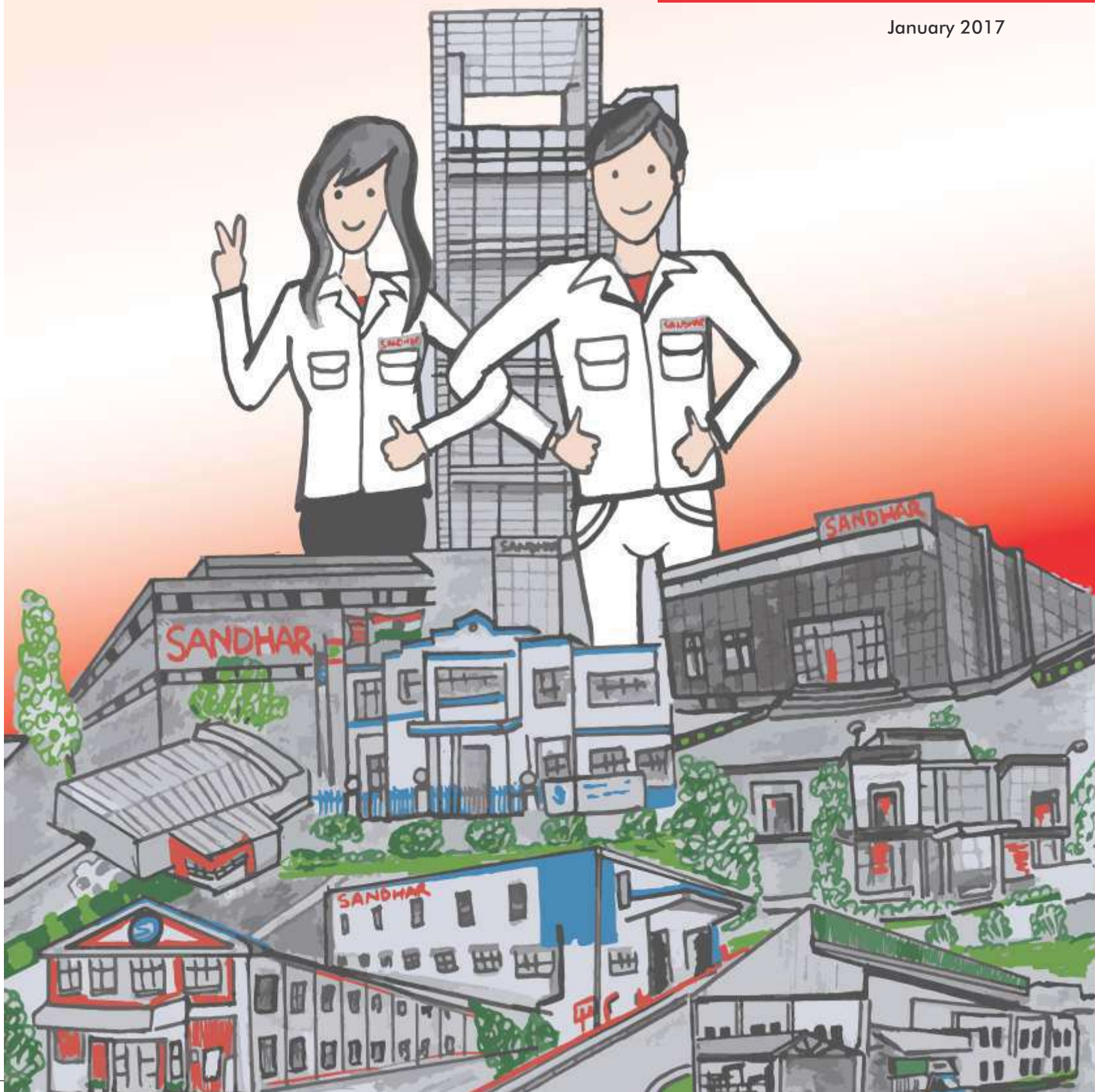


# SANDHAR Connect

Growth. Motivation. Better Life

January 2017



# Content

From the desk of Jayant Davar	03
ZED Cluster Update	04
Reward & Recognitions	05
Energy Efficiency – Achieving Sustainability	07
Visits@Sandhar	10
Know your units	14
Training @Sandhar	18
Celebrations @Sandhar	20
New Relationships	22
Highlights@Sandhar	23

## From the desk of Jayant Davar



My Dear Friends,

Wish you and your family A very Happy and Prosperous New Year. May you be healthy and achieve the goals that you've set for yourselves.

The last two months have been difficult for the industry. Demonetization caught all of us by surprise. The ensuing paucity of cash with the consumers led to a drop in discretionary spending, reducing the demand for automobiles. The two wheeler sales were the most impacted. This resulted in drop in the production schedules and loss of revenue. While the jury is still out on the relevance and success of demonetization in the short and long run, I do hope that the situation normalizes fast. At the time of writing this, the indications are that things are looking up and may stabilize by the end of this quarter. I would like to thank everyone for bearing with the discomfort and standing by us during this time.

At Sandhar, we have won much recognition from customers and professional bodies. Congratulations to all the teams who have won accolades at the quality circle forums and members of all the units that have won recognition and appreciation from customers for quality and timely deliveries.

Our expansion plan continues. We have signed MOU's with Kumoh EMS Co. for Magnesium Die casting; Plato Co. Ltd for Automotive electronic items and Daewha Fuel Pump Ind., Ltd. for fuel pumps & filters and Jun Hua Hefa Science & Technology Co. Ltd. of china for Evaporative Emission Control System Products. The New plant at Pathredi is in its last leg and will be fully operational very soon. I am happy to share that we are in the process of setting up a new plant for the Cabins and Fabrication Division at Jaipur to cater to JCB.

I am pleased to note that there is an increasing awareness in the organization towards energy conservation and efficiency. The regular trainings on the same are resulting in habit formation leading to greater energy conservation.

As we enter a new calendar year 2017, I take this opportunity to thank all our esteemed customers for their continuing support; our suppliers for being our pillar of strength.

Warm Regards,  
**Jayant Davar**



# ZED Cluster Update

*Contributed by Mr. Niraj Hans*

Further to my last update on ZED (Zero Defect, Zero Effect) Cluster, our motivated team at Sandhar Automotives, Gurgaon is fully engaged towards achieving the targets set by them for the betterment in Quality and Environment. This cluster has evolved in unique ways making a significant and positive impact on manufacturing competitiveness. In order to survive in the competitive environment and maximize our potential, change in mindset towards improvement is essential.

ZED has put forward a model which emphasizes on quality as a holistic change from a tool for compliance to a source of competitiveness. It lays special importance on continuous improvement in processes like quality planning, product and process designing, sufficient resource management and breakthrough outcomes. It is basically a structured approach that trains us for non - occurrence of defects in the products at every stage and eliminating impact on the environment through adequate planning.

Zero Defect and Zero Effect is what we are striving for and to find the way to do it with help of new production system and re-engineering of Model Lines. It requires technology based improvements and to



*ZED Team with ACMA Delegates*



*Slat Belt Conveyor Inauguration*



*Team behind the Slat Belt Conveyor Project*

meet ZED Cluster guidelines for enhancing the model line we introduced Pull System to increase the productivity

by deskilling human intervention and control. Plastic Bins have been removed to eliminate the cause of Defects like Dent/Scratches on painted parts. It works on Both Manual and Automatic mode of Operation (Cycle time control). It has improved the part aesthetics (dent, scratch etc.) due to contact free transport. Our total employee involvement in ZED Cluster Program has increased. We currently have 30 members working actively under the cluster.

So far ZED cluster journey has been a great experience and I am confident that it is going to bring good results for the organization and bring us one step closer in achieving our goal.



*Participants with Mr. C. Narasimhan, Chief Mentor  
- ACT and Mr. Dinesh Vedpathak - Head Cluster Program (ACMA) MRM - 2*



## Reward & Recognitions

VOLVO awarded MAG Engineering for the ***"Outstanding Performance in Delivery"*** during their Supplier meet held on 04.11.2016 at Bangalore.



Receiving Award from Volvo – Left to Right : Mr. Sundarmurthy (Prdn. head – Volvo), Mr. Chandan Roy (Unit Head – MAG), Mr. Praveen V (Sr. Mgr. QA – MAG), Mr. Rajanna – MAG, Mr. Chethan – MAG

Sandhar Automotives, Dhumaspur – HSCI Division had participated in 5S Excellence Awards 2016 conducted by Confederation of Indian Industry (CII) where the plant was audited by Mr. Vijay Shripad Tipnis (Senior Auditor – CII) on 10th Nov'16. After the audit, HSCI was awarded with **"STRONG COMMITMENT"** in the Manufacturing Industry sector by CII on 2nd Dec'16.



## Long Service Awards

**Sandhar Tooling Pvt. Ltd.** organized its Long Service Award Ceremony, where the employees who have completed 5 & 10 years with Sandhar Tooling were recognised.



Mr. Deepak Looned



Mr. Mukesh Nawani



Mr. Sushil Kumar



Mr. Rajbir Singh



Mr. Sunit Yadav



Mr. Harihar Nayak



Mr. Narender Kumar



Mr. Arun Kumar



Mr. Akhand Kumar Yadav



## Chapter Convention on Quality Concepts (CCQC)

The Chapter Convention on Quality Concept (CCQC) was held by Quality Circle Forum of India in various regions- Southern, Western, Northern & Haridwar Region. A Total of 36 teams from Sandhar had participated in the convention and won 15 Gold, 15 Silver and 6 Bronze awards.

## National Convention on Quality Concepts (NCQC)

The Quality Circle Forum of India organized its 30th National Convention on Quality Concepts (NCQC) at Shri Shankaracharya Institute of Professional Management and Technology, Raipur from 16th to 18th December, 2016. A Total of 1500 teams from across India participated in it. Sandhar participated with the 14 Teams and won 7 PAR EXCELLENCE Award and 7 Excellence Award.

We heartily congratulate the Facilitators, Guide, Leaders and Team members. Some glimpses from both the events are as under :



# Energy Efficiency – Achieving Sustainability

by Mr. Subhanshu Verma

**INDUSTRY CONSUMES 29% OF GLOBAL ENERGY!**

**GLOBAL ENERGY USE IS LIKELY TO RISE BY ONE THIRD BY 2040!**

**ESTIMATED GLOBAL RESERVES FOR COAL AND OIL TO LAST AROUND 150 YEARS!**

**GLOBAL WARMING SPEED IS ALARMING AND FASTER THAN INITIALLY ESTIMATED!**

**GREEN HOUSE GAS EMISSIONS CAUSING IRREPARABLE DAMAGE TO OUR ENVIRONMENT!**

*This is alarming and needs some serious deliberation and action on our part. We cannot stop or eliminate energy use as our existence depends on it. So what do we do? According to **International Energy Agency (IEA)**, improved energy efficiency in Residential & Commercial buildings, Production processes and Transportation is capable of reducing the world's energy needs in 2050 by 33% and also help in controlling the global Green House gas Emissions.*

*Herein lays the solution- Improving energy efficiency, conserving energy and reducing dependence on traditional fossil fuel energy by switching to greener and sustainable energy sources.*

## What is Energy efficiency and conservation?

In simple terms it means using less energy to provide the same level of performance, comfort and convenience. In the short run it implies conserving energy, optimizing its usage and in the long run it means using energy from replenishable sources like wind, solar or hydro.

## How to conserve Energy and optimize its use?

The most important aspect is awareness and willingness. Once these are there then as individuals we can take small steps to optimize the use of energy. We can use energy efficient technology like LED bulbs in place of traditional bulbs or even CFL's. When not needed, lights can be switched off. The audio Video equipment should be switched off rather than being kept on standby mode. Wherever possible during day time use of natural light should be increased. In office or at home when not working the computers, printers etc should be switched off.

For production and commercial use we ought to start using solar energy or alternate renewable energy in place of Grid or generator set produced electricity.

## Energy policies and Renewable energy

Energy efficiency and renewable energy are said to be the twin pillars of sustainable energy policy & use of clean

energy such as Solar/wind/hydro power can make deep cuts in fossil fuel & hence reduce CO2 Emission/Greenhouse emissions. The challenge here is to develop technology that will reduce the cost of producing and storing energy from these natural resources. Fortunately the world is alive to this problem and taking proactive steps. Renewable energy grew by 15.2 % worldwide in year 2015.

## World Wide Actions

Two thirds of the countries have set up national energy efficiency agencies to monitor energy conservation and use.

Three fourths of the countries have formal energy efficiency programs or a law with concrete energy efficiency/CO2

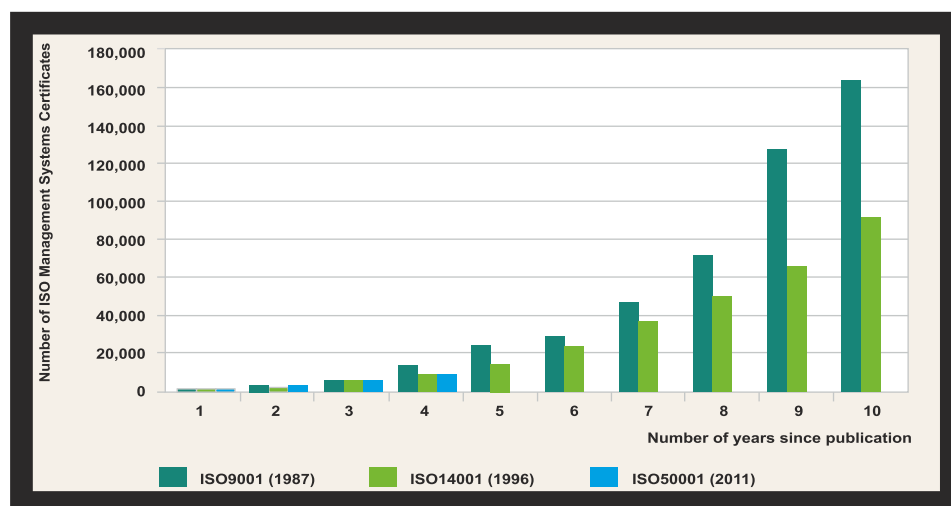
targets. These programs are either devoted solely to energy efficiency or combined with a national program of greenhouse gas reduction or of promotion of renewables (especially in most EU Countries).

Over the last 15 years' energy efficiency improvements have saved the world 3.1 Gigatonnes (Gtoe) of primary energy consumption and 7Gt of Co2.

**World Energy Council's** Energy Efficiency projects specifically aims to facilitate the exchange of information & share experience on energy efficiency measures among different countries around the world.

**23rd World Energy Congress** was

*The Graph below depicts adoption of ISO 50001(Energy management system) compared with ISO 9001 and ISO 14001, which signifies the increasing awareness and effort towards energy conservation and optimization.*





organized by World Energy council on Oct 2016 Istanbul, Turkey, with the vision to address important energy-related issues. Decentralized Energy for universal energy Access, Solar Power & Wind Power, Technology frontier focusing on innovation were the segments of this World Energy Congress meet.

### Action in India

"Indian government has already introduced a number of policies to increase the share of renewable energy , A total of 175 GW of renewable energy capacity is envisaged by 2022 which has 100 GW of solar power and 60 GW of wind capacity, making renewable energy a key priority action"-World Energy Council. The current Government is highly focused on generating Solar Energy and has provided various incentives for the same.

### The benefits of improved industrial energy efficiency

Exploiting the energy efficient resource by improving industrial energy efficiency is a rational response of all countries to energy-related problems. Such problems include the need to improve energy security and to reduce environmental impacts at local and global levels. The benefits of improved energy efficiency accrue to everyone.

### Sandhar Group and Energy Efficiency

The Sandhar Group is a socially and

environmentally conscious group. It has always on its own initiative taken steps without waiting for government diktat towards the same. In the very critical area of energy usage and conservation Sandhar has taken various initiatives as under:

### Awareness Training Programs

We at Sandhar have been organizing trainings for our employees highlighting the importance and need for energy conservation and how they can take small steps to make a big contribution.

### Energy Savings by Energy Efficient Lighting

LED is a highly energy efficient lighting technology and has the potential to fundamentally change the world's future of lighting. LEDs - especially ENERGY STAR rated products - use at least 75% less energy, and last 25 times longer than incandescent lighting. LED lights contain no toxic elements and avoid the cost and time implications required for compliant disposal - and help to protect the environment from further toxic waste. Our corporate office and various production units have already switched to LED as lighting source. However this is a continuous and ongoing process.

### Rooftop Solar Plant Installations at our Manufacturing facilities.

In order to make our production sustainable and cost efficient we have started installing roof top solar power plants and are undertaking online monitoring of their efficiency.



Solar Plant-Inverter Module



Solar Plant - PV Module



UNITS	SOLAR PLANT CAPACITY (KWp)
Sandhar Components, Behrampur	300
Sandhar Components, Manesar	127
Sandhar Components, Bawal (unit 1)	50
Sandhar Components, Bawal (unit 2)	50
Sandhar Automotives, Dhumaspur	50
Sandhar Automach, Manesar	150
Sandhar Automach, Nalagarh	60
Sandhar Tooling Pvt. Ltd., Manesar	36
Sandhar Automotives, Gurgaon	33
Sandhar Technologies Ltd. Pathredi	150
Sandhar Automotives, Haridwar	183

### Adoption of Latest Energy Efficient Technology

Keeping in line with our philosophy of making our production sustainable we are adopting newer and advanced technologies. Our new plant at Pathredi has used robotic paint shop which is fully automatic and energy efficient as compared to a traditional paint shop.



Robotic Paint Shop

### High Speed Diesel to LPG Modification

Natural Gas is cheaper & produces less heat therefore less Carbon dioxide (CO<sub>2</sub>) emission compare to HSD. It burns completely and can be safely stored, more energy efficient & can be viewed as an Environmental and Green/Sustainability Initiative.

Plant	Energy Efficient Projects
Sandhar Component, Bawal	HSD to be replaced with LPG in 2 Nos. of Melting furnaces
Sandhar technologies Ltd. Pathredi	LPG being used
Sandhar Automotives, Dhumaspur	HSD replaced to LPG

## Electronics Security System for 2-Wheelers

by Mr. Dillip Naik

Sandhar is constantly involved in R & D to upgrade and innovate its products so as to meet and exceed customer expectations. Everyone is concerned about the safety and security of their vehicles. In order to address this concern our R&D Centre - Sandhar Centre for Innovation and Development has developed a Keyless Electronics Safety system for Motorcycles & Scooters with an enhanced level of vehicle Safety. They have developed a prototype and created one demo-motorcycle making it Keyless by replacing the conventional lock & key system with Keyless electronic locking system.

Keyless lock set is an Electronic security system which gives the access to user for operating all the locks through single remote control device and thereby overcoming the disadvantages of conventional lock. The system is an advanced, reliable and robust version of security mechanism for two wheeled vehicles. The following locks are operated through either RF or Bluetooth

(Android app):

- Handle Lock
- Fuel Filler Cap
- Main Stand lock
- Ignition On/Off
- Seat Lock
- Vehicle finder

The system provides a secure encryption between ECU and remote with a billion numbers (64 bit/128 bit) of combinations. The system can also be equipped with other functions like emergency alarm, battery & fuel indication vehicle, On Board diagnostic information for vehicle health and service information etc. The product is available for Demonstration and is ready for commercialization.





## Visits@Sandhar



Team from Tata Hitachi Visited MAG for Factory Approval Audit for Critical Part's Sourcing, Left to Right: Mr. Prabhakar Naidu, Mr. Takamizawa Kenya (Sr. Advisor-SCM THCM), Mr. Chandan Roy, Mr. Karan Chhawchharia (Mgr. SCM-THCM), Mr. Praveen, Mr. Ashutosh Mishra (Mgr. -QA THCM)



Tata Hitachi – Jamshedpur team visited CFD, Pune, Left to Right: Mr. Y M Patil, Mr. Rajeev Das (ADM-SCM Sourcing), Mr. K. R. Kamath (Head-QA), Mr. G J Singh, Mr. Anand (Head-SCM), Mr. T Anil (Divisional Mgr. -SCM), Mr. R M Shrivastva, Mr. Rajesh Pal



Manitou France Visit at CFD, Pune, Left to Right: Mr. Rajesh Pal, Mr. Florent Charbonnier (Project Manager –MHA Division), Mr. Y M Patil



16 Representatives from Whirlpool, Pacoline, K. K. Nag, Ankita Plast, Willow, Mehata Pressing and B. M. R. visited Sandhar Components, Pune to witness the 5S practices and production process.



Mr. Jeeva (Department Head-Purchase Promotion); Mr. V. Narendran (Asst. Manager-CE Promotion), Mr. Amit Soam (Asst. Manager-Purchase Engineering), Mr. Shaileendra Pratap Singh (AGM- Purchase Engineering) from Yamaha Motor Research & Development India Pvt. Ltd. visited the Sandhar Automach, Attibele plant to explore new business opportunities.



Manitou France Visit at MAG Engineering, From Left :- Mr. G J Singh, Mr. Florent Charbonnier (Project Leader - MANITOU Group)



Mr. Jayant Davar, Our Co-Chairman and MD, visited Sandhar Automotives, Pune to take an overview of the entire process for ORVM assembly for TML, MVL and John Deere



NIS Bangalore students of class XII visited MAG Engineering for Industrial experience, NIS Teachers and Students with Mr. G J SINGH and Mr. Chandan Roy





35 final year M.B.A students from Raisoni College visited Sandhar Components, Pune along with their co-ordinator Ms. Anita Darekar, Director Dr. Yogesh Mahajan and Mrs. Rupali Mane for a first hand industrial experience



Sany Team Visited CFD, Pune, Left to Right: Mr. Y M Patil, Mr. Deepak Tripathi (AM Purchase -SANY), Manoj Mishra (Sr. DM Supply Chain -SANY), Mr. Sanajay Honmode (Sr. GM Purchase - SANY), Mr. G J Singh, Mr. Deepak Garg (Director & CEO SANY South Asia), Mr. Mahesh Tripathi (VP SCM - SANY), Mr. RM Shrivastva, Mr. Rajesh Pal, Mr. C.K. Karhadkar



Tata Hitachi - Dharwad Team Visited CFD, Pune, Left to Right: Mr. Rajesh Pal, Mr. R M Shrivastva, Mr. Pushkar Pandit (Asst. Divisional Manager- SCM Sourcing), Mr. Pradip Kumar Roy (AGM-Design & Development), Mr. Venkteswaran (Sr. Technical Lead), Mr. Naren Brahme (Program Manager-Engineering and Design)



HATTAT TRACTOR Team Visited CFD, Pune, Left to Right: Mr. Alper (Purchasing Chief - HATTAT), Mr. Ravindra Maske (Project & Purchase Chief - HATTAT), Mr. R M Shrivastva, Mr. Recep (R&D Manager - HATTAT), Mr. Alaaddin (Process Control Executive - HATTAT), Mr. Rajesh Pal



Senior officials from Honda Motorcycles and Scooters India Pvt. Ltd.' visited HSCI Division for verification of Pokayoke equipment in Paint shop as we have installed an innovative system to avoid human error:

From Left to right: Mr. Naveen Rana, Mr. Praveen Sangwan, Mr. Rajesh Kumar, Mr. Dheeraj Bhatt, Mr. Neeraj Kumar, Mr. Yash Kumar Tyagi, Mr. Rajeev Taneja, Mr. Anand Aggrawal, Mr. Ajay, Mr. Amit, Mr. Prabodh Kumar, Mr. Toshiaki Tomita, Ms. Sunita Vohra



Hyundai Team Visited CFD, Pune, Left to Right: Mr. Kapil Waware, Mr. G J Singh, Mr. S. J. Lee (Engineering-GM), Mr. Shrikant Nargide, Mr. Rajesh Pal



Hyundai Team Visited CFD, Pune, Left to Right: Mr. R M Shrivastva, Mr. Mahesh Kulkarni (Purchase head), Mr. Amit Sahgal (Manager-Purchase), Mr. G J Singh



Mr. Dheeraj Mehta (Manager) of IKEA India visited Sandhar Automotives, Gurgaon to take an overview of the entire process and explore New Business Development.



## Visits@Sandhar



The Engineering students of MIT engineering college, Pune visited Sandhar Automotives, Pune unit to get a first hand industrial experience.



JCB PURCHASE TEAM VISITED CFD, PUNE, Left to Right: Mr. Rajesh Pal (DGM Engineering-CFD), Mr. R M Shrivastva (Unit Head -CFD), Mr. Kanchan Koti (DGM Purchase-JCB), Mr. Vijay Kumar (Sr. Manager Purchase-JCB), Mr. C. K. Karhadkar (AGM Quality-CFD), Mr. Amol Joshi (Manager Engg.-CFD)



JCB UK/Indian Design Team Visited CFD, Pune



A team from CNH and SUMITOMO visited MAG to discuss new Business potential – Left to Right: Mr. Praveen V., Mr. Chandan Roy, Mr. Jatinder Rajpal (India head – Supplier Quality Engineer - CNH Industrial), Mr. Massimo Alzati (APAC head -Product development Purchasing- CNH Industrial), Mr. Tonino Grifone (Chief Engineer –Excavators – CNH Industrial), Mr. G. J. Singh, Mr. Ryohei Shinada (Engg head – Sumitomo), Mr. Mukesh Chaudhary (Purchasing Head –CNH Industrial, Pithampur), Mr. Melchinger Uli (PD Mgr – Hydraulics –CNH Industrial), Mr. Toshihide Ohkubo (Purchase Director –Sumitomo), Mr. Mallikarjun Kori, Mr. Prabhakar Naidu



Case New Holland Construction Equipment visited CFD, Pune Left to Right : Mr. C.K. Karhadkar, Mr. Tanino Grifone (Engineering leader-CE), Mr. Toshihide Okube ( Staff manager); Mr. Mukesh Chaudhary (Head –Purchase), Mr. Vinod Verma (AGM-SQE), Mr. Rajesh Pal, Mr. Y M Patil



Delegates from CTS – Corporation China visited Sandhar Automotives, Dhumaspur for understanding the manufacturing process and business opportunities. Left to right: Mr. Sunil Sharma, Mr. Chris Congdon (Supplier Development, Manager), Ms. Sylvia Toma (Supplier Development, Manager) & Ms. Vinita Shaw



Caterpillar team at MAG Engineering, Left to Right: Mr. Madhavan (CAT category buyer), Mr. Chandan Roy, Mr. Ian Frewer (Caterpillar- Category Buyer Europe - MCIPS), Mr. G. J Singh, Mr. Richard Heald (Caterpillar), Mr. Prabhakar Naidu



The families of our associates and staff visited HSCI Division, during the visit they showed their creative side through painting and drawing, visited the plant to see how the work is done and gifts were distributed to them by Mr. Praveen Sangwan and Mr. RK Malik.





The Graduate Engineer Trainees from Hero MotoCorp, visited Sandhar Automotives, Gurgaon on 5th Nov'16 to get a firsthand experience about our Operations and Facilities.



On behalf of General Motors, China Ms. Xueqin Lu (Supplier Quality Manager-Interior & Safety) visited Sandhar Automotives, Pune along with Mr. Suhas Hone (Manager) This visit was aimed to have an overview of MCM R@R and discuss new product development



Delegates from ACMA visited Sandhar Automotives, Dhumasapur for understanding the manufacturing process and business opportunities.



CII Northern Region organized a Manufacturing Study Mission Visit to Sandhar Automotives, Pune wherein 47 member companies participated. This visit was organized to understand the Manufacturing Best Practices of Sandhar.



Mrs. Sumi Saraf DGM-Procurement and her team from Ashok Leyland visited Sandhar Automotives Bommasandra to explore new business development opportunities. They visited various departments and production line and discussed the future business potential.



Atlas Copco Team Visited Cabins and Fabrication Division, Pune, Unit Head RM Shrivastva with Atlas Copco Purchase & Design Team



Ms. Pushpa Arya (Deputy Manager -Sourcing) of Ashok Leyland, Pantnagar, visited Sandhar Automotives, Haridwar to take an overview of the entire process and explore New Business Development.



DOOSAN Team visited MAG to discuss New Business Development, Left to Right: Mr. Vijay (Doosan), Mr. Ajay Rajpur (Doosan), Mr. Pryan Cui (Doosan), Mr. Chandan Roy, Mr. Zhengchao Cui (China Tech. Manager, Doosan), Mr. Maxis D'Souza



# Know your units

## SANDHAR MAG, BENGALURU

(Sandhar Technologies Limited - Cabins & Fabrication Business by Gurvinder J. Singh Business Head)

Sandhar's Cabins & Fabrication Business – a vertical conceptualized in 2009-10 has realized into a sizable business with its presence in Bangalore- Mag Engineering and Pune - Cabins & Fabrication Division, within a short period of 4 years. Both the locations together have manufacturing space of approx. 350000 sq. ft with state of the art facilities. Today this vertical is successfully servicing almost all the major OEM's in the country in Construction Equipment sector.

### The Beginning

Looking at the country's fairly inadequate Infrastructure and Government's high focus on Infrastructure Development across the country, the Sandhar Group decided in 2009-10 to enter into "Cabins & Fabrication business", mainly to support Construction Sector Original Equipment Manufacturers. Sandhar already being into Automotive sector, manufacturing locks, hinges, mirrors etc. was also considered as an advantage to be passed on to customer as a basket of products, while supplying Operator's Cabins and other parts

### MAG Engineering - Bengaluru

In 2011, Sandhar got the opportunity to acquire MAG Engineering ( started in 1984) in Bangalore, which was already into manufacturing of Operator's Cabins and many other Fabricated parts including Fuel and Hydraulic Tanks for major Construction Equipment OEM's (refer - 1)

As destiny would have planned it, on 2nd Aug'2012, after a thorough Due Diligence of almost 8-9 months, Sandhar acquired MAG Engineering Pvt. Ltd. and it became MAG Engineering ( A Unit Of Sandhar Technologies Limited ), it was a 100 % shares acquisition.



1

The name MAG was retained in the new acquired company for its legacy and to give continuity and comfort to the customers. A new company Logo was launched on acquisition:



MAG Engineering has two manufacturing facilities in Peenya Industrial Area, Bangalore with approximately 500 experienced people working in it.



UNIT - 1



UNIT - 2

MAG offers its customers a state of the art sheet metal integrated manufacturing facility with one of the largest collection of AMADA (Made in Japan) CNC machines, a well-equipped fabrication shop, Liquid Painting & Powder Coating and Assembly lines under one roof (refer - 2)





## Know your units

*MAG Engineering services global customers like – Tata Hitachi, Komatsu, Caterpillar, Volvo, Leeboy, BEML, Doosan, BFW, to name a few, from its Peenya Facilities.*



On the Quality and Environment Management Systems -Mag is an ISO- 9001 and ISO-14001 certified company and currently working to achieve OHSAS-18001.

MAG is now seamlessly integrated with Sandhar Group, its policies and Best Practices

Keeping overall development in mind, apart from various job related regular trainings and workshops, softer skills like motivation, positive thinking, and stress reduction sessions are regularly conducted by internal faculties. Apart from this we have Indoor and outdoor facilities like, reading room, carom, chess, volleyball, badminton etc. Ganesha Chaturthi is also celebrated every year by performing havan at both the units (refer - 3)



3

In-house canteen in both the units, where the food is cooked inside takes care of the quality of food and hygiene. The food waste generated is again processed internally and converted into Manure, which is used in the garden area. (refer - 4)



4



Approx. 500000 liters of water is treated every month and used in garden, toilets, cleaning and washing purpose. Excess treated water is supplied to a nearby Auma Public park for gardening. This is highly appreciated by the Pollution Control Board.



Annual medical camp is arranged in the units for benefit of all employees.



Since Acquisition, Mag has won many Awards for Best Quality, Excellent Deliveries and Significant Overall Support, from its major customers on year after year basis, which keeps the motivation and zeal to perform Better by the Day.....



2013



2015  
**Volvo**



2016



2013



2014



2015

**Tata Hitachi**



2013



2014



2015

**Komatsu**

Apart from above Mag teams also participate in a big way in CCQC, NCQC and Sandhar's internal quality Circle and KAIZEN competitions and have won many accolades.....

***Together we will make it happen...***

***Sandhar Cabins & Fabrication Division Insulating success !***

Cabins & Fabrication Division Pune to be covered in the next Connect

## Training @Sandhar

**Training Sessions on Weight Balance Check, Use of PPE's, Packing, Poka Yoke, Read Check Standard & Machine Setting** was conducted by Mr. Rahul Katiyar (Asst. Mgr- NPD) at Sandhar Han Sung Technologies Pvt. Ltd where in he provided the knowledge on Machines being operated there.



**Training Sessions on Type of Wastes** was conducted by Ms. Nirjala Chandel (Asst. Mgr- Quality), at Sandhar Hansung. The training included the basic awareness on 11 type of wastes, we face in our day to day operations.



**Training Sessions on SPC** (Statistical Process Control) was conducted by Mr. Deepak Pandey (Operations & Unit Head) Sandhar Hansung. SPC is an analytical decision making tool which allows you to see when a process is working correctly and when not.



**A Training Sessions on Reading of drawing** was conducted by Ms. Nirjala Chandel (Asst. Mgr- Quality) at Sandhar Hansung where employees were trained on knowledge of Drawing Symbols, Measurement of drawings and managing the Projection View.





## Training and Awareness Camp on Cashless & Electronic transaction

The HR Team of Sandhar Technologies Limited-Cabins & Fabrication Division guided the Associates & Contractual workers about demonetization of old Rs 500 & Rs 1000 currency notes and how to go cashless and transact electronically through Net Banking.



## PLC Training

The PLC Training Session was conducted in Sandhar Automotives, Haridwar in September month by Mr. Kavendra Singh (Maintenance & PE Head) & Mr. Rambhagat (Engineer-Maintenance) wherein Maintenance & PE department employees attended the session to upgrade their knowledge and to perform more effectively & efficiently.

## Training on GST (Goods and Services Tax)

The training session on a new law passed- "Goods and Service Tax" was facilitated by Mr. Sanjay Goel (GM – F&A Automotives Vertical). Employees from different departments attended the training & enhanced their knowledge.



## Quality Circle

The training on Quality Circle was conducted by Mr. J.K.Kaushik (Regional Director & Faculty-QCFI, Haridwar) at Sandhar Automotives, Haridwar for the employees.

# Celebrations @Sandhar

## Diwali

Diwali or Deepavali is the Hindu festival of lights celebrated every year. One of the major festivals of Hinduism, it spiritually signifies the victory of light over darkness, good over evil, knowledge over ignorance, and hope over despair.

Sandhar's various Units celebrated Diwali, by organising fun activities, gift distribution, decorating the office and puja. The glimpses are below:



Sandhar Automotives, HSCI Division



Sandhar Automotives, Dhumaspur



Sandhar Automotives, Gurgaon



Sandhar Automotives, Haridwar



Sandhar Automotives, Pune



Sandhar Components, Manesar



Sandhar Automach, Manesar

## Dussehra

Dussehra, also known as Vijaydashmi, is a major Indian festival celebrated on the tenth day of Ashvin month according to the Hindu calendar. This day falls in the month of September or October. The day culminates a 9 day fasting period of Navratri in the Hindu culture. The day also coincides with immersion of the idol of Goddess Durga. The day is celebrated to commemorate the killing of Ravana by Lord Rama. The day also celebrates the killing of demon Mahishasur by Goddess Durga. Dussehra celebration spreads the message of the victory of good over evil.



Sandhar Automotives, Pune



STL - Cabins & Fabrication Division, Pune

## Ayudha Pooja

Ayudha Pooja is a part of the Dussehra festival which is usually celebrated on the ninth day of Navratri Festival. It is a celebration involving the worship of tools which makes ones living. It is believed that by placing these implements in front of the Divine on this day will ritually purify the tools.



Sandhar MAG



Sandhar Automotive, Bommasandra



Sandhar Automach, Hosur



## Vishwakarma Pooja

This is the Pooja of Lord Vishwakarma the divine engineer and main architect of the universe. He is worshipped by the engineering community and workers. On this occasion the Workforce worship their instruments and tools which are used in their profession in front of Lord Vishwakarma. Here are some glimpses of the Pooja.



Sandhar Automotives, Gurgaon



Sandhar Automotives, Haridwar



Sandhar Automotives, Dhumaspur



Sandhar Han Sung

## Ganesh Chaturthi

Ganesh Chaturthi is a ten day Hindu festival celebrated in honour of lord Ganesh. Lord Ganesh is the symbol of wisdom, prosperity and good fortune. He is the younger son of Lord Shiva and Goddess Parvati. Ganesha is known by 108 different names and is the Lord of arts and sciences and the deva of wisdom. This festival is celebrated with extreme devotion and joy in many states of India and even outside the country. Sandhar Components, Pune celebrated Ganesh Festival for 7 days from 5 September to 11 September 2016 with full enthusiasm. Vinayaka Chaturthi Havan was conducted in Sandhar MAG.



Sandhar Components, Pune



Cabin & Fabrication Division



Sandhar MAG Unit - B



Sandhar MAG Unit - A

## Quality Month Celebrated in Sandhar Automotives

November, 2016 is world Quality Month. To celebrate the occasion and promote quality around the unit Sandhar Automotives Gurgaon, Haridwar and Pune organized a series of activities including Quality Games for Associates, Quality Quiz, Slogan and Poster Making Competition, Kaizen Competition. The celebration began with Quality Oath taken by all the staff and associates and continued with active participation from associates.



Sandhar Automotives, Haridwar



Sandhar Automotives, Gurgaon



Sandhar Automotives, Pune

## New Relationships

**Sandhar Corporate Office, October the 12th, 2016:** Sandhar Technologies Ltd. & Jin Hua Hefa Science & Technology Co. Ltd. of China signed a Memorandum of Understanding to explore the business opportunities in Evaporative Emission Control System (EVAP) products for two wheeler industry in India.



**Kumoh Factory, Korea, November 18, 2016 :** Sandhar and Kumoh EMS Co., Ltd. of Korea signed MOU for exploring business opportunities in Magnesium die casting parts like Automobile Lamp Parts, Automobile Head Lamp Assembly Parts, Automobile Sash Parts, Fog Lamp & Shield Parts, and Cooking appliances parts, Military Parts etc in India and abroad.

Kumoh is an ISO/TS-16949 certified company established in 1985, Kumoh is a very renowned name in Automobile Industry in Korea and a leading supplier of Magnesium & Aluminium die casting parts to Automobile Industry and Military and OEMs like Hyundai, Kia, LG etc.

**Sandhar Corporate office, December 23, 2016 :** Sandhar and Daewha Fuel Pump Ind., Ltd. of Korea signed a MOU to explore business opportunities in Fuel Pumps and Fuel/ Air Filters etc. in India and abroad.

Daewha is a pioneer in manufacturing Fuel Pump and Filters and the most preferred choice of OEMs in Korea and other countries. Daewha is supplying their products to OEMs like Hyundai, GM, Tata Daewoo etc.





## New Relationships

On December 24, 2016, Sandhar and PLATO Co., Ltd. of Korea signed a MOU and exchanged documents over mail to explore the business of Motorcycle Smart Key System, Auto Light System, Electronic Time & Alarm Control System, Immobilizer, Full Auto Temperature Control., Power Window, Power Window Safety System, Remote Keyless Entry, etc. in India and abroad. PLATO is Tier 2 supplier to Hyundai, ITOPS, Dong Ah, Sung Chang etc.



## Highlights@Sandhar

### PLM implementation in Sandhar

Product Lifecycle Management (PLM) has been made “Go Live” in the following 5 units of Sandhar Technologies Ltd. recently. The units are (1) Sandhar Components, Bawal unit 1, (2) HSCI Division (3) Sandhar Components, Behrampur (4) Sandhar Components Manesar & (5) Sandhar Automotives Haridwar.

This implementation will help exercise the best practices of Data and Document Control, Engineering Change Management and New Product Development Monitoring Processes. Now with the available set of licenses, the units can manage their RFQ's, Design Data; ECN's & Projects through Enovia.



Sandhar Components, Manesar



Sandhar Components, Behrampur



Sandhar Automotives Haridwar



Sandhar Components, Bawal



HSCI Division

## Bhoomi Pooja at Sandhar Automach, Attibele



Bhoomi Poojan Ceremony is a traditional ritual in India, which is performed before the construction of a house has actually begun. Indians have always worshipped nature, which is why the ground is first worshipped, because it is being broken to construct something, and to receive the blessings of God. Sandhar Automach, Attibele organized Bhoomi Pooja in their unit for Plating Plant Expansion.

# SANDHAR

Growth. Motivation. Better Life

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Sandhar Connect is an in-house newsletter of the Sandhar Group, Intended for Internal circulation only  
(Cover Designed by Harpreet Kaur)

