)	24
12	ACT M.Sc. in Advanced Lean Mfg (INDIA-UK)	Building Competencies in-house	National (P)	36

**\*Investment mentioned is for ACMA Members excluding applicable taxes (Non Members will be charged 10% extra)**

**No. of Plants involved in clusters:**

Cluster Programs	Companies undergoing current Clusters	Next Cluster available from
Tier 2 / 3 UNIDO Program	230	AUG - 16
Foundation	24	SEP - 16
Advance	24	DEC - 16
Engineering Excellence	08	OCT - 17
NPD Foundation	06	DEP - 16
Zero Defect & Zero Effect (ZED)	07	OCT - 17
Expert VDA 6.3	03	MAR - 17
<b>Total Companies</b>	<b>302</b>	

**Improvement in ACMA Cluster programs:**

S.No.	Parameters	Overall Improvements
1	Customer Quality (PPM Reduction)	90% / 100%
2	In-House Rejection (PPM Reduction)	50-60% / 90%
3	Inventory Turns (Achievement)	25 to 100 / 200+
4	Productivity Perman	Doubled / 10x
5	Safety (Accident Free Days)	>250 / >1000 days
6	Breakdowns (Reductions)	80% / Zero
7	Space Saving	30 to 50% / 60%
8	Lead Time Reduction	30 to 50% / 80%
9	Containerization	60 to 70% / 100%
10	Manufacturing Cost (Reduction)	20% / >20%

**Launch of Third Engineering Excellence Cluster, 29th Sep 2015**

The third engineering Excellence Cluster was launched at Chennai with 8 participating companies.



**Launch of First ZED (Zero Defect & Zero Effect) Cluster, 29th Sep 2015**

The first ACMA-CII Zero effect & Zero defect Cluster was launched at Chennai with 7 participating companies.



**Launch of Foundation 9 & Advance 6 & 7 Cluster, 7th Dec 2015**

The ninth Foundation and sixth and seventh advance cluster were launched at Delhi with 8, 6 and 4 participating companies respectively.



**Launch of First Export Cluster, 13th April 2016**

The first export cluster was launched at New Delhi with 3 participating companies.



**Launch of First OEM Cluster, 22nd April 2016**

The first OEM cluster with Force Motors Ltd was launched at their Pithampur plant. This includes 2 foundation clusters and 1 advance cluster.



**Launch of ACMA-GIZ-TERI One Year Programme on Energy Efficiency, 25th April 2016**

This programme was launched with 5 companies participating in Delhi NCR.



# YOUNG BUSINESS LEADERS' FORUM (YBLF)

## INTRODUCTION

YBLF comprises young, second and third generation entrepreneurs, between the age of 25-40, many of whom are an integral part of the next phase of leadership for the auto-component industry in India. The forum comprises of over 180 members, keen to share and learn together, to enhance the business confidence and acquire leadership skills required to face the emerging challenges in the industry.

The forum is still at an early stage of development and efforts are continuously to realign organization systems and processes with changing objectives. In the process, YBLF has been making all efforts to bring about a transition and succession planning, garner greater levels of competitiveness and bring about entrepreneurship development.

## ACTIVITY HIGHLIGHTS: 2015-16

### MAY 2015

The YBLF members visited the Southern Region to interact with Mr. C. Narasimhan

To understand How to build & achieve organizational excellence in Manufacturing; Engineering & Product Development and Indian Production System - Essentially how to adapt to Toyota Production System (TPS) practices in the Indian context given the local constraints. The members also had the opportunity to visit WABCO and IM Gears Pvt. Ltd. They interact with Mr. P. Kaniappan, Managing Director, WABCO India Ltd and Mr. G. V. APPA RAO, VP-Operations, IM Gears Pvt. Ltd.

### JULY 2015

Panel Discussion and interactive session with Founder members and Past National Coordinators of YBLF, in Delhi



At the session eminent speakers from the industry shared their views and thoughts about YBLF, journey in the auto industry, key learnings and do's and don'ts. A panel discussion on the importance of succession planning, lean manufacturing, collaborator/customer relationships, after-market, and looking beyond automotive diversifications, which was moderated by Mr. Sanjay Labroo, Chief Mentor, YBLF and Managing Director & CEO, Asahi India Glass Ltd.

### AUGUST 2015

Interactive session on dynamics of Mergers and Acquisitions



Participants learnt about cultural interpretations, strategy definition, team building, knowledge transfer, supply chain consolidation, synergize business across geographic boundary, technology access, new markets, ways to eliminate competition and challenges faced.

### OCTOBER 2015

Visit to Bosch India, Bangalore

The visiting members interacted with professionals from Bosch India to understand their business sectors, business acquisition, financials and R&D facility. The delegation also visited Bosch Vocational Centre (BVC), the training wing of



become self-reliant and responsible associates.

An interactive session on New Business Ventures provided participants with an insights into angel investing, auto sector disruptions, and case studies on few start up ventures.

## DECEMBER 2015

### Training session on 'Leadership Development'

Professor Vidyanand Jha from IIM Calcutta took the session on Leadership development that focused on improving leadership competencies to help the aspirants in becoming an effective business leader.

## JANUARY 2016

Interactive Session with Mr Hemant Sikka, Executive Vice President, CPO, Mahindra-Automotive and Farm sectors



Automotive and Farm Sector, interacted with the visiting YBLF delegates, providing insights into Mahindra and its business and its expectations from supplier community.

The YBLF members also interacted with Mr. R. Haresh, MD, TV Sundaram Iyengar & Sons Pvt Ltd. on Dynamics of Family Business.

## MARCH 2016

### Visit to Pantnagar plants of Ashok Leyland and Lumax Industries

The plant visit to Ashok Leyland and Lumax industries was organised to understand their future strategy for commercial vehicles and TPM Journey & Improvements done at their facilities respectively. The coordinator at the Ashok Leyland facility explained unique aspects of the facility which is a zero discharge plant where effluents are treated and recycled water is used for watering the plants around the factory. He also briefed about the BLESSING Scheme (Building Leaders of Excellence for Social Sustainability through Inspiring & Nurturing Gennext) where students who have completed Standard XII are selected from the neighbourhood and undergo training and learning by experienced faculty.

While at the Lumax industries participants took this opportunity to learn the development of TPM and TQM activities that leads to shop floor effectiveness.





## ACMA PUBLICATIONS 2015-16



### ACMA regularly publishes the following newsletters:

- Auto News, a bi-monthly journal that gives its readers an account of activities of the association and its members. The magazine also keeps its readers updated on key market trends, news and prevalent industry trends.
- ACT Now, the tri-annual newsletter from the ACMA Centre for Technology (ACT) shares with its readers success stories in the automotive industry in Quality and Technology, best shop-floor practices as also updates ACMA Cluster Programs, Automotive Standards, ACMA Awards, etc.

### That apart, other notable ACMA publications in 2015-16 included the following:

- ACMA released the 31st Edition of Buyers Guide and the Source India CD. Buyers Guide and the Source India CD (Soft version of ACMA Members' Directory - Buyers Guide) are the only credible source of information on the Indian auto component industry and are much sought after by OEMs, dealers, distributors and government agencies, nationally and internationally.
- The joint ACMA-McKinsey study titled 'Make in India - Making it Happen' was released at the 55th Annual Session of ACMA in September 2015. The

study highlighted the need for concerted action from auto component manufacturers, OEMs, automotive value-chain partners and policy makers, in order to establish India as a global manufacturing and export hub. The study also highlighted that in order to achieve the targets for the auto component industry mentioned in Automotive Mission Plan 2026, turnover of USD 200 billion in revenue, USD 70-80 billion in exports and contribution of 10 percent to India's manufacturing GDP, the industry needs to attract an investments of USD 25-30 billion over the next decade, ensure skill development of the existing talent pool, hand hold the tier 2s and tier 3s, increase individual company's profitability and strengthen India's competitiveness as an investment destination for manufacturing by improving ease of doing business.

- ACMA and KPMG joint report on 'Aerospace and Defence sector diversification' highlights how the Indian Defence and Aerospace sector is fast emerging as the sunrise sector and will take the centre stage in government's 'Make in India' drive. The government's push for indigenisation in defence and growing interest from global commercial aerospace players to source from Indian suppliers, have opened up supply chain opportunities for Indian component industry. The report captures the sector's landscape, opportunities, challenges and outlines the roadmap for the ACMA members who are aspiring to be a part of the sector's value chain.

## PEOPLE AT ACMA

### Past Presidents

Dr. Pranlal Patel (Late)	1959-1966	Dr. Surinder Kapur (Late)	1991-1992
Mr. M.K. Raju (Late)	1966-1968	Mr. S. Viji	1992-1994
Mr. W.N. Talwar (Late)	1968-1970	Mr. D.K. Jain	1994-1996
Mr. P.V. Shah (Late)	1970-1971	Mr. K. Mahesh	1996-1998
Mrs. Sharayu Daftary	1971-1972	Mr. Dinesh Munot	1998-1999
Mr. M.S. Shastri (Late)	1972-1973	Mr. V.K. Mehta	1999-2000
Mr. D.R. Sondhi (Late)	1973-1974	Mr. L. Ganesh	2000-2001
Mr. V.R. Sivaraman (Late)	1974-1975	Mr. K. Kejriwal	2001-2002
Mr. M.K. Jhawar (Late)	1975-1976	Mr. Deep Kapuria	2002-2003
Mr. Harjan Singh (Late)	1976-1977	Mr. K.V. Shetty (Late)	2003-2004
Mr. S. Muthukrishnan (Late)	1977-1978	Mr. Deep Kapuria	2004-2005
Mr. R. Bhandari	1978-1979	Mr. A.K. Taneja	2005-2006
Mr. N. Venkataraman (Late)	1979-1980	Mr. Raghu Mody	2006-2007
Mr. V. Chidambaram (Late)	1980-1981	Mr. Sanjay Labroo	2007-2008
Dr. Abhay N. Firodia	1981-1982	Mr. J. S. Chopra (Late)	2008-2009
Mr. Suresh Krishna	1982-1984	Mr. Jayant Davar	2009-2010
Mr. Pran Talwar (Late)	1984-1986	Mr. Srivats Ram	2010-2011
Mr. L. Lakshman	1989-1987	Mr. Arvind Kapur	2011-2012
Mr. Amar Singh	1987-1989	Mr. Surinder Kanwar	2012-2013
Mr. T.K. Balaji	1989-1991	Mr. Harish Lakshman	2013-2014
		Mr. Ramesh Suri	2014-2015

### Executive Committee

President	Vice President	Immediate Past President
Mr. Arvind Balaji	Mr. Rattan Kapur	Mr. Ramesh Suri
Lucas TVS Ltd.	Mark Exhaust Systems Ltd.	Subros Ltd.

## Elected Members

Member	Company
Mr. Beni Daga	Baynee Industries
Mr. Soumitra Bhattacharya	Bosch Ltd.
Mr. Sriram Viji	Brakes India Pvt. Ltd.
Mr. Ranjot Singh	Emdet Jamshedpur Pvt. Ltd.
Ms. Piloo C Aga	GoldSeal-SaarGummi India Pvt. Ltd.
Mr. Pranav Kapuria	Hi-Tech Gears Ltd.
Dr. Alka Kaul	Horizon Industrial Products Pvt. Ltd.
Mr. S.K. Arya	Jay Bharat Maruti Ltd.
Mr. Piyush Munot	KCTR Varsha Automotive Pvt. Ltd.
Mr. S. Ganesh	Liners India Ltd.
Mr. Nirmal K. Minda	Minda Industries Ltd.
Ms. Harshbeena S. Zaveri	NRB Bearings Ltd.
Mr. Suman Kant Munjal	Rockman Industries Ltd.
Mr. F.R. Singhvi	Sansera Engineering Pvt. Ltd.
Mr Ravi Machani	Stumpp Schuele & Somappa Springs Pvt. Ltd.
Ms. Shradha Suri Marwah	Subros Ltd.
Mr. C.N. Prasad	Sundaram - Clayton Ltd.
Mr. Arvind Goel	TATA AutoComp Systems Ltd.
Mr. Jinendra Munot	ZF Steering Gear (India) Ltd.

## Co-opted Members

Member	Company
Mr. Deepak Chopra	Anand Automotive Pvt. Ltd.
Mr. Amit Kalyani	Bharat Forge Ltd.
Mr. Upkar Singh Ahuja	New Swan Autocomp Pvt. Ltd.
Mr. Harish K. Sheth	Setco Automotive Ltd.
Mr. Sunjay Kapur	Sona Koyo Steering Systems Ltd.
Mr. Jagdeep Singh Rangar	Stork Rubber Products Pvt. Ltd.
Mr. S.J. Taparua	The Supreme Industries Ltd.

## Special Invitees

Member	Company
Mr. Rajeev R. Panse	Autocomp Corporation Panse Pvt. Ltd.
Mr. Claude d'Gama	Continental Automotive Components (India) Pvt. Ltd.
Mr. Anurang Jain	Endurance Technologies Pvt. Ltd.
Mr. Vijay B Pusalkar	Indo Schottle Auto Parts Pvt. Ltd.
Mr. Randeep Jauhar	Jamna Auto Industries Ltd.
Mr. Mayank Kejriwal	Kiswok Industries Pvt. Ltd.
Mr. J. Sridhar	Magal Engg. Tech. Pvt. Ltd.
Ms. Shuba Kumar	Natesan Synchrocones Pvt. Ltd.
Mr. Rohit Saboo	National Engineering Industries Ltd.
Mr. Ajay Kumar Jain	PPAP Automotive Ltd.
Mr. Pravin Malhotra	Nipman Fastener Industries Pvt. Ltd.
Mr. Vinay Lakshman	Rana Brake Lining Ltd.
Mr. Nishant Behera	RSB Transmissions (I) Ltd.
Mr. Jaishankar Unnithan	Sankar Sealing Systems Pvt. Ltd.
Ms. Arathi Krishna	Sundaram Fasteners Ltd.
Mr. Umesh Talwar	Talbro's Automotive Components Ltd.
Mr. Anmol Jain	Lumax Auto Technologies Ltd.

## Regional Chairpersons

Member	Company
<b>EASTERN REGION</b> - Mr. Killol Kamani	Samarth Engineering Co. Pvt. Ltd.
<b>NORTHERN REGION</b> - Mr. Sunil Arora	Abilities India Pistons & Rings Ltd.
<b>SOUTHERN REGION</b> - Mr. A Venkataramani	India Pistons Ltd.
<b>WESTERN REGION</b> - Mr. Kirti Rathod	Delux Bearings Pvt. Ltd.

## Deputy Regional Chairpersons

Member	Company
<b>EASTERN REGION</b> - Mr. Sanjay Sabherwal	Metaldyne Industries Ltd.
<b>NORTHERN REGION</b> - Mr. Deepak Jain	Lumax Industries Ltd.
<b>SOUTHERN REGION</b> - Mr. P. Kaniappan	WABCO India Ltd.
<b>WESTERN REGION</b> - Mr. Piyush I. Tamboli	Investment & Precision Castings

## Zonal Co-ordinators

### Eastern Region

Member	Zone	Company Name
Mr. Ranjot Singh	Jamshedpur	Emdet Jamshedpur Pvt Ltd
Mr. Mayank Kejriwal	Kolkata	Kiswok Industries Pvt Ltd

### Northern Region

Member	Zone	Company Name
Mr. Sanjay Malhotra	Gurgaon & Rajasthan	Jumps Auto Industries Ltd
Mr. Rajesh Jain	Rohtak	Lakshmi Precision Screws Ltd
Mr. Sheetal Dhawan	Uttrakhand	Minda Industries Ltd
Mr. US Ahuja	Punjab & Chandigarh	New Swan Enterprises
Mr. V K Jayaswal	Uttar Pradesh	Shriram Pistons & Rings Ltd.
Mr. Satish Garg	Faridabad	Sadhu Forgings Ltd

### Southern Region

Member	Zone	Company Name
Mr. KN Prasad	Karnataka & Hosur	Toyota Kirloskar Auto Parts Pvt Ltd
Mr. S Ganesh	Andhra Pradesh	Liners India Ltd
Mr. J Sridhar	Chennai	Magal Engg Tech Pvt Ltd
Mr. S. Narayanan	Coimbatore	Bimetal Bearings Ltd.

### Western Region

Member	Zone	Company Name
Mr. Devendra Jain	Pithampur/Dewas	Porwal Auto Components Ltd.
Mr. Rajeev Panse	Pune	Autocomp Corporation Panse Pvt. Ltd.
Mr. Piyush I Tamboli	Gujrat	Investment & Precision Castings Ltd
Mr. Vijay Menon	Kolhapur/Satara	Menon and Menon Ltd.
Mr. Balbir Singh Chhabra	Nashik	Right Tight Fastners Pvt. Ltd.
Mr. Pawan Choudhary	Aurangabad	Hindustan Composites Ltd.

## WORKFORCE 2015-16

Head Office	Act	South
Abhishek Chopra	Aniket Khasnis	Anil Kumar Unni
Amit Mukherjee	Arun V. Bage	G Mani
Anjali Nair	Dinesh A. Vedpathak	Priya Sriram
Anupam Kaushik	Jitender Rana	R. Hariram
Ashok Kumar	Binny Tomy	R. Raja Shekhar
Ashwani Kumar	Pragya Srivastava	Neeraja S. Rao
Chandu Chaudhary	Atul Kr Gupta	
Debasish Maity	Mahesh Gupta	West
Deepak Rajput	Sunil Mutha	Ashwani Anupam Kulkarni
Ecktta	Vishal Saxena	Ashwani Jotshi
Harish Kapoor	Sakshi S. Karkamkar	Jeetendra Kumar Singh
Harkaran Malhotra	Sapana Milind Baravkar	Lincy Varghese
Lokesh Raina	V K Sharma	Sudesh Janardhan Sutar
Monika S. Handa	East	Suhas Appa Pandave
Niladri Mallick	Rahul Kumar	Vijith Vijayan Nair
Pooja Sharma	Vadivelan Gounder	
Prem Kumar	Yogita Satpathy	
Rajat Gaur	North	
Rajat Puri	Hansraj Sharma	
Rajeshwar Rai	Jairaj Kumar	
Rupender Kaushik	Mayank Nigam	
Sapna Vijn	Meenakshi Narayanan	
Seema Babal	Deepti Panikker	
Sheetal Gupta		
Subhag Naqvi		
Sushil Rajput		
Vijay Kanojia		
Vikram Saigal		
Vinnie Mehta		

# List of Members

## A

A. G. Industries Pvt. Ltd.  
A. Raymond Fasteners India Pvt. Ltd.  
Aar Aar Technoplast Pvt. Ltd.  
Aavran  
ABC Bearings Ltd.  
Abhijeet Plastics India Pvt. Ltd. Unit III  
Abhijeet Techno-Plast (I) Pvt. Ltd.  
Abilities India Pistons & Rings Ltd.  
Accurate Products Corporation Pvt. Ltd.  
Ace International  
Acey Engineering Pvt. Ltd.  
Aditya Auto Products & Engineering (I) Pvt. Ltd.  
Admach Auto India Ltd.  
Advance Forgings Pvt. Ltd.  
Advik Hi-Tech Pvt. Ltd.  
Aequs Automotive Pvt. Ltd.  
Agrasen Engineering Industries Ltd.  
Agrim Components Pvt. Ltd.  
Aisin Automotive Karnataka Pvt. Ltd.  
Akal Spring Ltd.  
ALF Engineering Pvt. Ltd.  
Alfa Flexitubes Pvt. Ltd.  
Alicon Castalloy Limited  
All India Rubber Industries Association  
Allena Auto Industries Pvt. Ltd.  
Allevard IAI Suspensions Pvt. Ltd.  
Allied Autotech International Pvt. Ltd.  
Allied Nippon Ltd.  
Almighty Auto Ancillary Pvt. Ltd.  
ALP Nishikawa Company Pvt. Ltd.  
Alpha Springs Chennai (P) Ltd.  
Amalgamations Repco Ltd.  
Amar Autoengg. Pvt. Ltd.  
Amar Autotech Pvt. Ltd.  
Ambattur Industrial Estate Manufacturers' Association (AIEMA)  
Ample Auto Tech Pvt. Ltd.

American Axle and Manufacturing Services (I) Pvt. Ltd.  
Amtek Auto Ltd.  
Amul Industries Pvt. Ltd.  
AMW Auto Component Ltd.  
Anand Automotive Pvt. Ltd.  
Anand I-Power Ltd.  
Anand Motor Products Pvt. Ltd.  
Anand NVH Products (P) Ltd.  
Anand Piston International  
ANG Industries Ltd.  
Anu Industries Ltd.  
Apls Automotive Industries Pvt. Ltd.  
ARB Bearings Ltd.  
Arcotech Ltd.  
Aristocraft International Pvt. Ltd.  
Arvind Engineering Works Ltd.  
Asahi India Glass Ltd.  
Ashok Iron Works Pvt. Ltd.  
Ashra Consultants Pvt. Ltd.  
Ashutosh Rubber Pvt. Ltd.  
ASK Automotive Pvt. Ltd.  
ASL Industries Pvt. Ltd.  
Aspee Precision Components Pvt. Ltd.  
Aspee Springs Ltd.  
Aspra Engineering India Pvt. Ltd.  
Associated Manufacturing LLP  
Aurangabad Electricals Ltd.  
Auro Plastic Injection Moulders Pvt. Ltd.  
Authentication Solution Providers' Association (ASPA)  
Auto Cluster Development and Research Institute Ltd.  
Auto Ignition Ltd.  
Auto Pins (India) Ltd.  
Auto Shell Perfect Moulder Ltd.  
Autocomp Corporation Panse Pvt. Ltd.  
Autocop (India) Pvt. Ltd.  
Autofit Pvt. Ltd.

Autoflex Pvt. Ltd.  
Autoline  
Autolite (India) Ltd.  
Autoliv India Pvt. Ltd.  
Autometers Alliance Ltd.  
Automotive Axles Ltd.  
Automotive Valves Pvt. Ltd.  
Autostart India Pvt. Ltd.  
AVO Carbon India (P) Ltd.  
AVR Valves Pvt. Ltd.  
AVS Brake Linings Pvt. Ltd.  
Avtec Ltd.  
Axles India Ltd.

## B

Badve Engineering Ltd.  
Bajaj Motors Ltd.  
Balu India  
Banco Products (India) Ltd.  
Bar International Inc.  
BASF Catalysts India Pvt. Ltd.  
Baynee Industries  
Benara Bearings & Pistons Ltd.  
Benara Udyog Ltd.  
Besmak Components Pvt. Ltd.  
Besoto Starting Systems Pvt. Ltd.  
Best Koki Automotive (P) Ltd.  
Beta Industrial Products  
Bharat Axles Pvt. Ltd.  
Bharat Forge Ltd.  
Bharat Gears Ltd.  
Bharat Seats Ltd.  
Bhavani Industries  
Bill Forge Pvt. Ltd.  
Bimetal Bearings Ltd.  
Bindra Motors Pvt. Ltd.  
Birla Precision Technologies Ltd.  
BMC Metalcast Ltd.  
Bohra Rubber Pvt. Ltd.  
Bollhoff Fastenings Pvt. Ltd.

Bond Safety Belts
Bony Polymers Pvt. Ltd.
Bony Polymers Pvt. Ltd.
Borgwarner Cooling Systems India Pvt. Ltd.
Borgwarner Morse System India Pvt. Ltd.
Bosch Chassis Systems India Ltd.
Bosch Ltd.
Brakes India Pvt. Ltd.
Brakewel Automotive Components (I) Pvt. Ltd.
Brembo Brake India Pvt. Ltd.
Brose India Automotive Systems Pvt. Ltd.
Bundy India Ltd.

**C**

C.M. Smith & Sons Ltd.
Calex Auto
Caltherm Thermostats Pvt. Ltd
Carl Bechem Lubricants (India) Pvt. Ltd.
Carrier Wheels Pvt. Ltd.
Ceratizit India Pvt. Ltd.
Chamber of Marathwada Industries and Agriculture
Champak Plastics Pvt. Ltd.
Chandok Automotive Manufacturers Ltd.
Chang Yun India Ltd.
Chaphekar Engineering Pvt. Ltd.
Chennai Institute of Technology
Chopra Autotech Pvt. Ltd.
CI Car International Pvt. Ltd.
Circlips India Pvt. Ltd.
Citizen Press Components
Climax Overseas Pvt. Ltd.
Clutch Auto Ltd.
Comstar Automotive Technologies Pvt. Ltd.
Concentric Pumps Pune Pvt. Ltd.
Conic Automotive Pvt. Ltd.
Continental Automotive Components (India) Pvt. Ltd.

Continental Engines Ltd.
Cooper Corporation Pvt. Ltd.
Coventry Coil-O-Matic (HR) Ltd.
CRP (India) Pvt. Ltd.
Cummins Technologies India Ltd.

**D**

D P Engineering Industries Ltd.
Daewon India Autoparts Pvt. Ltd.
Dali & Samir Engineering Pvt. Ltd.
Dana India Pvt. Ltd.
DCM Engineering Products
Deep Precision Industries
Dell'orto India Pvt. Ltd.
Delphi Automotive Systems Pvt. Ltd.
Delphi-TVS Diesel Systems Ltd.
Deltronix India Ltd.
Delux Bearings Pvt. Ltd.
Demanik Enterprises
Denso International India Pvt. Ltd.
Deusch Motocomp Pvt. Ltd.
Devendra Exports Pvt. Ltd.
Devilog Systems (India)
Dhanjal Impex Pvt. Ltd.
Dhoot Transmission Pvt. Ltd.
Dipty Lal Judge Mal Pvt. Ltd.
DME (India) Pvt. Ltd.
Donaldson India Filter Systems Pvt. Ltd.
Duroshox Pvt. Ltd.
Durovalves India Pvt. Ltd.
DVS Industries Pvt. Ltd.
Dyna-K Automotive Stampings Pvt. Ltd.
Dynamic Technologies Ltd.

**E**

E.I. Dupont India Pvt. Ltd.
Eaton Industrial Systems Pvt. Ltd.
Ecocat (India) Pvt. Ltd.
Elcomponics Sales Pvt. Ltd.
Electrica Engineers (India) Pvt. Ltd.
Electromags - A Division of Bombay Bermah Trading Corp. Ltd.
Elofic Industries Ltd.
Emdet Jamshedpur Pvt. Ltd.

Emission Controls Manufacturers Association
Emkay Automobile Industries Ltd.
Emmbros Autocomp Ltd.
Endurance Technologies Pvt. Ltd.
Engineering Technologies
Escorts Ltd.
Essae Digitronics Pvt. Ltd.
Excel Polymotive
Exedy India Ltd.
Exotech Zanini Industries Pvt. Ltd.

**F**

FAG Bearings India Ltd.
Fairfield Atlas Ltd.
Fanuc India Private Ltd.
Faurecia Automotive Seating India Pvt. Ltd.
Faurecia Emissions Control Technologies India Pvt. Ltd.
Faurecia Interior Systems India Pvt. Ltd.
Federal-Mogul Goetze (India) Ltd.
Ferromatik Milacron India Pvt. Ltd.
Fiem Industries Ltd.
Filtrum Polymers Pvt Ltd
Fine Blanking Pvt. Ltd.
Fitex Industries Ltd.
Flash Electronics (I) Pvt. Ltd.
Fleetguard Filters Pvt. Ltd.
Flowwell Castings Pvt. Ltd.
Flywheel Ring Gears Pvt. Ltd.
Foundation Brake Manufacturing Ltd.
Friends Auto (India) Ltd.
Friends Castings Pvt. Ltd.

**G**

G B Rubber Products
G I Auto Pvt. Ltd.
G. S. Auto International Ltd.
Gabriel India Ltd.
Gajra Gears Pvt. Ltd.
Gala Precision Engineering Pvt. Ltd.
Galaxy Bearings Ltd.
Galaxy Indicators (I) Pvt. Ltd.



Gatiman Auto Pvt. Ltd.  
Gearock Forge Pvt. Ltd.  
Ghaziabad Precision Products Pvt. Ltd.  
Gilard Electronics Pvt. Ltd.  
GKDITR- Tooling Centre  
GKN Driveline (India) Ltd.  
GKN Sinter Metals Pvt. Ltd.  
Global Automotive Components (P) Ltd.  
Global Autotech Ltd.  
GNA Axles Ltd.  
GNA Gears Ltd.  
GNA Udyog Ltd.  
Gold Seal Engineering Products Pvt. Ltd.  
Gold Seal-SaarGummi India Pvt. Ltd.  
Goldy Precision Stampings Pvt. Ltd.  
Grace Infrastructure Pvt. Ltd.  
Graziano Trasmissioni India Pvt. Ltd.  
Greenfuel Energy Solutions Pvt. Ltd.  
Gulati Auto Electricals Pvt. Ltd.  
Guru Nanak Auto Enterprises Ltd.

## H

Haldex India Pvt. Ltd.  
Halonix Ltd.  
Hampson Industries Pvt. Ltd.  
Hanon Climate Systems India Pvt Ltd  
Happy Steels Pvt. Ltd.  
Harinder Industries Pvt Ltd  
Harita Seating Systems Ltd.  
Harman International (India) Pvt. Ltd.  
Harsha Engineers Ltd.  
Hella India Automotive Pvt Ltd.  
Hella India Lighting Limited  
Helvoet Rubber & Plastic Technologies (India) Pvt. Ltd.  
Hero Cycles Ltd.  
Hero Motors Ltd.  
Highco Engineers (P) Ltd.  
Highway Industries Ltd.  
Hilux Auto Electric Pvt. Ltd.

Hi-Lux Automotive Pvt. Ltd.  
Hinduja Foundries Ltd.  
Hindustan Composites Ltd.  
Hindustan Hardy Spicer Ltd  
Hirschvogel Components India Pvt. Ltd.  
Hi-Tech Engineering Systems Pvt. Ltd.  
Hitkari Hitech Fibres Pvt. Ltd.  
Hodek Vibration Technologies Pvt. Ltd.  
Honeywell Turbo Technologies India Pvt. Ltd.  
Horizon Industrial Products Pvt. Ltd.  
Huf India Pvt. Ltd.

## I

I E Auto Industrial Enterprise Pvt. Ltd.  
Ibex Products Pvt. Ltd.  
IFB Automotive Pvt. Ltd.  
IFB Industries Ltd.  
IM Gears Pvt. Ltd.  
Imperial Auto Industries Ltd.  
INA Bearings India Pvt. Ltd.  
India Forge and Drop Stampings Ltd.  
India Japan Lighting Pvt. Ltd.  
India Nippon Electricals Ltd.  
India Pistons Ltd.  
Indian Diecasting Industries  
Indication Instruments Ltd.  
Indo Autotech Ltd.  
Indo-Schottle Auto Parts Pvt. Ltd.  
Indo-Shell Mould Ltd.  
Indo-US MIM Tec. Pvt. Ltd.  
Industrial Engineering Syndicate  
Industrial Forge & Engineering Co. Ltd  
Industrial Rubber Products  
Industrial Rubber Products Pvt. Ltd.  
Industrias Del Recambio India Pvt. Ltd.  
Infineon Technologies India Pvt. Ltd.  
Injectoplast Pvt. Ltd.  
Innova Rubbers Pvt. Ltd.  
Insulation & Electrical Products Pvt. Ltd.

Integra Automation Pvt. Ltd.  
Interface Microsystems  
Inteva Products India Automotive Pvt. Ltd.  
Investment & Precision Castings Ltd.  
IP Rings Ltd.  
IST Ltd.

## J

J. K. Fenner (India) Ltd.  
J.S.S. Steelitalia Ltd.  
Jagan Lamps Ltd.  
Jai Bhavani Mata Engitech Pvt. Ltd.  
Jai Jawan Auto Components  
Jaidarshan Indocraft Pvt. Ltd.  
Jalex Automotive Pvt. Ltd.  
Jamna Auto Industries Ltd.  
Japji Enterprises  
Jay Bharat Maruti Ltd.  
Jay Switches (India) Pvt. Ltd.  
Jay Ushin Ltd.  
Jaya Hind Industries Ltd.  
Jayashree Polymers Pvt. Ltd.  
Jayem Auto Industries Pvt. Ltd.  
JBM Auto Ltd.  
JBM Ogihara Automotive India Ltd.  
JM Frictech India Pvt. Ltd.  
Johnson Matthey India Pvt. Ltd.  
JSK Bearings Company Pvt. Ltd.  
Jtekt Sona Automotive India Ltd.  
Jumps Auto Industries Ltd.

## K

K.M.P. Manufacturing Company  
K.R. Industries  
Kafila Forge Ltd.  
Kalisma Steels Pvt. Ltd.  
Kalra Overseas & Precision Engineering Ltd.  
Kalyani Forge Ltd.  
Kamal Rubplast Industries Pvt. Ltd.  
Kaneri Enterprises

Kavia Engineering Private Ltd.
Kay Jay Forgings Pvt. Ltd.
KCTR Varsha Automotive Pvt. Ltd.
Keihin India Manufacturing Pvt. Ltd.
Kems Forgings Ltd.
Kern-Liebers (India) Pvt. Ltd.
KIE Engineering Pvt. Ltd.
Kigotek Automotriz Pvt. Ltd.
Kiran Udyog
Kirat Plastics Pvt. Ltd.
Kishan Autoparts Pvt. Ltd.
Kiswok Industries Pvt. Ltd.
Klassic Wheels Pvt. Ltd.
Knorr-Bremse Systems for Commercial Vehicles India Pvt. Ltd.
Kongovi Electronics Pvt. Ltd.
Kores (India) Ltd.
KOSTAL India Pvt. Ltd.
Kova Fasteners Pvt. Ltd.
Koyo Bearings India Pvt. Ltd.
KPIT Technologies Ltd.
Krishna Maruti Ltd.
KSPG Automotive India Pvt. Ltd.
KSS Abhishek Safety Systems Pvt.Ltd.
Kulkarni Engineers
Kunstocom (India) Ltd.
Kusalava International Ltd.

## L

L. G. Balakrishnan & Bros. Ltd.
Lakhani Rubber Works
Lakshmi Precision Screws Ltd.
Lasko Engineering Co.
Laxmi Metal Pressing Works Pvt. Ltd.
Lear Automotive India Pvt. Ltd.
Lifelong India Ltd.
Linamar India Pvt. Ltd.
Liners India Ltd.
Litens Automotive (India) Pvt. Ltd.
Lucas TVS Ltd.
Luk India Pvt. Ltd.

Lumax Auto Technologies Ltd.
Lumax Automotive Systems Ltd.
Lumax Cornaglia Auto Technologies Pvt. Ltd.
Lumax DK Auto Industries Ltd.
Lumax Industries Ltd.
Lumax Mannoh Allied Technologies Ltd.
Luthra Industrial Corporation

## M

M & M Machine Craft Pvt. Ltd.
M.D. Industries
M.K. Auto Industries
M.K. Auto Components India Ltd.
M.V.D. Auto Components Pvt. Ltd.
Maadhav Automotive Fasteners Pvt. Ltd.
Macas Automotive
Machino Plastics Ltd.
Machino Polymers Ltd.
Maco Pvt. Ltd.
Madhusudan Auto Ltd.
Madras Engineering Industries Pvt. Ltd.
Madras Radiators And Pressings Ltd.
Mag Filters & Equipments Pvt. Ltd.
Magal Engg. Tech Pvt. Ltd.
Magna Automotive (India) Pvt. Ltd.
Magneti Marelli India Pvt. Ltd.
Magnum MI Steel Pvt. Ltd.
Mahindra CIE Automotive Ltd.
Mahindra Gears & Transmissions Pvt. Ltd.
Mahindra Hinoday Industries Ltd.
Mahindra Sona Ltd.
MAHLE Behr India Ltd.
MAHLE Engine Components India Pvt. Ltd.
Mahle Filter Systems (India) Ltd.
Mahratta Chamber of Commerce, Industries & Agriculture
Maini Precision Products Pvt. Ltd.

Makino Auto Industries Pvt. Ltd.
Mandap International Pvt. Ltd.
Mando Automotive India Pvt. Ltd.
Mangal Industries Ltd.
Mann and Hummel Filter Pvt. Ltd.
Mansons International Pvt. Ltd.
Marathwada Auto Compo Pvt. Ltd.
Mark Exhaust Systems Ltd.
Masu Brakes Pvt. Ltd.
Maxop Engineering Co. Pvt. Ltd.
Mayur Uniquoters Ltd.
MEC Bearings Pvt. Ltd.
Meenakshi Polymers Pvt. Ltd.
Mega Rubber Technologies Pvt. Ltd.
Mehta Engineers Ltd.
Menon and Menon Ltd.
Metaforge Engineering (India) Pvt. Ltd.
Metal Form
Metal Shaping & Processing Pvt. Ltd.
Metaldyne Industries Ltd.
Metalman Auto Pvt. Ltd.
Metalman Micro Turners
Metalsa India Pvt. Ltd.
Micron Enterprises
Microsign Products
Mikuni India Pvt. Ltd.
Minda Corporation Ltd.
Minda Furukawa Electric Pvt. Ltd.
Minda Industries Ltd.
Minda Sai Limited
Minda Silca Engineering Pvt. Ltd.
Minda Vast Access Systems Pvt. Ltd.
Minda Valeo Security Systems Pvt. Ltd.
Mindarika Pvt. Ltd.
Mitsuba Sical India Ltd.
Mitsubishi Electric Automotive India Pvt. Ltd.
MK Fasteners
MM Auto Industries Limited
Mobis India Ltd.
Motherson-Sumi Systems Ltd.

Motoplast Components
Mrinalini Industries
Mubea Automotive India Pvt. Ltd.
Multitech Auto Pvt. Ltd.
Mungi Engineers Pvt. Ltd.
Munjali Auto Industries Ltd.
Munjali Kiri Industries Pvt. Ltd.
Munjali Showa Ltd.
Musashi Auto Parts India Pvt. Ltd.
Mutha Founders Pvt. Ltd.
Mutual Industries Ltd.

## N

Nachi KG Tecnology India Pvt. Ltd.
Napino Auto & Electronics Ltd.
Nash Products
Natesan Synchrocones Pvt. Ltd.
National Engineering Industries Ltd.
Nelcast Ltd.
Nelson Global Products India Pvt. Ltd.
Nemak Aluminium Castings India Pvt. Ltd.
Neolite ZKW Lightings Pvt. Ltd.
NeoSym Industry Ltd.
New Swan Autocomp (P) Ltd.
New Swan Enterprises
Nexteer Automotive India Pvt. Ltd.
NGK Spark Plugs (India) Pvt. Ltd.
NHK Automotive Components India Pvt. Ltd.
Nicks Auto Industries Pvt. Ltd.
Nipman Fastener Industries Pvt. Ltd.
Nippon Audiotronix Ltd.
Nippon Thermostat (India) Ltd.
Nissim India Pvt. Ltd.
Nitto Denko India Pvt. Ltd.
Norma Group Products India Pvt. Ltd.
NRB Bearings Ltd.
NTF (India) Pvt. Ltd.

## O

Ocap Chassis Parts Pvt. Ltd.
Oetiker India Pvt. Ltd.
Omax Autos Ltd.
Onassis Auto Ltd.
Orbit Bearings India Pvt. Ltd.
Oswal Castings Pvt. Ltd.
Owari Precision Products (India) Pvt. Ltd.
Plastic Omnium Auto Exteriors (India) Pvt. Ltd.
Polyplastics Industries (India) Pvt. Ltd.
Pooja Forge Ltd.
Poona Shims Pvt. Ltd.
Porwal Auto Components Ltd.
Power Industries
PPAP Automotive Ltd.
Prabha Engineering Pvt. Ltd.
Pranav Vikas (India) Pvt. Ltd.
Pravin Engineering Pvt. Ltd.
Precision Auto Industries
Precision Autowares Pvt. Ltd.
Precision Camshafts Ltd.
Precision Engineering
Precision Tech Enterprises
Premium Mouldings & Pressings Pvt. Ltd.
Presco-Mec Autocomp Pvt. Ltd.
Pricol Ltd.
Progressive Gear Industries (P) Ltd.
Propel Metaltech
PRS Permacel Pvt. Ltd.
Punch Ratna Fasteners Pvt. Ltd.
Punjab Bevel Gears Ltd.
Purofil Auto (India) Pvt. Ltd.
Rane NSK Steering Systems Pvt. Ltd.
Rane TRW Steering Systems Pvt. Ltd.
Ranee Polymers Pvt. Ltd.
Rangamma Steels & Malleables
Rasandik Engg. Industries (I) Ltd.
Rawats International Pvt. Ltd.

## P

Pacco Industrial Corporation
Padmini VNA Mechatronics Pvt. Ltd.
Panalfa Autoelektrik Ltd.
Paracoat Products Ltd.
Paranjape Autocast Pvt. Ltd.
Paras Auto Industries
Parkash Automotive Industries (P) Ltd.
Pasio Aircon Pvt. Ltd.
Paul Components Pvt. Ltd.
Pavna Auto Engineering Pvt. Ltd.
Pee Aar Exim Pvt. Ltd.
Perfect Engine Components Pvt. Ltd.
Perfect Industries (India)
Perfect Polymers
Peter-Lacke India Pvt. Ltd.
Piano Presitel
Pinnacle Industries Ltd.

## Q

QH Talbros Ltd.
-----------------

## R

R.K. Profiles Pvt. Ltd.
RACL Geartech Ltd. (Formerly Raunaq Automotive Components Ltd.)
Radiant Complast Pvt. Ltd.
Radiant Polymers Pvt. Ltd.
Rajatdeep Overseas Pvt. Ltd.
Rajhans Pressings Pvt. Ltd.
Rajnish Industries Pvt. Ltd.
Rajsriya Automotive Industries Pvt. Ltd.
Ramkrishna Forgings Ltd.
Ramsays Corporation Pvt. Ltd.
Rane (Madras) Ltd.
Rane Brake Lining Ltd.
Rane Engine Valve Ltd.
RDH Auto
Remsons Industries Ltd.
Rico Auto Industries Ltd.
Rico Castings Ltd.

Right Tight Fastner Pvt. Ltd.

Rinder India Pvt. Ltd.

Ring Plus Aqua Ltd.

Rising Sun International

Rockman Industries Ltd.

Rolex Rings Pvt. Ltd.

Roop Automotives Ltd.

Roop Polymers Ltd.

Roots Industries India Ltd.

Rosmerta Autotech Pvt. Ltd.

Rotex Automation Ltd.

RPK India Pvt. Ltd.

RSB Transmissions (I) Ltd.

Rucha Technologies Pvt. Ltd.

**S**

S. M. Auto Engineering Pvt. Ltd.

S. S. Engineering Works

S.K. Spring Co.

SAC Engine Components Pvt. Ltd.

Sadhu Forging Ltd.

Sahil Industries

Sainik Spring Works

Saint Gobain India Pvt. Ltd.

Sakthi Auto Component Ltd.

Samarth Engg. Co. Pvt. Ltd.

Samco Auto (India) Pvt. Ltd.

Samson Industries

Sanatan Autoplast Pvt. Ltd.

Sanauto Engineers (India) Pvt. Ltd.

Sandeep Axles Pvt. Ltd.

Sandeep Metalcraft Pvt. Ltd.

Sanden Vikas (India) Pvt. Ltd.

Sandhar Technologies Ltd.

Sandhu Auto Engineers

Sanjeev Auto Parts Manufacturers  
Pvt. Ltd.

Sankar Sealing Systems Pvt. Ltd.

Sanko Gosei JRG Automotive  
(I) Pvt. Ltd.

Sansera Engineering (P) Ltd.

Santech Motors Pvt. Ltd.

Saraswati Industries

Sathya Auto Pvt. Ltd.

Sati Auto Components Pvt. Ltd.

Satyam Auto Components Ltd.

Sawalka Kel Pvt. Ltd.

Sea Hydrosystems India Pvt. Ltd.

Sebros Auto Pvt. Ltd.

Seema &amp; Co.

Sekisui DJM Molding Pvt. Ltd.

Sellowrap EPP India Pvt. Ltd.

Sellowrap Industries Pvt. Ltd.

Senior India Pvt. Ltd.

Sensing Technologies Pvt. Ltd.

SEP India Pvt. Ltd.

Setco Automotive Ltd.

Sharada Industries

Sharda Motor Industries Ltd.

Sheet Shapers

Shilpi Cable Technologies Ltd.

Shivam Autotech Ltd.

Shivani Locks Pvt. Ltd.

Shore Auto Rubber Exports Pvt. Ltd.

Showa India Pvt. Ltd.

Shree Amba Industries

Shree Shyam Global

Shriniwas Engineering Auto  
Components Pvt. Ltd.Shriram Alpine Sales Pvt. Ltd.  
C/o Shriram Automotive Products Ltd.

Shriram Foundry Ltd.

Shriram Pistons &amp; Rings Ltd.

Sigma Automotive Materials Pvt. Ltd.

Sigma Corporation (India) Ltd.

Sigma Freudenberg NOK Pvt. Ltd.

Sigma Moulds &amp; Stampings Pvt. Ltd.

Singhbhum Machinometal Pvt. Ltd.

Singla Forging

Sintex-BAPL Ltd.

SKH Metals Ltd.

SKS Fastners Ltd.

Sober Auto Industries

SOGEFI MNR Filtration India Pvt. Ltd.

Somic ZF Components Ltd.

Sona BLW Precision Forgings Ltd.

Sona Koyo Steering Systems Ltd.

Soni Auto &amp; Allied Industries Ltd.

Spaco Technologies (India) Pvt. Ltd.

Special Engineering Services Ltd.

Special Tools Pvt. Ltd.

Spectra products Pvt. Ltd.

Spicer India Pvt. Ltd.

SPM Autocomp Systems Pvt Ltd.

Spun Micro Processing (P) Ltd.

SSV Valves

Standard Radiators Pvt. Ltd.

Star Circlips &amp; Engineering Ltd.

Star Engineers (India) Pvt. Ltd.

Steel Strips Wheels Ltd.

Steelbird International

Steriware Plastic Products Pvt. Ltd.

Sterling Tools Limited

Stork Auto Engineering Pvt. Ltd.

Stork Rubber Products Pvt. Ltd.

Stumpp Schuele & Somappa  
Springs Pvt. Ltd.

Subros Limited

Sudisa Foundry (P) Ltd.

Sujan Cooperstandard AVS Pvt. Ltd.

Sulzer Friction Systems India Ltd.

Sumit Enterprises

Sunbeam Auto Pvt. Ltd.

Sundaram Auto Components Ltd.

Sundaram Brake Linings Ltd.

Sundaram Clayton Ltd.

Sundaram Industries Pvt. Ltd.

Sundram Fasteners Ltd.

Sunpac Auto (India) Pvt. Ltd.

Sunstar Precision Forge Ltd.

Sunvisors India Pvt. Ltd.

Super Circle Auto Ltd.

Super Nova Auto Industries

Super Seals India Ltd.

Supercircle Pvt. Ltd.

Suprajit Engineering Ltd.

Supreme-Treves Pvt. Ltd.

Suraj Components Pvt. Ltd.

Suraj General Engineers (P) Ltd.

Surya Springs

## T

T.K. Precision Pvt. Ltd.

T.K.W. Fasteners Pvt. Ltd.

Takata India Pvt. Ltd.

Talbro's Automotive Components Ltd.

Talbro's Cork Products Pvt. Ltd.

Talbro's Engineering Ltd.

Tata Autocomp Systems Ltd.

Tata Consultancy Services Ltd.

Tata Toyo Radiator Ltd.

Taylor Rubber Pvt. Ltd.

TE Connectivity India Pvt. Ltd.

Tech Auto Pvt. Ltd.

Technico Industries Ltd.

Technocrat Connectivity Systems (P) Ltd.

Technosystems

Teksons Pvt. Ltd.

Tenneco Automotive India Pvt. Ltd.

Terminal Technologies (I) Pvt. Ltd.

Tespa Tools Pvt. Ltd.

Texspin Bearings Ltd.

The Hi-Tech Gears Ltd.

The Automotive Research  
Association of India

The Supreme Industries Ltd.

Tightwell Fastners

Tosy Auto Products

Toyoda Gosei South India Pvt. Ltd.

Toyota Boshoku Automotive  
India Pvt. Ltd.

Toyota Industries Engine India Pvt. Ltd.

Toyota Kirloskar Auto Parts Pvt. Ltd.

Toyotetsu India Auto Parts Pvt. Ltd.

Track Components Ltd.

Transvahan Technologies India Pvt. Ltd.

Trelleborg Automotive India Pvt. Ltd.

Trelleborg Vibracoustic (India) Pvt. Ltd.

Trigno Engineering Pvt. Ltd.

Trim India Pvt. Ltd.

TRW Sun Steering Wheels Pvt. Ltd.

TSMPR Theepan Industries

Tube Investments of India Ltd.

Turbo Energy Pvt. Ltd.

TVS Educational Society

TVS Infotech Ltd.

TVS Logistics Services Ltd.

Twenty First Century Auto Locks Pvt. Ltd.

## U

Ucal Fuel Systems Ltd.

Ucal Products Pvt. Ltd.

Ukay Metal Industries Pvt. Ltd.

UMC Auto Industries Pvt. Ltd.

Uni Deritend Ltd.

Unitech Machines Ltd.

Universal Wire Forms

Usha International Ltd.

USUI Susira International Private Ltd.

## V

Valeo India Pvt. Ltd.

Vanaz Engineers Ltd.

Varroc Engineering Pvt. Ltd.

Varroc Polymers Pvt. Ltd.

VE Commercial Vehicles Ltd.

Vibrant Auto Components Pvt. Ltd.

Vibromech Engineers and Services Ltd.

Victor Reinz India Pvt. Ltd.

Victoria Tool Engineers (P) Ltd.

Vijayshree Autocom Ltd.

Vikrant Auto Suspensions

Vinayaka C.N.C. Centre (P) Ltd.

Viral Engineers

Vishwakarma Automotive Pvt. Ltd. - II

Visteon Automotive Systems  
India Pvt. Ltd.

VNM Polymers Pvt. Ltd.

Voith Turbo Pvt. Ltd.

## W

WABCO India Ltd.

Wahi Sons Pvt. Ltd.

Western Auto Spares

Western Thomson (India) Ltd.

Wheels India Ltd.

Wings Automobile Products (Pvt.) Ltd.

Wire Rings

Wriston Elastomers (P) Ltd.

## Y

Yashka Stampings

Yazaki India Pvt. Ltd.

Yeshshree Press Comps. Pvt. Ltd.

York Transport Equipment  
(India) Pvt. Ltd.

Yoshama And Company Pvt. Ltd.

Yugal Precision Pvt. Ltd.

## Z

Z F India Pvt. Ltd.

Zenith Forge Pvt. Ltd.

ZF Steering Gear (India) Ltd.





Automotive Component Manufactures  
Association of India

#### HEAD OFFICE

6th Floor, The Capital Court, Olof Palme Marg,  
Munirka, New Delhi 110 067, India  
Tel: +91 11 2616 0315 | Fax: +91 11 2616 0317  
Email: [acma@acma.in](mailto:acma@acma.in)

---

#### REGIONAL OFFICES

---

##### Eastern Region

Room NO.4  
Centre for Excellence  
Jubilee Road  
Jamshedpur 831 001  
Jharkhand  
Tel: +91 657 656 0385  
2224670 Extn-24  
Telefax: +91 657 2230035  
E-mail: [acmaer@acma.in](mailto:acmaer@acma.in)

##### Southern Region

1-B, "Crystal Lawn",  
20, Haddows Road,  
First Street,  
Chennai 600 006,  
Tamil Nadu  
Tel: +91 44 2833 0968  
+91 44 2833 0949  
Fax: +91 44 2833 0590  
E-mail: [acmasr@acma.in](mailto:acmasr@acma.in)

##### Southern Region

Zonal Office  
(Karnataka & Hosur)  
Shop NO. 1, Commercial Complex,  
National Games Village,  
Koramangala, Bangalore 560 047  
Karnataka,  
Tel: +91 80 2570 2855  
Fax: +91 80 4093 9689  
E-mail: [acmakh@airtelmail.in](mailto:acmakh@airtelmail.in)

##### Western Region

Office No. C,  
10<sup>th</sup> Floor, Godrej Eternia "C",  
Old Mumbai-Pune Highway,  
Wakdevadi, Shivaji Nagar,  
Pune 411 005  
Maharashtra  
Tel: +91 206606 1219  
Telefax: +91 20 6606 1220  
E-mail: [acmawr@acma.in](mailto:acmawr@acma.in)

##### Western Region

Zonal Office  
(Mumbai)  
80, Dr. Annie Besant Road,  
Worli, Mumbai 400 018  
Maharashtra  
Tel: +91 22 2493 3507  
2497 5877, 2498 6527  
Fax: +91 22 2493 6527  
E-mail: [acmawr@acma.in](mailto:acmawr@acma.in)

##### Western Region

Zonal Office  
(Gujrat)  
C/O Delux Bearings Ltd.,  
Paritosh Building,  
6<sup>th</sup> Floor, Near Darpana Academy,  
Usmanpura  
Ahmedabad-380 013, Gujrat  
E-mail: [acmawr@acma.in](mailto:acmawr@acma.in)