

**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 2010-2011**

Provisional results of Annual Survey of Industries (ASI) 2010-11, 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 2011-12 throughout the country with a reference period coinciding with the fiscal year 2010-2011. Total sample size for the survey was 61,573 which represented about 27% of the total population and was drawn adopting stratified circular systematic 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 2010-11 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<sup>1</sup> is 2,11,660, which is 33.22% higher than that of the last year. Among the industries, highest number of factories is observed in 'Food products', which accounts for about 16.1% of the total factories in all industries followed by 'Other non-metallic mineral products' (11%) and 'Textiles' (8.8%). Among the states, highest number of factories is observed in Tamil Nadu (17.4%), followed by Maharashtra (13.2%), Andhra Pradesh (12.4%), Gujarat (10.1%) and Uttar Pradesh (6.5%).

**Fixed Capital**

At all India level, fixed capital in current prices has grown by 19% as against 28% in the last year. In constant prices (2004-05), the growth remains 12.5% in 2010-2011 as against 25% in the previous year. Highest fixed capital is observed in the 'Basic Metal' industry (21.7%), followed by 'Coke and Refined Petroleum Products' (9.6%). At state level, Gujarat has the highest fixed capital share (17%), followed by Maharashtra (14.5%), Andhra Pradesh (10%), Tamil Nadu (9.2%) and Odisha (7.1%).

**Employment and Emoluments**

Employment in terms of total persons engaged has increased by 7.8% at all India, over the previous year, whereas the emolument (compensation) to employees has increased by 24.8% in current prices and 18.1% in real terms. Among all industries, 'Food products' generated the highest employment (12.2%), followed by 'Textiles' (11.5%), 'Basic metals' (8%), 'Other non-metallic mineral products' (7.3%) and 'Wearing apparel' (6.9%). Performance of top ten states in terms of employment, along with their percentage share in all India employment figure is given below:

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<sup>1</sup> Prior to ASI 2010-11, although the samples were drawn from domain of units with the statuses 'open', 'closed' and 'non-operative'; separate procedure was followed for estimating the "number of factories" and "number of factories in operation". While the units with the status code '1' (i.e., open) only were considered as surveyed cases for estimating the "number of factories in operation", the units with the status codes '1' and '2' (i.e., open and closed respectively) were considered as surveyed cases for estimating the "number of factories", and accordingly the multipliers (weights) were calculated. Now, all the units with codes '1', '2' and '3', that is, all units with 'open', 'closed' and 'NOP' statuses are similarly placed and are considered as surveyed cases for estimating the "number of factories" and multipliers (weights) were calculated accordingly. After deriving the estimates mentioned above, all the rates and ratios are derived for per "number of factories". The earlier method, if followed, will result in 8% growth in the number of units during 2010-11 compared to 2009-10.

States (% share in empl.)	Tamil- Nadu (15.4%)	Maha- rashtra (13.4%)	Andhra- Pradesh (10.3%)	Gujarat (10.1%)	Uttar- Pradesh (6.4%)	Karna- taka (6.2%)	West Bengal (5%)	Punjab (4.8%)	Haryana (4.3%)	Rajas- than (3.4%)
Rank in terms of employ- ment	1	2	3	4	5	6	7	8	9	10

In terms of emoluments or compensation to employees, 'Basic Metal' has the highest share (11.2%) followed by 'Machinery and equipments' (8.3%), 'Motor vehicles, trailers and semi-trailers' (8%), 'Food products' (7.7%) and 'Textiles' (7.6%). Among the states, top five positions in term of compensation have been occupied by Maharashtra (19.2%), Tamil Nadu (13.1%), Gujarat (10.6%), Andhra Pradesh (7.7%) and Karnataka (7.2%).

### Gross Value Added (GVA)

The gross value added has grown by 19.5% in current prices and 13.1% in constant (2004-05) prices. The corresponding growth in GVA in 2009-10 over 2008-09 was 14.1% and 11.6% respectively. By type of industry, the first three positions in terms of gross value addition have been occupied by 'Basic Metals' (12.2%), 'Coke and Refined Petroleum Products' (10.6%) and 'Chemicals and chemical products' (8.9%) respectively. Performance of top ten states in terms of GVA, along with their percentage share in all India GVA is given below:

States (% share in GVA)	Maha- rashtra (20.5%)	Gujarat (13.2%)	Tamil Nadu (10.3%)	Andhra Pradesh (8.4%)	Uttar Pradesh (6.2%)	Karna- taka (5.9%)	Uttara- khand (3.9%)	Haryana (3.6%)	West Bengal (3%)	Punjab (2.8%)
Rank in terms of GVA	1	2	3	4	5	6	7	8	9	10

### 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 2010-11, a factory with an average investment of Rs. 760 Lakhs in fixed capital have provided gainful employment to 60 persons, produced goods and services at ex-factory prices worth Rs. 2,214 Lakhs and contributed by way of net value added by manufacture Rs. 337 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 2010-11 has, on an average, worked with a fixed capital stock of Rs. 12,64,382, gave an output of Rs. 36,84,377 and contributed to the national income by way of net value added by manufacture Rs. 5,60,409. The corresponding averages in the preceding year were, respectively, Rs. 1,14,66,904, Rs. 31,65,721 and Rs. 4,02,779.

The capital output ratio which is a measure of the capital required to produce one unit of net output (net value added) has decreased marginally from 2.28 in 2009-10 to 2.26 in 2010-11. The capital required to produce one unit of gross output has also marginally decreased from 0.36 in 2009-10 to 0.34 in 2010-11. Level of efficiency (ratio of net value added to gross output) has, however, slightly decreased from 0.16 to 0.15. While the average number of employee working per factory has decreased from 74 in 2009-10 to 60 in 2010-11, average emoluments per employee has, however, increased from Rs. 1,24,666 to Rs. 1,44,251 in current prices during the same period.

**Annexure I : Value of key parameters based on ASI 2010-11 and growth for last 5 years  
(Value figures in Rs Lakhs & others in Numbers)**

Year	Estimates during the year						Growth over previous year				
	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11*	2006-07	2007-08	2008-09	2009-10	2010-11*
<b>Factories</b>	1,40,160	1,44,710	1,46,385	1,55,321	1,58,877	2,11,660 (1,72,183**)	3.25	1.16	6.10	2.29	33.22 (8.38**)
<b>Fixed Capital</b>	6,06,94,028	7,15,13,139	8,45,13,209	10,55,96,614	13,52,18,367	16,07,84,315	17.83	18.18	24.95	28.05	18.91
<b>Invested Capital</b>	9,01,57,861	10,71,50,382	12,80,12,553	15,35,17,773	19,33,05,395	23,94,71,106	18.85	19.47	19.92	25.92	23.88
<b>Workers</b>	71,36,097	78,80,536	81,98,110	87,76,745	91,57,802	99,07,347	10.43	4.03	7.06	4.34	8.18
<b>Total Persons Engaged</b>	91,11,680	1,03,28,434	1,04,52,535	1,13,27,485	1,17,92,055	1,27,16,430	13.35	1.20	8.37	4.10	7.84
<b>Wages to Worker</b>	37,66,366	44,29,135	51,03,023	59,77,184	68,94,071	85,64,839	17.60	15.21	17.13	15.34	24.23
<b>Total Emoluments</b>	74,00,820	88,75,099	1,05,44,284	1,29,44,123	1,47,00,696	1,83,43,598	19.92	18.81	22.76	13.57	24.78
<b>Input</b>	15,43,65,843	19,48,36,758	22,22,95,282	26,61,48,638	30,35,85,334	38,51,96,388	26.22	14.09	19.73	14.07	26.88
<b>Output</b>	19,08,35,548	24,08,54,764	27,75,70,904	32,72,79,786	37,33,03,593	46,85,21,264	26.21	15.24	17.91	14.06	25.51
<b>GVA</b>	3,64,69,705	4,60,18,006	5,52,75,622	6,11,31,148	6,97,18,259	8,33,24,877	26.18	20.12	10.59	14.05	19.52
<b>Depreciation</b>	52,83,286	64,45,480	71,16,354	83,54,590	1,05,06,872	1,20,60,866	22.00	10.41	17.40	25.76	14.79
<b>NVA</b>	3,11,86,419	3,95,72,526	4,81,59,268	5,27,76,558	5,92,11,387	7,12,64,011	26.89	21.70	9.59	12.19	20.36
<b>Rent Paid</b>	5,29,948	6,40,399	7,50,549	9,75,778	12,00,490	13,51,792	20.84	17.20	30.01	23.03	12.60
<b>Interest Paid</b>	33,39,801	41,31,128	51,48,688	68,68,048	73,31,793	88,04,298	23.69	24.63	33.39	6.75	20.08
<b>Income</b>	2,73,16,670	3,48,00,999	4,22,60,031	4,49,32,732	5,06,79,104	6,11,07,921	27.40	21.43	6.32	12.79	20.58
<b>Profit</b>	1,84,46,298	2,41,42,496	2,97,57,600	3,01,66,927	3,32,93,065	3,98,00,224	30.88	23.26	1.38	10.36	19.55

\*ASI 2010-11 results are provisional and subject to change.

\*\* Comparable estimate as per old procedure

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

Year (ASI)	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11*	2010-11** (comp.)
<b><u>Structural Ratios</u></b>												
Fixed Capital per Factory	Rs Lakhs	336	348	367	376	433	494	577	680	851	760	934
Gross Output per Factory	Rs Lakhs	749	884	997	1227	1362	1664	1896	2107	2350	2214	2721
Net Value Added per Factory	Rs Lakhs	112	135	157	191	223	273	327	340	373	337	414
Workers per Factory	Number	46	48	47	48	51	54	56	57	58	47	58
Employee per Factory	Number	60	62	61	62	65	71	71	73	74	60	74
Fixed Capital per Employee	Rupees	557342	560436	601431	606922	666112	692391	808543	932216	1146690	1264382	
Output per Worker	Rupees	1615443	1834882	2114998	2534454	2674229	3056325	3385791	3728943	4076345	4729029	
Output per Employee	Rupees	1241821	1424608	1635790	1978514	2094406	2331958	2655537	2889254	3165721	3684377	
Net Value Added per Worker	Rupees	242205	279705	333392	393840	437023	502155	587444	601323	646568	719305	
Net Value Added per Employee	Rupees	186187	217164	257853	307450	342269	383142	458282	465916	502130	560409	
Emoluments per Employee	Rupees	65880	69504	74125	76187	81223	85929	100878	114272	124666	144251	
Wages per Worker	Rupees	46054	48185	50071	50968	52779	56203	62246	68103	75281	86449	
<b><u>Technical Co-efficients</u></b>												
Fixed Capital to NVA		2.99	2.58	2.33	1.97	1.95	1.81	1.76	1.98	2.28	2.26	
Fixed Capital to Output		0.45	0.39	0.37	0.31	0.32	0.3	0.3	0.32	0.36	0.34	
NVA to Output		0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.16	0.16	0.15	
Output to Input		1.24	1.23	1.24	1.23	1.24	1.24	1.25	1.23	1.23	1.22	
Emoluments to NVA		0.35	0.32	0.29	0.25	0.24	0.22	0.22	0.24	0.25	0.26	

\*ASI 2010-11 results are provisional and subject to change.

\*\* Comparable estimate as per old procedure