

A Review of the Indian Automobile Manufacturing Sector

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Abstract: This paper summarizes the various automobile manufacturing firms in India along with their plants, if any, and along with their geographical locations. Also this paper gives a classification of the various classes of automobiles manufactured in India along with the state wise, location wise, firm wise listing. This type of information is typically very useful for researchers in carrying out their research work in the automobile manufacturing sector of India. It can be used as a ready reference by managers for conducting various kinds of surveys of the automobile manufacturing sector of India, for example researchers doing research in the area of supply chain management; or green supply chain management may like to have an exhaustive listing in the way it is illustrated and interpreted in this paper.

Keywords: Automobile, Indian, Manufacturing Sector, Plants, Review

I. Introduction

This paper addresses an important issue pertaining to researchers in the field of automobile manufacturing. An exhaustive listing of the various automobile manufacturing firms and their plants as shown in this paper is not available in a convenient form. This paper lists the various classifications of automobile manufacturing sector of India like class wise, state wise, location wise, firm wise which makes it convenient for researchers and managers to refer and extract information that they want without reinventing the wheel.

II. Firm Wise Distribution of Indian Automobile Manufacturing Plants

There are 58 automobile manufacturing firms in India spread over 97 manufacturing plants in all [1], [2]. The firm wise distribution of plants is as shown in Table 1.

Table 1. Firm wise distribution of automobile manufacturing plants in India

Manufacturing firm	No. of plants	% of total plants
Ashok Leyland Limited	1	1.03
Asia Motor Works AMW	1	1.03
Audi India	1	1.03
BharatBenz	1	1.03
BMW India	1	1.03
CASE NEW HOLLAND INDIA	1	1.03
Caterpillar India Pvt. Ltd.	1	1.03
CNH Industrial	1	1.03
Daimler	1	1.03
Deccan Auto	1	1.03
Eicher Motors	1	1.03
Fiat India Automobiles Limited	1	1.03
Ford India Private Limited	1	1.03
Ford motors	1	1.03
Harley-Davidson India	1	1.03
Honda Cars India	1	1.03
Honda Motorcycles	1	1.03
Hyundai Motor India Limited	1	1.03
International Cars & Motors Limited	1	1.03
International Tractors Limited (Sonalika Group)	1	1.03
Isuzu Motors	1	1.03
Jaguar & Land Rover [41]	1	1.03
Kamaz Vectra Motors Limited	1	1.03
Kinetic Engineering Limited	1	1.03
Mahindra Navistar	1	1.03
Mahindra REVA Electric Vehicles	1	1.03
MAN Force Trucks Private Limited	1	1.03
Mercedes-Benz India	1	1.03
Mitsubishi	1	1.03
New Holland Agriculture / CHN	1	1.03
Nissan Motor India Private Limited	1	1.03

Manufacturing firm	No. of plants	% of total plants
Piaggio & C. SpA	1	1.03
Renault India Private Limited	1	1.03
Royal Enfield	1	1.03
Scania Commercial Vehicles India Private Limited	1	1.03
Skoda Auto India Private Limited	1	1.03
SML Isuzu Limited	1	1.03
Suzuki	1	1.03
Volkswagen India Private Limited	1	1.03
Volvo Buses India Private Limited	1	1.03
Yamaha	1	1.03
Bajaj Auto	2	2.06
Force Motors	2	2.06
General Motors India Private Limited	2	2.06
Hero MotoCorp	2	2.06
Honda	2	2.06
India Yamaha Motor Private Limited	2	2.06
Maruti Suzuki	2	2.06
Premier Automobiles Limited	2	2.06
Toyota Kirloskar Motor Private Limited	2	2.06
Hero Honda	3	3.09
Hindustan Motors	3	3.09
Ashok Leyland	4	4.12
TVS Motors	4	4.12
Honda Siel Cars India	5	5.15
TAFE Tractors	6	6.19
Tata Motors	6	6.19
Mahindra & Mahindra	7	7.22
Total automobile manufacturing plants in India	97	100.00

The firm wise distribution of Indian automobile manufacturing plants is shown graphically in Fig. 1 below.

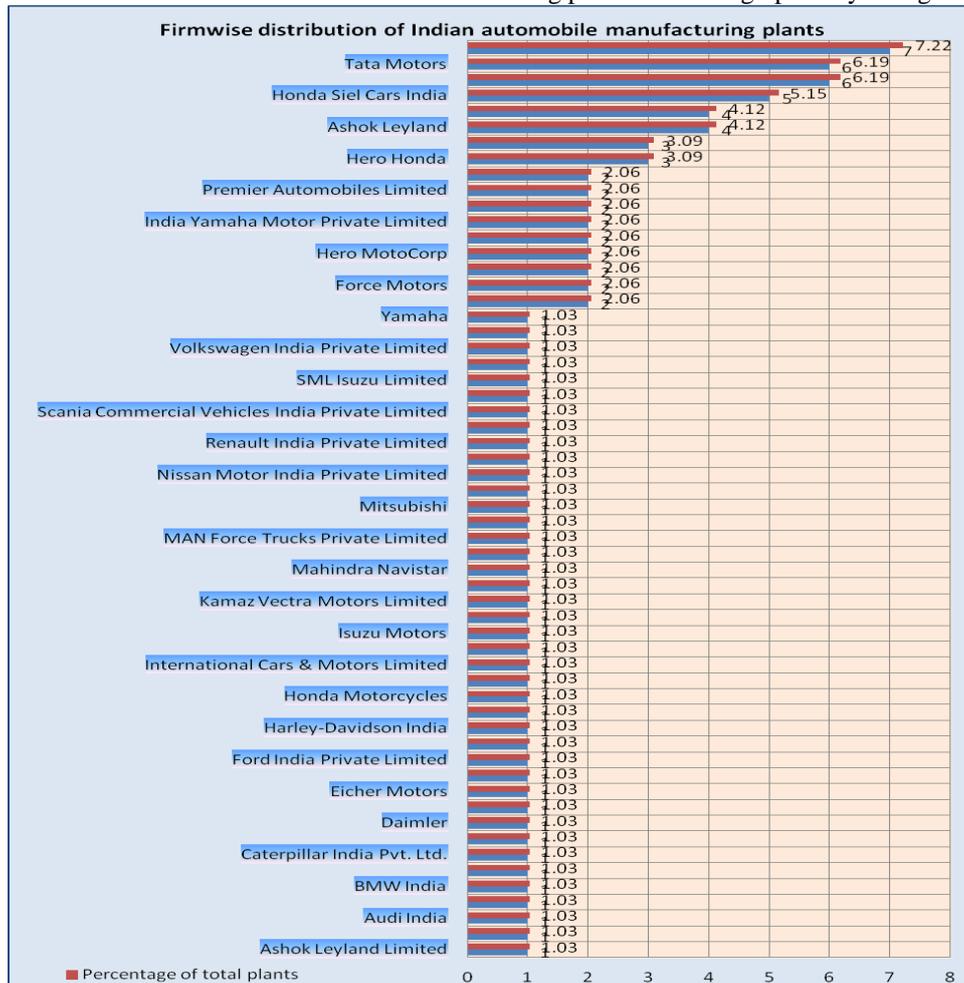


Figure 1. Graphical illustration showing firm wise distribution of Indian automobile manufacturing plants

From Fig. 1 and Table 1 it is evident that the Indian automobile manufacturing firms in the descending order of the number of plants they have is Tata Motors, Honda Siel Cars India, Ashok Leyland, Hero Honda, Premier Automobiles Limited, India Yamaha Motor Private Limited, Hero MotoCorp, Force Motors, Yamaha, Volkswagen India Private Limited, SML Isuzu Limited, Scania Commercial Vehicles India Private Limited, Renault India Private Limited, Nissan Motor India Private Limited, Mitsubishi, MAN Force Trucks Private Limited, Mahindra Navistar, Kamaz Vectra Motors Limited, Isuzu Motors, International Cars and Motors Limited, Honda Motorcycles, Harley-Davidson India, Ford India Private Limited, Eicher Motors, Daimler, Caterpillar India Pvt. Limited, BMW India, Audi India, Ashok Leyland Limited. So on one end of the spectrum Tata Motors is the firm with the largest number of automobile manufacturing plants and on the other end of the spectrum Ashok Leyland Limited has the smallest number of automobile manufacturing plants.

III. Class Wise Distribution Of Indian Automobile Manufacturing Plants

There are 7 broad classes of automobiles manufactured in India collectively by all the 58 automobile manufacturing firms through their 97 plants. These broad classes of vehicles are Excavators, back hoe loaders; Agriculture Equipment, combines; Bus Manufacturing Plant; Farm Tractors; Two wheelers; Passenger vehicles; and Commercial vehicles [1], [2]. Table 2 shows class wise distribution of the Indian automobile manufacturing plants in numbers and also in terms of percentage of the total number of Indian automobile manufacturing plants.

Table 2. Class wise distribution of Indian automobile manufacturing plants

Sr. No.	Class of automobile	No. of automobile manufacturing plants	% of automobile manufacturing plants
1	Excavators, back hoe loaders.	1	1.04
2	Agriculture equipment, combines	2	2.08
3	Bus Manufacturing Plant	2	2.08
4	Farm Tractors	5	5.21
5	Two wheelers	21	21.88
6	Passenger vehicles	30	31.25
7	Commercial vehicles	35	36.46
	Total	96	100

Fig. 2 shows graphically the class wise distribution of the Indian automobile manufacturing plants.

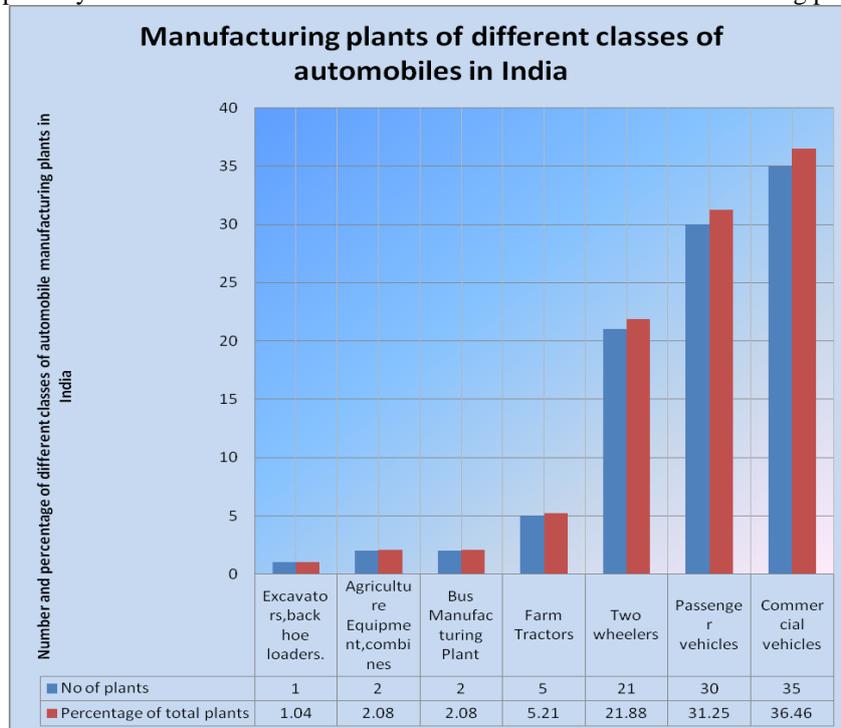


Figure 2. Class wise distribution of the Indian automobile manufacturing plants

From Fig. 2 and Table 2 it is evident that commercial vehicles are manufactured in maximum number of plants in India followed by passenger vehicles followed by two wheelers followed by farm tractors followed by bus manufacturing plants followed by agriculture equipment and combines plants followed by excavators and backhoe loaders plants.

IV. State Wise Distribution of Indian Automobile Manufacturing Plants

There are 15 states in India which have automobile manufacturing plants of Indian firms. The names of these Indian states in alphabetical order are Andhra Pradesh, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand, West Bengal [1], [2]. Table 3 shows the fifteen states of India in the descending order of the number of Indian automobile manufacturing plants.

Table 3. State wise distribution of Indian automobile manufacturing plants

Sr. No.	Name of Indian State	No. of Indian automobile manufacturing plants	% of Indian automobile manufacturing plants
1	Maharashtra	21	22.58
2	Tamil Nadu	19	20.43
3	Karnataka	9	9.68
4	Haryana	8	8.60
5	Madhya Pradesh	6	6.45
6	Rajasthan	6	6.45
7	Uttarakhand	5	5.38
8	Gujarat	4	4.30
9	Uttar Pradesh	4	4.30
10	Himachal Pradesh	3	3.23
11	Andhra Pradesh	2	2.15
12	Punjab	2	2.15
13	Telangana	2	2.15
14	Jharkhand	1	1.08
15	West Bengal	1	1.08
	Total	93	100.00

Fig. 3 shows graphically the state wise distribution of the Indian automobile manufacturing plants. It is very evident from Table 3 and Fig. 3 that the order of the states in descending order of the number of Indian automobile manufacturing plants they have is Maharashtra, Tamil Nadu, Karnataka, Haryana, Madhya Pradesh, Rajasthan, Uttarakhand, Gujarat, Uttar Pradesh, Himachal Pradesh, Andhra Pradesh, Punjab, Telangana, Jharkhand, West Bengal. On one end of the spectrum Maharashtra is the state with maximum Indian automobile manufacturing plants and on the other end of the spectrum West Bengal is the state with the least Indian automobile manufacturing plants.

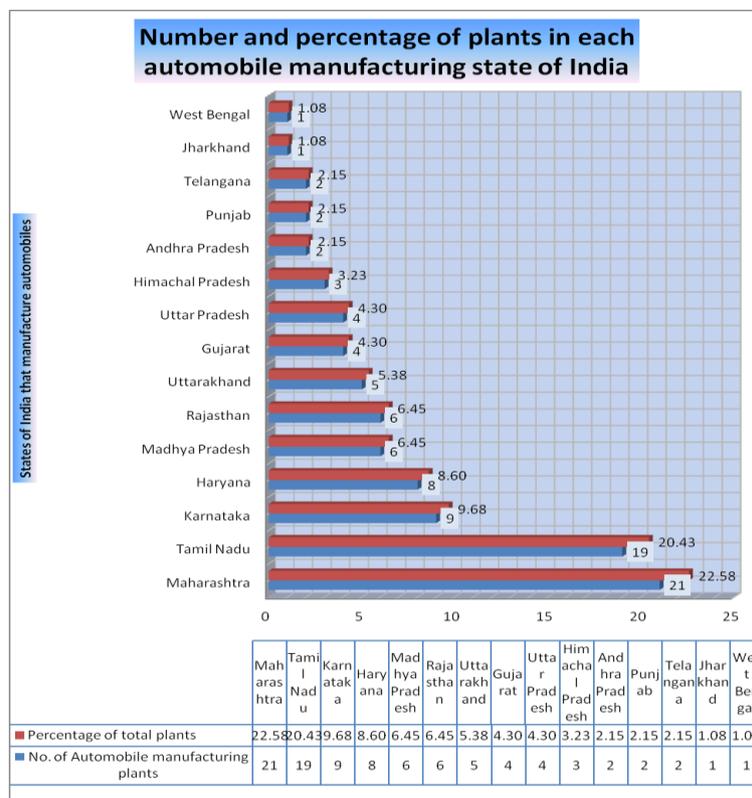


Figure 3. State wise distribution of Indian automobile manufacturing plants

V. Location Wise Distribution of Indian Automobile Manufacturing Plants

There are 53 locations in India spread over 15 states which have Indian automobile manufacturing plants. The number of plants at these locations ranges from a minimum of one at Amb on one end of the spectrum to a maximum of twelve on the other end of the spectrum [1], [2]. Table 4 shows the location wise distribution of the Indian automobile manufacturing plants.

Table 4. Location wise distribution of Indian automobile manufacturing plants

Sr. No.	Location	Number of India automobile manufacturing plants	% of total plants
1	Amb	1	1.06
2	Bhandara	1	1.06
3	Bhuj	1	1.06
4	Bidadi	1	1.06
5	Dharuhera	1	1.06
6	Dharwad	1	1.06
7	Doddaballapur	1	1.06
8	Ennore	1	1.06
9	Faridabad	1	1.06
10	Halol	1	1.06
11	Hindmotor	1	1.06
12	Hoshiarpur	1	1.06
13	Hoskote	1	1.06
14	Jaipur	1	1.06
15	Jamshedpur	1	1.06
16	Kalladipatti	1	1.06
17	Kandivali, Mumbai	1	1.06
18	Kodakachani	1	1.06
19	Lucknow	1	1.06
20	Mandideep	1	1.06
21	Maraimalai Nagar	1	1.06
22	Mysore	1	1.06
23	Nagpur	1	1.06
24	Nalagarh	1	1.06
25	Nashik	1	1.06
26	Nawanshahar	1	1.06
27	Neemrana	1	1.06
28	Parwanoo	1	1.06
29	Ahmednagar	1	1.06
30	Ranjangaon	1	1.06
31	Satyavedu	1	1.06
32	Sri City	1	1.06
33	Sriperumbudur	1	1.06
34	Surajpur	1	1.06
35	Zahirabad	1	1.06
36	Alwar	2	2.13
37	Aurangabad	2	2.13
38	Bangalore	2	2.13
39	Greater Noida	2	2.13
40	Haridwar	2	2.13
41	Kolar	2	2.13
42	Manesar	2	2.13
43	Sanand	2	2.13
44	Talegaon Dabhade	2	2.13
45	Tapukara	2	2.13
46	Oragadam	3	3.19
47	Pantnagar	3	3.19
48	Tiruvallur	3	3.19
49	Gurgaon	4	4.26
50	Hosur	4	4.26
51	Chennai	5	5.32
52	Pithampur	5	5.32
53	Pune	12	12.77

Fig. 4 illustrates graphically the location wise distribution of the various Indian automobile manufacturing plants.

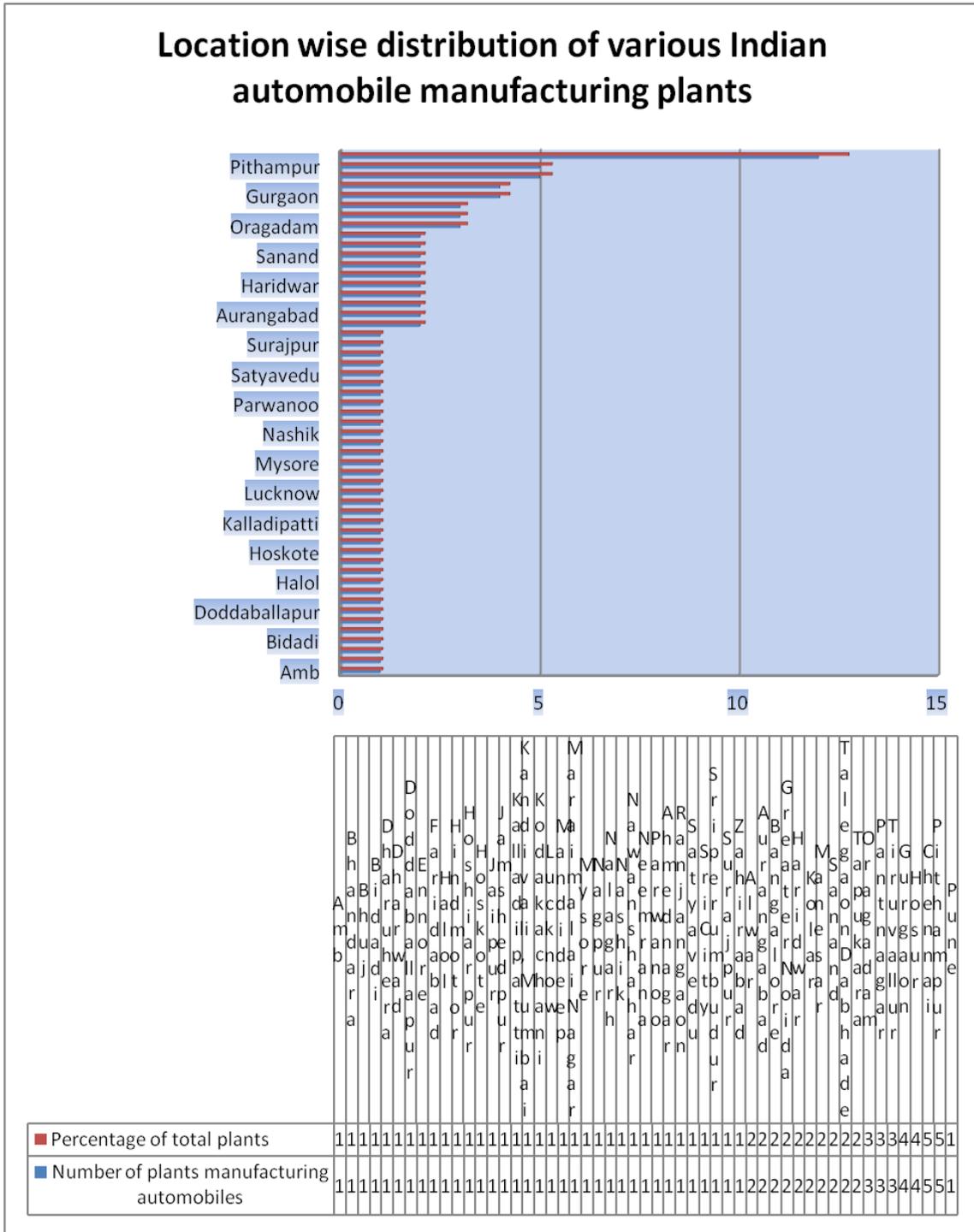


Figure 4. Location wise distribution of various Indian automobile manufacturing plants

VI. Conclusion

An insight into the Indian automobile manufacturing firms and their plants reveals that there are 58 automobile manufacturing firms in India and in all these 58 firms collectively have 97 plants spread over 15 states of India. Also there are 7 broad categories of automobiles which are manufactured in these plants across 53 locations in India.

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