



Parul Institute of Management and Research

Report on Industrial Visit at

Panasonic Battery India

Company Ltd.

11th August, 2014.

For Semester 1 students



Industrial visit was carried out at PANASONIC BATTERIES INDIA CO Ltd. on 11th August, 2014 especially for semester one student. The main objective behind the visit was to make student aware about how various activities related to marketing, financing and human resource are carried out in company and give them feel of managers as soon as they start there course.

I along with 35 students left for visit at 10 a.m. and took about half an hour to cover the distance. The company is located in Makarpura in Vadodara city.

As soon as we reached company we were guided by Mr Kapil Patel to canteen for breakfast where a orientation of company was given by heads

of production department about history and how company was established.

It was great to know that company follows Japanese principal of equality among all the level of employees in company because of which they have same dress code and same canteen right from higher level managerial team to lower level workers. We found even canteen employees in same dress. Company have a policy to gather every morning for few minutes where they conduct prayer, narrate principles of company and are given chance to come forward. It is the place where any new policy matters are informed to all employees in once.

Company follows principle of "People before Product" which was clearly visible from safety measures taken by company and other policies. The conception of this philosophy is derived from the core objective of the company – 'To Contribute to the Society'. Adhering to this philosophy, the Company balances its business and manufacturing activities with its impact on the communities and people at large. Recognizing their responsibility towards their people, Panasonic Energy India passionately strives to attain progress and development of society through its operational activities. This core philosophy of 'People before Product' has been imbibed and executed by all the employees from the top level executives to lower level personnel across the organization.

As a global company, PANASONIC is active in more than 100 countries with affiliated companies, associated with thousands of customers and suppliers. Their greatest asset is their brand and its values. Their brand promise is the heart of everything they do and everything they say. This is what that differentiates them and is the embodiment of the promise they make to their customers.

Their slogan 'Ideas for Life' is their central organizing thought. Every Panasonic product or service is created from these 'Ideas for Life'.

Panasonic battery India co. Ltd. has the below stated objectives are given below:

- To earn Medium Profit.
- To provide social facilities.
- Continuous improvement through reduction of Rejection and Rework.
- Contribution in the development of the country.

After introduction all students were divided in four groups of 15 students and were headed by one manager of company who helped them to understand how production is carried out in company and how company reach their customer.

Maximum production in company is carried out by means of machinery subdivide in various activities like inception of raw material, mixing process, making jackets, covering the product and then converting it into finished goods. 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.

At Vadodara manufacturing of R20, R40, AA, AAA and R14U batteries take place for different class of people and different use. Company produce even separate set of production for defence also.

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

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.

Me along with student 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 P. G. K. Murthy for arranging this visit for our student.

Thanks

Prof Khyati Shah

(in coordination with students)

Thank You...

A
REPORT ON
INDUSTRIAL VISIT
TO
CEAT TYRES PVT. LTD.
HALOL PLANT



ON 20th AUGUST 2014
BY STUDENTS OF
SECTION – C (PIMR)
ACCOMPANIED BY
PROF. PARESH PATEL & PROF. JAYPRAKASH LAMORIA
ORGANIZED BY
PARUL INSTITUTE OF MANAGEMENT AND RESEARCH



➤ INTRODUCTION TO CEAT TYRE COMPANY:

CEAT TYRE was established in 1958. In 1982, the RPG Group took over CEAT Tyres of India, and in 1990, renamed the company CEAT Ltd. CEAT TYRE company is located in Halol near Vadodara, Mumbai and Nasik. At Halol Plant it was founded in 2009 and commercial production start in march 2011. Company is mainly dealing with TYRE of Heavy vehicles like Trucks, Buses etc. As well as for the Cars. Mainly the company produces two types of tyres on technology Radial technology and Bias technology. For each & every new innovations, new technology company is always efforting by its Research & Development Department. The plant in Halol is spreaded in 160 acres.





➤ FACILITY PROVIDED BY CEAT TYRE:

CEAT is not resting on their laurels. Out hunger for growth continues with an upcoming plant and production of various PCR and TBR sizes for the Indian as well as export market. CEAT is looking at expanding its capacity from 9.4 Lacs tyres per month to 3 million tyres.

For better deliverance, they are working towards technical collaborations with leading tyre majors across the globe.

Manufacturing Facilities:

CEAT is growing at an incredible pace.

- 4 manufacturing plants - 3 in India and 1 in Sri Lanka
- 10 outsourcing units for tyres, tubes and flaps
- 3 dedicated 2-3-wheeler plants controlled by CEAT

➤ INFORMATION REGARDED TO EMPLOYEES

INCEAT TYRE:

- Mostly two types of Employees working with the organization. Associates (Diploma/Engineer Freshers) and M1&Above(Managers).
- Providing Training, Know your machine ,On the job training for freshers.
- Provided Medical camp, Female employment, Other NGO, Learning the new things for the other people beside the employees.

➤ ABOUT THE PRODUCT:

- Mostly two types of technologies are used.
(i) Radial Technology (ii) Bias Technology
- Raw material used in product.
(1) Rubbers: Natural Rubber, Butile Rubber, Synthetic Rubber
(2) More than 50 chemicals are used in the product.
(3) Copper wire is used for the purpose of grip.
- Two types of Mixer are used to mix the raw materials. These are Master and Final Mixer.
- For creation of one TYRE it passes from total 9 phase.

➤ EXPORT & COLLABORATION OF COMPANY:

- CEAT makes highest export from INDIA in Truck, OTR & LCV categories.
- From the current scenario CEAT stood on 3rd Rank in India in selling TYRES. 1st Rank is MRF TYRES and 2nd Rank is APOLLO TYRES in India.
- It has collaboration with the company of Sri Lanka with the share holding of 51%.

➤ CHALLENGE FACED BY COMPANY & IMPROVE:

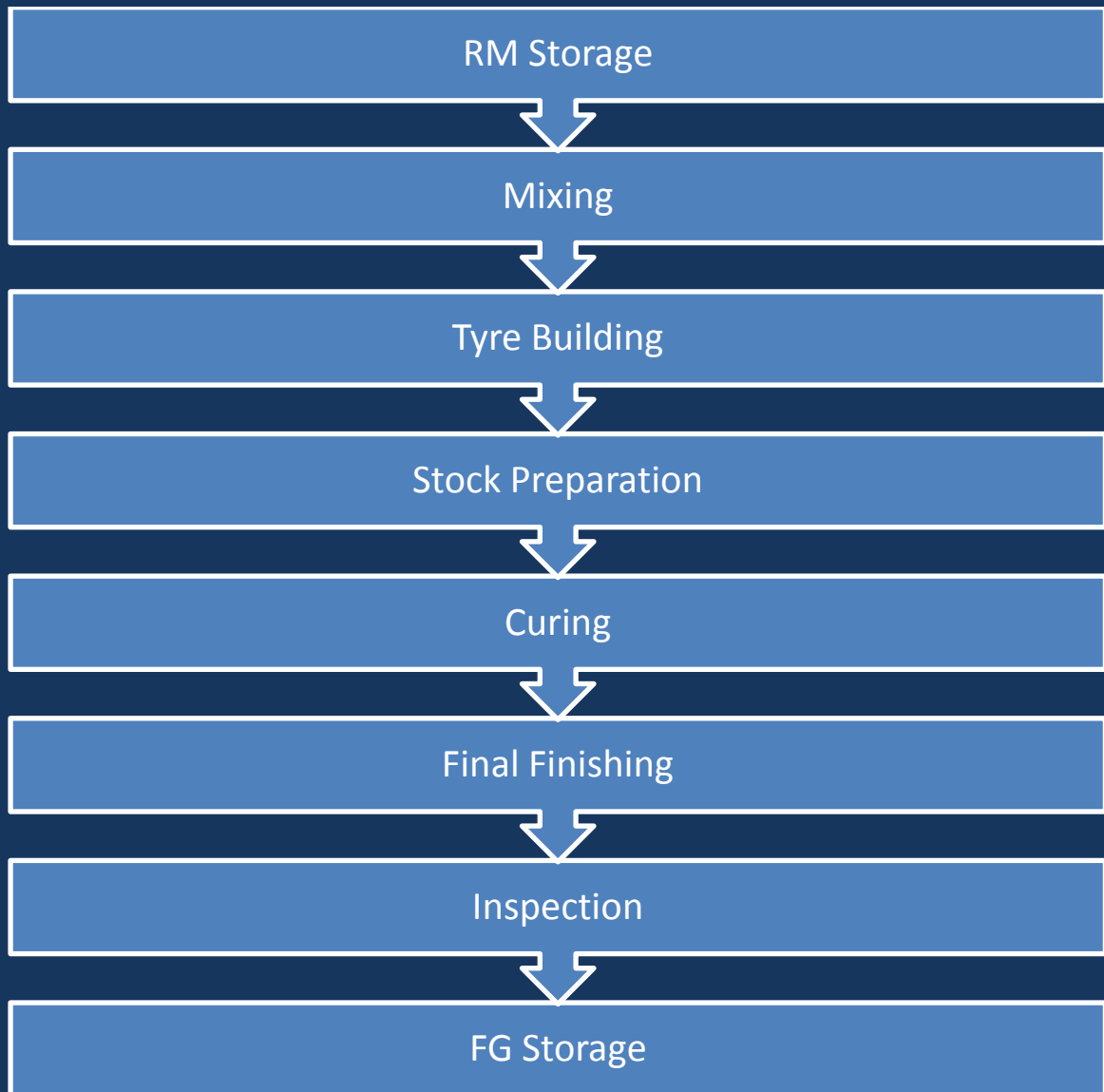
- High Employee Turnover Ratio – more than 40% per year.
- Low employee engagement and High Employee Absentism.
- Improved by the result of high employee engagement from 44 % to 68%.

➤ What did we do...

- We have visited whole plant of the industry and saw how the TYRE is actually made by the function of each & every machine like Mixer, Metal detector etc.



➤ **PRODUCTOIN PROCESS:-**



➤ RAW MATERIAL USED

- Buta Ruber, Natural Ruber, Synthetic Ruber, 50 Types Of Chemicals And Sulfer Base, Cooper Wire, Fabric.
- Carbann Charging Machine:- In The Starting Of The Process, Buta Ruber, Natural Ruber & Synthetic Ruber are Sended To Carbann Charging Machine, Where All The Ruber Mixes As Per The Requirement.

➤ Master Mixer

- After Mixing Of Ruber, Mixer Is Sended To Master Mixer For Addition Of Different Types Of Chemicals. And It Mixes Ruber & Chemicals.
- Final Mixer:- Final Mixer Is Machine Where Sulfur Base is Added.

➤ Triplex Extrude

- Triplex Extrude is the place where sheets of tyres are prepared.
- Calendar:- In Calendar Sheets are coated by Fabric & Cooper, called Bead Winding.
- Fabric is used for PCR & Cooper is used for TBR. After Coating Sheets are Checked Automatically by Metal Detector for its Perfectness.
- Now From here the material goes in two ways, that are for PCR & TBR. But the ahead Process is same for both.

➤ Cutting

- As per requirement, Machine cuts the Sheets.

➤ RMS

- In this, there are three levels, In First level 3 Or 4 Sheets(As Per Requirement) are Combined , In Second Level Combined Sheets are sended to B&T SIDE for shaping of Tyre and in Last Level, that is CARCASS SIDE, where Tyre Base is Created.

➤ Curving

- In Curving, Tyre Base is kept in MOULDING for 55 Minutes, where Tyres are Curved.

➤ Inspection

- Each Tyre is inspecte Manually by workers.
- At Each Level 1 Piece Per Carton is tested in R & D Department.
- The Defective pieces of tyres & Carton of work-In-Progress are cutted and sold out to smaller Businesses.

➤ Experience from the Industrial Visit

- Exposure to better industrial and business practices in progressive economies.
- Interaction with Guides and other person from the industry is motivating.
- Know business skills in a global context encouraging cultural interaction to learn better coordination between various Departments.
- '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 CEAT TYRE for making 20^h August 2014 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 want to thank to HR Manager Krushna Vaidhya Mam , Operation Head Mr. Hemal Patel and Mr. Mahavir Sir for guiding and sharing information about organization profile and manufacturing process at CEAT TYRES PVT. LTD. Halol Plant.

- We also want to thank our director Dr. P.G.K Murthy Sir and faculty members, Prof. Paresh Patel and Prof. Jayprakash Lamoria for coordinating the Industrial visit.



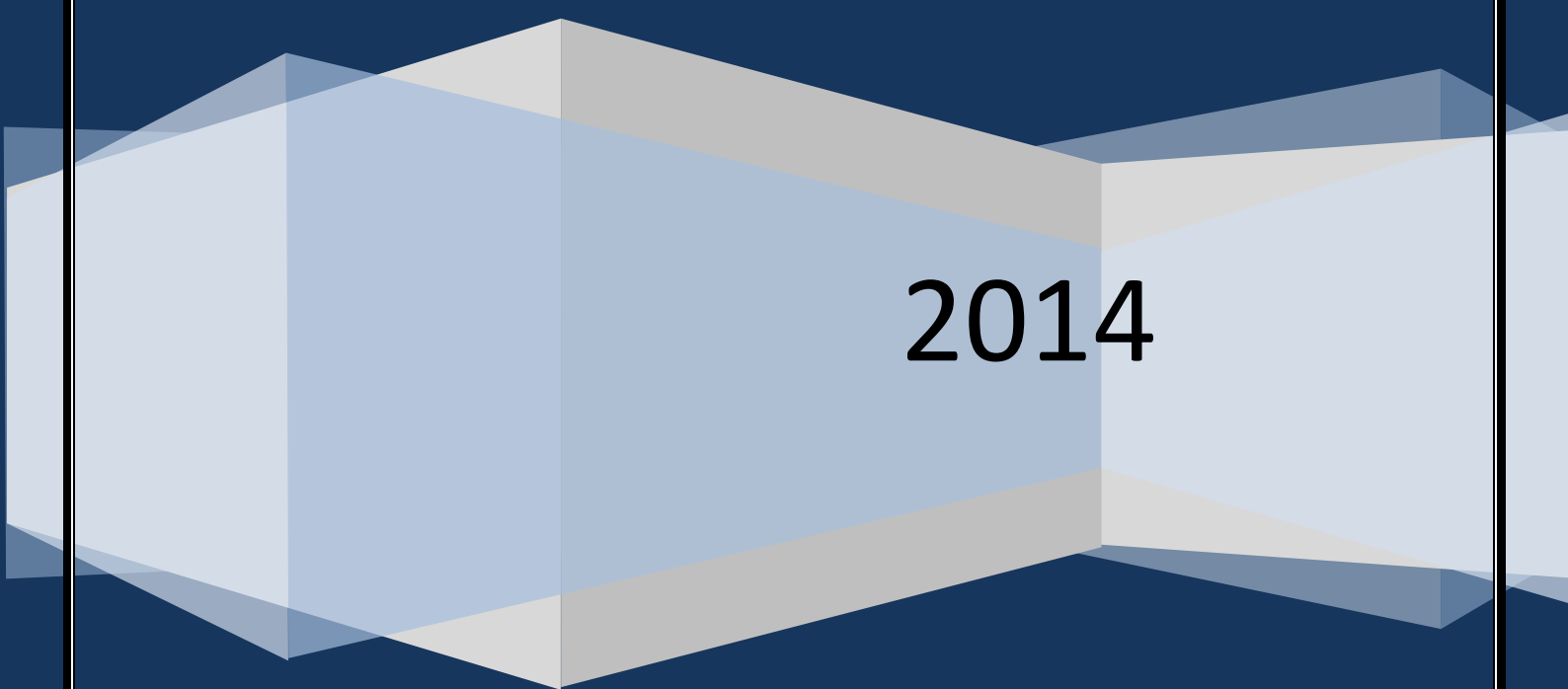
Thank you

PARUL INSTITUTE OF MANAGEMENT AND RESEARCH

INDUSTRIAL VISIT REPORT

BARODA MOULDS AND DIES

BY – MBA students



2014

Contents

1. Introduction
2. Organizational structure
3. Products
4. Process
 - 4.1 raw materials process
 - 4.2 Die working
 - 4.3 Finishing
 - 4.4 Testing
 - 4.5 Packing
5. Achievement
6. Conclusion

1. Introduction

BARODA MOULDS AND DIES

48, 30, 31 &32, GIDC, Waghodia,

Dist. Baroda-391760, Gujarat

Ph.: +91-02668-262148

bmd@epoxyhouse.com

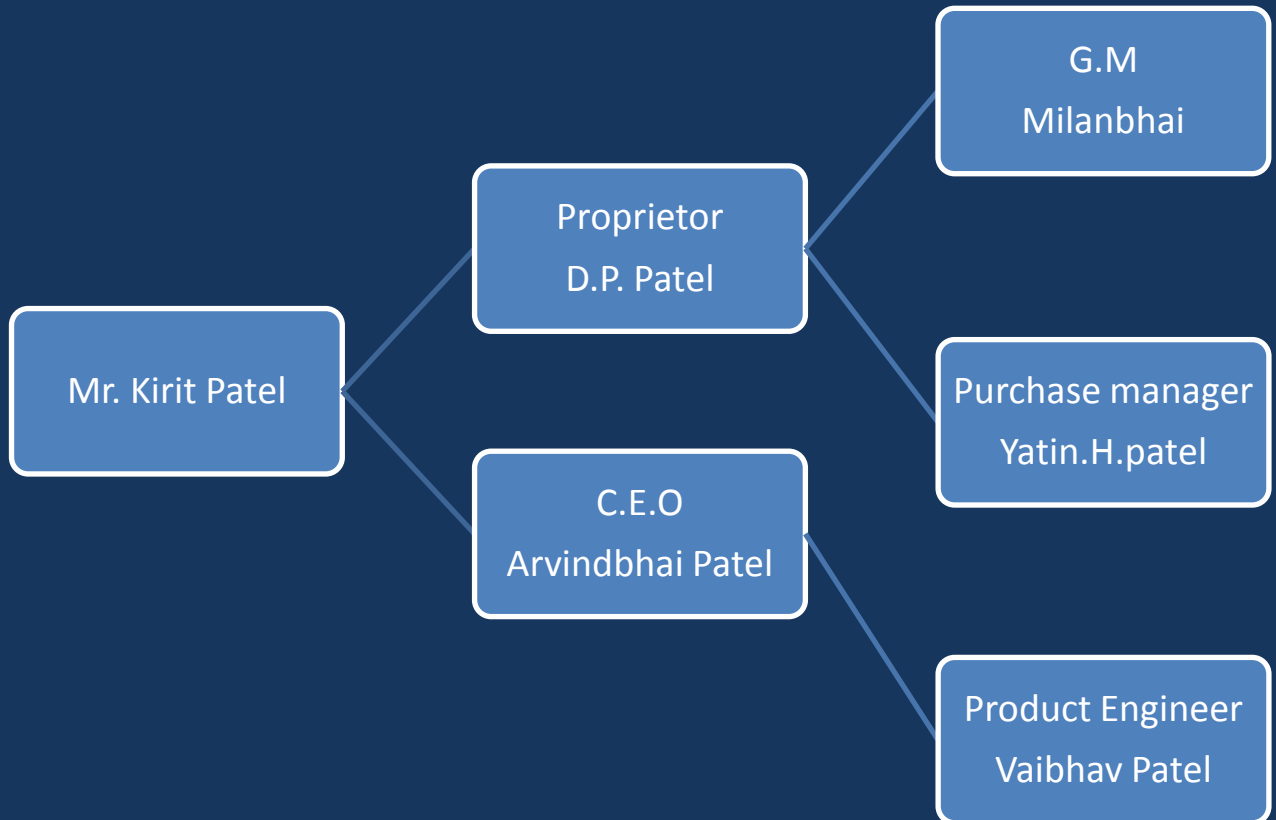
Under the corporate umbrella of “Epoxy House”, the group is primarily engaged in manufacturing of Epoxy resin cast components addressing the switchgear and transformer industry in general.

1972 instituted the flag ship company M/s. Baroda bushing & insulators for production of various types of Epoxy moulded components.

1997 Instituted kaizen switchgear products, A 100% Export Oriented Unit. The company is has a global market share in Abu Dhabi, Australia, Bangladesh, Belgium, China, Czech Republic, Dubai, Egypt, France, Germany, Italy, Kuwait, Lithuania, Malaysia, Mexico, Nepal, New Zealand, Poland, Portugal, Saudi Arabia, Sweden, Taiwan, Thailand, The Netherlands, Ukraine, UK and USA.

2003 commenced production and supply of dry type CT/VT's from Cycloaliphatic resin system for outdoor application.

2. Organizational structure



3. Products



Epoxy resin cast insulators

4. Process

4.1 raw materials process

The raw material is being made by the mixer of resin, plastic chocolate colored and hardener. The tank shown under mixes the material for some time and goes for the next process.



4.2 Die working

After the mixing of raw material the said mixer is being sent for dying work. The Die machines convert the mixer in a product. This machines takes around 12 hours to make 20 products.



4.3 Finishing

After the process of die machines the final finished products comes out. The finished product is not yet ready to sell the further process is being done on the product.



4.4 Testing

There are so many types of testing of a product. Some are discussed as below.

1. High Voltage testing (HV testing)
2. Partial Discharge testing (PD testing)
3. Insulation Resistance testing (IR testing)
4. Capacitance testing
5. Low live indication testing

6. Voltage indication testing
7. Mili voldrop testing
8. BDV testing

4.5 Packing

The last process is of packing process. The products which are ready to sell are packed in the boxes with high securities. The packing process is being the last process of the organization.



5. Achievements

Awarded Export Excellence certificate for Electrical controls and systems for achieving highest export for the year 1997-98 by Engineering Export Promotion Council, an institute responsible for encouraging and boosting exports from western India.

Obtained ISO-9001 certification for group companies: Electrical Controls & Systems and Kaizen Switchgear Products from RW TUV Germany.

6. Conclusion

By observing all the given things we can conclude that the company is of big scale industry. The company exports the products outside the countries like Oman, Australia, U.K, New Zealand etc. Most of the export products are of India itself.



Students of SEM I with Mr. Bala Krishnan and Faculty member Prof. Rajinder Kaur

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

Mr. Balakrishnan

THANK YOU