

# Mahindra Auto Division Bags 'Foundry of the Year' Award



**M**ahindra and Mahindra, Auto Division Kandivali Foundry bagged the prestigious 'Foundry of The Year' Award at a glittering ceremony organised by the Indian Foundry Congress (IFC) at Coimbatore on January 29, 2016.

Mahindra's Automotive Division Kandivali Foundry commissioned in the year 1972 is producing critical automobile components e.g. Cylinder Heads and Cylinder blocks for their captive consumption for various domestic as well as export models.

The success of this award lies in operational excellence in terms of PQCDMSME parameters as well as Technological upgradation to meet rapidly changing demand of customer.

Commenting on the award, Amar Patil HOD- Kandivali Foundry said that, "It is imperative to have right blend between this two, to meet Foundry industry challenges which are currently faced by most of the Indian Foundry Industry."

He added that, "First and foremost is to build a clear vision which will help us in realising dream. Mahindra's Group aspiration of being amongst the top ten global Automotive brand by 2021 by enabling people everywhere to rise which is in line with Mahindra Rise Philosophy guided by three pillars. Accepting no limits, driving positive change and alternative thinking."

Various lean manufacturing tools were adopted by AS Kandivali Foundry, e.g. 5S, TPM, MOST, VSM, TS 16949, ISO 14001-2004 and OHSAS 18001-2007 which gave enormous benefits under 3-P (People, Planet and Profit in realising this success).

Patil commented that human is a key important factor in leveraging all the resources (4M) efficiently and effectively.

Various steps taken in transforming AS Foundry under operational excellence were:

- Upkeep of health of equipment by restoring and sustaining its basic condition to deliver consistent performance. (OPE achieved for Foundry plant is 88%)
- Strong Process control to eliminate variability in process by sensitising people with First Time Right, Every Time Right and delightful customer experience

- Extensive use of MOST and TPM technique to improve labour efficiency along with machine efficiency.

- Various safety measures e.g. BBS, TPM, 5S, SOT has achieved drastic reduction in Injury cases.

- Focus on Kaizen improvement in their respective circles with an approach of total employee participation by empowering and encouraging people to take more initiatives as well as recognising their efforts through structured process of reward and recognition. (Achieved 12 nos. implemented Ideas per person per Year)(won various national level kaizen under CII/JIPM/ TPM Club Of India/ INSAAN)

- Robust system based approach to meet 100% delivery schedule adherence with zero trauma. (zero vehicle loss despite single source for 85% of products)

- Stringent environmental controls by adopting various measures under Eliminate, Contain and Reduction (ECR) approach. (Set own pollution control norms which are more stringent than govt. statutory norms) has helped in contributing under sustainability.

Patil said that various steps taken in transforming AS Foundry under Technological Upgradation were:

- Automated Core shooters for Shell and Cold box process, and various low cost automations in the areas of Core dressing, Core coatings, Core drying areas.
- High Pressure molding line, RTC controls on sand mixers, Sand cooler etc.
- Induction melting Furnaces with in-built Melt manager facilities, on line metal temp and composition monitoring. Press pour in Pouring area.
- Introduction of SPM for Casting targeting operation.
- On line casting inspection facilities through conveyor with various low cost automations in the areas of improving millipour values which is a critical parameter for automotive Industry.
- Introduction of various Poka yokes to enhance quality and safety parameters at various equipment and machines.
- SSESergonomic tool to eliminate fatigue at work stage and various improvement projects like low cost automation, KARAKURI Kaizen throughout the Foundry.

Patil praised the management support he received through various measures in meeting business aspirations through structured policy deployment with cascading down approach from group aspiration to sector policy and from sector policy to plant policy etc. Some of the other measures were to build clear linkage between management Indices KMI's, Performance Incises (KPI's) with an essential enablers (KAI's) to drive various activities in achieving various result parameters. Patil further said that winning is an internal urge to do better than the previous. It is to challenge one's self to excel and exceed expectations. "In this complex business environment, an efficient and effective individual can contribute in making winning teams by people development which is a key focus of management," he added.