

INTERNSHIP REPORT



A report submitted in
partial fulfillment of the requirement for the Award
of Degree of

BACHELOR OF SCIENCE

IN

CHEMISTRY

BY

P.Ragul [39030022]

SATHYABAMA INSTITUTE OF SCIENCE

AND TECHNOLOGY

SEMMANCHERI, CHENNAI-600119



ACKNOWLEDGEMENT

I want to thank my advisers and everyone at the company for their patience and assistance during my on-site training. Thanks to their guidance, I was able to develop my industrial skills and learn about plastic molding techniques. These skills will help me to expand my resume and advance my career.



ABOUT COMPANY

Established in the year 2004, we at Sri Vigneshwara Plastics are considered in the market to be amongst the leading Manufacturer and Wholesaler of this highly commendable range of Disposable food containers, Recycling Plastic Cups, Polycarbonate Sheets in Chennai. Manufacturing of this range is done as per the set industry norms and guidelines, utilizing the finest raw materials and modern machines. This ensures the product's standard of quality.

The state-of-the-art infrastructural facility at Sri Vigneshwara Plastics undergoes regular up-gradation, in order to maximize our presence in the market and our production capacity. For reasons of attaining smoother and effective management of the firm's operations, the facility has been parted into several highly operational units. The facility laced with all the necessary machinery and equipment,



help us in the attainment of several of the firm's predefined goals and targets.



Features

- We have a full service custom Injection moulding supplier
- Manufacturing Plastic Components weight ranging from 0.5g to 1000g
- Component Size 500mm x 500mm maximum
- Minimum wall thickness 0.5mm
- Manufacturing High-performance gears and high aesthetic premium consumer electronic parts
- stabilized, FR (Flame Retardant), heat stabilized, GF up to 60%, Glass beads up to 50%

Our Capability in Injection Moulding

- One-stop solution provider for custom Injection moulding
- Horizontal and vertical Moulding Machine
- Over Moulding, Insert Moulding, Valve gate, and hot runner moulding
- Materials ranging from commodity resins to highly engineered resins & thermosets
- High volume, fully automated work cells to low volume prototype run
- Post moulding operations like pad printing,



Ultrasonic welding, coil winding, soldering, barcoding,
and assembly operation

OUR PRODUCTS

- Disposable Plastic Recycling Water Cups
- Disposable Plastic Food Containers
- Engineering Plastic Components Manufacturers
- Jute Bag Sticks.



MOLD CHANGE

Mold Changes refers to the act of altering a current mold used in product manufacturing. Any time the design of a product changes, whether just a component of the product or a mold of the entire product, the mold used must be changed. Here's how mold changes is used on plastic machine operator resumes:

- Mold setting required the use of forklifts, hoists, connecting water lines, and the use of mechanical hand tools.
- Mold changes, secondary set-up, and start of run on change overs.
- Assist in operation and set up of rotational molding equipment including mold changes, filling, and part removal.
- Job entailed mold changes and machine adjustments.
- Mold changes, material changes, organize parts, packaging, machine setup.



RAW MATERIAL

Here's how raw materials is used on plastic machine operator resumes:

- Mixed and loaded plastic raw materials.
- Identified, verified proper raw material, or ingredients, and lifted/positioned/loaded/unloaded raw materials to staging and storage areas.
- Loaded and unloaded pallets and containers with finished/unfinished product and raw materials to other areas.
- Handled shipping and receiving responsibilities for finished manufactured goods and for incoming raw materials.
- Manufactured walk-off mats from raw materials to finished product, to customer specifications.



PP Plastic-Polypropylene (PP) is the Raw Material

Introduction:

Because the price is cheap, plastic injection molding companies often try to avoid large-scale production while looking for ways to reduce the price of single products and processing costs. Simply put, it is to find a product that is not only suitable for mass production; use mass production to reduce unit cost, and at the same time, it does not need to meet mass production for high investment and high output.

Features:

colorless and translucent thermoplastic lightweight general-purpose plastic. It has chemical resistance, heat resistance, electrical insulation, high-strength mechanical properties and good high wear-resistant processing properties.

Applications:

Furniture, packaging, lighting equipment, food packaging, table mats, folders, etc.

Main process: injection molding.



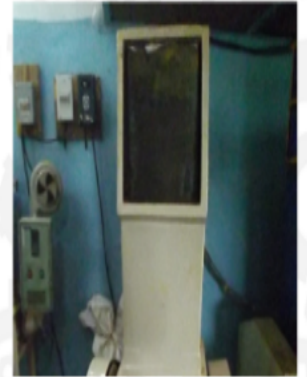
INJECTION MOLDING

Injection molding is that the plastic is heated and melted in the heating barrel of the injection molding machine, and then the melt is pushed into the cavity of the closed mold by the plunger or reciprocating screw. It not only can produce high-precision, high-quality products under high productivity, but also has a wide variety of processed plastics and wide uses. Therefore, injection molding is one of the important molding methods in plastic processing.

Plastic molding is achieved by injection molding machines. The basic functions of the injection molding machine are:

- ① heat the plastic to reach a molten state.
- ② apply high pressure on the melt to inject it and fill the cavity.





Conclusion

From my internship , I was able to get a better understanding of how the plastic molding industry works and how effective it is. I enjoyed working with the Area and I get some different experience. However, I still have a long way to go in understanding the psychological aspects of molding. Overall, I found the industrial internship experience to be positive, and I'm sure I will be able to use the skills I learned in my career later.



TIN No. : 33866277313
CST No. : 1135170 / Dt.31.12.14

Cell : 94441 75987
95519 36460



Sri Vigneshwara Plastics

AN ISO 9001 : 2008 Certified Company
Specialist in all Plastic & Engineering Components



Date :

Date: 17. 12. 2021

INTERNSHIP CERTIFICATE

This is to certify that Mr. Rahul.P (39030022) Bachelor of Science in chemistry final year student of SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY IN CHENNAI has undergone in plastic manufacturing and molding in our company for period of 15 days.

We wish her all the best in her future endeavors.

SRI VIGNESHWARA PLASTICS,

AUTHORIZED SIGNATURE



#86, Anandham Nagar, Anandham Nagar Main Road, Sholinganallur, Chennai - 600 119.
Email : srivigneshwaraplastics@ymail.com



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NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

RAGUL P

for successfully completing the course

Analytical Chemistry

with a consolidated score of **54** %

Online Assignments	19.69/25	Proctored Exam	34.5/75
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Total number of candidates certified in this course: **333**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
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