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CONCLUSION AND FUTURE IN THE STRUCTURAL CHARACTERISTICS OF INDIA'S MANUFACTURING INDUSTRIES BEFORE AND AFTER REFORM

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Abstract

India is one of the leading industrialized nations in the world. Manufacturing sector is the key pillar for economic growth as it provides a significant multiplier to the economy both in terms of output and employment. During 1991 new industrial policy was introduced with an aim to correct the distortion and weakness of the industrial structure of the country. The economic reforms of 1991 brought drastic changes in Indian economy. Under this reform, the government of India abolished industrial licensing, dismantled price controls, diluted reservation of small- scale industries and virtual abolished monopoly law enabled industry to blossom. The primary objective of this model was to make the economy of India the fastest developing economy in the globe with capabilities that help it match up with the biggest economies of the world. Keeping this in view the study intended to analyze the growth trends in structural characteristics of manufacturing industries in India during pre and post reform period. And to analyze the growth trends in important structural characteristics of manufacturing industries in major states of India. To analyses these objectives the study used secondary data collected from Annual survey of Industries (ASI), Central Statistics Office (CSO). The Period of the study were divided into Pre-reform period (1981-1991) and Post reform period (1991- 2017). To reach the objectives of the study Compound Growth Rate (CGR) and Coefficient of Variation (CV) was used.

Keywords: Manufacturing Industries, Economic Reforms, Growth Trends

1. INTRODUCTION

Industrial sector plays a vital role in the economic development of India because the sector can solve the problems of poverty, unemployment, backwardness, low production, low productivity, and low standard of living and transform the old into new technology etc. With Gross value Added (GVA) of Rs. 50.40 lakh crores, the industry sector contributed 27.48%. to GDP in 2019-20. According to CIA Fact book sector wise Indian GDP composition in 2017 are as follows Agriculture (15.4%), Industry (23%) and Services (61.5%). GDP of industry sector is \$560.97 billion and 6th rank in the world. According to IMF and CIA World Fact book 20 largest countries by industrial output (in nominal terms) at peak level as of 2018 (billions in USD) India got the 7th place in the industrial output 619 billion in USD. Under industrial sector, manufacturing sector is a key pillar for economic growth as it provides a significant multiplier to the economy both in terms of output and employment. Prime Minister of India had launched the 'Make in India' program to place India on the world map as a manufacturing hub and give global recognition to the Indian economy. According to Annual Survey of Industries (ASI) the five states (Maharashtra, Gujarat, Tamil Nadu, Uttar Pradesh and Karnataka) are contributing to more than 50 percentage of Indian Industrial output. Bedsides these top 5 states own 53 per cent of India's total factories (Annual Survey of Industries 2017)). During 1991 new industrial policy was introduced

with an aim to correct the distortion and weakness of the industrial structure of the country. The economic reforms of 1991 brought drastic changes in Indian economy. Under these reforms, the government of India abolished industrial licensing, dismantled price controls, diluted reservation of small- scale industries and virtually abolished monopoly law enabled industry to blossom. The primary objective of this model was to make the economy of India the fastest developing economy in the globe with capabilities that help it match up with the biggest economies of the world. As per the studies Ravindra Kumar Sharma (2014), Vineet Singh (2016), Sukanta Kundu (2017), Dr. Tamma Koti Reddy and Krishna Reddy Chittedi (2007) the industrial sector of Indian economy shown less growth during post reform period compared to pre reform period, on the other hand Burange (1999) claimed that there was growth after reforms. Keeping this in a Study on Growth trends in characteristics of manufacturing industries during pre and post reform period is of significant importance.

2. OBJECTIVES AND METHODOLOGY

• To analyze the growth trends in structural characteristics of manufacturing industries in India during pre and post reform period.

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• To analyze the growth trends in important structural characteristics of manufacturing industries in major states of India.

To analyses these objectives the study used secondary data collected from Annual Survey of Industries (ASI), Central Statistics Office (CSO). The Period of the study were divided into Pre-reform period (1981-1991) and Post reform period (1991- 2017). The analysis of data was done by using Compound Growth Rate (CGR) and Coefficient of Variation. For the analysis of growth trends in important structural characteristics of manufacturing industries in major states of India the data was available only for the period (2010 -2107).

3. RESULTS AND DISCUSSION

An analysis of Structural Characteristics of Indian Manufacturing Industries during (1981- 2017) has been done using compound Growth rate. The period of analysis is divided as Pre reform period (1981 -1991) and Post reform period (1991 - 2017) as well as overall period (1981 - 2017) and for the purpose of analysis 22 variables were taken into consideration the summary of the results reveals that in terms of variables namely Number of Factories, Working Capital, Number of Workers, Net Income, Net Fixed Capital Formation and Profits. The CGR seems to be more during the Post reform period which indicates that Indian manufacturing industries has responded positively to the measures under taken during reform period. However, in terms of variables such as Fixed Capital, Invested Capital, Outstanding Loan, Wages to Workers, Total Emoluments, Fuels Consumed, Material Consumed, Total Inputs, Products, Value of Output, Depreciation, Net Value Added, Rent Paid, Interest Paid, Gross Fixed Capital Formation and Gross Capital Formation of the Per reform period CGR seems to be higher, this indicates that the reform has mixed impact on the industry as the some of the variables have not responded positively.

The Coefficient of variation is an indicators of consistency during the reference period reveals that the variables namely Number of Factories, Number of Workers employed have maintained consistency during the reference period which means in both these variables the variation were minimum, whereas in all other variables Working Capital, Fixed Capital, Invested Capital, Outstanding Loan, Wages to Workers, Total Emoluments, Fuels Consumed, Material Consumed, Total Inputs, Products, Value of Output, Depreciation, Net Value Added, Rent Paid, Interest Paid, Gross Fixed Capital Formation ,Gross Capital Formation, Net Income, Net Fixed Capital Formation and Profits the C.V seem to more than 100 which denotes there had been huge fluctuation in these variables during the reference period. Since these variables are measured in terms of money the huge variation may also be due to fluctuation in the price rate (Inflation).

The comparison of manufacturing industries in major states shows that Karnataka had registered the highest CGR (3.53) in Number of Factories with C.V of (7.49 %), followed by Gujarat (2.98) with C.V of (6.64%). The CGR in Number of Factories was found negative for Maharashtra (-0.39) the Coefficient of Variation (C.V) was observed lowest for Tamil Nadu (0.97%) low (C.V) indicates minimum variation in Number of Factories of Tamil Nadu.

In case of Fixed Capital Invested in manufacturing industries of major states the highest CGR was noticed in Gujarat (14.91) with C.V of (31.50 %) followed by Tamil Nadu (10.85) with C.V of (24.24%) respectively, and the CGR was lowest for Maharashtra (6.12) with C.V of (14.72%).

Pre-Reform 1981-1982 to 1990-1991 Post Reform 1991-1992 to 2016-2017 Overall C.V Structural Characteristics Period CGR CGR CGR Number of Factories 2.96 31.03 1.13 2.53 12.06 13.23 118.33 Fixed Capital 15.00 Working Capital 10.80 11.18 12.09 108.35 13.09 Invested Capital 14.41 12.11 116.3 Outstanding Loans 11.95 9.59 10.58 100.11 0.11 2.41 1.74 23.79 Number of Workers Wages to Workers 12.47 9.85 10.08 104.07 **Total Emoluments** 12.47 11.45 11.44 114.03 15.59 102.49 Fuels Consumed 10.74 12.06 Material Consumed 15.88 14.55 14.98 120.75 Total Inputs 15.23 14.58 15.08 121.12 118.29 Products 15.66 13.89 14.51 Value of Output 15.10 14.14 14.77 119.32 Depreciation 18.26 12.05 13.61 111.84 Net Value Added 14.07 12.48 13.57 111.98 14.50 Rent Paid 20.43 10.71 104 Interest Paid 10.91 102.9 17.41 8.57 Net Income 12.77 13.86 14.33 116.51 Net Fixed Capital Formation 10.64 11.12 11.33 109.10 Gross Fixed Capital 13.44 11.36 12.44 107.57 Formation 12.20 14.71 11.04 104.62 Gross Capital Formation 18.17 11.83 16.70 121.81 Profits

Table 1 An Analysis of Structural Characteristics of Manufacturing Industries in India during Pre and Post Reform Period

Table 2 An Analysis of Important Structural Characteristics of Manufacturing Industries in Major States of India (2010-2017)

States		Number of Factories	Fixed Capital	Working Capital	Number of Workers	Wages to Workers	Total Emolument
Maharashtra	CGR	-0.39	6.12	21.01	1.84	10.31	11.30
	C.V	2.51	14.72	46.76	4.88	20.74	22.45
Gujarat	CGR	2.98	14.91	-14.36	3.53	13.79	14.28
	C.V	6.64	31.50	33.16	8.18	28.19	28.98
Tamil Nadu	CGR	0.27	10.85	3.49	4.21	13.5	14.43
	C.V	0.97	24.24	20.59	9.91	27.18	28.48
Uttar Pradesh	CGR	1.84	9.14	-5.48	3.27	13.21	13.51
	C.V	4.00	18.89	31.44	7.99	26.78	27.68
Karnataka	CGR	3.53	8.46	2.27	4.4	15.13	14.79
	C.V	7.49	17.33	8.74	9.88	29.71	29.40

Table 3 An Analysis of Important Structural Characteristics of Manufacturing Industries in Major States of India (2010 – 2017)

States		Products	Value of Output	Net Value Added	Net Income	Profit
Maharashtra	CGR	4.48	4.88	6.67	7.67	5.79
	C.V	10.87	11.89	14.36	16.51	14.87
Gujarat	CGR	6.03	6.13	13.88	14.27	14.48
	C.V	14.54	14.62	28.48	29.73	31.84
Tamil Nadu	CGR	6.89	6.81	7.92	8.38	1.70
	C.V	14.58	14.51	17.92	19.87	20.52
Uttar Pradesh	CGR	8.07	8.36	11.23	11.49	9.10
	C.V	17.01	17.36	34.77	38.87	49.33
Karnataka	CGR	8.48	8.76	10.68	11.83	9.31
	C.V	17.79	18.31	23.78	26.99	27.47

As for as the Working Capital Invested in manufacturing industries of major states were concerned, Maharashtra had registered the highest CGR (21.01) with C.V of (46.76 %) followed by Tamil Nadu (3.49) with C.V of (20.59%). The Compound Growth Rate of Working Capital was found negative in Gujarat (-14.36) and Uttar Pradesh (-5.48) the coefficient of variation was least (8.74 %) for Karnataka.

In the case of Number of Workers Employed in manufacturing industries of major states the highest CGR was noticed in Karnataka (4.4) with C.V of (9.88%) followed by Tamil Nadu (4.21) and C.V was highest in Tamil Nadu (9.91 %). The CGR was lowest for Maharashtra (1.84) with C.V of (4.88 %).

As for as the Wages to Workers in manufacturing industries of major states were concerned CGR was highest for Karnataka (15.13) with C.V of (29.71%) followed by Gujarat (13.79) with C.V of (28.19%) and the CGR was lowest for Maharashtra (10.31) with C.V of (20.74%).

For Total Emoluments to Workers in manufacturing industries of major states Karnataka had registered highest CGR (14.79) with C.V. of (29.40 %) followed by Tamil Nadu (14.43) with C.V of (28.48%) the lowest CGR was found in Maharashtra (11.30) with C.V of (22.45%)

The comparison of Manufacturing Industries in Major States displays that Karnataka had registered the highest CGR (8.48) and C.V (17.79 %) in Products followed by Uttar Pradesh (8.07) with C.V of (17.01%) and C.V was lowest for Maharashtra (10.87 %).

In the case of Value of Output in manufacturing industries of major states the highest CGR was noticed in Karnataka (8.76) with C.V of (18.31 %) followed by Uttar Pradesh (8.36) with C.V of (17.36%). The CGR was lowest for Maharashtra (4.88) with C.V of (11.89 %).

In Net Value Added made in manufacturing industries of major states Gujarat had registered the highest CGR (13.88) with C.V of (28.48%) followed by Uttar Pradesh (11.23). C. V was highest for Uttar Pradesh (34.77%) and the CGR was lowest for Maharashtra (6.67) with C.V of (14.36%).

In the case of Net Income Earned in manufacturing industries of major states the highest compound growth rate (CGR) was noticed for Gujarat (14.27) with C. V of (29.73%), followed by Karnataka (11.83). the highest C.V was found for Uttar Pradesh (26.99%) the CGR was lowest for Maharashtra (7.67) with C.V of (16.51%).

As for as the Profits earned in manufacturing industries of major states were concerned, Gujarat had shown the highest CGR (14.48) and Uttar Pradesh had shown highest C.V (49.33), the lowest CGR was noticed for Tamil Nadu (1.70) and lowest C.V was found for Maharashtra (14.87) the low Coefficient of variation indicated minimum variation of Profit in Maharashtra.

4. CONCLUSION

It can be concluded that economic reforms had mixed impact on growth of important structural characteristics of manufacturing industries in India. The variables like Number of Factories and Number of Workers had shown growth rate of more than double of pre-reform period and also the variables Working Capital, Net Income, Net Fixed Capital Formation and Profits had also shown better growth rate than pre reform period. Number of Factories, Number of Workers Employed have maintained consistency. While the variables such as Working Capital, Fixed Capital, Invested Capital, Outstanding Loan, Wages to Workers, Total Emoluments, Fuels Consumed, Material Consumed, Total Inputs, Products, Value of Output, Net Value Added, Net Income, Net Fixed Capital Formation, Profits etc., the C.V seem to more than 100 which denotes there had been huge fluctuation in these variables during the reference period. Since these variables are measured in terms of money the huge variation may also be due to fluctuation in the price rate (Inflation). The State wise analysis shows that Karnataka, Tamil Nadu and Gujarat performed well in most of the selected structural characteristics whereas Uttar Pradesh performed moderate and Maharashtra had comparatively performed least in selected structural characteristics during the study period.

REFERENCES

- [1] Annual Survey of Industries (2017), Ministry of Statistics and Programme Implementation Central Statistics Office - Industrial Statistics Wing, Government of India. (Issues from 1979-80 to 2016-17).
- [2] Burange L. G. (1999) "Industrial Growth and Structure Manufacturing Sector in Maharashtra" Economic and Political Weekly 2, pp M39 –M48
- [3] Development of Industries in India from Independence till Today. www.Gr8ambitionz.Com/2016/12/Development-Of-Industries-In-India
- [4] Ravindra Kumar Sharma (2014), "Industrial Development of India in Pre and Post Reform Period" ISOR Journal of Humanities and Social Science, 19 (10) pp 01- 07.
- [5] Industrial Policy of INDIA 1948, 56, 77, 80, 90 &
 91 YouTube Know Economics Published on Apr 29, 2017 Indian Economy MC Graw Hill.
- [6] Dr. Tamma Koti Reddy New Economic Policy of 1991 Objectives Features and Impacts https://m.jagranjosh.com/general-knowledge/neweconomic-policy-of-1991-objectives-featuresand-impacts-1448348633-1.
- [7] Lists of Countries by Industrial Output en.wikipedia.org/wiki/Industry.
- [8] Sector wise GDP Contribution of India http://statisticstimes.com/economy/sectorwisegdp-contribution-of-india.php.
- [9] The Hindu Business line, "Govt modifying '2011 vintage' national manufacturing policy" PTI New Delhi, Published on May 18, 2017 www.thehindubusinessline.com/news/national/go vt-modifying-2011-vintage-nationalmanufacturing-policy/article9707050.ece
- [10] Vineet Singh (2016) "India's Industrial Policy and Performance since Independence" Tata Institute of Social Sciences, Tuljapur (Maharashtra), India
- [11] Dr. Tamma Koti Reddy and Krishna Reddy Chittedi (2007), Industrial Growth in India During Pre and Post Reform Periods" International Journal of Humanities and Social Science, 4, (2).
- [12] Sukanta Kundu. (2017) "Impact of New Industrial Policy on the Indian Economy with Special Reference to Industrial Sector" Journal of Commerce and Management 3 (11). pp 28-32.