

**Government of India**  
**Ministry of Statistics and Programme Implementation**  
**Central Statistics Office**

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**Press Note**

**Provisional Results of Annual Survey of Industries 2009-2010**

Provisional results of Annual Survey of Industries (ASI) 2009-10, conducted by Central Statistics Office and National Sample Survey Office under the Ministry of Statistics and Programme Implementation have been released. The survey provides information on factories registered under Factories Act, 1948 and Bidi and Cigar establishments registered under the Bidi and Cigar Workers (Conditions of Employment) Act, 1966. Field work for the survey was carried out during 2010-11 throughout the country with a reference period coinciding with the fiscal year 2009-2010. Total sample size for the survey was 61,080 which represented about 30% of the total population and was drawn adopting stratified circular sampling procedure. The Highlights of the provisional results are given in this Press Note.

**Principal Aggregates – All India**

Annexure-I presents the estimates for principal characteristics for all industries taken together at all-India level for 2009-10 with comparative estimates for the preceding five years.

Industry-wise and state-wise performances of few characteristics are given below:

**Number of factories**

Total number of estimated factories is 1,58,877, which is 2.3% higher than that of the last year. Among the industries, highest number of factories is observed in 'Food products', which accounts for about 16.5% of the total factories in all industries followed by 'Other non-metallic mineral products' (11%) and 'Textiles'(8.4%). Among the states, highest number of factories is observed in Tamil Nadu (16.9%), followed by Maharashtra (12.2%), Andhra Pradesh (10.8%), Gujarat (9.8%) and Uttar Pradesh (6.9%).

**Fixed Capital**

At all India level, fixed capital in current prices has grown by 28% as against 25% in the last year. In constant prices (2004-05), the growth remains 25% in 2009-2010 as against 18% in the previous year. Highest fixed capital is observed in the 'Basic Metal' industry (21%), followed by 'Coke and Refined Petroleum Products' (10.7%). At state level, Gujarat has the highest fixed capital share (17.7%), followed by Maharashtra (14.6%), Tamil Nadu (9.8%), Andhra Pradesh (9.6%) and Karnataka (7.1%).

**Employment and Emoluments**

Employment in terms of total persons engaged has increased by 4.1% at all India, over the previous year, whereas the emolument (compensation) to employees has increased by 13.6% in current prices and 11.1% in real terms. Among all industries, 'Food products' generated the highest employment (12.5%), followed by 'Textiles' (11.7%), 'Basic metals' (7.6%), 'Wearing apparel' (7.3%) and 'Other non-metallic mineral products' (6.8%). Performance of top ten states in terms of employment, along with their percentage share in all India employment figure is given below:

Rank	1	2	3	4	5	6	7	8	9	10
States	Tamil Nadu (16%)	Maharashtra (12.8%)	Gujarat (9.8%)	Andhra Pradesh (9.6%)	Karnataka (7.5%)	Uttar Pradesh (6.5%)	Haryana (5%)	West Bengal (4.9%)	Punjab (4.8%)	Rajasthan (3.3%)

In terms of emoluments or compensation to employees, 'Basic Metal' has the highest share (10.1%) followed by 'Machinery and equipments' (8.5%), 'Food products' (8%), 'Textiles' (7.7%) and 'Motor vehicles, trailers and semi-trailers'(7.5%). Among the states, top five positions in term of compensation have been occupied by Maharashtra (19.1%), Tamil Nadu (14.3%), Gujarat (10.6%), Andhra Pradesh (7.3%) and Karnataka (7.1%).

### Gross Value Added (GVA)

The gross value added has grown by 12.4% in current prices and 10% in constant (2004-05) prices. The corresponding growth in GVA in 2008-09 over 2007-08 was 10.6% and 4% respectively. By type of industry, the first three positions in terms of gross value addition have been occupied by 'Basic Metals' (13%) 'Chemicals and chemical products' (10%) and 'Coke and Refined Petroleum Products' (8%) respectively. Performance of top ten states in terms of GVA, along with their percentage share in all India GVA is given below:

Rank in terms of GVA	1	2	3	4	5	6	7	8	9	10
States	Maharashtra (19.6%)	Gujarat (13.9%)	Tamil Nadu (10.5%)	Andhra Pradesh (7.3%)	Karnataka (6.5%)	Uttar Pradesh (5.4%)	Haryana (4.7%)	Rajasthan (3.4%)	West Bengal (3.3%)	Uttarakhand (2.9%)

### Structural Ratios and Technical Coefficients

A few structural ratios and technical coefficients derived from the macro level estimates of principal characteristics for the current and the preceding four years have been given in Annexure-II.

The survey results revealed that in 2009-10, a factory with an average investment of Rs. 851 Lakhs in fixed capital have provided gainful employment to 74 persons, produced goods and services at ex-factory prices worth Rs. 2,343 Lakhs and contributed by way of net value added by manufacture Rs. 366 Lakhs to the national income. However, taking an employee as a unit of measurement, the survey revealed that an employee in the organized manufacturing sector during 2009-10 has, on an average, worked with a fixed capital stock of Rs. 11,45,888, gave an output of Rs. 31,56,818 and contributed to the national income by way of net value added by manufacture Rs. 4,93,541. The corresponding averages in the preceding year were, respectively, Rs. 9,32,216, Rs. 28,89,254 and Rs. 4,65,916.

The capital output ratio which is a measure of the capital required to produce one unit of net output (net value added) has increased from 1.98 in 2008-09 to 2.32 in 2009-10. The capital required to produce one unit of gross output has also increased from 0.32 in 2008-09 to 0.36 in 2009-10. Level of efficiency (ratio of net value added to gross output) has, however, remained at the same level (0.16). While the average number of employee working per factory has marginally increased from 73 in 2008-09 to 74 in 2009-10, average emoluments per employee has increased from Rs. 1,14,272 to Rs. 1,24,664 in current prices during the same period. Fuel consumed to produce one unit of output, however, marginally decreased to 0.04 in 2009-10 from 0.05 in 2008-09.

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**Annexure-I: Estimate of some principal characteristics and their growth for last 5 years**

Year	ASI Year						Growth over previous year				
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10*	2005-06	2006-07	2007-08	2008-09	2009-10
<b>Factories</b>	1,36,353	1,40,160	1,44,710	1,46,385	1,55,321	1,58,877	2.79	3.25	1.16	6.10	2.29
<b>Fixed Capital (Rs. Lakh)</b>	5,13,06,925	6,06,94,028	7,15,13,139	8,45,13,209	10,55,96,614	13,51,32,396	18.30	17.83	18.18	24.95	27.97
<b>Invested Capital (Rs. Lakh)</b>	7,59,41,770	9,01,57,861	10,71,50,382	12,80,12,553	15,35,17,773	19,32,21,915	18.72	18.85	19.47	19.92	25.86
<b>Workers</b>	65,99,298	71,36,097	78,80,536	81,98,110	87,76,745	91,58,295	8.13	10.43	4.03	7.06	4.35
<b>Total Persons Engaged</b>	84,53,624	91,11,680	1,03,28,434	1,04,52,535	1,13,27,485	1,17,92,814	7.78	13.35	1.20	8.37	4.11
<b>Wages to Worker (Rs. Lakh)</b>	33,63,505	37,66,366	44,29,135	51,03,023	59,77,184	68,94,099	11.98	17.60	15.21	17.13	15.34
<b>Total Emoluments (Rs. Lakh)</b>	64,40,594	74,00,820	88,75,099	1,05,44,284	1,29,44,123	1,47,01,404	14.91	19.92	18.81	22.76	13.58
<b>Input (Rs. Lakh)</b>	13,62,94,133	15,43,65,843	19,48,36,758	22,22,95,282	26,61,48,638	30,35,60,511	13.26	26.22	14.09	19.73	14.06
<b>Output (Rs. Lakh)</b>	16,72,56,142	19,08,35,548	24,08,54,764	27,75,70,904	32,72,79,786	37,22,77,682	14.10	26.21	15.24	17.91	13.75
<b>GVA (Rs. Lakh)</b>	3,09,62,009	3,64,69,705	4,60,18,006	5,52,75,622	6,11,31,148	6,87,17,171	17.79	26.18	20.12	10.59	12.41
<b>NVA (Rs. Lakh)</b>	2,59,90,686	3,11,86,419	3,95,72,526	4,81,59,268	5,27,76,558	5,82,02,428	19.99	26.89	21.70	9.59	10.28

\*ASI 2009-10 results are provisional and subject to change.

**Annexure-II: Structural Ratios & Technical Co-efficients for last 10 years**

Year (ASI)	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10*
<b>Structural Ratios</b>											
Fixed Capital per Factory	Rs Lakhs	304	336	348	367	376	433	494	577	680	851
Gross Output per Factory	Rs Lakhs	706	749	884	997	1227	1362	1664	1896	2107	2343
Net Value Added per Factory	Rs Lakhs	109	112	135	157	191	223	273	327	340	366
Workers per Factory	Number	47	46	48	47	48	51	54	56	57	58
Employee per Factory	Number	61	60	62	61	62	65	71	71	73	74
Fixed Capital per Employee	Rupees	500269	557342	560436	601431	606922	666112	692391	808543	932216	1145888
Output per Worker	Rupees	1510784	1615443	1834882	2114998	2534454	2674229	3056325	3385791	3728943	4064923
Output per Employee	Rupees	1160400	1241821	1424608	1635790	1978514	2094406	2331958	2655537	2889254	3156818
Net Value Added per Worker	Rupees	234093	242205	279705	333392	393840	437023	502155.3	587443.5	601323	635516
Net Value Added per Employee	Rupees	179801	186187	217164	257853	307450	342269	383142	458282	465916	493541
Emoluments per Employee	Rupees	63495	65880	69504	74125	76187	81223	85929	100878	114272	124664
Wages per Worker	Rupees	45101	46054	48185	50071	50968	52779	56203	62246	68103	75277
<b>Technical Co-efficients</b>											
Fixed Capital to NVA		2.78	2.99	2.58	2.33	1.97	1.95	1.81	1.76	1.98	2.32
Fixed Capital to Output		0.43	0.45	0.39	0.37	0.31	0.32	0.3	0.3	0.32	0.36
NVA to Output		0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.16	0.16
Output to Input		1.24	1.24	1.23	1.24	1.23	1.24	1.24	1.25	1.23	1.23
Fuel Consumed to Output		0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.04
Emoluments to NVA		0.35	0.35	0.32	0.29	0.25	0.24	0.22	0.22	0.24	0.25

\*ASI 2009-10 results are provisional and subject to change.