

Maratha Mandals Arts and commerce Collehe Khanapur

2022-23

Department of Commerce

A Report on

Internship Project-In Plant Training

At

Allied Foundry Private Ltd

Submitted In Partial Fulfillment Of the requirement For the award Of

BACHELOR OF COMMERCE

During the acadqarnic year 2022-23

Prathamesh Misal



Principals
Maratha Mandals's
Arts & Commerce College,
Khanapur-59'302 Dist. Belgaur.



Government of Karnataka

Department of college Education

**MARATHA MANDAL ARTS AND COMMERCE
COLLEGE KHANAPUR**

Accredited Grade 'A' by NAAC

Department of commerce

**AFFILIATED TO RANI CHANNAMMA UNIVERSITY
BELGAUM**

CERTIFICATE

This is to certify that Mr. PRATHMESH MISAL has satisfactorily complete the " Internship program in plant training" in the partial fulfillment of the requirement of bachelor of commerce awarded by rani rannamma university belgaum, during the academic year 2022-23

Principal

mentor

HOD

Dr.J.K Bagewadi

Prof.Pranali Sawant

Pranali sawant

Principal

**Maratha Mandal's
Arts & Commerce College
Khanapur, 591302 Dist. Belgaum**



DECLARATION

I **MIR. PRATHAMESH MISAL**, Student of 6th semester Maratha mandali's, arts and commerce college, Khanapur Hereby declare that this project is genuine & original work of study prepare by me at **ALLIED FOUNDRY PRIVATE LIMITED UDYANBAG, BELGAUM**, carried out by me independently under the guidance of Dr. Vidya Jirage internal guide.

It is based on the data & information collected by me. To the best of my knowledge & belief, the matter presented in this report is not been copied from any other report submitted to Rani Channamma university, Belgaum to get the award of B.Com or any other course offered by Rani Channamma University, Belgaum, or any other university.

This project report is submitted to Rani Channamma University, Belgaum and also to **ALLIED FOUNDRY UDYANBAG, BELGAUM**

ACKNOWLEDGEMENT

The successful completion of any task would be incomplete without mentioning the people who have helped me to complete it & been a source of encouragement Firstly, I would take thank Mr. Prakash shirke, Manager of **ALLIED FOUNDRY** for giving me an opportunity for carrying out my project in their esteem organization.

I am also sincerely thankful to all employees of **ALLIED FOUNDRY INDUSTRY** for their co-operation at all stage of the study. Especially for taking time out of their busy schedule to fill up my questionnaires.

I would also express my hearty thanks to our respected Principle j. k. bagewadi HOD **Prof. Mulimani S. K.** and internal guide Dr. Vidya Jirage for their kind co-operation.

Thanking you.

Yours sincerely

PRATHAMESH MISAL



Principal

Maratha Mandali's
Arts & Commerce College
Khanapur, Belgaum

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**THE ALLIED FOUNDERS PVT.
LTD.**

EXECUTIVE SUMMARY

The Allied Founders Pvt. Ltd. Is a ferrous foundry manufacturing grey cast iron ductile iron (spheroidal graphite iron) casting, cast components & machined components. And include manufactures of, Agriculture and Farm Equipments, Automobiles, Cement Manufacturing Equipments, Compressors, Paper Pulp Machinery, Defence Equipments, Diesel Engines, Electric Motors, Machine Tools, Ship Building, Pumps and Valves etc.....

The strength of the company lies in its vast experience of more than 5 decades coupled with very skilled, dedicated trained & motivated employees having a learning attitude. The company has a reputation of being financially stable and a sound organization. It has a good experience on exports and adopts the latest marketing tools. It has a track record of meeting the delivery schedules of customers and is backed by an excellent supplier support for procurement of raw materials & a good vendor network for outstanding of raw casting & machined components.

The company is ISO 9001:2015 (TUV NORD) certified, ensuring that it has a quality management system in place that meets international standards. With a CNC machine shop that supplies nearly 100% of its casting in fully machined condition to Original Equipment Manufacturers (OEMs). It has the privilege of being one of the first foundry in Belgaum, India. This company was incorporated on 27/02/1974 in Belgaum.

INDUSTRY OVERVIEW

The Allied Founders Pvt Ltd is a well-established company based in Belgaum, Karnataka, India, that has been in business for 55 years. Specialization in manufacturing and exporting Grey Iron and Ductile Iron Castings, Machined Components & Assemblies, the company produces a wide range of product weighing from 5.00 kgs (11.00Lbs) to 200 kgs (440.00Lbs) per piece.



1968: The Company was established under the name of Allied Engineers & Founders producing 30 m. t. of casting per month like manifolds & valve bodies.

1974: The unit was converted into a Private Limited Company with four directors on board.

1976: Two new moulding machines Kunkel Wagner APM-0 with 20 h. p. Compressors were installed.

1977: The first foundry in Belgaum to install Shot Blasting Machine along with all equipments.

1978: The first foundry in Belgaum to install Sand Testing & Chemical Testing Laboratory with Metallurgical Microscope.

1979: Purchased two sand Mullers and one Sand Mixer to achieve better sand properties.

1980: Two new moulding machines Kunkel Wagner APM-2 with 30 h. p. Compressors were installed.

1981: Commissioned new 36 inch dia Conventional Cupola with melting rate of 3 to 3.5 m. p. per hour.

2002: The company was accredited with ISO 9001:2000.

2003: 250 kg Sand Muller, Sand Siever & Sand Dryer.

COMPANY PROFILE

Company name	Allied Founders Private Limited
Ownership Type	Private
Primary Business Type	Manufacturer
Category	Company limited by shares
Sub Category	Indian Non-Government Company
Main Language	English
Year of establishment	27/02/1974
Age of Company	49 Years
Primary Location	Belgaum

The foundry area is 32000 Sq Ft and the construction area is 30000 Sq Ft. Machine Shop 40000 Sq Ft and the construction area 38000 Sq Ft. 95% out of the total production is exported to several countries.

VISION

To become a world class, consistent & reliable source of casting, machined components & assemblies in terms of quality, delivery & price by the year 2010.

MISSION

To develop an environment friendly world class infrastructure for all our processes & allied industries.

QUALITY

The company has achieved ISO 9001:2000 certification & put the highest emphasis on ensuring optimum quality of its product. They have a physical & chemical lab, carbon silicon analyser, microstructure & Brinell hardness testing machine to maintain a strict vigil throughout the production process with regular quality checks at different stages to support there cause

OWNERSHIP

1. Ramanand R. Mallya :- Fonder & CMD
2. Raghavendra R. Mallya :- Executive director
3. Ram R. Mallya :- Director
4. Shamala R. Mallya :- Director 5. Sweta R. Mallya :- Director

PRODUCT

The Allied Founders Pvt Ltd is Certified Foundry, Manufactures and Exporters of Cast Iron / Ductile Iron Casting Sand castings, Machined components and Assemblies. They are a Mechanized foundry capable of manufacturing 3000 tons of Cast iron / Ductile Iron Castings Alloy Castings per annum with a weight range from 5 kgs to 200 Kgs per piece in-house production. They manufacture sand casting molds in Green sand process and cores in Cold Box and NO-bake 2 part process. They offer Machined Components and Assemblies as their company backbone by two fully equipped Conventional & CNC Machine Shops dedicated for the foundry supplies nearly 80% of its casting in fully machined condition to original equipment.



DEPARTMENT PROFILE

1. MELTING DEPT

Inductotherm induction furnace with a capacity of 1100kgs per hour melt rate, equipped with two pots of 500 kgs. It also includes pouring ladles with a capacity of up to 500 kgs for direct pouring into molds and a treatment ladle for Ductile Iron weighing 500



2 MOLDING LINES



kgs.

The facility of two Green Sand Molding lines, each with different simultaneous jolt squeeze molding machines that cater to specific sizes. The ARPA 450 LINE is suitable for medium sized casting with a box size of 25 × 25 × 9 inches and a weight range of 20 kgs to 90 kgs bunch weight. On the other hand, the ARPA 900 LINE is ideal for larger casting, featuring a box size of 36 × 36 × 10 and 33 × 27 × 16 inches and a weight range of 60 kgs to 250 kgs bunch weight.

3 SAND PLANT (GREEN SAND)



The facility features a sand plant with a 20 Metric Ton Per Hour sand recycling capacity, allowing for efficient and sustainable use to sand. The sand plant is equipped with a fully automatic dosing system that controls moisture, strength, and permeability, ensuring consistent quality and reducing variability in the molding process. Moreover, the facility has arrangements in place to supply sand from the sand plant to all the molding lines.

4 CORE SHOP



The facility has two core making processes, namely the No Bake 2 part process and the Cold box process. The No bake 2 part process is used for low volume production or when the core box does not fit in the cold box machine. Meanwhile, the cold box process comprises two machines: the Universal Parting Automatic cold box shooter and the Horizontal Parting semi-automatic cold box core shooter.

5 FETTLING



The fettling process typically involves grinding, cutting, sanding, or polishing the casting's surface using various tools and techniques. This may include handheld tools such as grinders or pneumatic chisels, or automated systems such as robotic grinding stations. The specific methods used will depend on the type of casting, the material it is made from, and the finishing requirements. They have fettling shop equipped with the machines of, hanger type shot machine, 18 inch swing grinder, 18 inch table grinder, pencil grinder, 6 inch pneumatic grinders, pneumatic chisels..

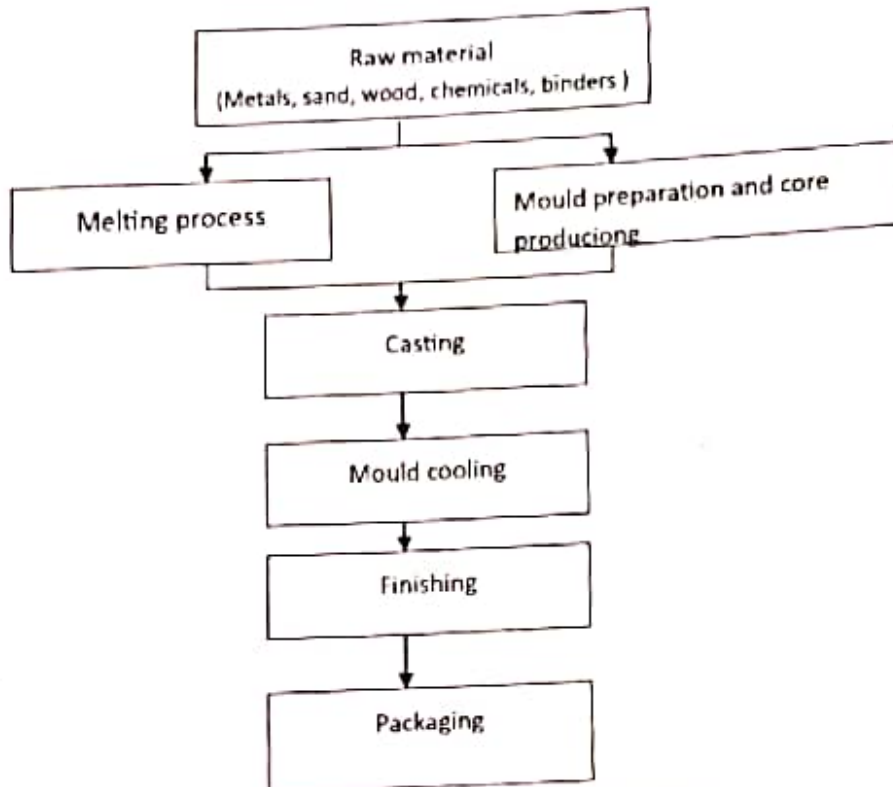
6. PAINT SHOP



They have a Spray/Dip painting facility for the Raw Casting with red oxide primer for corrosion prevention. The red oxide primer is a type of rustinhibiting coating that is applied to the casting to create a barrier against moisture and other corrosive agents. The raw casting are first cleaned and prepared to remove any contaminants such as oil, dust, or other debris. Once the casting is prepared, it is either dipped into a tank of

red oxide primer or sprayed with the primer using a spray gun.

FLOW CHART



SWOT ANALYSIS

SWOT Analysis stands for - **Strengths, Weaknesses, Opportunities, and Threats** that maintenance preventive encounters both internationally and in macro environment that it operates in. Strengths and Weakness are often restricted to company's internal - resources, skills and limitation. Opportunities and Treats are factors that are analyzed in view of the prevalent market forces and other factors such as social, health & safety, legal & environmental, political, technological, and economic.

STRENGTH

Strengths are the maintenance preventives capabilities and resources that it can leverage to build a sustainable competitive advantage in the marketplace. Strengths come from positive

aspects of five key resources & capabilities-physical resources such as land, building, financial resources, activities & processes, human resources, and past experiences and successes.

WEAKNESS

Weaknesses are the areas, capabilities or skills in which maintenance preventive lacks. It limits the ability of the firm to build a sustainable competitive advantage. Weaknesses come from lack or absence of five key resources & capabilities- human resources, activities & processes, financial resources, past experiences and successes, and physical resources such as land, building.

OPPORTUNITIES

Opportunities are macro environment factors and developments that maintenance preventive can leverage either to consolidate existing market positive or use them for further expansion. Opportunities can emerge from various factors such as-political developments & policy changes, economic growth, increase in consumer disposable income, technological innovations, and changes in consumer preferences.

THREATS

Threats are macro environment factors and developments that can derail business model of maintenance preventive. Threats can emerge from various factors such as- technological innovations, changes in consumer preferences, political development & policy changes, economic growth, and increase in consumer disposable income.

GROWTH & CORPORATE SOCIAL RESPONSIBILITY

The Allied Founders Private limited when first it establish in 1968 that time it name was Allied Engineers & it founders producing 30 m. t. of casting per month like manifolds & valve bodies. In 1974 the unit was converted into a private limited company with four directors on board. In 1977 the first foundry in Belgaum to install Shot Blasting Machine along with all equipments.

In 2004 increased production capacity to 175 m. t per month – added moulding boxes. Since 1968 to 2004 we can see the all progress of the company. Now the allied founders is one of the famous foundry company which 95% product out of total production export out of country.

The Allied Founders provide some facilities towards the society or help to the society to providing some scholarships to poor /scholar students for helping them in getting education. This responsibility doing the company towards the society.

AFFILIATIONS & MEMBERSHIP TO RECOGNIZED ORGANIZATIONS

The company is affiliated with several organizations that promote the growth and development of the foundry industry in India.



ICTTM PARTNER

Allied Founders Pvt Ltd is a official partner of At the International Centre for Trade Transparency and Monitoring

AWARDS

TUV NORD

CERTIFICATE

Management System BS EN
ISO 9001 : 2015

The certificate being issued hereby certifies that the management system of the above named organization conforms to the requirements of BS EN ISO 9001:2015 and has been approved by TUV NORD.

THE ALLED FOUNDERS PVT. LTD.
N. U. Industrial Estate, Unjanday
Bangalore - 560 028
Karnataka
India



The certificate is valid for the period of 3 years from the date of issue and is subject to successful re-assessment by the certification body at the end of each year. The certificate is valid for the period of 3 years from the date of issue and is subject to successful re-assessment by the certification body at the end of each year.

Manufacturers and Suppliers of Cast Iron and Ductile Iron Castings and Steel Mechanical Components & Assemblies

Location: Bangalore, Karnataka, India

Issue Date: 12th July 2015

Valid Until: 12th July 2018

Issue Reference: 2015 1000

Signature:

2015 1000 001

For more information, please contact TUV NORD at the address below or visit our website at www.tuv-nord.com





LEARNING EXPERIENCE

I had good experience in industrial visit and they guided us well. And got well knowledge of production like how the produce it? How many departments work there? And how it work? The process of production. Which products they produce & its processor. How many worker work their? And how their safety was taking? And the precaution taken by them.

- They take responsibility for quality by providing best in class products and solutions.
- They deliver customer satisfaction by understanding their customer need.
- They provide leadership as a company and as individual through their talented employees, advanced technologies & innovative ideas.

CONCLUSION

By making internship programme, i found that the Allied Foundry Private Limited have well equipped company and it produce quality oriented products. And there is high demand of that products.

Since 1968 to now there was so much increase in their production capacity and also they expand their company also.

In this company there was so many employees were worked, and there have the new equipments or machinery also which reduce their work. And making fasted work.

The Allied Founders is one of the company which export their 95% production in several countries.

This company is very popular and it has various branches in India.