



DR. D Y PATIL SCHOOL OF MANAGEMENT

LOHEGAON, PUNE-412 105

INDUSTRIAL VISIT REPORT

2017

at



CUMMINS INDIA PVT. LTD

Kothrud, Pune



Dr D.Y. PATIL SCHOOL OF MANAGEMENT

Lohegaon, Pune

TABLE OF CONTENTS

1. EXECUTIVE SUMMARY
2. INTRODUCTION – CUMMINS INDIA PVT. LTD., KOTHRUD, PUNE
3. VISIT INSIGHTS
4. EXPERIANCE
- 5. CONCLUSION**

EXECUTIVE SUMMARY

“DON'T STUDY FOR GOOD MARKS OR GRADES BUT STUDY FOR EXCELLENCE, KNOWLEDGE AND LEARNING” -

MR. BALAKRISHNAN

Dr. D.Y. Patil School of Management arranged an Industrial Visit to Cummins India Pvt. Ltd, Kothrud, Pune on 10/10/2017 (Tuesday) with 45 Management Students and 6 Teachers. The purpose of the visit was to enhance industry exposure of the participants and get practical insights of industrial Techniques. The main objective behind the visit was to make student aware about how various activities related to marketing, financing, operations and human resource are carried out in company and give them feel of managers as soon as they start there course.



INTRODUCTION



Why We Exist: Our Mission

We Unleash the power of Cummins by –

- Motivating people to act like owners working together.
- Exceeding customer expectations by always being first to market with the best products.
- Partnering with our customers to make sure they succeed.
- Demanding that everything we do leads to a cleaner, healthier, safer environment.
- Creating wealth for all stakeholders.

What We Want To Accomplish: Our Vision

Making People's lives better by unleashing the Power of Cummins.

How We Will Do It: Our Values

INTEGRITY - Doing what you say you will do and doing what is right

DIVERSITY & INCLUSION - Valuing and including our differences in decision making is our competitive advantage

CARING - Demonstrating awareness and consideration for the wellbeing of others

EXCELLENCE - Always delivering superior results

TEAMWORK - Collaborating across teams, functions, businesses and borders to deliver the best work

1962

The company was incorporated on 17th Feb., at Pune. The Company manufacture internal combustion engines in particular diesel engines of all sizes and capacities, reciprocating piston engines, gas turbine engines, gasoline engines, etc.

Formed in 1962, the largest entity, Cummins India Limited, is the country's leading manufacturer of diesel and natural gas engines. One of the eight legal entities of the Cummins Group in India, Cummins India Limited comprises of three business units - Engine, Power Systems, and Distribution.

Cummins in India, a power leader, is a group of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, air handling, filtration, emission solutions and electrical power generation systems. Its technology and pioneering initiatives are bringing innovative solutions and dependable services at the best possible value to users across the country. Its high performance outlook is based on customer focus, integrity and capability of its people.

Cummins India Limited is a 51 percent subsidiary of Cummins Inc. USA.



VISIT INSIGHTS

As Scheduled, our team was reached Cummins India, Kothrud, Pune at 11.30 AM. At the entrance the security personnel issued each student an Visitors I-Card. After receiving I-Cards Our Team was divided Into 2 Groups and then we all are gathered in the Company's Main Hall where Ms Chahat Garg and Mr Nitin Kale gave us brief introduction of guidelines to be followed during visit. Then as per instructions all students are went to wear **“Safety Shoe & Safety Glasses”**. Safety shoes are made up of heavy leather and in between metallic plate was also fitted in shoes. As per company rules you can not enter in company's manufacturing or Assembly unit without wearing Safety Shoes and Glasses.

After this we all went for our Factory Visit, where Mr Shaikh gave comprehensive details of the company operations and assembly unit and how they excelled in optimizing their business process focusing on key areas. Our team was headed by one manager of company who helped us to understand how production is carried out in company and how company reach their customer. At the visit he explained what is Engine?, What are the uses of Engine?, How they works?, How Company Assemble Heavy Engines?, Production Process, Post-Production Process, Supply Chain, Assembly Process, Engine Capacity, Engine types, Quality Checking, Error Detections, Packing & Distribution, Electric Engines and Legacy of Cummins etc.

At Pune Plant company design and assemble V-Shape Engine which are very useful in Gulf Countries. The average cost of V-Shape Engine is very High i.e from 70 Lac. To 2 Cr. Each. That's why here company used batch production process and ignore mass production. In India V-Shape Engine are designed and assemble only at this plant of Cummins India. They are using TPS (Toyota Production System) in their KV Assembly unit. In this unit there are 24 stations and at each station 2 workers are doing their job. Bar coding, billing, small or bulk part fitting, gear cutting, quality check-up, cleaning of small parts & coloring of engine are included in this stations.

According to company's instructor the average weight of V-shape engine is 10 ton and it takes 30 hours (Min.) to assemble 1 engine. As we all know, Cummins India is quality conscious company. So, Company always takes care of their products and it costs Rs. 25,000 for testing an V-shape engine. Famous suppliers of Cummins India are Powarika, Sandeep, Jackson and Makro and Cummins India is very famous for producing high speed engine.

Maximum production in company is carried out by means of machinery subdivide in various activities like inception of raw material, engine equipment design process, assembly process, covering & coloring the engine and then converting it into packed finished goods (V-Shape Engine). Finally Finished goods are packed and are sealed where production batch no is embossed for its future verification required. Company defective ratio is less than 1 percent which show the how effective company works.

We took almost an hour to see complete set of production which was followed by questions of students. we appreciate staff member who guided students with each and every question with detailed answers.

Question & Answer session was followed by Lunch which was like icing on the cake for us. After having testy meal all students are gathered in company's meeting hall. Dr Goutam Saha & Prof Anil Kulkarni has conducted a discussion session. Where few students shared their experience of Industrial Visit and Magic Friday activity.

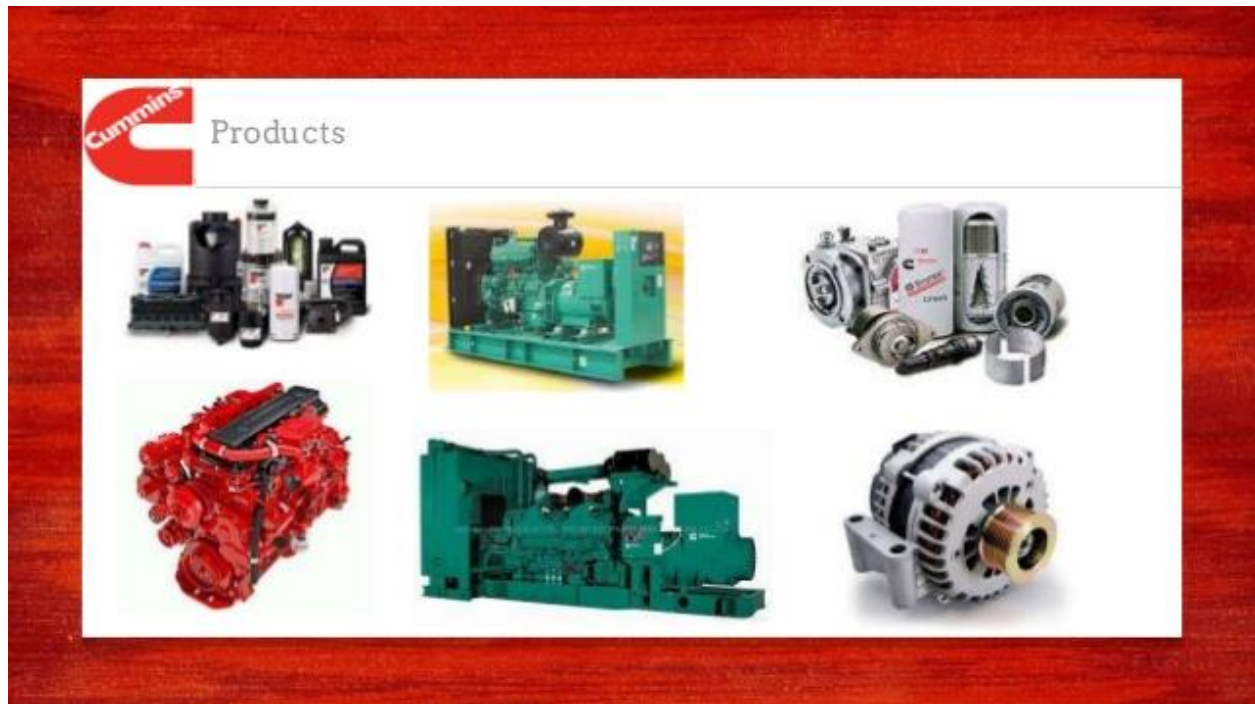
It is rightly said that "See & know" is better than "read & learn". Students have got real feel of company's working after this visit. They got a chance to transfer their theoretical knowledge to practical implication. This will even help students to understand subject matter clearly in future also.

V-SHAPE ENGINE

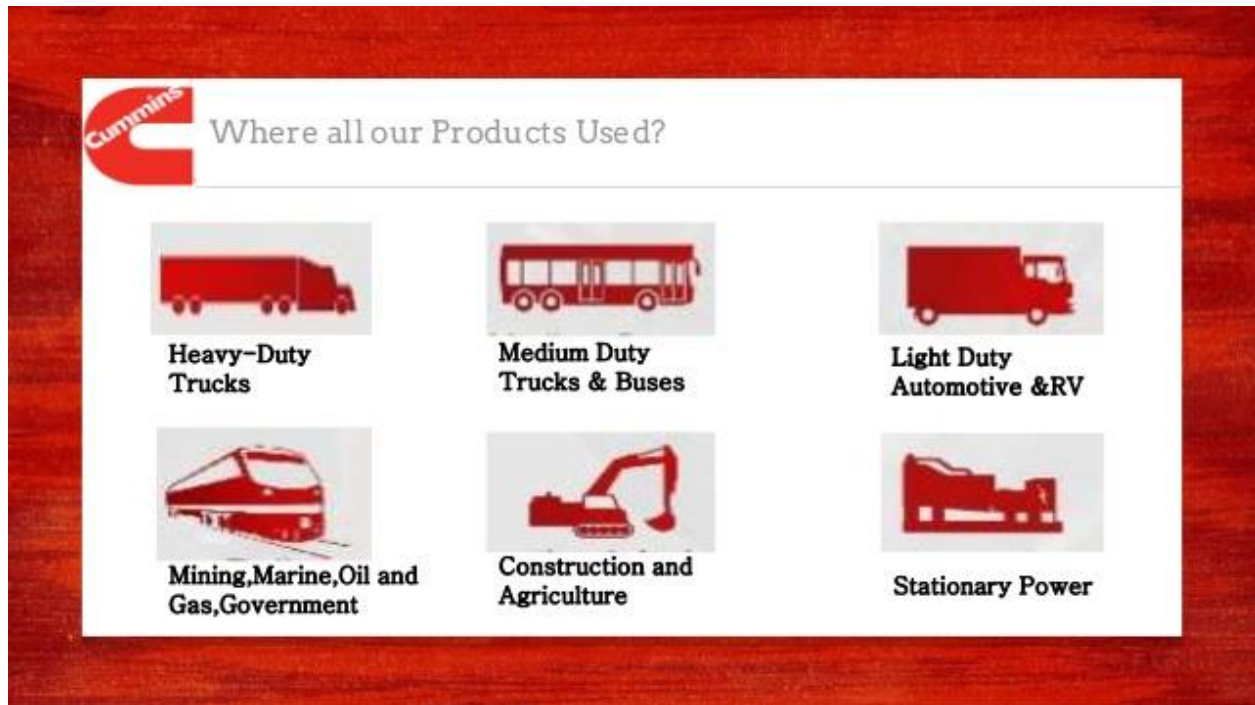
An engine or motor is a machine designed to convert one form of energy into mechanical energy. Heat engines burn a fuel to create heat, which is then used to do work. Electric motors convert electrical energy into mechanical motion, pneumatic motors use compressed air and clockwork motors in wind-up toys use elastic energy.

Whereas, V engine, or Vee engine is a common configuration for an internal combustion engine. The cylinders and pistons are aligned, in two separate planes or 'banks', so that they appear to be in a "V" when viewed along the axis of the crankshaft. The Vee configuration generally reduces the overall engine length, height and weight compared with an equivalent inline configuration.

Product Details



Where they used this Product ?



Their Process

1. Put the customer first and provide real value.
2. Synchronize flows (Material, physical and Information.)
3. Design quality in every step of the process.
4. Involve people and promote teamwork.
5. Ensure equipment and tools are available and capable.
6. Create functional Excellence.
7. Establish the right environment.
8. Treat preferred suppliers as partners.
9. Follow common problem solving techniques.
10. Use SIX SIGMA as the primary process improvement method.

Experience from the Industrial Visit

- Interaction with Guides and other person from the industry is motivating.
- 'See & know' is better motto than 'read & learn'.
- After completing the industrial visit, we have upgraded our knowledge at a very great level.
- It was a good learning experience. In each & every department, we got new ideas and new thinking which was very necessary for our Personal development.
- We have visited the entire process department. They are using new technologies that helps us to understand about the role of advanced technology in productivity of Manufacturing goods.
- They are strictly following quality & safety aspects. It is desirable to review various aspects & sum up the industrial visit.
- During industrial. visit, we feel very much satisfied by acquiring information of various department & knowing many new things.
- The industrial visit helps how to translate theory into practical

CONCLUSION

We conclude that while going through the entire industrial visit, the cooperation is found to be very well organized, developed & most ideal industry in every walk of its production, administration & management aspects.

We extend our heartiest thanks to CUMMINS INDIA for making 10/10/2017 (Tuesday) a day to cherish for some of the lucky students who are honored with your humble gesture to get an opportunity to visit such an esteemed organization.

We would like to extend our gratitude to company for permission and support they gave to make our visit a success with accomplishment of objective and our director Dr. E. B. Khedkar for arranging this visit for our student.





--END--