

CHAPTER – II

PROFILE OF THE ORGANISATION

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- 2.1 Introduction
- 2.2 Mission of cooper foundry Pvt. Ltd.
- 2.3 Brief history of the organization
- 2.4 Location of the company
- 2.5 Activities of the Company
- 2.6 Department
- 2.7 Product of cooper foundry Pvt. Ltd.
- 2.8 Quality Policy
- 2.9 Turnover of the company
- 2.10 Future plan
- 2.11 Flow chart of Manufacturing process
- 2.12 Organizational chart
- 2.13 Customers

2.1 INTRODUCTION

Cooper foundry Pvt. Ltd. Satara is the place where the cast shapes are made. The liquid metal (scrap metal) solidifies in a cavity. There are two types of foundries: one is ferrous which produces cast iron & the second is non-ferrous which produces aluminum & Bronze.

Cooper Foundry Pvt. Ltd. Satara is a ferrous foundry engaged in cast ironing. The basic requirement of cast ironing is to make a mould and core, prepare a liquid, and pour a liquid metal into the cavity. There are different types of raw materials used in Cooper Foundry Pvt. Ltd. Satara for cast ironing: i.e. M. S. Scrap, pig iron, ferro silicon, Ferro manganese, coke, Ferro moly powder, Ferro Phosphorous, Graphite powder, Desalco powder etc. and also few chemicals are used for cast ironing according to their requirements: i. e. Carbon, Sulphur,

silicon, Manganese Chromium Copper Molybdenum phosphorus vanadium Boron and Nickel.

2.2 MISSION OF COOPER FOUNDRY PVT. LTD. SATARA

Cooper Foundry strives to be the magazine the comic deserves It check fandom at the door and instead brings a respect for the industry and the readers With diverse coverage that spans all genres and mediums we aim to bring our readers unique stories presented in a unique way have an ear to the underground and the finger on the pulse of the mainstream and provide opportunities for both comic foundry combines analysis with the aspiring and molds wit wisdom In short its your comic magazine.

2.3 BRIEF HISTORY OF THE ORGANIZATION

Sir D. B. Cooper started Cooper Engineering at Satara in 1922 which had distinction of making India,s first Diesel Engine and Iron Plough Other achievements in industry made with the able assistance from his son Mr. Nariman D. Cooper were

- 1) Obtaining a Meehanite License for India Burma and Srilanka.
- 2) Collaborating with Alfred Herbert Ltd. for machine tools
- 3) Developing an Indigenous Petrol Engine for the Morris 8 cars in the 1930s.

Cooper Foundry has been producing quality casting at Satara for over 85 years. The commitment to quality and service that started in 1922 is still the driving force behind Cooper Foundry being recognized as the quality service and continuous efforts on product.

Cylinder liner production activity was started in 1960 with a small workshop,which is now comprises of a one foundry and three machine shops. Cooper group has been able to establish a leading role in the specialized field of cylinder liners sleeves and crankshafts This has een achieved by adapting to the market needs and continuous efforts in product improvement and technology upgradation.

The crankshaft division was started in 1984 The building and machine shop were installed and production started within 6 month. Plant was planned for a capacity of 840 crankshafts per year and today is expanded to a capacity of approximately 60000 crankshafts per year

Currently Board of director of Cooper group comprises of three great personalities are Mr. Farrokh N. Cooper who is the chairman and managing director involved in running whole industry Mr. Saam Cooper is the director of company and he started the cylinder liner activity and Mr. Zal S. Cooper who is the executive director involved in finance mMarketing Corporate planning of organization.

Improvement has Deal company to earn a reputed name in domestic and international market Companies in house casting machining and honing facilities insures fil control over the manufacturing of dies and fixture results in much shorter development time for new product. Coopers commitment to quality is assured by its registration to ISO-9001 by TUV SUDDEUTSCHLAND.

2.4 LOCATION OF THE COMPANY

Factory is located at Satara about 300 kms from mumbai with pune the nearest domestic aiport 110 Kms employing 1137 people out of which 205 are staff. The group is spread over area of 6939.97 square meters.

2.5 ACTIVITIES OF THE ORGANIZATION

Cooper group of Industries an ISO 9001 Company engaged in CI and SGI foundries and machining business with latest state of art technology

A multi product company is in the manufacturing of cylinder liners, crank shaft cylinder heads and other engine components having global customers such as GE, Briggs and Stratton Kawasaki Wartsila, Waukesha engines Cummins etc. As a part of Expansion Company is in the process of setting up its Diesel Engine project in satara only and four wheeler prouctions will be next positive step after engine project.

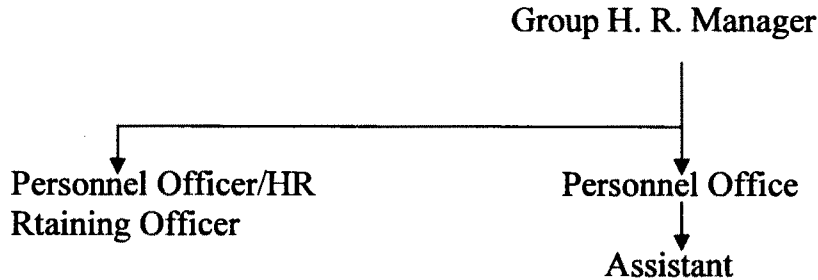
Cooper is engaged in centrifugal casting as well as sand casting. The centrifugal casting process assures that the castings are free of any internal defects. The casting is more wear resistant thereby having a longer service life as they are much denser due to the centrifugal force.

Excellent mechanical bonding between sleeve and the aluminium block whereby there is superior heat transfer from the bore of the sleeve to the fins on the block. There is also no risk of the sleeve moving in the cylinder block during service. Reduced cost of aluminium casting and its machining as there is no machining needed cut in the bore after casting into the aluminium block which is being done at present anyway.

2.6 DEPARTMENT

- H. R. Department

Structure of the personnel department



The main activities performed by the department are highlighted as below.

1) Recruitment

Recruitment of the right person for right job is the main function of the personnel department. Recruitment process is conducted through the various steps which include written test, interview, General knowledge test etc. Candidates are attracted by the giving advertisement in the newspaper and company website, various multimedia sources etc.

2) Human Resource Development

The main purpose of this activity is to provide the continuous training to make the human resource competent to perform the work affecting product quality; Various training programs are planned and successfully conducted by the training officer of the personnel department. The training programs help to improve the knowledge and skill of the employee.

3) Work environment management process

Purpose of this activity is to ensure a safe and clean environment in the organization.

4) Control of Documents and Records

Purpose of this activity is to establish a control in the documents and records to ensure uniform understanding and communication throughout the organization.

5) Internal Audit

There are two types of audit i.e. the internal and external audit are conducted for the checking of performance of the various departments. Internal audit is conducted to ensure that all the defined systems are implemented and to ensure the suitability of the system.

6) Corrective action

The main purpose of this activity is to analyze the nonconformance and to decide the corrective action for monitoring its effectiveness. From the corrective action preventive actions are taken to eliminate the causes of nonconformities.

7) Management Review

Management review is conducted to adequacy continuing suitability and effectiveness of the quality management system.

Foundry Production

Foundry is the main primary unit of cooper. Foundry is the industry where cast shapes are made. Allowing liquid metal to solidigy in cavity forms the cast shapes.

Foundry is the cast iron foundry. Where the castings are made and then transferred to machine shop for the further processing.

Q. A. Foundry and machine shop

The main activities performed by the Q. A. department as below;

1) Monitoring and measuring of the product

Purpose of this activity is to demonstrate the conformity of the product to plant the requirements. The scope of this activity is in process incoming and final product for inspection.

2) Device management

Purpose of this activity is to control of management devices to ensure that monitoring and measurement is carried out in a manner i. e. concern calibration measurement.

3) Non Conformance

Purpose of this activity is Customer conflict handling process control of non conforming products and confirming products.

Foundry maintenance & Marketing

1) Outsourcing Control

Purpose of this activity is

- To inform purchasing requirement and carry out the purchasing to ensure purchased product conforms to specified purchase requirements.
- Supplier evaluation selection and approval
- Regular purchasing
- Supplier performance monitoring and reevaluation.

2) Supplier satisfaction monitoring and analysis

Purpose of this activity is to monitor customer perception to ensure that his requirements are mentioned.

3) order review and dispatch Process

Purpose of this activity is to review of customer requirements & supply of products as per the requirements.

4) Control of the documents & Audit

Finance

The finance department of the company is carried out all the financial activities the regular activities are arranging the working capital termloan finance controlling of the receivables maintaining the accounts of all the financial procedures etc. corporation Bank of IFB Pune City Bank of NA Pune and IDBI Bank Satara are the financiers of the Company.

Store department

Store department of company is the department which is mainly concerned with the storing of the raw material stock and all the other material which are received from vender The activities which are held by this department are purchasing control material receipt verification preservation and disposition to ensure all coming mterial in store control of documents.

R & D Department

Activity of this department

- 1) To make a drawings engine & vehicle components.
- 2) Vender development
- 3) development of new engines
- 4) Testing of various machines
- 5) I. E. setting assembly line balancing
- 6) manufacturing

2.7 PRODUCTS OF COOPER FOUNDRY PVT. LTD.

- 1) Cylinder Head
- 2) Crank case
- 3) Radiator tank
- 4) Valve lifter Guide
- 5) Adaptor Ring Gear
- 6) Cylinder liner
- 7) Crank shaft machining
- 8) Crank shaft casting
- 9) Pully fan
- 10) Connecting Rod
- 11) 62-96 crank shaft
- 12) Bearing housing
- 13) Cam bearing
- 14) Diaphragm Cover
- 15) L. P. liner

2.8 QUALITY POLICY

To establish a level of customer satisfaction and confidence in our service quality life of product and integrity in company dealing that will be used as an example for others to emulate and aspire for worldwide.

The quality policy is committed to achieve the following objectives

- Establishing and maintaining a quality system in line with ISO 9001 standard
- Empowering employees through a continuous training process
- Extensive application of statistical techniques for process improvement and cost reduction on a continuous basis.

2.9 TURNOVER OF COMPANY

Turnover of 2004-2005 is Rs. 65.12 Cr. (USS 14.16 Million)

Turnover for 2005-2006 is Rs. 100 Cr. (USS 21.74 million)

Turnover for 2006-2007 is projected at Rs.150 Cr. (USS 32.16 million)

2.10 FUTURE PLAN

a) EOU (Export Oriented Unit) :

Cooper will take up the 100% activities of that particular product. Company wants to fulfill the standards and norms of production in international supply.

b) Diesel Engine :-

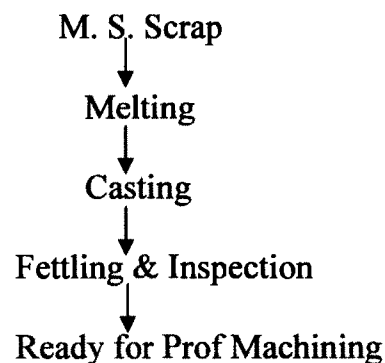
Cooper made plan for the making diesel engine. Company is in implementation stage .

After three month company will start to manufacture diesel engine.

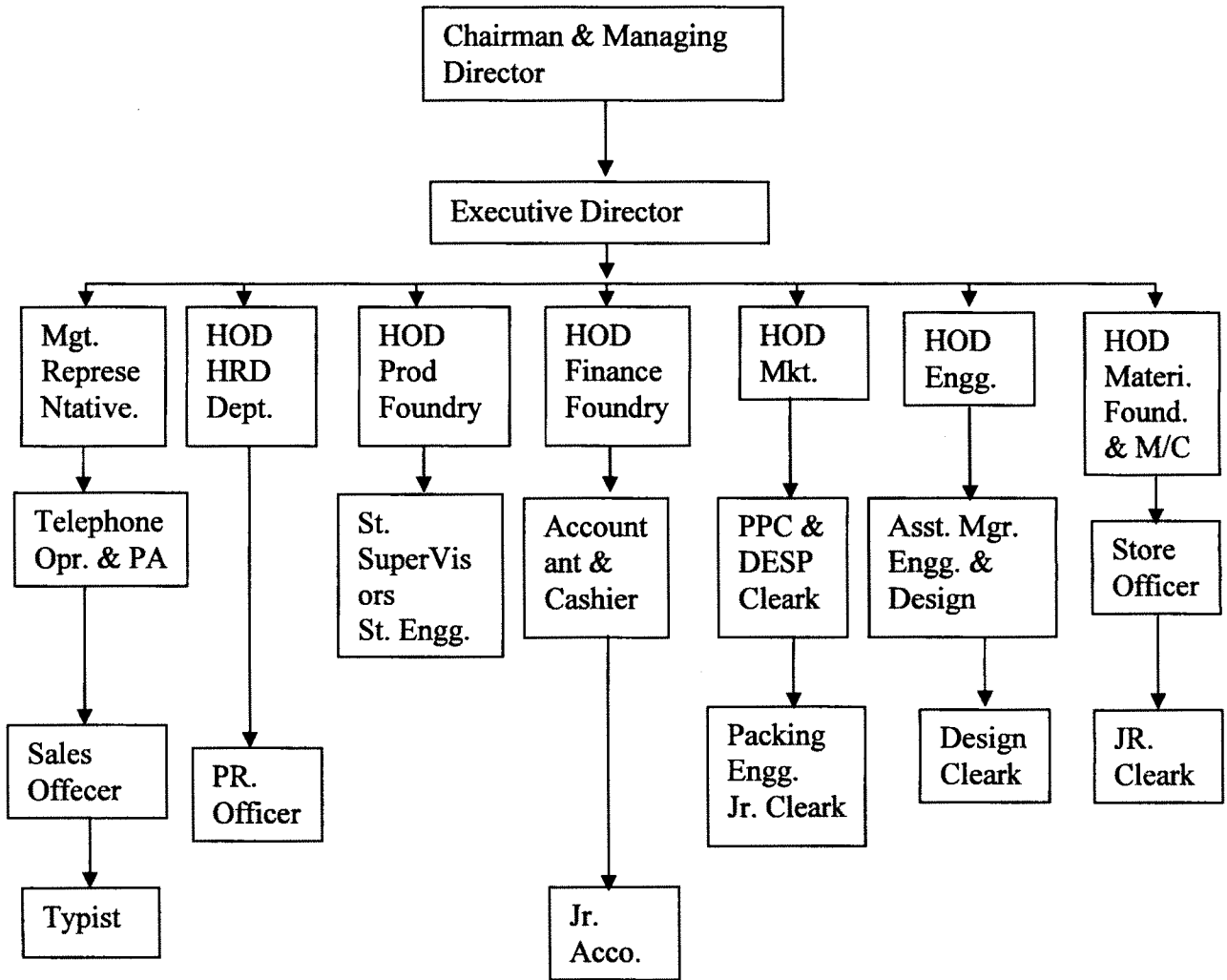
c) Four Wheeler :

Also, Cooper made plan for the manufacturing four-wheeler. They manufacture two types of vehicle i. e. commercial and pasenger vehicle.

2.11 FLOW CHART OF MANUFACTURING PROCESS.



2.12 ORGANIZATIONAL CHART.



2.13 CUSTOMERS

DOMIESTIC :

CUSTOMER	COLLABORATION
1. Cummins India Ltd.	Cummins Engine Co., USA
2. Indian Railways	American locomotive Co. & General
3. Indian Defense	M.A.N. Germany & Nissan Japan
4. Sundaram Clayton Ltd.	Clayton & Wabco
5. Bajaj Auto Ltd.	Kawasaki Japan
6. Bajaj Tempo Ltd.	Mercedes Benz & M. A. N. Germany
7. Maruti Udyog	Suzuki Japan
8. Kirloskar MSQuery Ltd.	MSQuery, USA
9. Kirloskar pneumatic Company Ltd.	
10. General Electric Lister Petter Ind. Ltd.	
11. Wartsila India	
12. Lambardini India	
13. LML Ltd.	
14. Bharat Earth Movers Ltd.	
15. Eglin equipments Ltd.	
16. Seltzer, India	

Aftermarket (spares) :

Liners suitable for M. A. N. Ruston MWM Zetor fords peugeot chrysler (Jeep) Mercedes Benz Leyland & many others.

INTERNATIONAL CUSTOMERS

1. General Electric USA
2. Briggs & Striation USA
3. Generic USA
4. Kawasaki USA
5. Waukesha Engine USA
6. Cummins USA
7. LOmbardi S. P. A. Italy
8. Arrow Engine Co., USA
9. Wartsila Finland
10. Fairbanks Morse USA
11. TVR U.K.

Achievements of Company

Certified By	Purpose	Year
Arrow Engine Co.	Award for Excellence	-
Bharat Earth Movens Ltd.	Ferrow Casting	1 April 2006
TUV	QS : 9000	Validity Expired
TUV	ISO : 9001-2000	Validity up to 12-04-2010
Commins India Ltd.	Best Perform in delivery	2002
Greaves Ltd.	Quality System	10-09-2001

CHAPTER –III
CONCEPTUAL FRAMEWORK