

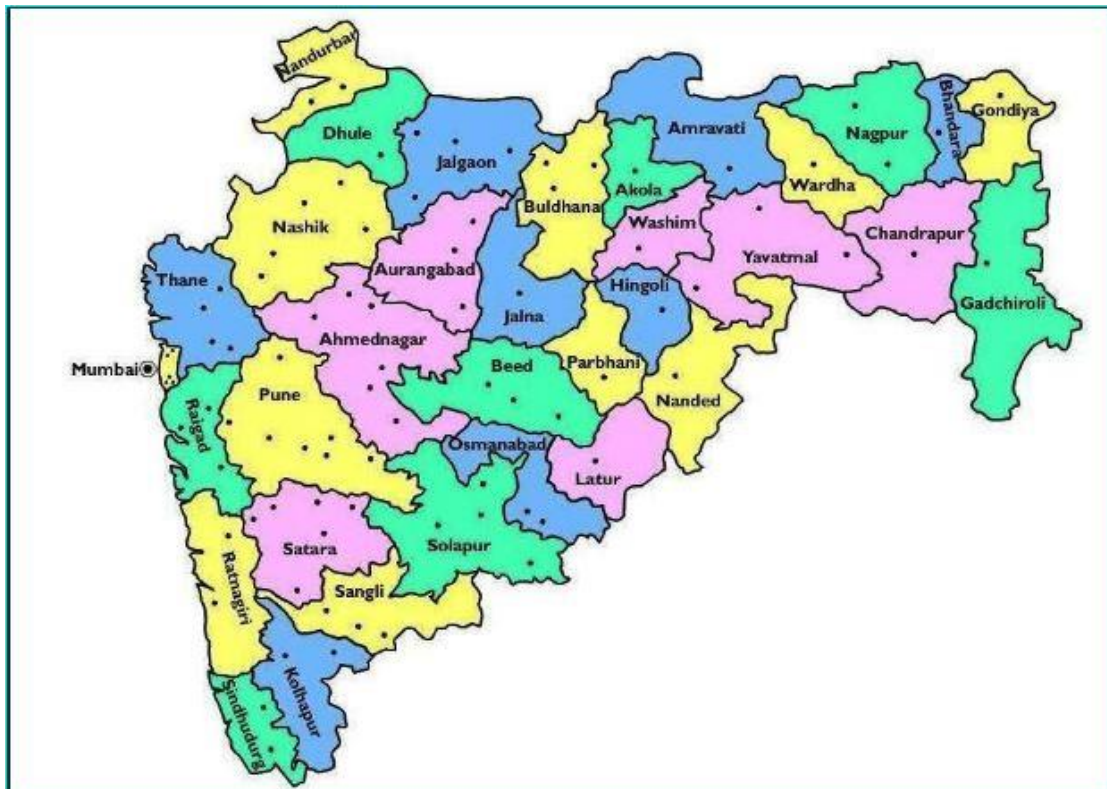
## CHAPTER V

### DATA COLLECTION AND ANALYSIS

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#### A-PROFILES OF INDUSTRIES FOR SURVEY

Maharashtra is one of the most developed states in India and as the most of the districts are having good running industrial sectors. Many of the important offices and the industries are there in Maharashtra. Aurangabad is one of the developed districts in Maharashtra.



Source: [www.images.rambler.com](http://www.images.rambler.com)

## 5.1 Detail Information of the Aurangabad District where the survey had been carried out for the study.

Aurangabad is one of the fastest developing cities in Asia previously. In Maharashtra Aurangabad district is having many distinct features like historical places, developed many industrial areas. Aurangabad city is called as historical capital of Maharashtra. There is tomb of Mughal emperor Aurangzeb at Khultabad near to Aurangabad city. There are some UNESCO world heritage sites are there like Bibi ka Muqbara built by Aurangzeb's Son, Ellora and Ajanta caves near to Aurangabad city. The Aurangabad city was founded by Malik Ambar approximately 400 years before.



Source: [www.imagesofindia.com](http://www.imagesofindia.com)

Aurangabad District is one of the 36 districts of Maharashtra state in western India. It is bordered by the districts of Nashik to the west, Jalgaon to the north, Jalna to the east, and Ahmednagar to the south. Aurangabad is the headquarters

and principal city. The district covers an area of 10,100 km<sup>2</sup>, out of which 141.1 km<sup>2</sup> is urban area and 9,958.9 km<sup>2</sup> is rural. Aurangabad district is a major tourism region in Marathwada.



**Source:** [www.images.rambler.com](http://www.images.rambler.com)

Bibi Ka Maqbara is a monument built in 1660 by Aurangzeb's son, Azam Shah, as a loving tribute to his mother, Dilras Bano Begam.

## **1. Geography**

Aurangabad District is located mainly in the Godavari River Basin and partly in the Tapi River Basin. The district is located between 19 and 20 degrees north longitude, and 74 and 76 degrees east latitude.



Source: [www.aurangbad.ac.in](http://www.aurangbad.ac.in)

## 2. Geology

Geologically the whole area is covered by the Deccan Trap lava flows of upper Cretaceous to lower Eocene age. The basaltic lava flows belonging to the Deccan Trap are the only major geological formation. The traps are overlain by thin alluvial deposits along the major rivers. The lava flows are horizontal and each flow has two distinct units. The upper layers consist of vesicular and amygdule zeolitic basalt, while the bottom layer consists of massive basalt

## 3. Rivers

The major rivers in Aurangabad district are the Godavari, Purna, Shivana, Maniyad, Sukhana, Kham, and the famous Shahbaz River. The Narangi rises on the southern slopes of the water divide to the south of the Maniyad river, a little above Naral village, and flows past Vaijapur. Below the latter it is joined by the Deonala, flowing from Nasik district. It has a fairly long south-southwesterly course before its point of entry into the Godavari is carried a little down the latter. It is joined by the Chornala from the west and Kurlanala from the east. Actually the Narangi continues the trend of the Kurlariver after the latter's confluence.

#### **4. Climate**

In Aurangabad district the rainy season runs from June to September. Winter is from approximately October to February and summer from March to May. The average rainfall of Aurangabad district is 734 mm, and the temperature range is about 5–46 degrees Celsius.

#### **5. Economy**

Companies operating out of Aurangabad District include:

1. Bajaj Auto Ltd
2. Videocon Industries (I) Pvt. Ltd
3. Skoda Auto (I) P Ltd,
4. Seimens Ltd.
5. Crompton Greaves Ltd
6. Dhoot Transmission Pvt. Ltd

##### **1. Major manufacturing companies include:**

1. Bajaj Auto Limited
2. Garware Polyester
3. Videocon Industries Ltd.
4. Skoda
5. Audi assembly
6. Siemens
7. Perkins
8. Hindalco
9. Varroc
10. Endurance
11. Ceat Goodyear
12. Orchid
13. Lupin
14. Ajanta Pharma
15. Sabmiller
16. Fosters
17. Cosmo Films Ltd.

18. Grind Master Machines Pvt Ltd
19. Greaves
20. Forbes Gokak
21. Forbes Marshall
22. Lombardini

Aurangabad has the following MIDC areas: Waluj, Shendra five star MIDC, Chikalthana, Paithan and Railway Station MIDC. There is a software technology park in Chikalthana MIDC.



## 5.2 Profiles of the Industries where the surveys had been carried out for the study of Supply Chain Management.

### 1) Metalman Auto Components Plant I



Source: [www.metalman.com](http://www.metalman.com)

Metalman Auto (P) Ltd. Is one of the manufacturing industries in the Aurangabad. It is working on the sheet metal and tubular fabricated assemblies and sub-assemblies. Metalman plant 1 is manufacturing almost 75 percentage of the motorcycle of Bajaj Auto. Metalman had introduced robotic section for the welding which had developed a quality welding system with higher accuracy and efficiency. There are various other press shops and machining shops available which carry out the various operations required for the manufacturing of the different components assembled in the motorcycle of the Bajaj Auto. The group of industries are associated in many CSR activities which carry out various activities for students and educational institutions.

## 2) Metalman Auto Component Plant II



Source: [www.metalman.com](http://www.metalman.com)

Metalman plant II is the manufacturer of auto component such as chain covers, gears and other auto components required in the Bajaj motorcycles. The group metalman is closely associated with the Bajaj auto for the production of motorcycles and other auto components. In the plant management had started training and development labs where they are having sessions for the employees belong to various industries and their employees also. As plant I, Plant II also have installed robots for welding operation. There is no separate supply chain department but the functions of supply chain department were carried out in different departments like purchase, inventory, logistic etc. The industry is well known in the region for their on- time supply and for different ethical practices.



### 3) Birla Peruchinni



**Source: [www.birlaperuchinni.com](http://www.birlaperuchinni.com)**

Birla Accu Cast Limited (BAC) was established in 1998 as Birla Peruchinni Ltd in technical collaboration with Fonderia Peruchini SPA of Italy. The industry was started by Raja Baldeo Das Birla 150 years ago. As other plants it is performing so well that it one of the leading plant in the automobile component manufacturer in the Aurangabad district.

#### 4. Birla Precision Tools



Source: [www.birlaprecision.in](http://www.birlaprecision.in)



Source: [www.birlaprecision.in](http://www.birlaprecision.in)

Birla Precision Technologies Ltd (BPT) the erstwhile Birla Kennametal Ltd was established in 1986, as a joint venture company between YBG and Kennametal Inc, USA In July 2007. Birla precision manufacture some precise tools and the tool holders and so the industry is having some distinct and specialized working to make it special in the manufacturing of auto component as well as some other components.

## 5. Indian Tools



Source: [www.indiantool.com](http://www.indiantool.com)

Indian Tool Manufacturers established in 1937. Pioneer in manufacture and supply of high speed steel cutting tools in India. Two Manufacturing units are at Nashik and Aurangabad. Indian tools manufacture some special types of the tools with preciseness and high accuracy and so it is demanded a lot worldwide. The plant is having different departments as raw material storage because raw material is in the form of the long bars of metal from which tools are getting manufacture, bar cutting, tool cutting, milling etc.

## 6. Varsha Forgings Pvt. Ltd.



**Source:** [www.varshaforgings.com](http://www.varshaforgings.com)

Varsha Forgings Pvt. Ltd. (VFL) is a well-known forgings company in Indian Market as manufacturer and exporters of Carbon Steel, Alloy Steel and Forgings and in-house Machining Unit for Automotive, Valve and General Engineering Applications. VFL is associated with many other industries as it manufactures various components for different industries. It supplies components not only to industries in local area but it also manufacture components for various industries in other states also.

**Connecting Rod**



**Sector Shafts straight**



**Sector Shaft**





## 7. DP Auto Components



Source: [www.dpautocomponents.com](http://www.dpautocomponents.com)

DP Auto components is one of the auto manufacturing industry which manufacture different auto parts which are send to Bajaj Auto. There is a wide range of products manufactured in the plant. D P Auto Parts Private Limited is a Private incorporated on 19 March 2002. Directors of D P Auto Parts Private Limited are Sudha Manoj Bazaz, Anupras Manoj Bazaz..D P Auto manufactures various forged components. There is a setup of the different presses some of them are hydraulic and some are geared presses. Then there is machining unit for the finishing the components.

## 8. Melt n Mellow



**Source:** [www.meltnmellow.com](http://www.meltnmellow.com)

Melt n Mellow is an ice cream manufacturing plant which was established in 2011 at Aurangabad. There are four directors Sachin Shirwat, Abhishek Puranik, Amol Palshikar and Sandesh Shelke. All the directors are engineers and they are associated with auto manufacturing in Aurangabad district as well. They are having good business in Aurangabad, Nashik, Pune, Mumbai, Nanded and almost all parts of Maharashtra.