

A Critical Look on the Structure of CENSUS Sector of ASI from 2000-01 data

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Abstract

Annual Survey of Industries (ASI) being the largest survey of registered manufacturing sector has assumed great importance right from its inception. Traditionally, to cover the sector in the most comprehensive way, the sample design of ASI has been so planned that it covers all the 'big' units on a census basis every year (called the census units) whereas a sample of suitable size is drawn from the remaining frame keeping in view the level of estimates (state, NIC digit etc.). Although the definition of the 'census' has undergone changes over time, the underlying spirit of capturing the large units remained the same. Last major change in the definition of census sector took place during 1998-99 and 1999-2000 when all the units having 200 or more workers were defined as census. From 2000-01 onwards the definition of census sector in ASI remained broadly the same with 100 or more workers being the main criteria. However, apart from these big units, there had always been units that were surveyed on a complete enumeration basis and formed a part of census sector.

In recent years volatility in ASI data has been a major point of debate among the stake holders. While some studies showed that volatility is inherent in this sector, questions have always been raised on the design effect in the estimates especially the behaviour of sample sector.

With that background, in this paper, an attempt has been made to look into the changes in the composition of the Census sector units over the last 11 years (from 2000-01 to 2010-11). For the purpose of the study, the Census sector has been further bifurcated into True Census units i.e. units with 100 or more employees and Pseudo Census units i.e. units with less than 100 employees, yet considered as census unit as defined in ASI. It shows the changes in its share and coverage of these 2 sub-sectors in all India and in major States as well as in major Industries for major characteristics and also the growth pattern of these sub-sectors vis-à-vis the growth of the Census sector as a whole, sample sector and the overall GVA growth of the industry or state. The paper shows that the contribution of the Pseudo Census units in the overall GVA has not been much for most of the industries and state and also at all India level for most of the years. The growth of this sector has been very erratic in most cases, implying thereby a high degree of volatility existing in this sub-sector.

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1. Introduction

1.1 Annual Survey of Industries (ASI) is the principal source of industrial statistics on the registered manufacturing sector of the economy and a main component for estimating state domestic product. ASI covers all factories registered under Sections 2(m)(i) and 2(m)(ii) of the Factories Act, 1948. The survey also covers bidi and cigar manufacturing establishments registered under the Bidi and Cigar Workers (Conditions of Employment) Act 1966. All captive electricity undertakings engaged in generation, transmission and distribution of electricity and not registered with the Central Electricity Authority (CEA) are also covered under ASI. The survey has so far been conducted annually under the statutory provisions of the Collection of Statistics (COS) Act, 1953 and the rules framed there-under in 1959 except in the State of Jammu & Kashmir where it is conducted under the J&K Collection of Statistics Act, 1961 and rules framed there under in 1964. However, from ASI 2010-11 onwards, the survey has been conducted annually under the statutory provisions of the Collection of Statistics (COS) Act, 2008 and the rules framed there-under in 2011.

1.2 Apart from this statutory backing, another unique feature of ASI is that the entire data collected for ASI are record-based, in the sense that they are taken from audited balance sheet, Profit and Loss Account etc. of the unit. These features, coupled with a large sample size (about 60,000 factories are surveyed every year) make ASI a very rich data source for analysing the growth and structural changes taking place in the registered manufacturing sector in general and industry specific behaviour of firms in particular. The sampling design followed in ASI is such that the entire frame of units is first divided into two sectors, viz., Census and Sample following a more or less similar definition of the sectors over the years based on a threshold number of workers. While the census sector units are surveyed every year, a sizable number of units of the sample sector are also surveyed every year following a circular systematic sampling with a specific sampling fraction (which varies over year).

1.3 Apart from the units having 100 or more workers, units having single books of account within states are termed as Joint return, are also a part of the Census sector. Some of the strata (State x NIC 4-digit of the remaining units), having less than 4 units, where sampling is not possible as per the present sampling design, are also included in this sector. This study critically

analyses the changes in structure and magnitudes of these parts separately for different parameters from ASI data during 2000-01 to 2010-11.

1.4 The organisation of the study is as follows: Section 1 is the introduction. Section 2 gives a brief account of the data preparation and the concepts used. Section 3 presents the analysis and Section 4 offers some concluding remarks.

2. Data preparation

2.1 The definition of Census sector remained same from 2000-2001, as the units having 100 or more workers and units with "Joint Returns". In some less industrial States/UTs, like, Manipur, Meghalaya, Nagaland, Tripura, Sikkim and Andaman & Nicobar Islands, all the units were taken under Census sector. The concept of "Joint Returns" was introduced in ASI 1998-99 and continued with more or less same manner with some regional variations. Over the years the definition stabilized to the units under same NIC 4-digit within State/UT under single ownership and having single Books of Account etc. As such Census & Sample sector are defined as follows:

Census Sector:

- a) All industrial units belonging to the six less industrially developed states/UT's viz. Manipur, Meghalaya, Nagaland, Sikkim, Tripura and Andaman & Nicobar Islands.
- b) For the rest of the twenty-six states/UT's., (i) units having 100 or more workers, and (ii) all factories covered under Joint Returns.
- c) Strata (State by 4-digit of NIC) having less than or equal to four units after selecting the Census Sector units as defined above are also selected as census sector.

Sample Sector:

The remaining units in the frame are coming under Sample sector.

In the present study, with an objective to probe further into the census sector, Census Sector has been divided into the following categories (sub-sectors):

- i) Census 100 - Single units with reported no. of Employees ≥ 100

- ii) Joint returns(JR) 100 - Joint return units with reported no. of Employees ≥ 100
- iii) Other Joint returns(JR) - Joint return units with reported no. of Employees < 100
- iv) Other Census - Single units with reported no. of Employees < 100

Then i) & ii) were clubbed together as "True Census" and iii) & iv) as "Pseudo Census".

Sample Sector was also divided in two ways as:

- i) Complete Enumeration - Sample Units with multiplier = 1.00, i.e., where all units in the stratum were selected & surveyed
- ii) Other Units - Sample Units with multiplier > 1.00 , i.e., where some units in the stratum were selected & surveyed

2.2 Till 2003-04, some strata having less than or equal to four units, were considered under Sample Sector. As can be seen from the Table 1, from ASI 2004-05 onwards, these units were considered in Census Sector. Number of units surveyed in Other Census and Complete Enumeration are comparable over the years. Hence, for this study, Complete Enumeration Units under Sample Sector were counted under Other Census in Census Sector.

2.3 Table-2 shows that contributions in GVA of Other JR (Joint Returns) in all the years were quite small, and hence now the Census Sector is broadly categorized as:

- i) True Census - Single & Joint return units with reported no. of Employees ≥ 100
- ii) Pseudo Census - Single & Joint return units with reported no. of Employees < 100

Thus, the Pseudo census units include

- (i) all units in a stratum having less than 4 units
- (ii) all joint return units having less than 100 employees and the

units reported as joint returns but initially not selected as joint return units

(iii) all the units selected as joint returns but surveyed as single units.

(iv) all units having less than 100 employees reported but having more than equal to 100 workers during preparation of frame.

2.4 During the period under study, on an average 3,350 units were initially selected every year with more than or equal to 100 workers, but reported less than 100 employees. Number of such units was highest (5,390) in 2000-01 and lowest (1,779) in 2004-05. On the other hand, on an average, 2,080 units each year reported more than equal to 100 employees, initially selected in sample sector. Over the period, joint return units increased more than 57%, but each year, number of joint returns reported was less than that in the frame. As per ASI 2010-11 data, Chhattisgarh (63%), Jharkhand (49%), Delhi (37%), Odisha (31%), Karnataka (26%) and Daman & Diu (25%) are the states where 25% or more contribution in GVA came from Joint return units. However, while canvassing the units, composition of these units changed in many cases from the composition given in the ASI frame. In 2010-11, 1,811 units were reported as single return while they were declared as joint returns units as per frame and 849 units reported as joint returns while they were selected as single units in the frame. These figures justify the study of this sector in a greater detail.

2.5 NIC-1998 was followed in ASI 2000-01 to ASI 2003-04, then NIC-2004 was followed from ASI 2004-05 to ASI 2007-08 and from ASI 2008-09, NIC-2008 has been introduced. In this study, NIC-2004 has been used and accordingly, NIC-98 codes for ASI 2000-01 to ASI 2003-04 and NIC-2008 codes for ASI 2008-09 to ASI 2010-11 have been modified with NIC-2004 codes for uniformity. As such, where ever direct concordance of NIC at 2-digit levels was not possible, unit-level records were checked to decide on such modifications.

2.6 Among six less industrial states, Sikkim was surveyed from ASI 2009-10. Excluding Sikkim, GVA contribution of other five states ranges from 0.06% in ASI 2002-03 to 0.16% in ASI 2010-11. Sikkim has GVA contribution of 0.25% in ASI 2009-10 and 0.35% in ASI 2010-11 in India. Small U.T.s like Chandigarh and Puducherry also had GVA contribution of less than 1% in all these years. These eight states/u.t.s were clubbed together in this study as "Other States".

2.7 Similarly, as in ASI reports, NIC-2004 2-digit 01 & 38 onwards were clubbed together as "Other Industries".

2.8 The characteristics studied in this paper are Estimated Number of Units, Number of Employees, Fixed Capital, Total Emoluments, Total Outputs and Gross Value Added. Data were prepared in constant prices with base 2000-01. Implicit price deflator for Gross Fixed Capital Formation (2004-05 prices) was used for deflating the Fixed Capital figures. WPI for Manufactured Products (1993-94 series & 2004-05 series) was used for deflating Total Outputs and Gross Value Added figures and CPI for Industrial Workers was used for adjusting Total Emoluments figures. Price deflators used for adjusting different characteristics under study are given in Annexure-II. Year-wise growth rates and percentage shares of all the characteristics under study are given in Annexure-I for States and 2-digit level of NIC2004 at constant prices (2000-01).

3. Data Analysis

3.1 Table T1 and Table T2 in Annexure-I gives overall growth rate of ASI 2010-11 over 2000-01 of major characteristics from ASI 2000-01 to ASI 2010-11 for major State/U.T.s and NIC at 2-digit level respectively at 2000-01 constant prices. It shows, during this period, at all India level, growth of gross value added (GVA) was 203.07%, total output was 230.49%, fixed capital was 147.49%, whereas growth of employees and total emoluments were 58.93% and 92.86% respectively.

3.2 In terms of GVA, among the major Indian states, Uttarakhand, Jammu & Kashmir, Himachal Pradesh, Odisha and Andhra Pradesh registered the highest growth in that order. However, in terms of % share of the states in all India manufacturing GVA, Maharashtra, Gujarat, Tamil Nadu, Karnataka and Andhra Pradesh ranked as top five states and together they shared 57.96% of GVA at all India level.

3.3 Similarly, at NIC 2-digit level, Recycling (37), Other industries, Other mining and quarrying (14), Coke, petroleum and nuclear fuel (23) and Fabricated metal products (28) had the highest overall growth of GVA in that order. Chemicals and chemical products (24), Basic metals (27), Coke, petroleum and nuclear fuel (23), Food products and beverages (15) and Textiles (17) remained the top five industries in terms of their average

share in the overall GVA of the manufacturing sector with a cumulative GVA share of 55.77%.

3.4 It shows that overall growth of "True Census" is much similar to that at all India level. It is higher for number of Units, Total output & GVA and lower for Fixed Capital, number of Employees & Total emoluments. But impact of "Pseudo Census" seems to be quite marginal as the difference between Census sector and "True Census" is quite small other than in number of Units.

3.5 Year-wise fluctuation in GVA and other characteristics cannot be measured through the overall growth rate of these characteristics. So, the following States and Industries were selected depending on the overall growth rate, coefficient of variation of year wise growth rates and their percentage share at all India level for major characteristics.

States : Uttarakhand, Jharkhand, Gujarat & Odisha and

Industries : Chemicals and chemical products, Basic metals, Coke, petroleum and nuclear fuel & Food products

3.6 These states and industries have been studied in further details and the findings are presented in the remaining part of the Section under Sub-sections A and B. Sub-section A presents the state-wise analysis, while the industry-wise analysis are presented in Sub-section B.

(A) State-wise Analysis

3.7 Results of four states viz. Uttarakhand, Jharkhand, Gujarat and Odisha are presented in this Sub-section.

Uttarakhand:

3.8 This state shows a phenomenal growth in GVA (1,624%), Total output (1,319%) and Fixed Capital (1,081%) during the period 2000-01 to 2010-11, whereas overall growth in Employment and number of units has remained 568%, and 229% respectively during the same period. It is seen from the Table 4 that almost for all the characteristics under study, year-wise growth suffered the most in 2001-02 and in 2009-10, while 2008-09 showed very high growth in Total emoluments, GVA and Total output.

3.9 In Uttarakhand, Chemicals and chemical products (NIC 24) had an average 17% share of GVA in the state. Machinery and equipment n.e.c. (NIC 29) had 14% share, but during 2000-01 to 2002-03 its percentage share was less than 1%. From 2004-05 it had a major increase in share of GVA. Food products (NIC 15) was more or less having consistent share of GVA with an average of 11%. These three industries provided an average 42% share of state GVA. Percentage share in GVA for Wood and wood product (NIC 20) showed sharp decline in 2004-05 to 0.30% from 28.9% in 2003-04. Steady decline in share of GVA was also seen in Paper and paper products (NIC 21).

3.10 In food industries, on an average 83% share of GVA came from Census sector units and Sample sector units contributed only 17%. Out of this 83% share, 73% came from True Census units. But in 2002-03, percentage share of True census units were only 41%. So, the variation observed in the growth rate in Food industry can be attributed to both Census and Sample sector units.

3.11 In Chemical industries, 78% share of GVA came from Census sector units and 73% share from True census units. In 2006-07 Census sector share showed a decline to 59% and True census units contributed 53%. Census sector provided highest share of 97.77% in 2002-03 and Sample sector had highest share of 46% in 2009-10.

3.12 In machinery and equipment industry, percentage share of GVA was on an average, 90% from Census sector except in 2008-09, when it fell abruptly to 11%. Share of true census units also showed variations ranging from 21% to 94% due to changes in number of employees resulting in changes in different sectors (census and sample) over the period. For all other industries taken together, Census and True census units had a steady share of 82% and 73% respectively, except in 2008-09, when both were reduced to 40% and 38% respectively.

3.13 Year-wise GVA growth in the state was quite fluctuating as can be seen from the Table 6 and also, year-wise growth rate observed in top three industries was not in the same line with the growth in the state as a whole. But, in most cases, growth in True census units was close to that in Census sector. Except in machinery & equipment industry, Census sector growth was conforming to that of the industry at state level as a whole. Interestingly,

in many cases, the growth rate observed in Pseudo Census units have been extremely erratic and widely varying with the growth rates observed in Census, True census and even sample units both in magnitude and also in direction. This clearly points out to a possible disturbance in the overall estimate by these units.

Jharkhand

3.14 For the state of Jharkhand, growth observed in GVA (193%), Total output (230%) and Fixed capital (146%) have been less than that observed for all India, while Employment growth (8.42%) and Total Emolument growth (9.94%) were lowest among all states during the period 2000-01 to 2010-11. It is seen from the Table 7 that year-wise growth suffered severely in 2001-02, 2006-07 and 2008-09 for most of the characteristics. Fluctuation in year-wise growth figures was also very high for most of the characteristics in this state during this period. It is also seen from the Table 7 that year-wise growth of GVA suffered in two consecutive years twice, once in 2005-06 & 2006-07 and then again in 2008-09 & 2009-10.

3.15 Jamshedpur is well known for its Steel & Motor vehicle industries. In Jharkhand, both these industries taken together had an average share of 79% of the total GVA, with 71% contribution coming from Basic metals (NIC 27) alone. As seen from the Table 8 that percentage share of these industries also varied significantly over the period and in 2009-10, Basic metals had only 50% share in state GVA.

3.16 In Basic metal industry, on an average 97% share of GVA came from Census sector of which 96% came from True census units. Although the Pseudo Census and Sample sector units exhibited wide fluctuation in year-wise growth, given their almost negligible contribution in terms of % share of GVA, the fluctuation in this industry is mainly due to the True census units.

3.17 Similarly, Motor vehicles (34) industry, 89% share of GVA came from Census sector of which 88% came from True census units. But, in all other industries taken together, behaviour of all the categories of units was different and none of them was conforming to the year-wise GVA growth rates at the state level.

3.18 Interestingly, year-wise growth rates observed of Basic metals were quite opposite to that observed for Motor vehicles in some years during the period under study. For other years also, growth rates were quite different for these industries.

3.19 For the state of Jharkhand, Census sector contributed on an average 91.5% of the state GVA, where as share of true census units were 88%. Even though, year-wise growth rate observed in all sectors were erratic and widely varying, growth rates of Census sector and True census units were very close to that of the state as a whole, implying that the Census sector, or more specifically the True Census sector is the main driver of the GVA growth in the state and fluctuation in state GVA growth rates is mainly attributed to the volatility in growth rate in this sector only.

Gujarat

3.20 Gujarat is the second most industrialized state in India after Maharashtra. It's percentage share in the country's GVA was, on an average, 14% during the period 2000-01 to 2010-11. In the state, growth of GVA (212%), Total output (313%), Total Emolument (114%) and Employment (72%) were more than that of all India growth rates while growth rates observed for Fixed capital (132%) and number of Unit (51%) were lower the corresponding all India figures. It is seen from the Table 10 that GVA in the state grew steadily till 2005-06 and during the next five years it showed negative growth in alternate years. However, after 2000-01, Employment growth has remained quite stable during the period of study with nearly 10% share on an average in India, which is less than only 3 states viz. Tamil Nadu, Maharashtra and Andhra Pradesh.

3.21 In Gujarat, Chemicals and chemical products (NIC 24) had an average share of 34% while Coke, petroleum and nuclear fuel (NIC 23) had 23% share of GVA. Next highest share in GVA was from Textiles (NIC 17) with an average share of 7%. Among the remaining industries, basic metals, food products, machinery and equipment and other non-metallic mineral products industries had more than 1% shares in total GVA of the state. Year-wise percentage share of Coke & petroleum industry has increased was more or less steadily from 4.02% in 2000-01 to 29.46% in 2010-11, while that of Chemical and Textiles industries decreased steadily during this period from 51.45% in 2000-01 to 26.78% in 2010-11. However, the share of other industries remained more or less same over the period.

3.22 In both Coke & petroleum and Chemical industries, GVA share of Sample sector and Pseudo census units were very small but in Textile industry, share of both these sectors were more. In these three industries, year-wise growth rates of GVA of True census units were more or less same as that of Census sector as a whole and other than Textile industry, they were conforming to the GVA growth of the state. However, negative growth of Sample sector and Pseudo census units changed the magnitude of growth of GVA in some years for Textile industry.

3.23 In all other industries in Gujarat, True census units contributed on an average 68% share of GVA. But with 30.63% share, Sample sector units might also have affected growth in some years during the period.

3.24 However, at state level, year-wise growth rate in GVA was similar to that of True census units and Census sector units as a whole. Although, there have been erratic year-wise growth rates observed for Pseudo census units, they seem to have little impact in the overall growth rate of GVA at the state level, due to their negligible share in the overall GVA of the state. Both Sample sector and Pseudo census units had much effect in industry wise growth, but had less impact at state level.

Odisha

3.25 This state registered phenomenally high growth of GVA (356%), Total output (356%) and Fixed Capital (553%) during the period 2000-01 to 2010-11. Growth of Total Emolument (158%) and Employment (120%) were also much higher than all India level. Only growth in number of Units (52%) was lower than the all India average. Odisha had an average share of only 2.24% in country's GVA. It is seen from the Table 13 that growth of GVA was suffered only in 2001-02 (-10.97%), in 2005-06 (2.28%) and in 2009-10 (-8.52%). However, Fixed Capital grew significantly from 2005-06, registering a positive growth in all the subsequent years with a minimum of 17.65% growth in 2008-09 and a maximum growth of 61.72% in 2009-10.

3.26 For the state of Odisha, Basic metals (NIC 27) had the highest 73% share of GVA followed by 8% share from Other non-metallic mineral products (NIC 26). Among the remaining industries, chemicals and food products had more than 4% shares in total GVA of the state. For these two major industries, on an average, 96% share in Basic metals and 85% share

in Other non-metallic mineral products, came from True census units, whereas share of Pseudo census units was negligible at an average 0.28% and 2.05% respectively. But for all other industries together, average share of Pseudo census was more than 7% out of 77.5% average share of Census sector.

3.27 Although, year-wise growth rate of GVA has been found to be significantly varying for Basic metal industry, the variation in growth rate of Pseudo census and Sample sector units also have been extremely fluctuating.

3.28 Quite expectedly, Basic metal industry having major contribution in the overall GVA of the state, has remained the main driver of the GVA growth for the state - its growth resembled the overall growth at the state level, both in magnitude and direction for most of the years.

3.29 Overall for the state, an average of 92% share in GVA came from Census sector and 90% from True census units, Sample sector contributed remaining 8%. So, year-wise growths in GVA were similar to that of True census units and Census sector at state level. Although, there were erratic year-wise growths in both Sample sector and Pseudo census units, they had little impact in GVA growth at the state level.

(B) Industry-wise Analysis

3.30 Results of four industries viz. Chemical and Chemical Products (24), Basic Metals (27), Coke, Petroleum and Nuclear Fuel (23) and Food Products (15) are presented in this Sub-section.

Chemicals and chemical products (24)

3.31 Among the manufacturing industries, this industry had the highest share in overall manufacturing GVA (on an average of 16%) during the period under study, although its percentage share gradually declined from 21% in 2000-01 to 14% in 2010-11. Growth of GVA (102%), Total output (102%), Fixed capital (31%) and Total Emolument (75%) of this industry were much lower compared to those at all India level. However, the industry's share in Fixed capital (11%) in 2010-11 was second highest in India, next only to Basic metal industry.

3.32 It is seen from the Table 16 that GVA growth was negative only in 2000-01 and thereafter, in all subsequent years it registered a positive growth rate albeit in different magnitude. Interestingly, in the year 2001-02, all the characteristics under study showed a negative growth. Apart from the year 2001-02, Total output and Total emoluments registered a negative growth only in 2009-10.

3.33 For the Chemical industry, Gujarat and Maharashtra are the two major states having (average) 29% and 14% contribution to the total GVA respectively at all India level. It is seen from the Table 17 that share of both these states declined over the years. It was mainly due to increase in the shares of Himachal Pradesh, Uttarakhand and Andhra Pradesh.

3.34 In Gujarat, on an average 84% share of GVA for this industry came from True census units and contribution of Pseudo census units was negligible. In Maharashtra, True census units' average share was 72% with only 1% share from Pseudo census units. At all India level, on an average, 73% share came from True census units while Pseudo census units contributed only 2.6%.

3.35 It may be observed from the Table 18 that except for a few years (like 2004-05, 2010-11 for Gujarat, 2008-09 and 2010-11 for Maharashtra), direction and magnitude of growth of Census and True census units resembled the overall growth of the industry at state or all India level, as the case may be.

3.36 As can be seen from the Table 18, year-wise growth of GVA for Pseudo census units have been extremely erratic in many cases; although owing to their insignificant share in the overall industry level GVA, the impact of such high degree of fluctuation has not been that profound. Census and True census units also showed some irregularity in their growth pattern over the years, but in a much lesser degree.

Basic metals (27)

3.37 This industry has the second highest share in GVA, (on an average 14%) during the period 2000-01 to 2010-11 next only to Chemical and Chemical products. This percentage share fluctuated between 9% to 18% in the middle years, and then declined to 12% in 2010-11. Growth of GVA (265%) , Total output (355%), Fixed capital (206%) and Employment (80%)

of this industry were much higher compared to those at all India level, whereas, Growth in Total Emolument (90%) and in number of Units (60%) were close to the figures of all India. Moreover, share in Fixed capital (22%) in 2010-11 was highest among all states in India.

3.38 It is seen from the Table 19 that GVA growth was negative in 2000-01, 2005-06 and 2008-09. In these years, growth in Total Output was also marginal compared to remaining years.

3.39 Jharkhand, Chhattisgarh and Odisha are the major states with an average GVA share of 18%, 14% and 12% respectively. Other three states having more than 7% average share of GVA were Maharashtra, Andhra Pradesh and Karnataka.

3.40 In Jharkhand, on an average 96% share of GVA came from True census units and contribution of Pseudo census units was only 1%. In Chattisgarh, on an average 97% and in Odisha on an average 95.5% share of GVA came from True census units and contribution of Pseudo census units in these two states were negligible. As a whole, at all India level, an average 87% share came from True census units while Pseudo census units contributed only 1% and Sample sector had remaining 12%.

3.41 It may be seen from the Table 21 that year-wise growth rates of GVA observed for the Census and True Census units were mostly similar in direction and magnitude in most of cases except perhaps for Odisha in 2007-08 and in 2008-09, where growth in Sample sector and Pseudo Census sector had changed the direction and/or magnitude of GVA growth of the industry in the state.

3.42 At the overall industry level, year-wise growth of GVA has remained quite fluctuating for almost all the sub-sectors with the growth pattern of the Pseudo Sector units being most erratic.

Coke, petroleum and nuclear fuel (23)

3.43 This industry has the third highest share in GVA with an average share of 10.5% during the period 2000-01 to 2010-11. During this period, the percentage share of this industry gradually increased from 4.9% in 2000-01 to 13.1% in 2005-06 and then declined to 10.6% in 2010-11. Growth of GVA (559%), Total output (467%), Fixed capital (236%) were highest among the major industries in India and growth in Total Emolument

(91%) and in Employment (68%) were close to the corresponding all India figures.

3.44 It is seen from the Table 22 that year-wise GVA growth was quite high till 2007-08 and then it registered a negative growth in 2009-10. Year-wise growth of Total Output always remained positive during the period. Employment growth increased steadily till 2005-06 and then oscillated between 21.04% in 2006-07 and -6.74% 2010-11. Fixed capital showed very high growth in 2001-02 and in 2009-10 and remained in under 15% in all other years.

3.45 For this industry, Maharashtra and Gujarat are the two major states with an average GVA share of 43% and 31% respectively during the period 2000-01 to 2010-11 of the shares of GVA in India. It is seen from the Table 23 that difference in share of GVA between these two states was less than 5 percentage points for the years 2001-02 to 2005-06 and 2010-11. However, for the same industry, share of Fixed capital has been widely different for these two states of Gujarat (47% share) and Maharashtra (10% share).

3.46 In both the states, share of GVA of Pseudo census units were negligible while on an average only 1.9% and 1.6% contribution came from Sample sector in Gujarat and Maharashtra respectively. As a whole, at all India level, an average 95.6% share came from True census units while Pseudo census units accounted for only 1% and remaining 3.4% came from Sample sector units.

3.47 It may be observed from the Table 24 that in most cases direction and magnitude of growth of Census and True census units resembled the overall growth of the industry at state or all India level, as the case may be. However, in 2001-02, high growth rate in Gujarat (318.51%) has probably affected the overall industry growth.

3.48 Although the year-wise growth of GVA for Pseudo census units has been most erratic, there have been wide fluctuations in the growth registered by the Census, True Census and Sample units also, albeit in lesser degree.

Food products (15)

3.49 This industry has the fourth highest share in GVA with an average share of 8.4% during the period 2000-01 to 2010-11. During this period,

percentage GVA share of this industry has fluctuated from 7.1% to 10.7%. Growth of GVA (125%), Total output (158%), Fixed capital (131%), Total Emolument (49%) and Employment (23%) were much lower than the corresponding all India level growth rates.

3.50 It is seen from the Table 25 that year-wise GVA growth rates showed fair amount of divergence during the period of study, having registered relatively higher growth rates in the years 2005-06, 2006-07 and 2010-11. However, from 2004-05, all the selected characteristics exhibited positive growth except for GVA in 2007-08.

3.51 Maharashtra, Uttar Pradesh and Andhra Pradesh had higher share of GVA for this industry at all India level with an average GVA share of 17%, 12% and 10% respectively in India. Food and food products industry was present in all the states and in 13 states, it had more than 1% share of total GVA of the country. Percentage share of Uttar Pradesh and Andhra Pradesh were more or less same over the years, but, in Maharashtra, share of GVA declined during the period.

3.52 In all three states, contribution of Pseudo census units share of GVA was quite small with an average share of only 1.78%, 1.24% and 1.26% in Maharashtra, Uttar Pradesh and Andhra Pradesh respectively. But share of Sample sector in Maharashtra, Uttar Pradesh and Andhra Pradesh were on an average 27%, 24% and 50% respectively. As a whole, in India, average 63.5% share came from True census units while Pseudo census units contribute 4.25% and remaining 32.25% came from Sample sector units.

3.53 Unlike in other industries discussed above, for this industry, in the GVA growth at the state-level and all India level a confounded effect of all the subsectors is noticed. Census and True Census units have not been the only driver of the GVA growth for this industry, owing to a sizable chunk of sample sector units.

3.54 Year-wise growths of GVA for all the sectors were fairly erratic and widely varying during the period. As expected, Pseudo census units were shown more erratic growth than Sample sector units, mainly due to their overall contribution in the industry and both had quite impact on the state or industry growth.

4. Conclusion

4.1 Results presented in the previous section reveals that growth rates observed for Pseudo census units were mostly erratic showing a very high degree of fluctuation in year-on-year growth rates with growth figures varying widely both in magnitude and direction and showed different directions than True census and Sample sector units, even in major states and industries. In terms of fluctuation and variability, the growth rate of Sample sector has also been very significant, next only to the Pseudo census units. This is probably because of the fact that as per average worker size, with an average of 33 Employees and 25 Workers over the period, The Pseudo sector units are similar to Sample sector (on an average 32 Employees and 24 Worker) units. As the number of Pseudo census units is much less in comparison to the total number of Sample Sector units selected for survey, fluctuation in this sub-sector is generally much higher than that observed in the Sample sector units. In comparison to these categories of units, True Census units showed much more consistent growth rates, especially at the overall state or industry level. With some exceptions, in most of the cases, these True census units have remained the main driver of GVA growth at the industry or state level. It is the True census units that determined the direction and magnitude of the growth because of their high percentage of GVA share in any industry and/or state. However, as is evident from the results in the preceding section, there has been considerable fluctuation in the growth rate of these units also.

4.2 As per the new sampling design adopted from 2012-13, apart from the units traditionally defined as census units (like all the units belonging to the six less industrially developed states/ UT's, Joint Return units and units with 100 or more employees), all the units belonging to the strata (District \times 4-digit of NIC-08) having less than or equal to 4 units are also to be considered as Census Sector units. This major deviation in stratum formation (State \times NIC 4 digit to District \times NIC 4digit) is expected to give rise to a much higher number of Pseudo census units. A study on ASI frame of 2010-11 revealed that as per this stratification criterion, 6,363 strata would have to be completely enumerated with 22,416 units and would be a part of the Pseudo census units. The behavior of these units and their impact in both central and state data may be studied in greater detail as a significant increase in number of Pseudo Census units may bring more

instability in the estimates. Over the period under study, average number of employees per unit declined from 430.85 in 2000-01 to 416.21 in 2010-11 for True census units. But in over all Census sector, both employee/unit and workers/unit figures showed an increase of more or less 30 persons/unit over the period. However, both ratios remained more or less same in Sample sector. Also, as the new sampling design is aimed at generating District level estimates from ASI data, suitable methodology should be devised to apportion the contribution of the Joint Return units across the districts as the definition of Joint Return units has not been changed.

Table 1: Number of Units surveyed under defined categories for ASI 2000-2001 to ASI 2010-2011

Categories	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
In ASI Year	43,320	44,611	44,595	59,656	52,961	60,980	70,725	60,856	58,391	61,114	61,573
Census Sector	18,034	18,184	14,808	14,823	21,097	25,808	31,080	35,536	24,275	23,813	25,613
Other Census	6,617	6,930	2,787	2,579	6,482	10,747	15,471	19,300	7,368	6,786	7,179
Other JR	1,002	1,006	1,217	1,132	1,648	1,553	1,525	1,330	1,290	1,271	1,339
JR 100	2,618	2,830	3,214	3,285	4,179	4,300	4,546	4,870	4,991	4,922	5,271
Census 100	7,797	7,418	7,590	7,827	8,788	9,208	9,538	10,036	10,626	10,834	11,824
Sample Sector	25,286	26,427	29,787	44,833	31,864	35,172	39,645	25,320	34,116	37,301	35,960
Complete * Enumeration	3,019	2,077	5,537	9,684							
Other Units	22,267	24,350	24,250	35,149	31,864	35,172	39,645	25,320	34,116	37,301	35,960
Other Census & Complete Enumeration	9,636	9,007	8,324	12,263	6,482	10,747	15,471	19,300	7,368	6,786	7,179

* Complete Enumeration is clubbed with Other Census and considered as Census Sector in rest of the paper for comparability.

Table 2: Percentage contribution of Gross Value Added (GVA) for the redefined categories for ASI 2000-2001 to ASI 2010-2011.

Categories	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
In ASI Year	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Census Sector	75.03	74.29	76.49	80.47	78.30	79.00	77.21	78.87	74.50	73.01	75.33
Other Census	2.59	3.31	3.51	5.72	1.44	2.11	2.20	2.80	1.90	1.33	1.37
Other JR	0.25	0.19	0.24	0.21	0.25	0.58	0.26	0.17	0.13	0.23	0.27
JR 100	14.69	15.59	16.11	14.56	17.34	16.27	15.61	17.28	15.76	13.71	13.52
Census 100	57.49	55.20	56.63	59.98	59.28	60.04	59.15	58.61	56.71	57.74	60.18
Sample Sector	24.97	25.72	23.51	19.53	21.70	21.00	22.79	21.13	25.50	26.99	24.67
Pseudo Census	2.84	3.50	3.75	5.93	1.69	2.69	2.46	2.97	2.03	1.56	1.63
True Census	72.18	70.78	72.74	74.54	76.62	76.31	74.76	75.90	72.47	71.44	73.69

Table 3: Overall growth of estimated major characteristics by defined categories of ASI 2010-11 over ASI 2000-01 at constant prices.

Categories	No. of Units	No. of Employees	Total Emoluments	Fixed Capital	Total Output	GVA
All India	61.24	58.93	92.86	147.49	230.49	203.07
Census Sector	35.23	53.56	79.05	144.59	236.45	204.30
Pseudo Census	-3.68	-27.41	19.37	102.22	47.87	74.15
True Census	64.18	58.60	81.14	146.50	246.82	209.43
Sample Sector	65.42	66.86	132.50	159.27	218.17	199.38

Table 4: Year wise growth rate of selected characteristics for Uttarakhand.

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-6.18	2.44	-5.04	10.75	19.68	27.78	28.17	29.38	22.92	4.56
No. of Employees	-5.22	1.48	0.18	24.54	37.35	33.71	36.32	77.28	3.95	20.71
Total Emoluments	-21.38	-0.31	0.26	10.22	16.29	35.60	28.60	199.10	-42.36	18.76
Fixed Capital	0.94	1.74	1.62	22.47	40.97	114.48	29.97	57.52	42.23	4.91
Total Output	4.83	12.78	13.65	30.78	51.01	31.31	45.99	136.21	-6.42	26.22
GVA	-9.73	49.12	5.35	20.03	68.07	36.91	59.05	207.57	-35.66	39.82

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 5: Year wise % share of GVA for major industries in Uttarakhand

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
food products and beverages	17.06	16.24	12.85	12.62	10.26	7.98	5.12	8.61	3.93	7.49	20.31
chemicals and chemical products	7.03	8.27	8.88	11.77	13.54	24.80	36.19	23.12	15.84	21.41	16.29
machinery and equipment n.e.c.	0.67	0.63	0.80	1.85	36.31	21.74	16.29	14.47	38.45	12.01	10.04
All other industries	75.23	74.87	77.47	73.75	39.89	45.49	42.40	53.80	41.78	59.10	53.36

Table 6: Year wise growth rate of GVA for major industries by defined categories in Uttarakhand.

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Food & Food Products (15)										
Industry total	-14.10	18.05	3.46	-2.45	30.67	-12.09	167.53	40.35	22.53	279.33
Census Sector	3.26	13.46	3.08	-14.26	62.14	-17.20	213.21	16.76	29.99	292.07
Pseudo Census	-53.32	822.46	-60.13	-61.11	86.97	-12.15	-5.95	-47.38	-19.01	5,680.71
True Census	12.11	-39.25	65.62	-3.10	59.78	-17.77	239.38	18.89	30.71	243.16
Sample Sector	-54.94	42.91	5.04	47.10	-46.35	25.72	-55.04	840.80	-8.89	202.76
Chemicals & Chemical Products (24)										
Industry total	6.13	60.12	39.76	38.07	207.78	99.79	1.59	110.71	-13.02	6.38
Census Sector	-10.00	111.31	39.42	16.49	203.05	46.04	44.08	67.29	-29.54	53.51
Pseudo Census	1,216.0	577.81	-70.90	153.00	-11.21	315.36	8.47	535.09	-98.15	383.40
True Census	-14.52	84.82	62.37	11.40	221.22	39.72	46.56	43.16	-13.84	51.90
Sample Sector	117.46	-86.18	54.05	891.45	229.77	329.30	-60.13	338.60	20.06	-49.00
Machinery and equipment n.e.c.(29)										
Industry total	-15.61	89.79	144.03	2256.30	0.62	2.60	41.29	717.37	-79.91	16.95
Census Sector	-15.61	89.79	144.03	2254.79	0.64	1.64	40.70	-5.50	61.12	21.28

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Table 6: Year wise growth rate of GVA for major industries by defined categories in Uttarakhand.

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Pseudo Census	-61.64	317.54	91.51	24.92	53.78	9.05	-7.96	-46.81	-2.48	160.95
True Census		-100.00		10385.8	-1.67	1.14	44.27	-3.57	62.76	19.12
Sample Sector					-30.23	2193.33	101.16	52126.1	-98.06	-29.29
All other Industries										
Industry total	-10.16	54.30	0.29	-35.08	91.64	27.62	101.83	138.86	-9.00	26.23
Census Sector	-7.57	54.85	2.24	-44.88	81.05	36.83	70.88	32.19	70.45	33.98
Pseudo Census	55.07	-4.55	68.66	-46.57	111.56	106.43	89.20	-44.81	-	-
True Census	-10.20	59.16	-0.64	-44.76	78.88	30.97	68.44	43.69	110.40	1379.85
Sample Sector	-49.76	39.11	-60.24	750.53	146.66	-7.54	276.50	412.02	-61.53	3.55
State GVA	-9.73	49.12	5.35	20.03	68.07	36.91	59.05	207.57	-35.66	39.82
Census Sector	-6.35	52.70	6.92	9.80	61.82	25.53	65.01	32.37	35.19	57.85
Pseudo Census	10.88	149.63	-12.27	-28.70	71.53	83.61	52.57	35.14	-97.12	4269.03
True Census	-7.40	45.60	9.33	13.68	61.20	21.63	66.28	32.11	47.80	50.03
Sample Sector	-38.20	3.41	-24.20	291.78	114.62	100.80	38.14	942.24	-73.40	-8.99

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 7: Year wise growth rate of selected characteristics for Jharkhand.

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-4.67	-0.91	2.12	11.06	-1.06	0.50	1.06	14.30	10.08	23.23
No. of Employees	-9.84	0.06	-7.65	5.54	-2.77	-1.03	4.02	7.18	-13.55	32.98
Total Emoluments	-6.41	5.60	7.90	-21.30	9.56	-1.70	28.12	-0.25	-20.33	24.13
Fixed Capital	-3.11	-3.43	-1.63	-7.53	12.02	4.16	3.23	27.35	7.94	74.37
Total Output	-4.01	28.04	6.28	27.16	8.16	6.46	22.97	-7.73	11.11	36.99
GVA	-10.97	72.39	10.48	78.72	-23.65	-16.29	72.22	-30.70	2.54	23.69

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 8: Year wise % share of GVA for major industries in Jharkhand.

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Basic metals	82.97	64.69	76.37	72.62	68.22	75.35	67.08	79.77	72.22	50.48	70.73
Motor vehicles, trailers etc.	2.83	11.01	5.62	11.36	18.05	5.31	10.37	5.35	3.29	11.20	6.31
All other industries	14.20	24.30	18.01	16.02	13.73	19.35	22.55	14.88	24.49	38.32	22.96

Table 9: Year wise growth rate of GVA for major industries by defined categories in Jharkhand

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Basic metals(27)										
Industry total	-30.59	103.51	5.07	67.89	-15.67	-25.48	104.80	-37.26	-28.33	73.30
Census Sector	-28.73	100.72	5.54	68.77	-16.75	-24.85	103.33	-38.70	-28.51	55.01
Pseudo Census	58.14	-96.37	3,472.00	-72.82	-54.58	861.68	1,483.97	-99.01	3,164.06	-102.76
True Census	-29.11	102.62	4.95	69.60	-16.71	-25.31	94.22	-35.46	-31.15	61.18
Sample Sector	-89.15	680.11	-20.47	5.75	105.36	-54.03	215.43	32.49	-24.14	457.48
Motor vehicles, trailers etc. (34)										
Industry total	246.67	-11.98	123.18	184.05	-77.54	63.58	-11.14	-57.44	249.35	-30.35
Census Sector	241.39	15.64	129.35	200.28	-80.94	88.33	-8.75	-63.26	261.39	-30.69
Pseudo Census	7.79	-17.3	20	-68.39	-16.36	287.68	202.62	-51.2	-90.13	4306.41
True Census	253.43	16.15	130.58	201.84	-80.98	87.79	-9.92	-63.48	270.12	-33.56
Sample Sector	258.82	-72.64	65.96	-24.2	95.03	-59.33	-66.12	302.65	181.3	-27.85
All other Industries										
Industry total	52.36	27.79	-1.75	53.15	7.6	-2.41	13.63	14.06	60.42	-25.87
Census Sector	75.94	13.02	9.69	32.45	24.06	-6.31	3	-21.67	83.02	-39.32
Pseudo Census	-9.92	101.88	20.01	-79.28	81.59	-29.66	26.93	-65.86	1396.87	-82.6
True Census	122.08	-6.36	4.84	92.55	20.73	-4.27	1.47	-18.13	39.17	-23.79
Sample Sector	-41.22	203.16	-52.36	264.18	-53.44	36.04	86	148.66	33.6	-4.01
State GVA	-10.97	72.39	10.48	78.72	-23.65	-16.29	72.22	-30.70	2.54	23.69
Census Sector	-10.38	73.06	12.82	77.61	-23.98	-16.23	71.1	-37.96	-1.61	17.32
Pseudo Census	-4.17	73.27	29.35	-78.68	67.06	-3.99	410.78	-92.25	1397.15	-83.59
True Census	-10.69	73.05	11.94	87.18	-24.61	-16.41	65.07	-34.97	-10.77	28.40
Sample Sector	-19.8	61.09	-31.6	111.51	-15.41	-17.72	97.61	112.36	26.43	52.25

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 10: Year wise growth rate of selected characteristics for Gujarat

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-0.99	-5.52	-2.92	6.32	3.32	1.94	5.44	-1.62	4.80	36.63
No. of Employees	-5.21	0.60	1.71	10.87	9.76	10.86	6.26	7.66	2.99	11.74
Total Emoluments	-1.97	2.49	5.95	11.67	8.34	13.86	12.23	8.23	6.39	13.09
Fixed Capital	16.85	-7.54	-0.74	-5.69	32.51	4.48	5.07	10.61	33.01	7.25
Total Output	13.22	20.65	7.39	18.35	15.31	14.50	14.82	6.77	23.74	18.76
GVA	5.03	23.36	12.22	13.74	26.22	-0.62	18.51	-6.38	41.67	-4.22

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 11: Year wise % share of GVA for major industries in Gujarat form ASI 2000-01 to ASI 2010-11

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Coke, petroleum and nuclear fuel	4.02	16.00	24.37	24.96	26.66	32.19	25.93	24.73	25.32	22.76	29.46
Chemicals and chemical products	51.45	41.88	37.10	39.16	34.07	31.80	30.82	28.53	28.62	27.21	26.78
Textiles	10.74	9.46	7.21	6.81	6.25	6.46	6.02	6.11	5.51	4.91	6.06
All other industries	33.79	32.66	31.32	29.07	33.03	29.55	37.23	40.63	40.55	45.11	37.70

Table 12: Year wise growth rate of GVA for major industries by defined categories in Gujarat.

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Coke, petroleum and nuclear fuel(23)										
Industry total	318.51	87.92	14.90	21.50	52.40	-19.93	12.99	-4.12	27.35	23.97
Census Sector	296.99	98.06	15.38	15.43	60.33	-20.39	11.93	-3.12	25.92	23.03
Pseudo Census	-102.09	10150.0	121.57	-100.00		143.50	-233.98	-204.1	-97.05	-5920.0
True Census	293.29	97.56	15.11	16.00	60.29	-20.44	12.12	-3.31	26.05	23.17
Sample Sector	4606.51	-82.45	-76.02	5554.98	-95.37	280.03	157.25	-63.15	248.64	76.90
Chemicals and chemical products (24)										
Industry total	-14.52	9.28	18.47	-1.05	17.81	-3.68	9.69	-6.08	34.70	-5.74
Census Sector	-11.36	17.42	16.32	2.65	18.24	-5.28	9.15	-6.56	25.31	1.13
Pseudo Census	137.92	79.29	-26.29	-38.98	-28.25	183.23	-9.32	-84.32	-4.53	372.99
True Census	-11.70	17.05	16.72	2.89	18.40	-5.68	9.26	-6.14	25.33	0.88
Sample Sector	-25.18	-23.32	31.64	-21.05	14.79	7.94	13.16	-3.13	90.32	-32.55
Textiles(17)										
Industry total	-7.49	-5.95	6.06	4.24	30.56	-7.41	20.41	-15.70	26.45	18.19
Census Sector	-2.51	25.75	9.52	0.56	11.16	3.04	14.66	-5.31	27.60	12.09
Pseudo Census	-74.26	-39.90	264.31	-46.59	75.11	16.42	-26.97	-40.27	38.99	19.77
True Census	0.90	26.55	8.05	1.48	10.51	2.82	15.43	-4.90	27.52	12.03
Sample Sector	-13.12	-46.14	-4.17	16.66	87.12	-25.50	34.19	-36.96	22.89	37.68
All other Industries										
Industry total	1.52	18.27	4.16	29.22	12.95	25.21	29.35	-6.58	57.61	-19.96
Census Sector	-13.28	29.04	9.00	32.84	9.19	36.18	31.79	-16.31	59.11	-14.20
Pseudo Census	-22.04	140.23	34.12	-77.98	111.69	99.55	18.33	-72.25	122.40	-57.11
True Census	-13.04	26.35	7.85	39.17	8.26	35.06	32.14	-15.00	58.62	-13.74
Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Sample Sector	36.75	2.02	-5.10	21.29	21.98	1.62	22.33	23.63	54.45	-32.43
State GVA	5.03	23.36	12.22	13.74	26.22	-0.62	18.51	-6.38	41.67	-4.22
Census Sector	5.54	37.68	13.76	13.59	28.12	-0.72	17.70	-9.08	37.04	1.87
Pseudo Census	-17.89	117.94	29.95	-72.60	69.26	99.35	4.62	-68.77	84.28	-42.50
True Census	5.84	36.88	13.51	15.17	27.94	-1.30	17.85	-8.46	36.87	2.08
Sample Sector	3.64	-16.46	5.16	14.47	16.90	-0.03	22.86	7.43	61.78	-26.58

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 13: Year wise growth rate of selected characteristics for Odisha

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	2.64	-1.76	-0.06	4.23	6.46	2.36	-4.41	5.93	6.32	23.59
No. of Employees	-10.11	2.19	5.75	16.61	-0.82	12.45	13.74	15.31	6.72	24.32
Total Emoluments	-2.50	-0.87	7.94	7.44	6.61	13.76	37.51	20.14	-13.35	32.71
Fixed Capital	-0.57	-11.99	44.69	-7.54	42.12	18.84	39.50	17.65	61.72	24.38
Total Output	-0.44	7.85	17.80	18.49	17.27	23.95	25.06	36.41	-7.62	32.75
GVA	-10.97	19.67	21.97	57.45	2.28	30.70	38.37	16.58	-8.52	13.02

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 14: Year wise percentage share of GVA for major industries in Odisha

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Basic metals	65.69	56.45	69.72	74.74	84.43	80.60	86.15	78.93	74.91	61.39	73.12
Other non-metallic mineral products	8.60	6.08	6.73	5.69	4.56	5.89	5.37	5.39	8.69	22.06	5.65
All other industries	25.71	37.46	23.55	19.57	11.01	13.51	8.48	15.68	16.40	16.54	21.23

Table 15: Year wise growth rate of GVA for major industries by defined categories in Odisha

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Basic metals(27)										
Industry total	-23.49	47.8	30.75	77.86	-2.36	39.7	26.77	10.63	-25.02	34.6
Census Sector	-25.35	50.74	28.1	82.01	-3.3	40.61	10.63	23.74	-25.8	33.85
Pseudo Census	211.49	-209.98	-391.12	-89.63	2989.5	-53.29	311.5	-120.31	-208.94	-39.95
True Census	-25.53	51.55	27.15	82.89	-4.18	41.5	9.7	25.42	-26.15	34.06
Sample Sector	138.12	-31.78	189.72	-31.91	64.21	1.56	959.06	-68.48	-6.47	48.6
Other non-metallic mineral products(26)										
Industry total	-36.99	32.37	3.08	26.13	32.16	19.21	38.77	88.12	132.23	-71.04
Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Census Sector	-42.3	35.03	8.19	24.07	26.37	22.97	35.61	0.56	372.03	-74.35
Pseudo Census	26.71	-8.06	63.87	-87.4	79.65	183.82	-57.13	-74.47	110.42	128.71
True Census	-44.31	37.88	5.74	31.68	26.03	21.47	37.63	1.07	372.47	-74.51
Sample Sector	82.18	13.53	-40.21	57.71	101.95	-9.12	70.9	797.04	-85.42	26.24
All other Industries										
Industry total	29.72	-24.79	1.37	-11.42	25.52	-17.98	155.89	21.94	-7.73	45.03
Census Sector	45.76	-29.59	6.78	-23.95	19.92	-9.01	159.42	18.62	2.26	34.68
Pseudo Census	31.81	18.78	34.04	-64.53	13.92	61.62	6.2	-51.82	158.32	-49.3
True Census	47.26	-34.28	2	-14.62	20.49	-15.38	185.83	23.14	-1.66	40.22
Sample Sector	-19.67	2.1	-19.48	52.66	39.78	-37.58	144.64	33.15	-37.78	96.22
State GVA	-10.97	19.67	21.97	57.45	2.28	30.7	38.37	16.58	-8.52	13.02
Census Sector	-11.95	21.94	22.54	60.2	-0.07	34.69	21.9	21.7	-3.26	9.25
Pseudo Census	35.26	4.44	59.48	-69.06	113.92	10.97	62.04	-86.96	445.94	-45
True Census	-13.09	22.6	21.36	65.62	-0.96	35.09	21.35	23.71	-4.14	9.86
Sample Sector	1.34	-4.95	14.02	16.28	50.67	-23.88	436.41	-11.54	-48.23	66.19

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 16: Year wise growth rate of selected characteristics for Chemicals and chemical products

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-0.86	-1.72	-1.63	5.09	2.31	0.64	1.01	7.67	0.03	33.56
No. of Employees	-4.77	-0.81	-1.94	6.01	5.16	6.26	1.81	9.10	4.45	9.80
Total Emoluments	-1.73	1.75	2.51	6.89	7.65	8.71	4.16	20.17	-3.10	12.43
Fixed Capital	-0.14	-10.65	-0.59	-8.24	26.09	4.34	-0.47	19.97	-0.18	2.76
Total Output	-5.01	4.02	4.15	10.25	11.82	7.89	4.40	22.78	-2.16	17.97
GVA	-4.53	7.97	2.00	8.48	12.14	6.65	6.93	17.85	11.02	6.00

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

**Table 17: Year wise percentage share of GVA
for major states in Chemicals and chemical products**

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Gujarat	31.49	28.20	28.54	33.14	30.23	31.76	28.69	29.43	23.45	28.45	25.30
Maharashtra	23.69	22.19	20.45	21.49	19.98	21.41	17.52	18.65	18.91	18.67	19.03
All other states	44.82	49.61	51.01	45.36	49.79	46.83	53.79	51.92	57.64	52.87	55.66

**Table 18: Year wise growth rate of GVA for major states by defined categories in
Chemicals and chemical products**

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Gujarat										
Industry total	-14.52	9.28	18.47	-1.05	17.81	-3.68	9.69	-6.08	34.70	-5.74
Census Sector	-11.36	17.42	16.32	2.65	18.24	-5.28	9.15	-6.56	25.31	1.13
Pseudo Census	137.92	79.29	-26.29	-38.98	-28.25	183.23	-9.32	-84.32	-4.53	372.99
True Census	-11.70	17.05	16.72	2.89	18.40	-5.68	9.26	-6.14	25.33	0.88
Sample Sector	-25.18	-23.32	31.64	-21.05	14.79	7.94	13.16	-3.13	90.32	-32.55
Maharashtra										
Industry total	-10.55	-0.51	7.21	0.83	20.15	-12.71	13.85	19.46	9.64	8.05
Census Sector	-20.72	-3.89	10.43	1.03	19.12	-16.85	22.68	-3.53	14.39	29.73
Pseudo Census	-26.49	14.72	238.43	-45.59	-10.82	-16.78	65.27	-51.38	8.89	147.04
True Census	-20.66	-4.08	7.58	2.86	19.74	-16.85	22.02	-2.52	14.45	28.56
Sample Sector	43.98	9.44	-1.16	0.27	23.18	-1.03	-7.09	91.39	2.16	-30.23
All other States										
Industry total	5.67	11.03	-9.31	19.06	5.48	22.51	3.21	30.84	1.83	11.60
Census Sector	10.46	13.12	0.18	6.31	5.17	19.57	14.39	25.58	-2.84	11.80
Pseudo Census	11.44	46.50	79.69	-77.25	158.31	-14.00	41.25	-22.49	-15.54	-1.93
True Census	10.39	10.86	-6.93	20.73	0.19	22.39	12.81	29.13	-2.28	12.33
Sample Sector	-4.27	6.03	-33.56	68.21	6.24	29.59	-21.67	47.92	14.74	11.11
Industry GVA	-4.53	7.97	2.00	8.48	12.14	6.65	6.93	17.85	11.02	6.00
Census Sector	-5.01	10.63	7.38	3.97	12.39	3.05	14.02	10.11	7.49	11.41
Pseudo Census	10.76	46.12	81.09	-73.05	112.78	-10.15	39.82	-27.78	-13.92	13.61
True Census	-5.48	9.37	3.91	10.30	10.38	3.56	13.15	11.68	8.07	11.37
Sample Sector	-3.12	0.38	-15.03	26.47	11.32	18.59	-13.47	47.24	21.02	-7.64

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 19: Year wise growth rate of selected characteristics for Basic metals

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-4.38	-2.06	-1.27	3.27	7.30	7.84	-0.17	11.23	3.06	26.10
No. of Employees	-3.78	-1.41	0.87	7.02	11.48	19.45	5.32	10.97	-0.45	13.11
Total Emoluments	-4.75	6.38	8.55	-3.62	9.50	16.24	23.53	9.38	-16.54	24.93
Fixed Capital	-3.34	6.87	10.83	0.48	19.97	10.18	13.79	17.34	28.62	17.11
Total Output	0.54	24.89	22.78	44.86	1.83	30.03	13.53	9.61	2.36	20.65
GVA	-7.17	41.46	30.11	56.56	-13.05	35.34	30.28	-19.78	4.20	6.37

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 20: Year wise percentage share of GVA for major states in Basic metals

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Jharkhand	22.94	17.15	24.67	19.92	21.37	20.72	11.41	17.94	14.03	9.65	15.72
Chattisgarh	12.14	14.45	14.09	15.36	14.87	13.78	16.01	13.78	17.32	13.51	12.41
Odisha	11.07	9.13	9.54	9.59	10.89	12.23	12.62	12.28	16.94	12.19	15.42
All other states	53.85	59.27	51.70	55.13	52.87	53.27	59.96	56.00	51.71	64.65	56.45

Table 21: Year wise growth rate of GVA for major states by defined categories in Basic metals

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Jharkhand										
Industry total	-30.59	103.51	5.07	67.89	-15.67	-25.48	104.80	-37.26	-28.33	73.30
Census Sector	-28.73	100.72	5.54	68.77	-16.75	-24.85	103.33	-38.70	-28.51	55.01
Pseudo Census	58.14	-96.37	3472.00	-72.82	-54.58	861.68	1483.97	-99.01	3164.06	-102.76
True Census	-29.11	102.62	4.95	69.60	-16.71	-25.31	94.22	-35.46	-31.15	61.18
Sample Sector	-89.15	680.11	-20.47	5.75	105.36	-54.03	215.43	32.49	-24.14	457.48
Odisha										
Industry total	-23.49	47.80	30.75	77.86	-2.36	39.70	26.77	10.63	-25.02	34.60
Census Sector	-25.35	50.74	28.10	82.01	-3.30	40.61	10.63	23.74	-25.80	33.85
Pseudo Census	211.49	-209.98	-391.12	-89.63	2989.5	-53.29	311.50	-120.31	-208.94	-39.95
True Census	-25.53	51.55	27.15	82.89	-4.18	41.50	9.70	25.42	-26.15	34.06
Sample Sector	138.12	-31.78	189.72	-31.91	64.21	1.56	959.06	-68.48	-6.47	48.60
Chattisgarh										
Industry total	10.49	37.88	41.87	51.62	-19.44	57.21	12.12	0.84	-18.71	-2.33
Census Sector	10.44	38.10	39.52	53.61	-19.28	53.98	13.30	1.06	-20.35	-4.70
Pseudo Census	32.07	-24.28	73.20	-2.65	217.66	33.00	18.22	-72.95	-75.06	107.26
True Census	10.36	38.39	39.43	53.79	-19.77	54.15	13.26	1.61	-20.24	-4.77
Sample Sector	14.64	19.35	273.82	-21.51	-31.13	329.58	-23.39	-9.28	62.92	55.56
All other States										
Industry total	2.18	23.40	38.73	50.14	-12.39	52.34	21.69	-25.93	30.27	-7.13
Census Sector	-2.20	24.69	43.01	45.86	-9.59	47.35	31.91	-36.54	29.75	-2.95
Pseudo Census	18.22	-24.05	79.64	35.63	31.35	115.50	17.60	-37.05	-44.77	106.67
True Census	-2.54	25.66	42.57	46.01	-10.17	45.95	32.34	-36.53	31.75	-4.19
Sample Sector	25.58	18.03	19.92	72.61	-24.82	78.88	-23.15	54.00	31.87	-19.87
Industry GVA	-7.17	41.46	30.11	56.56	-13.05	35.34	30.28	-19.78	4.20	6.37
Census Sector	-9.84	44.23	30.79	55.84	-12.11	31.32	34.77	-24.41	0.19	8.41
Pseudo Census	25.04	-38.18	125.44	13.27	51.51	97.82	89.50	-65.67	-6.55	23.36
True Census	-10.18	45.36	30.23	56.27	-12.58	30.47	33.71	-23.29	0.27	8.24
Sample Sector	18.38	21.24	24.18	63.16	-21.25	74.52	-2.60	27.17	28.40	-3.24

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 22: Year wise growth rate of selected characteristics for Coke, petroleum and nuclear fuel

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-3.49	7.12	-3.16	7.84	4.75	-6.94	9.22	-10.72	24.02	21.94
No. of Employees	1.07	1.95	5.91	7.29	7.31	5.60	21.04	3.40	8.50	-6.74
Total Emoluments	-6.31	-2.57	4.38	4.64	5.73	15.93	8.15	16.96	7.17	15.30
Fixed Capital	62.15	6.88	1.43	-6.53	13.53	-1.40	1.37	0.06	78.91	0.73
Total Output	29.93	38.24	14.52	24.63	21.69	20.55	11.07	3.72	9.77	19.17
GVA	26.53	88.84	23.64	14.10	35.05	12.59	19.35	1.21	-9.98	18.23

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 23: Year wise percentage share of GVA for major states in Coke, petroleum and nuclear fuel

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Maharashtra	52.98	36.49	35.78	36.02	33.27	43.35	53.52	48.44	53.18	44.10	40.27
Gujarat	10.56	34.93	34.76	32.31	34.40	38.82	27.61	26.14	24.76	35.03	36.73
All other states	36.46	28.58	29.46	31.67	32.32	17.82	18.87	25.42	22.06	20.87	23.00

Table 24: Year wise growth rate of GVA for major states by defined categories in Coke, petroleum and nuclear fuel

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Maharashtra										
Industry total	-12.85	85.15	24.49	5.39	75.96	39.00	8.03	11.11	-25.35	7.95
Census Sector	-8.32	83.08	27.43	2.50	79.18	39.06	7.52	12.13	-27.65	11.88
Pseudo Census	252.26	-96.03	131.49	-52.57	215.50	20.27	-12.77	-62.41	-109.35	-663.33
True Census	-9.33	85.77	27.40	2.53	79.14	39.07	7.53	12.15	-27.64	11.87
SampleSector	-85.33	292.76	-113.16	-1300.8	-48.27	30.68	80.90	-74.75	838.86	-105.68
Gujarat										
Industry total	318.51	87.92	14.90	21.50	52.40	-19.93	12.99	-4.12	27.35	23.97
Census Sector	296.99	98.06	15.38	15.43	60.33	-20.39	11.93	-3.12	25.92	23.03
Pseudo Census	-102.09	10150.0	121.57	-100.00		143.50	-233.98	-204.06	-97.05	-5920.0
True Census	293.29	97.56	15.11	16.00	60.29	-20.44	12.12	-3.31	26.05	23.17
SampleSector	4606.51	-82.45	-76.02	5554.98	-95.37	280.03	157.25	-63.15	248.64	76.90
All other States										
Industry total	-0.83	94.67	32.92	16.45	-25.54	19.21	60.77	-12.18	-14.82	30.32
Census Sector	-10.44	112.48	38.71	16.62	-35.92	26.13	70.52	-17.63	-16.41	50.02
Pseudo Census	63.39	103.02	124.69	-94.41	296.49	-19.57	129.78	-98.64	6400.00	-79.96
True Census	-13.07	113.12	33.24	28.54	-37.47	27.49	69.41	-15.58	-19.03	54.29
Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
SampleSector	143.43	-3.70	-37.68	11.87	268.02	-14.87	-10.30	63.42	-3.74	-89.21
IndustryGVA	26.53	88.84	23.64	14.10	35.05	12.59	19.35	1.21	-9.98	18.23
Census Sector	24.84	96.00	26.30	11.08	35.48	13.22	19.52	0.85	-11.81	23.12
Pseudo Census	104.92	59.07	124.57	-94.42	300.86	-14.19	98.11	-93.18	1218.42	-87.75
True Census	23.76	96.83	24.51	14.54	35.05	13.35	19.24	1.41	-12.31	23.79
SampleSector	55.90	-10.79	-57.76	289.90	23.89	-5.33	13.55	14.21	48.25	-73.73

Note: 01-02 means growth of 2001-02 over 2000-01 and so on

Table 25: Year wise growth rate of selected characteristics for Food products

Characteristics	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
No. of Units	-2.10	1.41	0.10	6.39	1.43	0.13	1.79	3.28	0.97	30.29
No. of Employees	-1.94	0.13	-0.86	3.54	3.63	6.09	1.96	3.01	2.77	3.20
Total Emoluments	-2.26	0.25	-3.59	3.38	8.74	7.54	10.03	6.13	3.06	8.49
Fixed Capital	2.87	8.49	-5.25	2.75	5.82	20.21	13.12	10.32	17.10	14.60
Total Output	0.95	14.93	-4.51	6.60	9.22	17.76	13.26	12.88	7.88	23.21
GVA	2.88	-1.06	-6.73	5.81	22.11	35.72	-2.47	9.53	7.11	18.10

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table 26: Year wise percentage share of GVA for major states in Food products

ASI Years	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Maharashtra	21.32	19.98	19.82	17.26	15.59	16.64	17.23	16.18	13.00	15.51	14.65
Uttar Pradesh	13.37	11.38	10.96	11.73	13.94	13.72	12.14	10.77	9.63	8.86	12.62
Andhra Pradesh	8.27	11.58	11.02	9.81	13.82	11.91	10.62	8.17	9.21	10.63	9.72
All other states	57.04	57.07	58.20	61.20	56.65	57.73	60.00	64.88	68.15	64.99	63.01

Table 27: Year wise growth rate of GVA for major states by defined categories in Food products

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Maharashtra										
Industry total	-3.61	-1.83	-18.77	-4.45	30.33	40.57	-8.44	-11.96	27.78	11.49
Census Sector	6.95	-14.68	-28.39	7.18	28.63	62.65	-16.07	-20.84	39.19	33.14
Pseudo Census	154.31	-64.62	238.66	-78.72	541.81	-8.29	81.05	-79.06	-86.97	1282.13
True Census	5.38	-13.41	-31.19	11.59	23.60	66.26	-18.79	-17.19	41.19	31.31
Sample Sector	-32.87	54.93	4.62	-23.80	34.31	-8.92	22.11	12.45	5.68	-43.72
Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
Uttar Pradesh										
Industry total	-12.44	-4.74	-0.16	25.71	20.21	20.10	-13.48	-2.06	-1.45	68.23
Census Sector	-21.50	3.76	3.80	27.12	24.34	-2.35	-6.08	0.40	-6.93	10.46
Pseudo Census	-71.48	190.82	103.97	-82.05	-16.48	183.44	203.61	-34.07	-53.22	64.52
True Census	-20.55	2.48	1.85	31.37	24.55	-3.01	-8.26	1.59	-5.90	9.86
Sample Sector	28.91	-28.36	-16.08	18.66	-1.80	171.73	-31.44	-10.26	18.96	236.31
Andhra Pradesh										
Industry total	44.05	-5.80	-16.99	49.11	5.21	21.07	-25.02	23.55	23.58	8.03
Census Sector	5.93	-9.10	2.37	24.11	26.85	-14.45	-5.10	47.48	17.17	-23.69
Pseudo Census	-7.42	26.24	54.72	-63.48	-7.83	149.27	14.82	-16.13	61.34	77.12
True Census	6.25	-9.82	0.86	27.97	27.29	-15.94	-5.64	49.57	16.36	-26.27
Sample Sector	110.04	-2.92	-32.80	80.24	-13.36	65.66	-37.94	-0.17	32.96	48.97
All other States										
Industry total	2.94	0.91	-1.93	-2.06	24.43	41.05	5.47	15.06	2.15	14.50
Census Sector	-1.48	2.79	-0.62	-8.40	31.17	30.75	-9.27	41.11	1.43	15.33
Pseudo Census	-8.90	32.05	19.59	-65.61	72.16	30.87	25.14	224.30	-82.06	61.66
True Census	-0.74	0.10	-3.07	0.14	29.07	30.74	-11.63	23.36	22.70	13.60
Sample Sector	14.24	-3.23	-4.99	13.47	11.12	65.10	32.70	-17.86	3.73	12.73
Industry GVA	2.88	-1.06	-6.73	5.80	22.11	35.72	-2.47	9.53	7.11	18.10
Census Sector	-2.15	-2.13	-5.53	1.56	29.14	26.09	-10.02	23.80	6.50	14.34
Pseudo Census	-5.54	24.07	30.06	-67.45	90.40	28.33	36.80	151.21	-80.20	73.92
True Census	-1.94	-3.68	-8.24	9.01	27.16	25.98	-12.32	14.03	21.15	12.69
Sample Sector	16.41	1.36	-9.36	15.45	8.05	58.72	11.86	-12.25	8.43	26.08

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

ANNEXURE-I

Table T1: Overall growth rate of estimated major characteristics of ASI 2010-11 over ASI 2000-01 for major State/U.T.s at 2000-01 constant prices.

State/U.T.s	No. of Unit	No. of Employees	Total Emoluments	Fixed Capital	Total Output	GVA
Jammu & Kashmir	123.31	138.13	155.83	528.52	828.13	905.87
Himachal Pradesh	335.90	297.27	488.03	522.34	626.11	773.67
Punjab	78.93	71.22	86.71	145.70	178.10	190.28
Uttarakhand	268.15	568.32	273.59	1,080.62	1,319.45	1,623.59
Haryana	34.15	81.55	122.37	126.77	215.65	176.02
Delhi	12.06	1.41	46.59	24.28	123.07	80.02
Rajasthan	59.86	85.98	115.63	127.38	219.30	121.22
Uttar Pradesh	42.77	49.83	91.44	32.47	195.16	171.09
Bihar	82.74	68.85	45.45	111.30	225.53	253.87
Assam	94.77	48.08	89.40	19.17	217.50	212.78
West Bengal	35.15	11.55	17.27	111.63	244.59	131.41
Jharkhand	66.93	8.42	14.23	145.74	230.32	193.17
Orissa	52.31	119.85	158.27	552.82	355.80	356.16
Chattisgarh	84.94	85.27	81.84	223.92	308.91	235.00
Madhya Pradesh	30.77	22.69	40.86	102.56	106.80	79.11
Gujarat	51.04	72.25	114.30	132.18	312.97	212.33
Daman & Diu	52.16	180.93	340.16	120.12	262.14	190.04
Dadra & Naveli	61.53	171.09	260.45	116.80	249.55	153.45
Maharashtra	50.54	44.79	76.61	111.98	178.14	192.83
Andhra Pradesh	87.37	43.42	105.60	274.12	266.86	305.03
Karnataka	52.95	64.87	126.13	154.03	304.94	213.90
Goa	11.26	70.96	168.89	37.69	163.14	148.53
Kerala	42.53	21.70	35.19	37.59	101.23	57.28
Tamil Nadu	78.87	71.03	119.20	143.28	198.70	176.19
Other States	51.04	93.34	157.29	149.06	192.53	223.26
All India	61.24	58.93	92.86	147.49	230.49	203.07
Census sector	35.23	53.56	79.05	144.59	236.45	204.30
Pseudo Census	-3.68	-27.41	19.37	102.22	47.87	74.15
True Census	64.18	58.60	81.14	146.50	246.82	209.43
Sample sector	65.42	66.86	132.50	159.27	218.17	199.38

Note: Overall growth rate means growth of 2010-11 over 2000-01.

Table T2: Overall growth rate of estimated major characteristics of ASI 2010-11 over ASI2000-01 for major Industries at NIC 2004 2-digit level at 2000-01 constant prices

NIC 2004 2-digit level		No. of Unit	No. of Employees	Total Emoluments	Fixed Capital	Total Output	GVA
14	other mining and quarrying	45.31	179.11	250.71	2348.31	794.72	774.38
15	food products and beverages	48.5	23.41	49.1	131.45	158.14	124.97
16	tobacco products	29.51	-14.65	-3.69	4.82	46.22	43.62
17	textiles	58.95	30.74	31.33	59.22	112.66	97.62
18	wearing apparel	85.92	93.26	166.82	105.03	110.34	112.7
19	tanning and dressing of leather	70.49	111.27	139.21	81.40	106.02	148.32
20	wood and wood products	10.82	5.51	-39.38	82.94	84.31	-25.36
21	paper and paper products	78.69	38.57	56.57	83.40	108.66	61.56
22	publishing, printing	46.26	49.03	81.48	168.48	123.15	157.52
23	coke, petroleum and nuclear fuel	55.18	68.03	91.03	236.18	466.64	558.99
24	chemicals and chemical products	50.7	39.78	74.84	31.15	102.51	102.31
25	rubber and plastic products	74.45	102.86	139.31	127.65	258.22	272.15
26	other non-metallic mineral products	95.94	108.45	115.1	131.99	193.18	180.74
27	basic metals	59.45	79.47	90.09	205.81	354.45	264.59
28	fabricated metal products	69.53	121.24	160.19	357.16	353.11	376.32
29	machinery and equipment n.e.c.	58.92	93.27	153.78	220.14	326.29	285.04
30	office, accounting and computing machine	-4.02	18.9	23.39	124.28	128.26	125
31	electrical machinery and apparatus n.e.c	63.08	97.7	103.12	140.78	313.28	232.85
32	radio, television etc.	40.63	42.34	94.25	36.20	152.49	153.02
33	medical, precision and optical instrument	18.4	28.19	111.71	56.99	151.65	164.74
34	motor vehicles, trailers and semi-trailers	91.47	177.43	182.54	150.46	369.23	307.64
35	other transport equip.	32.15	47.47	74	167.52	229.44	312.57
36	furniture; manufacturing n.e.c.	85.66	123.3	179.76	180.67	430.01	189.14
37	recycling	717.65	697.61	701.39	1471.67	2752	2827.29
00	other industries	70.21	87.36	265.48	1522.37	470.14	949.29
xx	all industries	61.24	58.93	92.86	147.49	230.49	203.07

Note: Overall growth rate means growth of 2010-11 over 2000-01.

Table T3: Year-wise growth of Gross Value Added for major Industries at NIC 2004 2-digit level at 2000-01 constant prices for ASI 2001-02 to ASI2010-11

NIC 2004 2-digit level		01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
14	other mining and quarrying	468.83	61.55	-0.89	48.90	103.37	-60.30	77.02	-19.09	70.87	-67.37
15	food products and beverages	2.88	-1.06	-6.73	5.81	22.11	35.72	-2.47	9.53	7.11	18.10
16	tobacco products	-5.68	19.81	-4.94	-2.14	4.17	7.78	-5.11	38.64	-21.41	17.70
17	Textiles	-14.78	8.94	0.26	4.64	18.89	19.46	-5.18	-5.24	25.66	26.52
18	wearing apparel	-11.39	16.37	-8.81	25.33	15.24	22.30	4.96	10.55	-1.35	11.88
19	tanning and dressing of leather	10.87	-7.91	4.33	-4.96	36.76	10.00	15.31	15.26	30.73	-6.15
20	wood and wood products	-3.06	10.63	13.45	-73.82	72.11	-28.50	55.79	-12.10	48.57	-6.42
21	paper and paper products	-21.29	16.10	-7.34	-2.48	18.46	5.65	19.68	6.61	-13.12	41.03
22	publishing, printing	-7.53	21.53	2.59	-6.11	43.63	3.71	18.73	-20.77	23.31	37.69
23	coke, petroleum and nuclear fuel	26.53	88.84	23.64	14.10	35.05	12.59	19.35	1.21	-9.98	18.23
24	chemicals and chemical products	-4.53	7.97	2.00	8.48	12.14	6.65	6.93	17.85	11.02	6.00
25	rubber and plastic products	16.72	3.10	2.57	5.62	-3.91	5.03	35.06	41.12	16.15	27.76
26	other non-metallic mineral products	2.20	-5.85	1.86	32.71	2.45	49.80	37.85	7.39	9.08	-12.91
27	basic metals	-7.17	41.46	30.11	56.56	-13.05	35.34	30.28	-19.78	4.20	6.37
28	fabricated metal products	-3.51	5.68	9.89	10.51	43.25	41.67	20.02	-6.17	27.44	32.08
29	machinery and equipment n.e.c.	-0.25	-8.66	11.04	28.88	25.55	18.79	21.40	37.99	5.25	12.28
30	office, accounting and computing machine	16.70	24.35	28.43	-26.89	87.97	-27.12	-6.21	-14.78	28.75	17.13
31	electrical machinery and apparatus n.e.c	7.90	2.89	-0.52	10.95	50.19	37.21	8.87	-1.71	14.86	7.23
32	radio, television etc.	0.56	23.85	-7.99	-5.19	21.36	-7.76	32.03	54.95	1.90	-0.20
33	medical, precision and optical instrument	21.90	-7.50	18.27	8.68	12.25	8.50	36.47	-15.79	14.56	13.90
34	motor vehicles, trailers and semi-trailers	6.41	17.13	38.01	29.25	28.83	-5.86	5.75	-11.74	51.54	6.89
35	other transport equip.	35.73	12.47	10.89	15.61	16.97	25.82	-21.42	24.50	23.12	18.93
36	furniture; manufacturing n.e.c.	37.20	-18.83	13.70	29.33	6.78	26.26	9.36	-23.39	46.79	6.50
37	Recycling	59.86	22.96	176.78	47.85	-43.74	78.92	105.07	134.84	-76.33	217.17
00	other industries	44.38	3.06	29.48	13.55	13.40	41.51	31.18	22.18	61.61	15.39
XX	all industries	0.88	14.00	9.37	17.61	15.01	19.42	14.64	4.17	11.57	11.96

Note: Overall growth rate means growth of 2010-11 over 2000-01.

Table T5: Year-wise growth of estimated Fixed Capital for major Industries at NIC 2004 2-digit level at 2000-01 constant prices for ASI 2001-02 to ASI2010-11

NIC 2004 2-digit level	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
14 other mining and quarrying	832.77	67.50	65.34	-15.08	183.72	-67.85	29.06	11.02	314.48	-79.40
15 food products and beverages	2.87	8.49	-5.25	2.75	5.82	20.21	13.12	10.32	17.10	14.60
16 tobacco products	-7.13	12.73	1.43	-13.05	1.64	17.63	0.01	1.12	21.32	-22.60
17 textiles	-13.79	-0.26	-0.84	3.02	16.42	39.04	-7.15	4.27	9.63	5.50
18 wearing apparel	-14.09	9.00	2.81	16.80	27.17	15.20	1.13	17.15	-5.89	11.62
19 tanning and dressing of leather	-7.68	-3.18	-3.24	-0.04	20.88	9.12	20.86	23.48	15.37	-7.62
20 wood and wood products	-2.87	15.15	6.74	-54.35	11.89	41.01	0.07	30.84	12.20	44.83
21 paper and paper products	-5.16	23.31	-18.07	-4.30	10.82	11.15	19.19	12.98	17.81	2.35
22 publishing, printing	-9.42	10.05	0.05	0.64	48.67	15.81	10.83	24.86	-6.16	19.64
23 coke, petroleum and nuclear fuel	62.15	6.88	1.43	-6.53	13.53	-1.40	1.37	0.06	78.91	0.73
24 chemicals and chemical products	-0.14	-10.65	-0.59	-8.24	26.09	4.34	-0.47	19.97	-0.18	2.76
25 rubber and plastic products	13.05	-0.21	-0.96	18.68	-19.41	14.47	9.92	25.95	22.68	9.58
26 other non-metallic mineral products	16.71	-13.35	1.79	4.60	2.89	3.81	29.62	18.08	8.01	22.02
27 basic metals	-3.34	6.87	10.83	0.48	19.97	10.18	13.79	17.34	28.62	17.11
28 fabricated metal products	4.24	6.32	-4.30	-1.47	32.76	41.94	38.82	3.29	8.63	49.04
29 machinery and equipment n.e.c.	3.01	8.46	-7.62	10.48	22.04	3.32	22.96	28.91	9.43	28.35
30 office, accounting and computing machine	13.19	64.81	25.50	-4.13	-5.10	-1.36	-6.19	-8.23	-10.54	38.62
31 electrical machinery and apparatus n.e.c	5.65	8.58	-20.56	-11.46	24.98	9.80	24.33	21.06	27.12	13.66
32 radio, television etc.	-14.73	21.75	27.72	-18.39	19.71	-12.36	11.40	3.86	31.17	-20.95
33 medical, precision and optical instrument	8.16	-1.76	6.30	6.18	-13.50	4.63	34.79	-10.90	-5.34	27.22
34 motor vehicles, trailers and semi-trailers	-11.54	-14.13	-1.28	13.72	3.80	10.07	42.52	38.64	13.31	14.81
35 other transport equip.	2.13	3.82	1.50	9.92	11.62	19.59	-0.56	23.57	24.35	10.86
36 furniture; manufacturing n.e.c.	111.06	-35.20	3.75	2.30	24.63	2.06	0.72	38.46	-6.74	16.87
37 recycling	206.11	102.27	8.08	1.16	68.69	122.26	141.88	-71.24	22.45	-27.30
OO other industries	62.38	20.87	20.84	37.12	-0.68	28.74	55.85	30.72	57.75	21.40
XX all industries	4.57	0.66	1.41	0.68	14.23	11.80	12.41	16.59	22.13	12.66

Note: Overall growth rate means growth of 2010-11 over 2000-01.

Table T7: Year-wise growth of estimated Total Output for major Industries at NIC 2004 2-digit level at 2000-01 constant prices for ASI 2001-02 to ASI2010-11

NIC 2004 2-digit level		01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
14	other mining and quarrying	555.17	73.13	-1.14	101.10	74.12	-52.20	112.45	-61.05	221.06	-82.06
15	food products and beverages	0.95	14.93	-4.51	6.60	9.22	17.76	13.26	12.88	7.88	23.21
16	tobacco products	-18.80	20.95	-6.55	-3.86	6.02	5.47	-7.74	31.80	7.39	13.49
17	textiles	-11.42	4.20	4.76	7.66	13.03	23.65	-5.58	4.96	14.08	29.29
18	wearing apparel	-13.95	26.09	-13.62	29.88	14.28	6.27	4.20	11.27	10.68	10.88
19	tanning and dressing of leather	3.50	-3.67	4.50	1.46	21.40	6.26	32.03	-2.80	21.27	-2.94
20	wood and wood products	21.12	-7.30	17.50	-52.22	14.70	10.27	19.77	11.26	22.20	41.98
21	paper and paper products	-9.98	14.61	-3.70	4.02	7.06	5.20	23.73	7.89	5.51	27.27
22	publishing, printing	-2.92	6.12	-1.90	10.28	27.45	9.78	11.57	0.16	2.29	25.19
23	coke, petroleum and nuclear fuel	29.93	38.24	14.52	24.63	21.69	20.55	11.07	3.72	9.77	19.17
24	chemicals and chemical products	-5.01	4.02	4.15	10.25	11.82	7.89	4.40	22.78	-2.16	17.97
25	rubber and plastic products	13.22	7.72	8.36	18.94	-1.42	18.98	13.31	18.98	23.98	16.24
26	other non-metallic mineral products	2.56	3.34	5.44	20.18	4.74	26.85	23.04	19.85	2.92	8.27
27	basic metals	0.54	24.89	22.78	44.86	1.83	30.03	13.53	9.61	2.36	20.65
28	fabricated metal products	-3.30	13.67	14.51	20.11	28.12	34.05	27.57	-5.07	7.22	34.40
29	machinery and equipment n.e.c.	1.72	5.89	4.82	35.63	27.93	12.08	22.41	22.80	2.36	26.19
30	office, accounting and computing machine	14.55	-5.98	21.23	-9.89	33.24	13.94	4.42	-8.26	17.10	13.92
31	electrical machinery and apparatus n.e.c	8.27	8.91	-0.16	15.34	53.46	37.05	0.89	9.79	7.92	21.05
32	radio, television etc.	-11.09	50.49	-5.44	2.63	7.53	0.91	14.58	32.63	19.06	-0.97
33	medical, precision and optical instrument	26.45	-1.26	12.49	3.63	4.64	17.52	26.38	-25.11	10.78	34.10
34	motor vehicles, trailers and semi-trailers	-0.81	31.91	15.89	92.19	-17.83	10.41	10.66	0.92	31.53	20.83
35	other transport equip.	13.72	8.52	7.57	27.97	11.17	14.97	-12.30	19.55	17.13	23.56
36	furniture; manufacturing n.e.c.	66.17	-12.07	27.03	23.59	35.68	13.63	8.65	10.56	131.13	-46.02
37	recycling	130.78	-38.04	153.92	-15.20	15.64	106.14	-33.41	210.88	17.37	59.93
00	other industries	-4.23	5.22	34.77	13.19	23.84	43.50	2.52	17.03	22.38	42.16
xx	all industries	1.97	14.45	7.76	22.26	11.40	19.45	9.99	11.06	11.59	18.50

Note: 01-02 means growth of 2001-02 over 2000-01 and so on

Table T9: Year-wise growth of estimated Total Emoluments for major Industries at NIC 2004 2-digit level at 2000-01 constant prices for ASI 2001-02 to ASI2010-11

NIC 2004 2-digit level		01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
14	other mining and quarrying	245.82	1.94	25.71	53.08	5.46	-43.07	34.00	-47.61	39.32	-11.96
15	food products and beverages	-2.26	0.25	-3.59	3.38	8.74	7.54	10.03	6.13	3.06	8.49
16	tobacco products	-7.88	2.78	-1.88	0.48	-2.08	-2.50	-5.23	7.33	-4.25	10.97
17	textiles	-10.78	1.39	-0.30	4.75	6.14	12.00	1.47	2.84	0.76	11.24
18	wearing apparel	-1.38	13.52	7.77	26.94	23.46	12.11	9.14	10.21	-5.07	10.24
19	tanning and dressing of leather	1.92	2.26	1.94	1.13	18.80	4.73	27.85	16.64	15.57	3.82
20	wood and wood products	-4.31	-10.39	2.68	-69.73	32.70	-0.60	20.79	23.19	-2.77	19.18
21	paper and paper products	-1.80	-0.90	1.94	2.47	3.15	2.32	10.29	10.25	2.05	17.60
22	publishing, printing	-0.95	7.00	-2.83	2.01	24.18	3.62	12.73	-4.63	3.13	21.08
23	coke, petroleum and nuclear fuel	-6.31	-2.57	4.38	4.64	5.73	15.93	8.15	16.96	7.17	15.30
24	chemicals and chemical products	-1.73	1.75	2.51	6.89	7.65	8.71	4.16	20.17	-3.10	12.43
25	rubber and plastic products	9.45	1.66	7.52	8.41	4.04	11.77	8.50	23.53	24.91	-5.23
26	other non-metallic mineral products	1.92	10.42	-11.43	9.78	9.30	13.62	14.29	20.52	0.38	14.48
27	basic metals	-4.75	6.38	8.55	-3.62	9.50	16.24	23.53	9.38	-16.54	24.93
28	fabricated metal products	-11.84	7.68	-2.26	13.80	20.83	25.64	23.59	1.37	4.03	24.55
29	machinery and equipment n.e.c.	-0.82	-2.21	1.54	19.68	12.78	13.54	15.17	39.10	-5.29	10.82
30	office, accounting and computing machine	3.98	1.99	13.28	19.90	-13.06	3.48	30.42	-30.87	28.37	-17.73
31	electrical machinery and apparatus n.e.c	-14.29	7.05	-4.36	5.14	17.41	11.29	24.37	1.37	11.20	20.19
32	radio, television etc.	0.70	16.26	-6.07	3.86	12.99	-2.98	24.88	42.53	10.16	-20.88
33	medical, precision and optical instrument	7.80	8.47	4.03	-10.15	4.23	18.64	48.08	-18.97	1.98	28.02
34	motor vehicles, trailers and semi-trailers	-4.18	10.70	9.81	15.89	6.77	13.74	17.55	4.88	16.22	20.28
35	other transport equip.	-0.82	6.83	5.25	7.63	5.49	16.62	-3.65	1.67	10.31	9.04
36	furniture; manufacturing n.e.c.	9.00	15.00	11.37	20.61	14.94	18.61	-0.56	10.03	-3.50	15.44
37	recycling	47.39	69.74	5.99	30.88	-16.57	126.59	-26.08	53.95	20.16	-10.68
00	other industries	11.04	-1.64	13.81	12.76	24.43	40.48	-4.11	32.81	11.77	4.80
XX	all industries	-3.49	3.90	1.83	6.33	10.05	12.36	11.93	12.51	1.06	12.88

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

**Table T11: Year-wise growth of estimated Employee for major Industries at NIC
2004 2-digit level for ASI 2001-02 to ASI2010-11**

NIC 2004 2-digit level	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
14 other mining and quarrying	180.99	-1.49	56.94	35.51	13.64	-42.15	59.22	-58.58	31.24	-16.66
15 food products and beverages	-1.94	0.13	-0.86	3.54	3.63	6.09	1.96	3.01	2.77	3.20
16 tobacco products	2.09	-0.84	-2.09	-1.16	0.05	-6.23	-6.44	8.79	-7.14	-1.74
17 textiles	-8.27	-0.30	2.70	4.47	5.74	35.68	-19.51	7.56	2.26	4.90
18 wearing apparel	-4.19	5.82	12.99	18.74	20.36	5.64	10.11	-0.36	2.64	-0.76
19 tanning and dressing of leather	5.79	0.11	-0.30	2.68	16.02	0.13	27.33	13.02	1.56	14.76
20 wood and wood products	2.69	-5.68	2.60	-33.51	11.40	6.83	12.92	0.50	10.61	6.91
21 paper and paper products	-6.33	3.40	0.48	1.84	-0.23	6.99	32.23	-7.94	-1.25	8.97
22 publishing, printing	-4.91	7.56	-6.32	2.19	16.84	7.24	0.32	3.20	7.10	9.55
23 coke, petroleum and nuclear fuel	1.07	1.95	5.91	7.29	7.31	5.60	21.04	3.40	8.50	-6.74
24 chemicals and chemical products	-4.77	-0.81	-1.94	6.01	5.16	6.26	1.81	9.10	4.45	9.80
25 rubber and plastic products	6.73	-2.82	6.48	9.27	4.25	8.06	5.04	19.62	10.80	7.19
26 other non-metallic mineral products	5.18	28.03	-23.81	15.16	10.44	14.82	1.49	15.54	2.55	15.70
27 basic metals	-3.78	-1.41	0.87	7.02	11.48	19.45	5.32	10.97	-0.45	13.11
28 fabricated metal products	-9.35	6.30	-0.54	13.16	16.61	20.14	16.49	-5.83	9.85	20.84
29 machinery and equipment n.e.c.	-4.18	-0.51	-2.37	17.75	6.44	12.16	7.87	40.51	-18.36	19.40
30 office, accounting and computing machine	1.89	-9.53	19.51	21.30	-15.76	20.22	9.41	-27.91	12.09	-0.63
31 electrical machinery and apparatus n.e.c	-3.13	1.05	-3.78	8.76	15.72	9.91	11.38	3.39	15.46	14.12
32 radio, television etc.	-9.49	4.53	-5.05	1.42	13.60	-9.32	29.81	1.47	46.99	-21.67
33 medical, precision and optical instrument	-9.48	9.91	0.36	-4.24	14.57	8.51	10.28	-6.82	166.74	-60.66
34 motor vehicles, trailers and semi-trailers	-2.67	6.70	6.65	17.91	6.86	13.48	14.25	9.23	21.55	15.49
35 other transport equip.	-8.96	2.29	1.89	6.16	7.68	21.08	-14.94	9.21	3.60	16.66
36 furniture; manufacturing n.e.c.	10.27	6.13	10.39	19.32	7.67	16.97	-2.00	10.34	-4.65	11.56
37 recycling	72.96	2.52	15.25	52.65	-8.08	86.00	-21.28	91.35	6.64	-6.90
OO other industries	-0.08	-0.69	-0.42	13.73	9.96	20.08	-3.78	13.42	0.73	14.85
XX all industries	-2.97	2.39	-0.83	7.41	7.78	13.35	1.20	8.37	4.10	7.66

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table T13: Year-wise growth of estimated number of Units for major Industries at NIC 2004 2-digit level for ASI 2001-02 to ASI2010-11

NIC 2004 2-digit level	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
14 other mining and quarrying	37.50	-20.45	65.71	29.31	19.33	-12.29	21.02	-57.89	26.25	-7.92
15 food products and beverages	-2.10	1.41	0.10	6.39	1.43	0.13	1.79	3.28	0.97	30.29
16 tobacco products	-8.16	3.43	20.14	4.00	4.47	-3.53	-2.01	3.76	-4.88	11.96
17 textiles	-7.40	1.65	2.12	3.73	2.14	8.87	-14.47	17.56	3.95	37.16
18 wearing apparel	-2.67	0.73	-3.54	6.49	7.42	0.33	-0.22	9.91	-5.40	65.11
19 tanning and dressing of leather	-1.30	1.19	-1.68	-1.84	6.54	-1.76	12.00	-5.21	9.73	45.06
20 wood and wood products	-4.54	-4.81	2.75	-12.17	-0.66	1.35	4.00	-2.97	8.77	22.29
21 paper and paper products	-1.34	2.87	2.96	5.14	-0.37	3.17	5.89	13.21	-0.82	33.07
22 publishing, printing	-9.19	5.54	-1.28	4.26	5.87	2.92	-2.63	5.08	-1.12	34.49
23 coke, petroleum and nuclear fuel	-3.49	7.12	-3.16	7.84	4.75	-6.94	9.22	-10.72	24.02	21.94
24 chemicals and chemical products	-0.86	-1.72	-1.63	5.09	2.31	0.64	1.01	7.67	0.03	33.56
25 rubber and plastic products	4.42	-3.92	2.68	3.23	1.77	6.05	4.99	1.81	0.11	42.04
26 other non-metallic mineral products	0.69	-0.83	1.53	11.70	5.87	7.76	5.07	4.66	5.31	30.97
27 basic metals	-4.38	-2.06	-1.27	3.27	7.30	7.84	-0.17	11.23	3.06	26.10
28 fabricated metal products	-2.83	-1.04	1.71	1.08	4.87	5.68	9.46	-4.38	10.70	33.55
29 machinery and equipment n.e.c.	-5.09	0.63	-0.85	11.52	1.53	0.45	2.06	6.59	-0.56	36.38
30 office, accounting and computing machine	-17.41	-11.35	9.76	11.11	-10.00	6.11	-8.90	5.17	0.00	17.49
31 electrical machinery and apparatus n.e.c	4.43	-4.93	-0.18	1.42	3.72	-0.57	6.13	10.11	3.49	30.08
32 radio, television etc.	-5.51	-3.14	-7.60	0.40	3.50	-7.53	10.65	21.13	-8.72	41.47
33 medical, precision and optical instrument	-7.89	6.92	3.59	-1.78	-0.40	3.95	-5.26	6.38	-12.96	30.11
34 motor vehicles, trailers and semi-trailers	1.94	6.07	-5.00	12.19	-0.78	6.26	1.50	10.63	14.31	22.77
35 other transport equip.	8.90	-10.85	-7.66	15.32	-5.08	-5.78	4.78	5.80	-4.92	35.61
36 furniture; manufacturing n.e.c.	6.21	-10.01	10.67	22.20	-4.62	3.43	-5.02	19.83	-6.40	36.66
37 recycling	282.35	-24.62	-2.04	45.83	25.71	64.77	-36.55	58.70	-15.07	12.10
OO other industries	-0.59	-2.34	3.16	5.43	3.38	4.86	2.95	5.79	1.44	34.61
XX all industries	-2.07	-0.46	0.87	5.64	2.79	3.25	1.16	6.10	2.29	33.22

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Table T15: Year-wise growth of selected characteristics at 2000-01 constant prices for ASI 2001-02 to ASI2010-11

Categories	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11
<i>Gross Value Added</i>										
All India	0.88	14.00	9.37	17.61	15.01	19.42	14.64	4.17	11.57	11.96
Census	-0.11	17.37	15.06	14.44	16.03	16.72	17.10	-1.60	9.34	15.52
Pseudo Cen	24.22	22.04	72.99	-66.55	83.26	9.24	38.66	-28.86	-14.10	17.04
True Cen	-1.07	17.14	12.08	20.88	14.55	16.98	16.39	-0.53	9.99	15.49
Sample	3.87	4.24	-9.16	30.66	11.32	29.57	6.30	25.71	18.11	2.33
<i>Fixed Capital</i>										
All India	4.57	0.66	1.41	0.68	14.23	11.80	12.41	16.59	22.13	12.66
Census	3.67	1.39	3.64	-3.08	18.22	8.82	16.98	11.81	23.65	11.36
Pseudo Cen	4.50	10.60	57.55	-65.30	70.53	30.54	20.94	-24.78	8.50	45.67
True Cen	3.63	0.97	0.96	1.75	16.84	7.98	16.79	13.58	24.13	10.40
Sample	8.23	-2.17	-7.53	17.63	-0.60	25.01	-5.20	39.28	16.35	17.93
<i>Total Output</i>										
All India	1.97	14.45	7.76	22.26	11.40	19.45	9.99	11.06	11.59	18.50
Census	1.97	14.45	7.76	22.26	11.40	19.45	9.99	11.06	11.59	18.50
Pseudo Cen	0.22	16.65	13.55	20.96	12.63	17.88	14.11	5.93	7.60	21.34
True Cen	7.02	12.08	81.30	-61.34	62.20	27.62	27.44	-47.72	3.16	23.62
Sample	-0.15	16.92	9.73	28.65	11.24	17.48	13.52	8.61	7.70	21.28
<i>Total Input</i>										
All India	2.22	14.56	7.38	23.37	10.58	19.45	8.89	12.78	11.59	20.01
Census	0.32	16.45	13.14	22.78	11.75	18.19	13.31	8.00	7.16	22.82
Pseudo Cen	3.85	9.88	83.33	-60.13	58.11	31.75	25.34	-51.61	8.39	25.20
True Cen	0.11	16.86	9.08	30.85	10.37	17.61	12.74	11.15	7.13	22.77
Sample	5.85	11.14	-3.51	24.69	8.04	22.31	-0.75	24.67	21.15	14.63
<i>Total Emoluments</i>										
All India	-3.49	3.90	1.83	6.33	10.05	12.36	11.93	12.51	1.06	12.88
Census	-4.69	3.88	6.04	1.62	8.83	10.53	16.34	4.31	-0.39	15.40
Pseudo Cen	9.43	17.75	63.70	-65.21	55.11	19.37	27.95	-47.01	2.49	26.44
True Cen	-5.18	3.32	3.40	6.48	7.73	10.23	15.91	6.41	-0.44	15.17
Sample	-0.06	3.93	-9.69	21.46	13.34	17.09	1.17	35.49	4.18	7.67
<i>Estimated Employee</i>										
All India	-2.97	2.39	-0.83	7.41	7.78	13.35	1.20	8.37	4.10	7.66
Census	-3.75	2.00	5.09	2.52	7.72	7.97	9.19	3.91	0.29	9.69
Pseudo Cen	0.82	8.93	53.34	-57.44	46.14	25.08	17.95	-52.01	-12.89	12.35
True Cen	-4.03	1.55	1.71	8.85	6.14	7.00	8.61	7.95	0.71	9.62
Sample	-1.83	2.96	-9.33	15.56	7.88	21.29	-9.28	15.41	9.52	5.01

Note: 01-02 means growth of 2001-02 over 2000-01 and so on.

Annexure - II

- GFCF deflator:** Gross fixed capital formation values were taken for 2000-01 to 2010-11 in current prices and for 2004-05 prices. Ratio of them were calculated to derive on implicit price deflators for each year, then keeping 2000-01 as base, GFCF deflators were generated.
- WPI deflator:** Financial year wise WPI for Manufactured products values were taken for 2000-01 to 2004-05 from 93-94 series and 2005-06 to 2010-11 values were taken from 2004-05 series and used the linking factor on 2004-05 series values.
- CPI deflator:** Month-wise CPI for Industrial Workers values were averaged for each financial year, i.e., from April 2000 to March 2001 for the year 2000-2001. Deflators were calculated as ratio of each year to that of 2000-2001, keeping 2000-2001 as base year. The values of the deflator were given below:

Table T16: Year-wise value of different deflators used

Financial Year	WPI	CPI	WPI deflator	CPI deflator	GFCF deflator
(1)	(2)	(3)	(4)	(5)	(6)
00-01	141.7	444.17	1.00000000	1.00000000	1.00000000
01-02	144.3	463.33	0.98198198	0.95863309	0.96736193
02-03	148.1	481.75	0.95678596	0.92198582	0.94571249
03-04	156.5	500.33	0.90543131	0.88774151	0.90119026
04-05	166.3	519.5	0.85207456	0.85498877	0.83703175
05-06	170.32	542.42	0.83194158	0.81886619	0.80826617
06-07	179.97	578.92	0.78735406	0.76723766	0.76695053
07-08	188.57	614.5	0.75145477	0.72280987	0.72949645
08-09	200.19	670.5	0.70782070	0.66244096	0.68068591
09-10	204.63	753.5	0.69246206	0.58947136	0.64920918
10-11	216.31	832.33	0.65507836	0.53364037	0.61542569

GFCF deflators were used for Fixed Capital, WPI deflators were used for Total Outputs and Gross Value Added and CPI deflators were used for Total Emoluments.