



Symbiosis Institute of Business Management, Hyderabad



Symbiosis International (Deemed University), Pune

Industrial Visit to

**Mold-Tek Packaging Limited
Sangareddy**

Date:- August 22, 2019

Acknowledgements:-

- Our sincere thanks to the academics department and academic coordinators of SIBM-Hyderabad for being a support for this industrial visit.
- Our sincere thanks to the management of SIBM-Hyderabad in ensuring the logistics and safety during the visit.
- Our sincere thanks to Mr. Mallikarjun Thodeti, Group HR head, and Mr. A V Raju, Sr. General Manager - works of Mold-tek Packaging Ltd, for accepting our request and guiding us throughout the visit by helping us understand the design, manufacturing, quality and logistics aspects of their business from practical concepts and their day to day activities.

Mold-tek Packaging Ltd:-

An Industrial Visit was organized on August 22, 2019 by SIBM-Hyderabad for Operations management students of batch of 2018-2020, as part of their experiential learning of manufacturing and services operations course work and for enhancing their practical knowledge on design, manufacturing and Total Quality Management.



Company Profile:-

Established in 1986, Mold-Tek Packaging Limited (MTPL) is the leader in rigid plastic packaging in India. They have seven processing plants and three stock points spread across India, injection molding capacity of around 20,000 tones per year, with around 70 injection molding machines. They are pioneers and innovators of In-Mold spout concepts for the paint and lube pails. They have in-house tool room with latest CNCs, Jig boring and sparking machines supported by the latest CAD/CAM facilities enable faster mold development. Their online quality control and clean room technology produces hands-free operations ensuring world class quality.

Core Business:-

- a. Injection Moulding dies and molds
- b. Injection molded rigid packaging ranging from
 - 1 to 50 ltrs- Injection Molded plastic pails (with in-mold or external spouts), for packing lubes, greases, chemicals, paints, bulk drugs, inks, synthetic adhesives etc.
 - 5, 50 & 75 liters bulk packs for chemicals, agro and other applications.
 - 1 to 25 kgs Paints & Emulsion packaging containers 0.50 liters to 25 liters Lube & Grease Pack
 - 100 ml to 1,000 ml thin wall containers for food & FMCG

Services provided by Mold-tek Packaging Ltd

- Product Design, 3D rendering and Animation
- Rapid Product and Mold Development
- Suitable Robot development
- Developing Creative artworks for Decoration
- Cylinder manufacturing and Prototypes
- In-house label manufacturing to control cost of IML
- ERP for easy monitoring and logistics

Observations by Students

1. The company has the advantage over competitors by virtue of their state of the art in-house tool room and facilities for Mold Design, Robots Manufacturing, In Mould Label Manufacturing for manufacturing Injection Molded containers of all shape, size and volumes of containers.
2. 3D rendering enables the creation of 'virtual' product in 3D form just after conceptualization of the packaging. This enables clients to visualize exactly how the product will look in the package, on the shelf, and in the store.
3. Heat transfer labeling is a process where the design is printed on the release layer of a label. Upon application of heat, it is transferred on to the container. This technology facilitates them in handling short run orders,

4. Shrink sleeving is a technique where the label is slipped onto the container and upon heating, the label shrinks and fits the container snugly. The aesthetics and picture resolutions are better than screen printing. Shrink sleeves have a maximum decoration area that wraps around an entire product.
5. Mold-Tek has automatic screen printing which ensures better alignment of different colors. It is suitable for paints and lubricant pails but is not preferred for food and FMCG product containers.
6. square plastic containers are equipped with handles and have square or rectangle-shaped lids. These containers optimize space better than round pails. Made of heavy-duty durable plastic, these pails are useful for dry or liquid storage. They have better stack ability and space saving, suitable for automatic filling lines and pull-up spout and handle for easy pouring
7. In the process of ensuring 100% quality the products are manually checked at each stage involving large manpower. There is a scope in the organization to maintain the quality by adopting barcode system, online inspection system etc.



SIBM-Hyd Faculty Felicitating the Company Mentor Mr. Mallikarjun Thodeti, Group HR Head

Conclusion:-

Visit was very informative and useful for students to see the factory layout, manufacturing process, quality control, safety and best practices in packaging industry. It was an existing experience for students seeing the Cadbury, Unilver, ITC, Ranbaxy, Amul, etc. being manufactured.