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7 October 2012

Online at <https://mpra.ub.uni-muenchen.de/41801/>
MPRA Paper No. 41801, posted 08 Oct 2012 13:29 UTC

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Acknowledgement: This study is prepared as a part of the research project, *Regional Patterns of Internationalization of Indian Firms: Learnings for Policy*, sponsored by the Indian Council of Social Science Research, New Delhi.

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Abstract: Regardless of exports' increasing roles in national and state level economic growth performance, there are hardly any studies that analyze inter-state disparities in export activities. Constructing a unique dataset from a variety of published and unpublished sources of information, the study has estimated state level manufacturing exports for 1991–2008. It is the first ever attempt on estimating state level exports focusing on plant information. The estimation derived with reference to plant size information and covering majority of sub-national entities in India, has offered preliminary but useful findings for furthering policy understanding on inter-state disparities in firms' export activities.

Key Words: Manufacturing exports, Indian states

JEL Classification: *O24; F10; O53*

1. Introduction

Indian industries and firms are rapidly internationalizing their businesses in recent years. The adoption of economic openness policy by India during the last two decades, particularly trade policy reforms have produced significant growth in exports from India (Hosamane and Bisaliah, 2006). National firms were forced through heightened competitive pressures to participate in world markets and facilitative measures were put in place to support firms' internationalization process.

In the first-decade of the twenty-first century, emerging Asian firms became the leading players contributing to the recent export growth from emerging market economies (EMEs). They accounted for 31 per cent share in global merchandized exports in 2009. Between 1990 and 2009, while Chinese firms quintupled their global merchandise export share, Indian firms more than doubled their share of merchandise export. Indian exports grew substantially by 16.9 per cent during 2000–09, more than the growth rate of such exports from EMEs (Table-1).

With exports become an important determinant of economic growth in India, there is increasing realization among Indian states about the critical role that exports may play in improving their growth prospects. A number of Indian states started adopting conscious policies to support internationalization of their firms through exports.

In January 2003 Karnataka became the first Indian state to unveil a state level export promotion policy with the mission to accelerate its export growth and achieve the doubling of her share in all India exports from the existing level of 7 per cent to 15 per cent by 2007¹. Government of Gujarat has been undertaking proactive policies for promoting exports from the state, especially by its small and medium enterprises (SME) sector. The vision of recently adopted Gujarat Industrial Policies are to make 'Made in Gujarat' a global brand through exports of high quality products and to promote global sourcing from the state (Government of Gujarat, 2009). Augmenting exports from the industrial units in the state is an important objective of the Maharashtra Industrial Policies, which is to be achieved through investment-friendly industrial policies, improving infrastructure and proactively promoting the setting up of Special Economic Zones (Government of Maharashtra, 2001). With a view to promote exports, the Tamil Nadu New Industrial Policy 2003 laid emphasis on various measures like setting up of Apparel Parks,

¹ *Hindu Business Line* (2003), 'Karnataka to double export share', January 25.

Agri Export Zones and Special Parks and formulation of a SEZ Policy (Government of Tamil Nadu, 2003).

Given the faster internationalization behaviours of Indian firms and growing focus of Indian states on promoting exports by their firms, there is urgent requirement of understanding regional dimension of Indian exports. However, the extant literature is predominantly focused national trends of exports or firm-level export behaviour, with little attention paid to the regional dimension of such activities. For instance, studies on export performance of Indian economy and firms have explored changing sectoral and technological profile of manufactured exports (Lall, 1999), determinants and drivers (Pradhan and Sahu, 2008; Roy, 2007; Kumar and Pradhan, 2007; Siddharthan and Nollen, 2004; Aggarwal, 2002; Bhavani and Tendulkar, 2001; Singh, 2001); and relationship between growth and exports (Chandra, 2003). Studies on state level export performance, for example, Chaudhuri and Chakraborty (2010) and Marjit and Kar (2008) are of limited use as far as the objective is to compare Indian states on the basis of export performance. These studies, in the absence of reliable data, use the correspondence between states' production pattern and national export structure as indirect ways of arriving at potential export products for a state or regional openness index.

India, as a large EME, is known to comprise a very diverse set of sub-national geographies with often significant inter-regional differences in the levels of development and economic growth. Regional disparities in the size and growth of local markets, endowments of human and technological resources, industrial specialization, infrastructure, etc., are like to play an important role in the firms' export behavior and differential contribution to the national exports. Therefore, unless the export studies related to India are expanded to incorporate regional heterogeneity, we will continue to miss the regional learning and capacity building process that make Indian firms from certain regions more active in trade than firms from other regions.

As there is little literature about the regional pattern of firms' export activities in India, the present study attempts to fill the analytical gap by focusing on issues of internationalization of firms at the subnational level. Are manufacturing exports by Indian firms regionally concentrated? How have Indian states, the unit of sub-national analysis, performed in India's ongoing export boom? These questions have important policy implications.

The study begins with a brief discussion on the data issues related to regional exports in India and in particular the limitations of official statistics. It then proceeds to elaborate on an alternative method of estimating state-wise exports based on plant size and location information. Based on the new estimates on firms' exports by Indian states, it analyses the trends and patterns of regional exports.

Table-1 Average Merchandise Exports of Selected Emerging Economies, 2000–09

Region/economy	Average exports (\$ billion)			Annual average growth (per cent)			Percentage share in global exports		
	2000–04	2005–09	2000–09	2000–04	2005–09	2000–09	1990	2000	2009
World	7189	13030	10110	10.4	7.4	8.9	100.0	100.0	100.0
Developed economies	4671	7552	6111	8.4	5.0	6.7	73.3	65.7	56.6
European Union	2896	4895	3895	10.1	5.0	7.6	45.2	38.0	36.7
North America	1025	1475	1250	4.3	4.9	4.6	15.1	16.4	11.0
Other developed economies	586	882	734	7.5	3.6	5.6	10.1	9.1	6.5
Other developed Europe	165	300	232	10.4	8.7	9.5	2.9	2.2	2.4
Emerging economies	2519	5483	4001	14.6	11.3	12.9	24.6	34.3	43.5
Africa	170	410	290	16.5	12.5	14.5	3.1	2.3	3.0

America	386	723	554	10.0	9.2	9.6	4.3	5.6	5.5
Asia	1766	3825	2795	14.8	11.2	13.0	17.2	23.9	31.0
CIS	181	490	335	21.1	15.0	18.1	0.0	2.3	3.6
Oceania	5	8	7	4.9	4.9	4.9	0.1	0.1	0.1
South-East Europe	11	28	19	16.2	12.2	14.2	0.0	0.1	0.2
Selected emerging economies									
Argentina	29	54	41	8.5	11.4	10.0	0.4	0.4	0.4
Brazil	69	154	111	15.5	11.2	13.3	0.9	0.9	1.2
Chile	22	57	40	15.1	12.5	13.8	0.2	0.3	0.4
China	374	1116	745	25.4	16.5	21.0	1.8	3.9	9.6
Egypt	7	19	13	23.7	19.1	21.4	0.1	0.1	0.2
Hong Kong, China	218	333	276	9.2	4.7	7.0	2.4	3.1	2.6
India	54	144	99	16.9	17.0	16.9	0.5	0.7	1.2
Indonesia	63	114	89	7.5	12.0	9.8	0.7	1.0	1.0
Korea, Republic of	187	354	270	13.1	8.1	10.6	1.9	2.7	2.9
Malaysia	102	167	135	9.1	5.3	7.2	0.9	1.5	1.3
Mexico	168	251	210	7.1	5.1	6.1	1.2	2.6	1.8
Philippines	37	45	41	2.2	0.1	1.2	0.2	0.6	0.3
Russian Federation	127	336	231	20.6	14.4	17.5	0.0	1.6	2.4
Singapore	149	282	215	12.6	7.3	10.0	1.5	2.1	2.2
South Africa	34	65	49	12.2	7.5	9.9	0.7	0.5	0.5

Note: The regional classification of countries is as per the UNCTAD (2009).

Source: Estimation based on World Trade Organization's online trade database, available at <http://stat.wto.org/Home/WSDBHome.aspx?Language=E>

2. State-level Exports: Data Issues and Method of Estimation

Despite maintaining long time series databases on foreign trade by commodities and trading partners, India has paid little attention to the compilation of data on sub-national origin of exports until recently. Whether it is the trade data from the Director General of Commercial Intelligence and Statistics (DGCI&S) or trade statistics from the Reserve Bank of India (RBI) none have any cues to segregate national exports by state or district level.

It seems there was lack of incentives to go beyond national aggregates of trade measures, largely because of India's marginal dependence on exports reflected in the contemporary inward-looking policy regime and anti-export bias of excessive protection given to import-substitution economic activities. As a result, for the entire period since 1950s–90s, unfortunately, there are hardly any official estimates on state wise exports.

With the trade becoming an important source of economic growth in the liberalized period, there has been an attempt to develop a data inventory on the state level exports. In the late 2001, the Directorate General of Foreign Trade (DGFT) revised the formats of Daily Trade Returns (DTRs) for imports and exports and the circular no. 32/2001-CUS of the Central Board of Excise & Customs, dated 31st May, 2001 made these revisions mandatory with effect from 1st July 2001. As per this new format, shipping bills submitted by exporters to the custom authorities at ports are required to furnish the state of origin of goods exported, among other information.

Notwithstanding the above regulatory provision for information on exports by state of origin, the official source is far from releasing reliable estimates. For the first time, the *Economic Survey* of the Government of India related to the year 2008–09 provided preliminary estimates on exports

for major 15 Indian states starting since 2006–07. The *Economic Survey* 2009–10 carries forward the information up to 2009–10. These figures are estimated by the DGCI&S based on ‘state of origin of export goods’ as reported in the DTRs filled with the customs.

These official estimates on state wise exports are by no means complete and satisfactory. First, the effective implementation of the revised DTR appears to be lacking uniformity across different custom points and exporter-specific heterogeneity in actually filling up the state of origin information in the shipping bills. Take the case of Southern custom zones, where exporters’ non-compliance with the mandatory requirements of furnishing the state of origin information has forced the authority to issue another trade notification No. 4/2002–2003, dated: 11th October 2002. The implementation can similarly be unsatisfactory at smaller ports, distorting the estimated state-wise exports data. As the DTRs of many exporters still suffered from non-furnishing of the state of origin information, there is likely to be incomplete coverage of exports. However, the compliance is expected to improve overtime.

Second, the dependence on exporters’ information on state of origin for estimating state level exports is not free from weakness in a federal setup. The information provided by non-manufacturer exporters can vitiate the estimation as the state of procurement of goods can differ from state of their production. However, DGCI&S is yet to take into account such measurement errors in its state-wise export estimation. Third, the released state-level export data covers unduly short time period and for just major exporting states. These data will not be of much help when one would like to analyze the long term trend and patterns of exports by Indian states since the starting of the liberalization in the early 1990s. Lastly, official state level export data fails to incorporate the vital export segments like export of services.

2.1. The Method

In view of the above limitations of official statistics on state wise exports, this study seeks to adopt an alternative method of estimation. As the basic idea is to allocate exports to their place of production, this study has mainly considered the state-wise location of manufacturers’ plants to arrive at the state level export figures. In the absence of comprehensive firm-level data for the entire manufacturing sector, the estimation in this study has been provided only for the organized segment of the manufacturing activities. In the service sector, the focus has been restricted to the information technologies (IT) activities only.

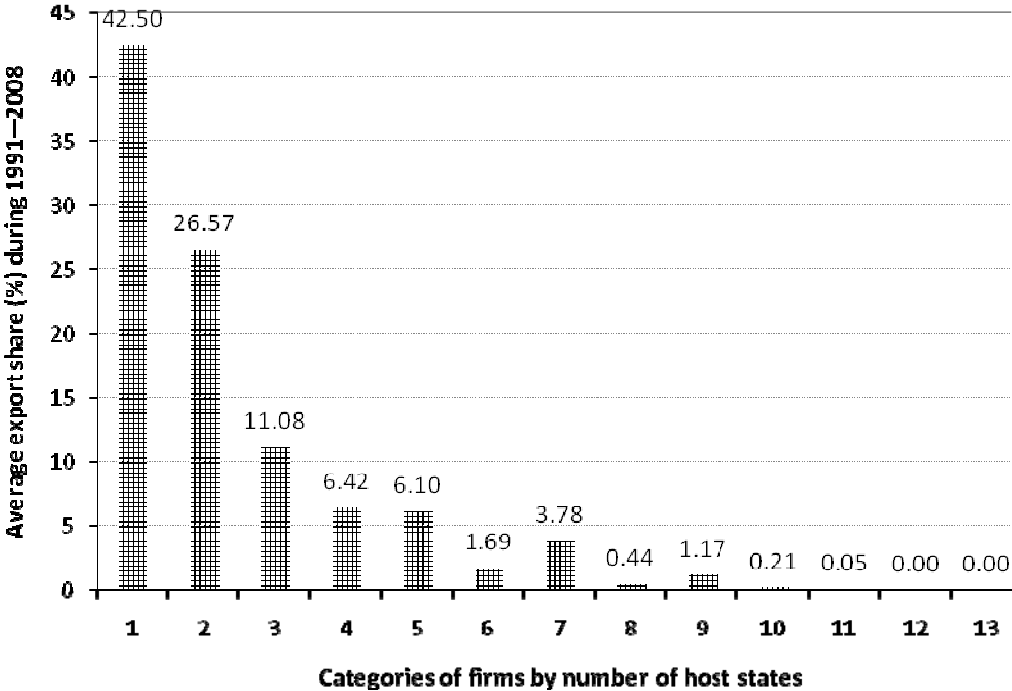
The study has drawn upon the recently updated Prowess database of the Centre for Monitoring Indian Economy (CMIE) for estimating state level export series during 1991–2008. This database has been furnishing a set of financial and non-financial variables including exports for an increasing number of Indian industrial firms and also now provides basic plant information for a number of them. The location data of the Prowess provides the name of the place of plant location, names of product manufactured, year for which this location information is related, plant capacity and actual production quantity. However, the availability of information on the last two indicators is not for all firms and plants in the database; rather it is limited to available firms and plants only.

While the financial information have been gathered for 9296 firms in both manufacturing (8486 firms) and IT sectors (810 firms), plant location information on 1000 odd companies is not available in the proweess database. These gaps in location data have been filled with information collected through intensive internet searches of company websites, annual reports, consultancy reports, etc.

Taking recourse to the most recent location information on number of plants, size of production and number of states where plants exist, firms have been broadly divided into what are termed as i. ‘single-state based firms’ and ii. ‘multi-state based firms’. The former comprises of 8129 firms and accounts for above 87 per cent of the total number of firms which have all of their production units located in a single state/union territory (UT). Total exports/sales of these single-state based firms are directly allocated to their respective host state/UT. The latter includes a total of 1167 firms those have plants located in more than one state/UT. Nearly 25 per cent of these multi-state based firms are producers of single products and have given information on their plant sizes, based on which exports/sales of these firms are divided into different states where their plants are located. The state-wise breakups of a multi-state based firm’s total exports/sales are based on the application of host states’ share in the aggregate production capacity of the firm. For the remaining single product multi-state based firms for which plant size data is insufficient and those firms that are producing multiple products (where plants sizes are in different units of measurements or not available), the study has assumed uniform economic size of plants for a firm to derive the state-wise production shares for fragmenting its total exports/sales across host states.

While using the production share to derive state-wise exports/sales of a firm is a practical approach, this method is not without its limitations. However, as the firms with relatively small number of host states account for the major proportion of total exports by all the industrial firms in the sample, it is unlikely that these limitations may overshadow the overall estimates. For example, the single state-based firms accounted for more than 42 per cent of total exports of all sample firms during 1991–2008, followed by two states-based firms with 27 per cent and three states-based firms with 11 per cent shares—together these firms nearly contributed 80 per cent of total exports by sample firms (Figure-1). As this is the first systematic exercise to derive state-wise industrial exports for an important phase of the evolution of globalized India, results obtained should be taken as useful starting estimates on state-level exports.

Figure-1 Export Share of Firms by Number of Host States, 1991–2008.



Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

It is reassuring to emphasize that the sample firms' exports, which have been assigned to different Indian states based plant location information, account for substantial proportion of national exports during the study period. The share of sample firms' manufactured exports in national manufacturing exports grew from 30 per cent in 1990–91 to 77 per cent in 2007–2008, achieving as much as 58 per cent share in national exports for the study period (Table-2). So this empirical exercise is able to distribute a fair proportion of national manufacturing exports by states. The sample software firms contributed about 47 per cent of total software and IT services exports from India in the period 1990–91 to 2007–2008. Similarly to the trend in sample firms' share in national manufacturing exports, sample firms' software exports has been growing from a relatively lower levels in the early 1990s to higher levels in the first decade of the twenty-first century. These trends may lead us to believe that the reliability of the obtained distribution of exports by Indian state is better for more recent years.

Table-2 Share of Sample Firms' Manufacturing and Software Exports in National Exports, 1991-2008

Year	Manufacturing exports (US\$ billions)			Software exports (US\$ billions)		
	National exports	Sample firms' exports	Sample as a % of national	National exports	Sample firms' exports	Sample as a % of national
1990–91	13	3.9	30.0	0.14	0.03	21.4
1991–92	13.15	4.74	36.0	0.21	0.04	19.0
1992–93	14.04	5.35	38.1	0.24	0.06	25.0
1993–94	16.66	7.28	43.7	0.33	0.11	33.3
1994–95	20.4	8.98	44.0	0.47	0.19	40.4
1995–96	23.75	10.34	43.5	0.79	0.27	34.2
1996–97	24.61	10.7	43.5	1.16	0.35	30.2
1997–98	26.55	11.25	42.4	1.83	0.55	30.1
1998–99	25.79	11.32	43.9	2.97	0.91	30.6
1999–00	29.71	12.55	42.2	3.96	1.49	37.6
2000–01	34.34	15.96	46.5	6.21	2.58	41.5
2001–02	33.37	16.02	48.0	7.65	3.05	39.9
2002–03	40.24	21.14	52.5	9.53	4.47	46.9
2003–04	48.49	27.61	56.9	12.67	5.92	46.7
2004–05	60.73	37.09	61.1	17.84	9.53	53.4
2005–06	72.56	44.8	61.7	23.51	11.43	48.6
2006–07	84.92	68.89	81.1	33.37	17.31	51.9
2007–08	102.98	79.12	76.8	40.83	18.96	46.4
All Years	685.29	397.04	57.9	163.72	77.26	47.2

Note: Financial year average exchange rate has been used to convert rupee figures into US\$.

Source: (i) National exports of manufactured goods is from RBI Database on Indian Economy Online database (2010); (ii) National software exports data is from Statistical Year Books, various issues, Electronics and Computer Software Export Promotion Council (ESC) and Annual Reports, 2004–05 & 2009–10, Department of Information Technology, Ministry of Communication & Information Technology, Government of India; (iii) SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

As a bench mark to our state-level export estimates, it may be suggestive to compare the obtained state ranking and export shares to such information available from the official statistics. This is preferable as the absolute values of our state-wise manufacturing exports is not strictly and meaningfully comparable to the absolute values from the official source since the later

includes merchandise exports covering products from the primary sector as well. Table-3 reports official and our estimates on state-wise exports for a two years period, 2006–07 to 2007–08.

Table-3 State Ranking and Export Shares Based on Merchandise and Manufacturing Exports

Official Statistics				Our Estimates			
Merchandise exports (US\$ million) during 2006–07 to 2007–08. (Manufacturing & primary sector products)				Manufacturing exports (US\$ million) during 2006–07 to 2007–08			
Rank	State	Value	Per cent	Rank	State	Value	Per cent
1	Maharashtra	80714	27.9	1	Gujarat	40936	27.7
2	Gujarat	58945	20.4	2	Maharashtra	33086	22.4
3	Tamil Nadu	27913	9.6	3	Karnataka	15101	10.2
4	Karnataka	27317	9.4	4	Tamil Nadu	9403	6.4
5	Andhra Pradesh	12906	4.5	5	Andhra Pradesh	7969	5.4
6	Delhi	10063	3.5	6	Uttar Pradesh	5113	3.5
7	West Bengal	9690	3.3	7	West Bengal	4208	2.8
8	Haryana	8206	2.8	8	Rajasthan	3539	2.4
9	Uttar Pradesh	7927	2.7	9	Madhya Pradesh	3479	2.4
10	Rajasthan	6632	2.3	10	Haryana	3468	2.3
11	Orissa	4995	1.7	11	Orissa	2779	1.9
12	Madhya Pradesh	4908	1.7	12	Delhi	2556	1.7
13	Punjab	4746	1.6	13	Punjab	2505	1.7
14	Kerala	4657	1.6	14	Kerala	2457	1.7
15	Goa	2811	1.0	15	Dadra & Nagar Haveli	2208	1.5
				16	Himachal Pradesh	1467	1.0
				17	Uttarakhand	1411	1.0
				18	Jharkhand	1310	0.9
				19	Daman & Diu	1207	0.8
				20	Chhattisgarh	1172	0.8
				21	Bihar	864	0.6
				22	Assam	787	0.5
				23	Jammu & Kashmir	454	0.3
				24	Goa	361	0.2
				25	Pondicherry	45	0.0
					Others	116	0.1
	Others	17063	5.9		Total sample firms' exports	148002	100
	India's total exports	289493	100				

Source: *Economic Surveys 2008–2009 & 2009–10* based on DGCI&S, Government of India; SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010) as indicated in the text.

Given the differences in sectoral coverage, it is natural to observe divergence between export ranking of states based on official statistics and those derive from our estimates. Unlike Maharashtra that tops the merchandise export performance from India in this period, it is Gujarat that has the highest level of exports in manufacturing products. It is apparent that both these Western states are export powerhouse in India together claiming above 48 per cent and 50 per cent respectively of national merchandise and manufacturing exports.

The second category of major state exporters includes three southern Indian states, namely Karnataka, Tamil Nadu and Andhra Pradesh jointly contributing 23.5 per cent of national merchandise exports and 22 per cent of manufacturing exports from India. The official statistics, similar to our estimates on manufacturing exports, suggest that these top five exporting states together account for 72 per cent of exports from India. Clearly, the official and our estimates on state-wise exports, notwithstanding their differences in sectoral coverage, largely led to similar export share of the group of top five exporting states and names of individual members. This perhaps shows that our estimates on state-wise exports are broadly reliable and consistent for larger exporting Indian states.

In what follows the paper discusses broad trends and patterns of manufacturing exports at the state level. The time series data on state level total manufacturing exports and its important components, and IT exports are provided in the Appendix Tables, A1–A16. This data appendix shall be useful for researchers working on the issues of state level export performance in India.

3. Trends and Patterns of State-wise Manufacturing Export

Indian manufacturing exports began rapidly growing since the 1990s as the home country started to seriously implement the policies of economic openness and outward-orientation. The annual average growth rate attained by Indian manufacturing exports was 15 per cent in 1992–99 and it has further accelerated by 25 per cent in 2000–08 (Table-4). It appears that Indian manufacturing firms' desire and ability to participate in world markets were positively affected by the liberalization process. Because of the increased competitive pressures, corporate restructuring and efficiency gain, and improvement in funding opportunity, Indian manufacturing firms found it more worthwhile to expand the geography of their market and business operation. However, not all Indian companies from all Indian states are expected to be similarly affected by these forces. As the decision to exports or not is the result of the interplay of firm-, sector- and location-specific factors, firms response to economic openness is likely to vary over different regions. It then becomes important to explore if recent high growth of Indian manufacturing exports is regionally broad-based or not.

3.1. Regional Trends

The high export growth achieved by Indian manufacturing during the last decade appears to be regionally broad based. In terms of manufacturing export growth during 2000–08, all regions except Central India enjoyed annual average growth rate higher than that attained in the previous decade (i.e., 1990s). West India and East India nearly doubled their annual average export growth rates between these periods and Northeast India has seen its export growth rebounding to 18 per cent reversing the past negative trend. North India and South India continued to experience accelerating growth in their exports in the last two decades. Though the annual average growth rate of exports from Central India declined to 17.5 per cent in 2000–08 from 19.4 per cent in 1992–99, this growth rate is quite strong (Table-4). Therefore, the impressive manufacturing export growth from India in 2000–08 is generally driven by active participation from different sub-regions.

Although the manufacturing export growth is regionally enveloping in India, regions significantly differs in terms of their relative contribution to the national manufacturing exports. Among Indian regions, West India is the largest contributor to the national manufacturing exports with 37.2 per cent share in 1991–95, which has increased consistently over time to about 53 per cent share in 2005–08 (Figure-2, Table-4). It is followed by South and North India respectively accounting for 23.6 per cent and 16.5 per cent of total manufacturing exports from

India in 1991–95. These three regions continued to be ranked as the top three export contributing geographies in India and together their share in India’s national manufacturing exports increased from 77 per cent in 1991–95 to 90 per cent in 2005–08. This indicates that there is considerable regional concentration in Indian manufacturing exports that has only increased over the years.

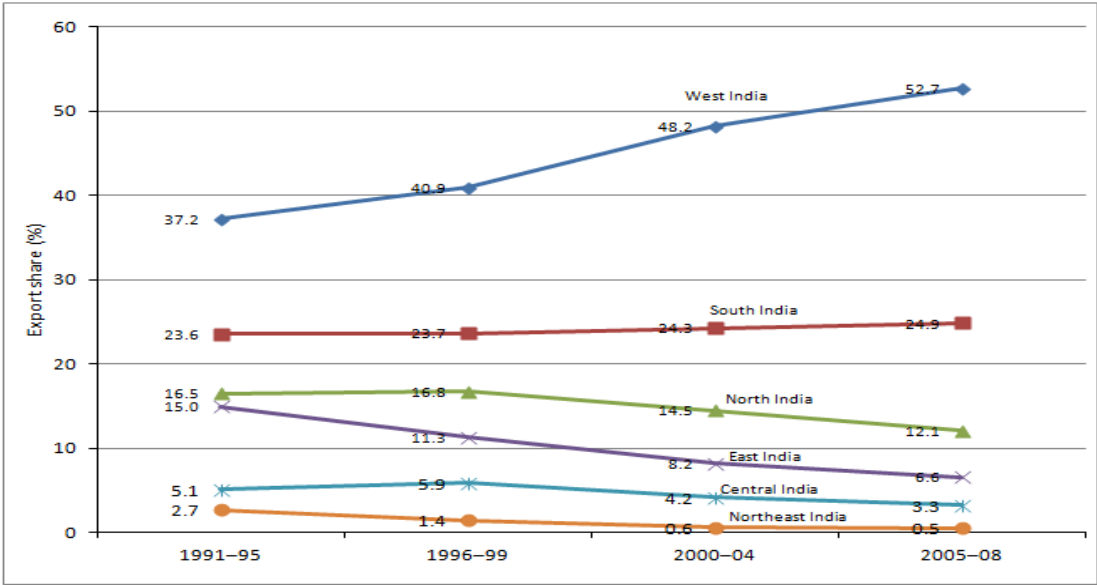
Table-4 Manufacturing Exports by Indian States

Region/state	Manufacturing exports (US\$ billions)				Annual average growth (per cent)	
	1991–95	1996–99	2000–04	2005–08	1992–99	2000–08
Central India	1.54 (5.09)	2.57 (5.90)	3.89 (4.17)	7.49 (3.26)	19.4	17.5
Chhattisgarh	0.24 (0.78)	0.39 (0.89)	0.58 (0.62)	1.63 (0.71)	24.7	31.1
Madhya Pradesh	1.30 (4.31)	2.19 (5.02)	3.31 (3.55)	5.86 (2.55)	19.4	15.3
East India	4.53 (14.97)	4.95 (11.35)	7.65 (8.20)	15.13 (6.58)	7.7	17.4
Bihar	0.67 (2.22)	0.50 (1.15)	0.54 (0.58)	1.25 (0.54)	-1.5	22.1
Jharkhand	0.64 (2.12)	0.69 (1.58)	1.00 (1.08)	2.19 (0.95)	12.5	21.6
Orissa	1.16 (3.84)	1.22 (2.80)	2.43 (2.60)	4.80 (2.09)	6.8	21.8
West Bengal	2.05 (6.78)	2.54 (5.83)	3.67 (3.94)	6.90 (3.00)	10.1	15.1
North India	4.99 (16.50)	7.31 (16.75)	13.51 (14.49)	27.79 (12.09)	14.6	20.6
Delhi	0.07 (0.24)	0.14 (0.32)	0.46 (0.50)	3.77 (1.64)	219.6	99.3
Haryana	1.32 (4.37)	1.74 (4.00)	3.10 (3.33)	5.60 (2.44)	11.8	19.9
Himachal Pradesh	0.28 (0.91)	0.54 (1.24)	1.22 (1.31)	2.39 (1.04)	27.4	21.3
Jammu & Kashmir	0.05 (0.15)	0.11 (0.26)	0.36 (0.39)	0.79 (0.34)	27.6	25.4
Punjab	0.90 (2.97)	1.55 (3.55)	2.74 (2.94)	4.33 (1.89)	18.5	13.7
Uttar Pradesh	1.88 (6.20)	2.53 (5.80)	4.41 (4.73)	8.42 (3.66)	11.6	17.9
Uttarakhand	0.50 (1.64)	0.69 (1.59)	1.14 (1.22)	2.30 (1.00)	16.2	20.2
Northeast India	0.81 (2.67)	0.62 (1.43)	0.58 (0.63)	1.16 (0.50)	-1.5	17.7
Assam	0.81 (2.67)	0.62 (1.43)	0.58 (0.62)	1.14 (0.49)	-1.5	17.4
South India	7.14 (23.58)	10.32 (23.67)	22.65 (24.29)	57.14 (24.85)	19.0	23.8
Andhra Pradesh	1.69 (5.58)	2.53 (5.80)	5.85 (6.28)	12.13 (5.27)	27.6	22.2
Karnataka	1.68 (5.55)	2.11 (4.84)	6.40 (6.86)	24.91 (10.83)	21.8	37.0
Kerala	0.83 (2.75)	0.91 (2.09)	1.62 (1.74)	3.96 (1.72)	10.4	27.1
Pondicherry	0.03 (0.10)	0.09 (0.20)	0.08 (0.09)	0.09 (0.04)	36.0	9.7
Tamil Nadu	2.90 (9.60)	4.68 (10.74)	8.70 (9.33)	16.06 (6.98)	17.3	16.1
West India	11.26 (37.20)	17.83 (40.90)	44.98 (48.23)	121.17 (52.71)	16.2	29.4
Dadra & Nagar Haveli	0.21 (0.68)	0.35 (0.81)	0.85 (0.92)	3.19 (1.39)	33.0	36.5
Daman & Diu	0.07 (0.23)	0.14 (0.32)	0.49 (0.53)	1.63 (0.71)	25.9	38.9
Goa	0.09 (0.29)	0.17 (0.38)	0.38 (0.41)	0.51 (0.22)	27.5	23.6
Gujarat	3.96 (13.08)	6.52 (14.96)	19.02 (20.39)	59.37 (25.82)	17.9	34.4
Maharashtra	6.15 (20.33)	9.43 (21.63)	22.29 (23.90)	51.23 (22.28)	14.8	25.6
Rajasthan	0.78 (2.59)	1.22 (2.79)	1.94 (2.08)	5.26 (2.29)	19.1	24.1
Grand Total	30.26 (100)	43.61 (100)	93.28 (100)	229.89 (100)	14.8	25.0

Note: Percentage share in parentheses.

Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

Figure-2 Regional Distribution of Manufacturing Exports, 1991–95 to 2005–08



Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

The bottom three regions, namely East India, Central India and Northeast India have contributed relatively small shares of national manufacturing exports during 1991–2008 and at the same time their individual shares have declined. The decline of the export share of East India from 15 per cent in 1991–95 to about 7 per cent in 2005–08 is a reflection on relative sliding of this region in the current manufacturing exports from India. It appears that firms located elsewhere have expanded their export activities relatively faster than firms based in East India, Central India and Northeast India leading to increasing disparity in the export contribution of different regions.

3.2. State-Level Trends

Among individual states, Maharashtra dominated the regional export profile throughout 1991–2004 (Table-4). Its share in Indian manufacturing exports consistently remained above 20 per cent mark reflecting, perhaps, its greater attractiveness for export-oriented firms and the effect of a relatively larger and strongly growing local market. The export capacity of the local firms based in Maharashtra appears to have been enhanced by existence of advanced industrial and transportation infrastructure including port facilities.

Gujarat turned out to be India’s second most export contributor in manufacturing after Maharashtra during 1991–2004. In fact the annual average growth rate of manufacturing exports from Gujarat substantially surpassed that from Maharashtra by 3 per cent in the 1990s and 9 per cent in the last decade. This superior export growth rate helped Gujarat to remarkably improve its manufacturing export share from 13 per cent in 1991–95 to 20.4 per cent in 2000–2004. In 2005–2008 Gujarat outperformed Maharashtra to be India’s largest manufacturing exporting state (Table-4). Gujarat represents an interesting case of how a state led by its entrepreneurial culture, business friendly policies and investment in basic infrastructure like roads, ports and power can make a huge difference in local firms’ ability to internationalize.

Given the impressive export performance of firms from Maharashtra and Gujarat, the Western India can be considered as India’s’ most competitive and internationalized manufacturing space. The impressive export performance of the Western region is likely to be continued given the strong emphasis of concerned state governments on industrial clustering and the mega project

like the Delhi Mumbai Industrial Corridor Development aims at creating globally competitive economic base and state-of-the-art infrastructure to promote local firms and attract foreign investments.

Tamil Nadu emerged as the third largest exporting state in manufacturing during 1991–2004. The share of Tamil Nadu in total manufacturing exports from India was around 10 per cent in the 1990s, which has subsequently fallen to 9 per cent in 2000–2004 and then to 7 per cent in 2005–2008. Tamil Nadu, similar to its peer exporting states like Maharashtra and Gujarat is a rapidly industrializing state of India and boast a fastest growing economy, proactive industrial policies, good base of human capital and decent infrastructural facilities including ports. These factors appear to be fostering firms' competitiveness and export activities in Tamil Nadu.

In the early 1990s, other important manufacturing exporting states include West Bengal (6.8 per cent), Uttar Pradesh (6.2 per cent), Andhra Pradesh (5.6 per cent) and Karnataka (5.6 per cent). Among these four states, the first two states had seen consistent decline in their export shares to be half in 2005–2008 as compared to their levels in 1991-95 (Table-4). West Bengal demonstrates the case of what an unfriendly political and public policy regime towards capital can do to firms' growth and internationalization. Once an industrial center of the country in the 1950s–60s, West Bengal suffered a long-term industrial decline under an unfriendly political regime and militant trade unionism. The contribution of manufacturing sector in the state value-added plunged with the existing businesses either departed from the state or remained stagnated and new investments have shied away. Lack of business enabling environment, labour unrest and poor physical infrastructure paved the way for West Bengal's declining role in national manufacturing exports. The declining export share of Uttar Pradesh in the last two decades testify the exporting limitations of a state that has been besieged by sluggish economic growth and lagged significantly behind other Indian states in terms of levels of economic development and physical and social infrastructure.

Both the Southern states, namely Andhra Pradesh and Karnataka emerged as other important sources of manufacturing exports from India. Relatively faster growth of firms' export activities from these states appears to have closer links with their faster industrial growth, business friendly environments, cordial employer-labour relations, improvements in infrastructure, and availability of skilled manpower. While there was a marginal slowdown in export growth from Andhra Pradesh between 1992–1999 and 2000–2008, Karnataka achieved significantly accelerating growth (Table-4). In fact, Karnataka emerged as the third largest exporter in manufacturing in 2005–08 thanks to her proactive strategy to encourage foreign trade by her firms (Pradhan, et. al., 2012).

3.3. Sectoral Patterns of State Manufacturing Exports

The regional manufacturing exports from India tend to be epitomized by a much skewed sectoral contribution. The share of top five exporting sectors in total manufacturing exports from West India, South India, and North India remained above 65 per cent in 1991–99 and the same for East India and Central India was 86 per cent and 77 per cent respectively (Table-5). While this ratio remained largely the same for South India and East India between 1991–99 and 2000–08 or marginally fallen for North India, it has increased substantially for West India from 65.5 per cent to 78.8 per cent.

The sectoral structure of state-level exports also confirmed that regional manufacturing exports growth from India is dominated by a small group of exporting sectors. Indeed, during the period

2000–08, about 11 sub-national entities (Bihar, Chhattisgarh, Delhi, Assam, Jharkhand, Jammu & Kashmir, Orissa and Pondicherry) were found to have derived more than 90 per cent of their manufacturing exports from their top five exporting sectors. The share of top five sectors lies in the range of 80–89 per cent for another 9 Indian states including UTs.

Is this highly concentrated sectoral pattern of manufacturing exports from India a cause of concern? Traditional literature would advise developing countries against excessive dependence on a few sectors for export performance. This is because a diversified export profile is driven by a broadening of the production specialization away from primary commodities and it tends to reduce instability in export earnings, and promote higher economic growth (Hamid, 2010; Hesse, 2008; ESCAP, 2004, Asheghian and Saidi, 1999).

However, there exists an alternative view that exports dominated by high technology products reflecting a country's specialization in more technology-intensive sectors may in fact be desirable policy objective. For example, Porter (1990) argued that a country's "firms must also develop the capabilities required to compete in more and more sophisticated industry segments, where productivity is generally higher" pp. 6. These technology-intensive sectors have higher technological opportunities, higher value added and generate knowledge spillovers in the economy for productivity growth (Guerrieri and Milana, 1995).

In the above backdrop, therefore, the study proceeds to examine about the technological character of the export basket of Indian states. Table-5 summarizes the technological structure of exports measured as the share of high technology products in total manufacturing exports across Indian states/UTs. It is clear that there are substantial inter-state differences in the technological structure of manufacturing exports. For states like Jammu & Kashmir, Daman & Diu, Himachal Pradesh, Uttarakhand and Goa, high technology products accounted for largest share of their manufacturing exports in the period 2000–08. High technology product share in manufacturing exports of these states vary in the range of 82 per cent to 53 per cent. Chhattisgarh, Orissa, Assam, Bihar and Delhi remain at the bottom of the scale with least shares in the said period.

The special policy pursued by the central government in the form of exemptions from excise duty and concessional income tax for economically backward and hilly areas like Himachal Pradesh, Uttarakhand and Jammu and Kashmir appear to have immensely benefited these states. As a result of these policies, large scale relocation of manufacturing facilities by technology-intensive firms from pharmaceuticals, chemicals, electrical & optical equipment and transport equipment into respective states took place.

Table-5 States' Manufacturing Exports by Sector

Region/state	1991–99		2000–08		Technology-based classification					
	Top five exporting sectors	Share of top five	Top five exporting sectors	Share of top five	1991–99			2000–08		
					High-tech.	Medium-tech.	Low-tech.	High-tech.	Medium-tech.	Low-tech.
Central India	Metals (19.5); Pharma. (10.1); Food. (21.8); Oth. non-metal. miner. (10.0); Textil. (15.2)	76.6	Metals (30.6); Pharma. (19.1); Food. (11.1); Oth. non-metal. miner. (8.5); Textil. (10.4)	79.7	26.3	34.0	39.8	33.9	43.0	23.1
Chhattisgarh	Metals (71.9); Petro. (2.0); Divers. (2.7); Oth. non-metal. miner. (10.3); Textil. (12.3)	99.1	Metals (79.5); Petro. (2.0); Divers. (3.9); Oth. non-metal. miner. (11.2); Textil. (2.4)	99.0	0.6	84.2	15.2	0.7	92.7	6.6
Madhya Pradesh	Metals (10.1); Pharma. (11.9); Food. (25.7); Oth. non-metal. miner. (9.9); Textil. (15.7)	73.4	Metals (18.8); Pharma. (23.7); Food. (13.8); Oth. non-metal. miner. (7.9); Textil. (12.3)	76.4	30.9	25.0	44.2	41.8	31.1	27.1
East India	Metals (39.7); Petro. (16.9); Food. (14.9); Textil. (11.1); Trans. equip. (3.7)	86.3	Metals (49.0); Chem. (12.3); Petro. (10.7); Food. (7.9); Textil. (6.3)	86.1	9.9	60.6	29.6	18.4	62.9	18.6
Bihar	Petro. (66.4); Food. (27.5); Leath. (1.5); Oth. non-metal. miner. (2.5); Textil. (1.5)	99.4	Petro. (61.2); Pharma. (2.3); Food. (29.7); Oth. non-metal. miner. (3.4); Textil. (2.3)	98.9	0.3	69.1	30.6	2.3	64.6	33.1
Jharkhand	Metals (70.5); Chem. (1.8); Elec. & optic. equip. (2.6); Machi. & equip. (1.8); Trans. equip. (22.3)	98.8	Metals (68.3); Chem. (0.9); Machi. & equip. (6.2); Oth. non-metal. miner. (0.9); Trans. equip. (23.0)	99.3	28.3	71.3	0.4	30.7	69.2	0.1
Orissa	Metals (89.0); Divers. (0.5); Food. (3.8); Oth. non-metal. miner. (3.7); Pulp & paper (1.2)	98.2	Metals (90.3); Food. (1.9); Oth. mfg. (1.6); Oth. non-metal. miner. (2.8); Pulp & paper (1.2)	97.8	0.9	93.2	6.0	1.3	93.7	5.0
West Bengal	Metals (15.3); Chem. (6.9); Petro. (17.8); Food. (21.7); Textil. (22.6)	84.2	Metals (23.2); Chem. (25.9); Petro. (12.5); Food. (10.7); Textil. (13.0)	85.3	11.6	38.4	50.0	29.1	39.7	31.1
North India	Petro. (14.2); Elec. & optic. equip. (7.8); Food. (7.4); Textil. (17.0); Trans. equip. (18.7)	65.2	Metals (9.8); Pharma. (11.6); Elec. & optic. equip. (10.5); Textil. (15.4); Trans. equip. (13.5)	60.8	42.1	26.4	31.5	44.4	20.2	35.5
Delhi	Elec. & optic. equip. (14.6); Leath. (31.7); Publish. (3.0); Textil. (33.1); Trans. equip. (16.4)	98.9	Food. (5.2); Oth. mfg. (62.0); Publish. (3.0); Textil. (20.1); Trans. equip. (4.6)	95.0	31.2	0.0	68.8	8.7	0.1	91.1
Haryana	Metals (4.6); Petro. (25.4); Elec. & optic. equip. (10.5); Textil. (6.8); Trans. equip. (34.5)	81.7	Metals (20.8); Petro. (12.6); Food. (10.3); Textil. (10.1); Trans. equip. (26.6)	80.4	51.5	34.1	14.4	40.0	36.3	23.6
Himachal Pradesh	Chem. (10.9); Pharma. (38.1); Elec. & optic. equip. (8.5); Leath. (4.2); Textil. (26.4)	88.1	Chem. (6.4); Pharma. (59.3); Elec. & optic. equip. (6.9); Textil. (14.6); Trans. equip. (4.0)	91.2	61.2	5.7	33.1	77.7	4.0	18.3
Jammu & Kashmir	Chem. (74.1); Pharma. (4.1); Food. (6.6); Machi. & equip. (1.2); Rub. & plas. (12.4)	98.5	Chem. (45.1); Pharma. (34.9); Food. (7.9); Machi. & equip. (1.4); Rub. & plas. (9.4)	98.6	79.9	12.4	7.7	81.6	9.5	9.0
Punjab	Chem. (7.8); Petro. (7.9); Pharma. (13.5); Textil. (41.4); Trans. equip. (8.2)	78.9	Metals (5.3); Chem. (6.4); Petro. (3.9); Pharma. (25.5); Textil. (42.1)	83.1	33.5	13.7	52.8	39.6	12.9	47.5
Uttar Pradesh	Petro. (17.7); Food. (10.8); Rub. & plas. (9.9); Textil. (11.9); Trans. equip. (19.8)	70.2	Metals (12.5); Petro. (8.6); Elec. & optic. equip. (20.7); Food. (10.9); Trans. equip. (16.7)	69.3	34.5	33.7	31.8	45.5	26.0	28.5
Uttarakhand	Elec. & optic. equip. (16.6); Food. (13.2); Machi. & equip. (14.2); Oth. non-metal. miner. (15.0); Rub. & plas. (10.9)	70.0	Elec. & optic. equip. (16.8); Machi. & equip. (13.9); Oth. mfg. (12.4); Rub. & plas. (9.2); Trans. equip. (15.8)	68.0	47.4	26.2	26.5	60.5	13.9	25.6

Northeast India	Petro. (54.8); Food. (40.2); Pulp & paper (0.8); Textil. (2.1); Wood (1.0)	98.9	Metals (2.2); Chem. (1.8); Petro. (63.2); Food. (27.1); Textil. (3.5)	97.8	0.9	55.0	44.1	1.9	65.9	32.2
Assam	Petro. (54.9); Food. (40.3); Pulp & paper (0.8); Textil. (2.1); Wood (0.9)	98.9	Metals (1.4); Chem. (1.8); Petro. (64.0); Food. (27.5); Textil. (3.5)	98.3	0.9	55.0	44.1	2.0	65.8	32.2
South India	Metals (10.6); Chem. (8.0); Pharma. (7.9); Food. (16.6); Textil. (22.2)	65.3	Metals (13.0); Petro. (20.2); Pharma. (11.6); Food. (11.4); Textil. (9.7)	66.0	30.7	20.4	49.0	30.1	36.8	33.0
Andhra Pradesh	Metals (24.8); Chem. (5.5); Pharma. (20.7); Food. (20.9); Textil. (8.2)	80.1	Metals (15.5); Chem. (4.4); Petro. (15.8); Pharma. (32.6); Food. (14.0)	82.2	32.3	32.1	35.6	42.7	34.7	22.6
Karnataka	Metals (10.6); Elec. & optic. equip. (9.4); Food. (19.0); Leath. (7.2); Textil. (15.4)	61.6	Petro. (34.6); Pharma. (5.4); Food. (12.6); Oth. mfg. (20.8); Textil. (7.2)	80.6	28.6	22.4	49.0	16.2	42.1	41.7
Kerala	Chem. (8.1); Petro. (18.4); Food. (37.5); Oth. mfg. (8.4); Textil. (14.6)	87.0	Metals (12.5); Chem. (9.8); Petro. (40.1); Food. (12.0); Textil. (8.9)	83.4	13.1	25.9	61.0	15.8	56.6	27.5
Pondicherry	Elec. & optic. equip. (29.8); Food. (22.1); Oth. non-metal. miner. (10.1); Rub. & plas. (9.6); Textil. (22.9)	94.5	Chem. (8.2); Elec. & optic. equip. (13.4); Oth. non-metal. miner. (26.0); Rub. & plas. (38.4); Textil. (10.5)	96.6	33.2	19.6	47.2	21.8	64.4	13.8
Tamil Nadu	Chem. (11.9); Food. (8.0); Machi. & equip. (6.9); Textil. (35.1); Trans. equip. (7.8)	69.8	Metals (21.4); Chem. (7.7); Food. (7.9); Textil. (17.2); Trans. equip. (18.5)	72.8	34.8	11.6	53.6	41.9	27.1	31.0
West India	Metals (11.6); Chem. (20.4); Pharma. (6.4); Oth. mfg. (11.4); Textil. (15.6)	65.5	Metals (16.1); Chem. (10.3); Petro. (37.8); Oth. mfg. (8.9); Textil. (5.7)	78.8	39.9	25.0	35.1	23.9	58.0	18.1
Dadra & Nagar Haveli	Metals (17.9); Chem. (27.0); Divers. (14.1); Pharma. (6.8); Rub. & plas. (11.8)	77.6	Metals (39.7); Chem. (11.3); Elec. & optic. equip. (6.9); Rub. & plas. (7.8); Textil. (15.6)	81.3	43.3	33.1	23.6	29.6	49.1	21.3
Daman & Diu	Chem. (9.9); Pharma. (18.7); Machi. & equip. (35.1); Rub. & plas. (10.6); Textil. (11.6)	86.0	Metals (5.0); Chem. (18.1); Pharma. (15.3); Machi. & equip. (45.8); Textil. (7.2)	91.3	65.9	12.5	21.6	80.8	9.5	9.6
Goa	Divers. (15.0); Elec. & optic. equip. (17.1); Food. (18.2); Machi. & equip. (14.6); Rub. & plas. (17.8)	82.7	Divers. (18.3); Pharma. (22.9); Elec. & optic. equip. (24.7); Food. (6.8); Rub. & plas. (13.6)	86.2	43.2	23.0	33.7	52.5	22.4	25.0
Gujarat	Metals (10.1); Chem. (21.9); Petro. (11.3); Oth. mfg. (15.4); Textil. (16.5)	75.2	Metals (10.3); Chem. (10.3); Petro. (55.8); Oth. mfg. (7.8); Textil. (4.6)	88.7	34.0	29.1	36.9	16.6	68.8	14.5
Maharashtra	Metals (13.5); Chem. (20.0); Pharma. (7.2); Oth. mfg. (9.8); Textil. (15.2)	65.7	Metals (20.7); Chem. (9.8); Petro. (25.8); Pharma. (5.6); Oth. mfg. (11.1)	73.1	44.3	23.1	32.6	28.9	50.9	20.1
Rajasthan	Chem. (16.6); Divers. (9.6); Food. (12.0); Textil. (19.6); Trans. equip. (9.2)	67.0	Metals (24.7); Chem. (13.7); Oth. mfg. (7.7); Rub. & plas. (9.1); Textil. (20.7)	75.7	32.7	16.7	50.6	27.9	35.6	36.5
Grand Total	Metals (13.7); Chem. (11.7); Petro. (8.5); Food. (10.9); Textil. (16.6)	61.4	Metals (17.3); Chem. (8.2); Petro. (26.3); Oth. mfg. (8.2); Textil. (8.1)	68.2	32.7	29.8	37.5	27.9	47.8	24.3

Note: Percentage share in parentheses; High-tech. - pharmaceuticals, electrical & optical equipment, transport equipment, chemicals, machinery and equipment; Medium-tech. - coke and refined petroleum products, rubber and plastic products, other non-metallic mineral products, basic metal and metal products; Low-tech. - other manufacturing, diversified, pulp and paper products, publishing and printing, textiles and textile products, Food including beverages and tobacco, wood and wood products, leather and leather products.

Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

It may also be noted that the technological structure of Indian states may not necessarily be related to the volume of their export activities. There is hardly any correspondence between the major states with predominantly high technology export basket and top ranking highest export contributing states like Maharashtra, Gujarat, Andhra Pradesh and Karnataka. In 2000–08, high technology products comprises of just 29 per cent, 17 per cent, 43 per cent, and 16 per cent of total manufacturing exports of these top exporting Indian states respectively.

In a worrying trend the share of high technology products in total manufacturing exports for India declined by 5 percentage points from 33 per cent in 1991–99 to 28 per cent in 2000–08 (Table-5). This decline in the share of high technology exports at the national level is largely due to the sharpest decline of the ratio in the case of West India. Between 1991–99 and 2000–08, significant decrease in the share of high technology exports can be noticed for Delhi (-72 per cent) followed by Gujarat (-51 per cent), Karnataka (-43 per cent), and Maharashtra (-35 per cent). More than half of the manufacturing exports from Maharashtra and Gujarat in 2000–08 took place in the form of medium-technology products like coke & petroleum products and metals. It may indicate that Maharashtra and Gujarat, despite contributing largest share of India's exports, are specializing more in the exports of medium technology products than exporting high technology products.

4. Trends of State-wise IT Export

Similar to the manufacturing exports, India's IT export also characterizes the dominance of a few regions and a few states. More than 80 per cent of IT exports actually originated from just two regions, namely West India and South India during the study period. Notwithstanding the presence of Bangalore – India's IT hub, Karnataka has been observed to be slowly losing ground to other states in terms of IT export share. Its share in IT exports has fallen marginally from 18 per cent in 1991–95 to about 15 per cent in 2005–08 (Table-6). Among individual states, Maharashtra recorded the highest IT export share at 39 per cent in 2005–08, followed by Tamil Nadu with 20 per cent. In terms of growth rate of IT exports too Maharashtra and Tamil Nadu outperformed Karnataka in both the sub-periods 1992–99 and 2000–08. Other Indian states that showed an improved export shares includes Kerala and Uttar Pradesh.

Table-6 State-wise IT Exports from India

Region/state	Software exports (US\$ millions)				Annual average growth (per cent)	
	1991–95	1996–99	2000–04	2005–08	1992–99	2000–08
Central India	0.0 (0.0)	0.7 (0.0)	2.9 (0.0)	0.3 (0.0)		-9.9
Madhya Pradesh	0.0 (0.0)	0.7 (0.0)	2.9 (0.0)	0.3 (0.0)		-9.9
East India	21.3 (5.0)	83.4 (4.0)	679.2 (3.9)	1688.9 (3.0)	67.0	37.5
Orissa	2.0 (0.5)	30.7 (1.5)	317.7 (1.8)	837.2 (1.5)		40.3
West Bengal	19.3 (4.5)	52.7 (2.5)	361.4 (2.1)	851.7 (1.5)	58.5	36.2
North India	29.5 (6.9)	217.0 (10.4)	2934.7 (16.8)	6281.5 (11.0)	102.4	44.2
Chandigarh	0.0 (0.0)	0.6 (0.0)	10.4 (0.1)	23.9 (0.0)		57.6
Delhi	12.6 (2.9)	85.6 (4.1)	1345.0 (7.7)	1446.0 (2.5)	103.7	64.4
Haryana	(0.0)	12.8 (0.6)	442.2 (2.5)	1309.9 (2.3)		90.7
Himachal Pradesh	8.0 (1.9)	62.7 (3.0)	415.7 (2.4)	1307.9 (2.3)	98.8	39.7
Punjab	0.0 (0.0)	0.1 (0.0)	1.6 (0.0)	(0.0)		
Uttar Pradesh	8.8 (2.1)	55.2 (2.7)	711.7 (4.1)	2170.3 (3.8)	142.1	48.1

Uttarakhand			8.1 (0.0)	23.5 (0.0)		19.3
South India	160.9 (37.5)	973.1 (46.8)	9336.8 (53.3)	26886.2 (47.0)	70.2	42.4
Andhra Pradesh	21.9 (5.1)	105.8 (5.1)	762.4 (4.4)	2304.5 (4.0)	41.8	39.0
Karnataka	78.2 (18.2)	401.4 (19.3)	2945.7 (16.8)	8290.6 (14.5)	56.2	36.9
Kerala	13.7 (3.2)	109.7 (5.3)	1419.7 (8.1)	4822.2 (8.4)	88.9	47.6
Tamil Nadu	47.1 (11.0)	356.2 (17.1)	4209.0 (24.0)	11468.9 (20.0)	91.5	48.7
West India	217.8 (50.7)	805.5 (38.7)	4563.2 (26.1)	22380.9 (39.1)	37.3	45.7
Dadra & Nagar Haveli	0.2 (0.0)	17.8 (0.9)	74.3 (0.4)	83.4 (0.1)		13.8
Goa	100.2 (23.3)	173.6 (8.3)	304.0 (1.7)	104.9 (0.2)	16.7	-14.5
Gujarat		4.1 (0.2)	17.4 (0.1)	22.6 (0.0)		906.7
Maharashtra	117.3 (27.3)	608.8 (29.3)	4141.2 (23.6)	22160.9 (38.7)	59.3	49.9
Rajasthan		1.2 (0.1)	26.4 (0.2)	9.1 (0.0)		34.5
Grand Total	429.6 (100)	2079.6 (100)	17516.7 (100)	57237.8 (100)	48.6	41.7

Note: Percentage share in parentheses.

Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

5. Conclusions

India is passing through a remarkable phase of global integration with rapid expansion of her trade in the last two decades. The recent liberalization and openness policies have led to faster internationalization activities of Indian firms as reflected in the rapid growth of their exports. However, one is at a loss if he is interested to understand how sub-national entities are connected to this Indian export boom, simply due to the absence of suitable dataset.

This study summarized the regional origin of India's manufacturing and IT exports. Based on a unique locational database and using a reasonable method, it presented state-wise export series for 18 year period since 1991.

The findings broadly suggest that the manufacturing and IT exports are subjected by a significant inter-regional and inter-state variation. The geographical distribution of exports yields a significantly concentrated pattern with states like Gujarat and Maharashtra dominating in manufacturing products while Maharashtra, Tamil Nadu and Karnataka accounting for largest share in IT services. However, Indian states with low export shares are found to have more technology-intensive structure of manufacturing exports than leading exporting states.

Reference

- Aggarwal, A. (2002) 'Liberalisation, Multinational Enterprises and Export Performance: Evidence from Indian Manufacturing', *Journal of Development Studies*, 38 (3), pp. 119–137.
- Asheghian, P. and R. Saidi (1999), 'Commodity Concentration and Export Earning Instability: The Case of Venezuela', *Development Policy Review*, 17(4), pp. 419–427.
- Bhavani, T.A. and S.D. Tendulkar (2001) 'Determinants of Firm-level Export Performance: A Case Study of Indian Textile Garments and Apparel Industry', *Journal of International Trade & Economic Development*, 10 (1), pp. 65–92.
- Chandra, R. (2003), 'Reinvestigating Export-led Growth in India Using a Multivariate Cointegration Framework', *Journal of Developing Areas*, 37 (1), pp. 73–86.

- Chaudhuri, B.R. and D. Chakraborty (2010), 'Export Potential at the State-Level: A Case Study of Karnataka, *IIFT Working Paper*, No. EC-10-02, New Delhi: Indian Institute of Foreign Trade.
- ESCAP (2004), 'Export Diversification and Economic Growth: The Experience of Selected Least Developed Countries', *Development Paper*, No. 24, Economic and Social Commission for Asia and the Pacific, New York: United Nations.
- Government of Gujarat (2009), *Industrial Policy – 2009*, Gandhinagar: GoG.
- Government of Maharashtra (2001), *Maharashtra Industrial Policy 2001*, Mumbai: GoM.
- Government of Tamil Nadu (2003), *Tamil Nadu New Industrial Policy 2003*, Chennai: GoTN.
- Guerrieri, P. and C. Milana (1995), 'Changes and Trends in the World Trade in High-technology Products', *Cambridge Journal of Economics*, 19(1), pp. 225–242.
- Hamid, Z. (2010), 'Concentration of Exports and Patterns of Trade: A Time-Series Evidence of Malaysia', *The Journal of Developing Areas*, 43(2), pp. 255–270.
- Hesse, H. (2008), 'Export Diversification and Economic Growth', *Working Paper*, No. 21, Commission on Growth and Development, Washington, D.C.: The World Bank.
- Hosamane, M.D. and S. Bisaliah (2006), 'Export Performance of India During Post-Reform Period: Constant Market Share Analysis', *Indian Journal of Economics and Business*, 5 (1), pp. 67–77.
- Kumar, N. and J. P. Pradhan (2007), 'Knowledge-Based Exports from India: A Firm-level Analysis of Determinants', in Nagesh Kumar and KJ Joseph (eds.) *International Competitiveness & Knowledge-based Industries*, pp. 53–96, New Delhi: Oxford University Press.
- Lall, S. (1999) 'India's Manufactured Exports: Comparative Structure and Prospects', *World Development*, 27(10), pp.1769–1786.
- Marjit, S. and S. Kar (2008), *Regional Trade Openness Index, Income Disparity and Poverty: An Experiment with Indian Data*, Jaipur, India: CUTS International.
- Pradhan, J. P., M. Zohair and M.V. Alagawadi (2012), 'Regional Policies, Firm Characteristics, and Exporting in the Indian State of Karnataka' (with), *MPRA Paper* No. 40717, 2012, University of Munich Library, Germany.
- Pradhan, J.P. and P.P. Sahu (2008), *Transnationalization of Indian Pharmaceutical SMEs*, New Delhi: Bookwell Publisher.
- Roy, S .S. (2007), 'Demand and Supply Factors in the Determination of India's Disaggregated Manufactured Exports: A Simultaneous Error-Correction Approach', *CDS Working Paper*, No. 383, Trivandrum: Centre for Development Studies.
- Siddharthan, N.S. and S. Nollen (2004) 'MNE Affiliation, Firm Size and Exports Revisited: A Study of Information Technology Firms in India', *Journal of Development Studies*, 40(6), pp. 146–168.
- Singh, N. (2001), 'Trade Intensities Over a Liberalization Phase: The Influence of Firm Size, Foreign Ownership, and Technological Inputs in Indian Pharmaceuticals', in A. Guha, K.L. Krishna and A. Lahiri (eds.), *Trade and Industry: Essays by NIPFP-Ford Foundation Fellows*, pp. 27–64, New Delhi: Vikas.

Appendix

Table-A1 Manufacturing Exports by Indian States, 1991–2008, US\$ million.

Region/state	Manufacturing exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	165.2	219.7	266.9	430.6	457.4	618.5	704.1	652.2	599.1	660.9	648.4	716.4	834.6	1033.8	1307.7	1533.7	2217.0	2434.2
Chhattisgarh	20.9	23.6	35.6	73.6	83.0	76.3	100.5	130.9	79.2	103.9	85.0	92.5	109.7	190.7	212.7	243.0	568.4	603.8
Madhya Pradesh	144.3	196.2	231.4	356.9	374.4	542.2	603.6	521.3	519.9	557.1	563.5	623.8	724.9	843.1	1095.0	1290.7	1648.6	1830.4
East India	659.0	780.3	911.9	1070.9	1106.4	1176.3	1320.5	1297.9	1153.9	1224.4	1322.9	1233.7	1625.8	2240.1	2640.7	3333.4	4764.7	4395.7
Bihar	117.3	133.1	145.6	150.9	124.2	133.6	148.7	121.8	95.4	91.0	122.1	117.6	93.4	120.7	159.3	227.8	441.3	422.2
Jharkhand	67.3	99.9	121.6	168.8	185.3	158.2	181.7	209.3	138.2	160.1	148.2	127.1	232.2	335.7	413.8	469.0	708.9	601.0
Orissa	165.5	202.9	247.2	260.1	287.4	299.7	333.8	322.1	265.5	370.4	419.6	365.2	560.5	710.2	968.4	1048.0	1418.6	1360.6
West Bengal	308.8	344.4	397.5	491.1	509.5	584.8	656.3	644.7	654.8	602.9	632.9	623.9	739.7	1073.5	1099.2	1588.6	2195.9	2011.9
North India	650.8	894.7	906.3	1170.6	1370.7	1712.8	1932.5	1839.2	1821.1	1963.6	2242.9	2538.4	2910.6	3857.3	4987.1	5733.6	7480.1	9594.2
Delhi	0.4	4.3	16.7	45.7	6.6	19.2	13.9	44.4	60.5	70.1	91.2	108.0	86.8	108.6	416.4	796.3	363.2	2193.0
Haryana	177.2	264.3	251.4	289.1	339.9	447.9	506.7	411.9	377.6	381.5	466.3	649.0	694.9	911.4	1054.4	1075.6	1758.8	1709.5
Himachal Pradesh	24.9	42.3	44.1	74.6	89.7	111.3	129.1	151.5	148.0	174.5	184.3	208.4	258.8	393.0	441.4	485.1	674.4	792.1
Jammu & Kashmir	5.6	7.4	7.0	9.7	16.9	19.3	28.3	29.7	34.3	41.0	62.9	66.3	73.1	120.2	148.5	183.4	214.2	239.9
Punjab	117.3	169.6	157.1	204.5	250.9	323.1	394.8	407.1	421.6	445.6	473.1	463.9	623.9	738.1	898.6	929.6	1246.5	1258.9
Uttar Pradesh	270.5	328.1	325.4	426.6	525.1	601.8	679.7	627.6	618.9	680.6	765.9	807.2	905.7	1247.9	1543.6	1764.5	2537.8	2575.6
Uttarakhand	53.4	77.6	103.9	119.8	141.4	188.9	178.5	165.7	159.2	169.8	198.1	232.4	236.3	303.2	435.9	452.1	627.8	783.5
Northeast India	152.7	164.7	171.9	164.1	153.7	176.1	176.9	141.1	130.1	116.0	130.7	119.8	91.4	126.6	147.7	207.1	407.7	395.1
Assam	152.7	164.7	171.9	164.1	153.7	175.9	176.8	140.7	129.4	115.5	130.3	119.3	90.8	125.8	146.0	203.8	404.1	382.4
South India	746.2	980.2	1185.4	1851.5	2371.7	2516.5	2427.3	2619.8	2757.1	2862.8	3774.8	3795.4	5098.3	7122.6	9643.9	12519.2	17734.7	17241.1
Andhra Pradesh	133.1	190.0	277.1	494.5	592.5	674.1	468.7	658.8	727.3	796.9	972.5	1064.7	1413.7	1606.9	1825.8	2330.7	3937.1	4032.0
Karnataka	144.4	234.7	275.1	465.6	561.0	505.6	493.2	529.2	581.1	572.3	859.5	870.0	1320.2	2775.8	4044.2	5760.1	7378.5	7722.9
Kerala	102.6	114.1	143.9	213.1	257.6	227.1	250.1	233.5	199.5	211.3	384.3	256.0	350.9	417.0	700.0	806.6	1270.8	1186.5
Pondicherry	2.8	2.8	4.3	6.0	13.9	29.1	32.0	12.9	13.2	11.2	12.6	16.0	23.8	16.8	23.1	18.0	22.2	23.1
Tamil Nadu	363.3	438.5	485.0	671.2	945.7	1080.0	1182.3	1184.6	1235.9	1271.1	1545.9	1588.6	1989.6	2306.1	3050.7	3603.9	5126.2	4276.6
West India	1522.7	1703.7	1911.9	2596.5	3522.5	4140.3	4135.2	4701.9	4856.2	5719.3	7841.4	7616.4	10577.7	13229.0	18361.9	21475.1	36281.5	45055.8
Dadra & Nagar Haveli	13.7	28.9	36.0	49.0	79.0	94.6	66.9	104.0	87.9	93.0	160.9	140.1	187.6	272.4	403.9	573.8	1065.8	1142.1

Daman & Diu	8.7	8.5	9.1	18.0	24.7	22.3	34.2	40.0	42.6	55.3	65.5	93.3	125.4	155.5	188.6	232.4	507.1	699.9
Goa	12.2	14.7	17.1	19.6	23.5	29.3	35.1	33.1	69.4	61.0	36.0	80.1	86.9	113.9	65.1	85.9	152.1	209.2
Gujarat	531.8	549.1	628.6	997.8	1249.4	1475.3	1477.2	1732.5	1837.8	2364.9	3565.1	3357.9	4374.0	5358.8	8347.0	10083.2	17679.7	23256.3
Maharashtra	873.9	999.5	1094.5	1310.0	1875.3	2223.1	2214.9	2479.3	2516.8	2854.2	3676.8	3631.3	5365.4	6765.9	8624.4	9514.6	15033.7	18052.6
Rajasthan	82.4	103.0	126.6	202.0	270.6	295.7	307.0	313.0	301.7	290.9	337.1	313.7	438.5	562.5	732.9	985.3	1843.1	1695.8
Grand Total	3896.5	4743.4	5354.3	7284.2	8982.5	10340.6	10696.5	11252.1	11317.4	12547.1	15961.2	16020.0	21138.4	27609.3	37089.0	44802.1	68885.7	79116.2

Note: Grand total and sub-regional total also include exports of a few firms based in Chandigarh, Nagaland, Arunachal Pradesh, Andaman & Nicobar Islands and Meghalaya.

Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

Table-A2 IT Exports by Indian States, 1991–2008, US\$ million.

Region/state	IT exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India				0.0				0.3	0.4	1.0	0.6	0.6	0.4	0.3	0.3	0.0	0.0	0.0
Madhya Pradesh				0.0				0.3	0.4	1.0	0.6	0.6	0.4	0.3	0.3	0.0	0.0	0.0
East India	1.5	2.0	3.8	6.2	7.8	11.2	15.8	20.9	35.5	68.0	110.5	132.0	153.0	215.6	313.7	401.5	430.6	543.0
Orissa				0.5	1.5	2.9	4.5	8.0	15.3	26.1	43.8	66.0	80.3	101.5	137.8	170.2	228.7	300.5
West Bengal	1.5	2.0	3.8	5.7	6.3	8.2	11.4	12.9	20.2	41.9	66.7	66.0	72.7	114.1	175.9	231.3	201.9	242.5
North India	0.8	0.9	2.1	3.8	21.8	30.3	35.0	48.9	102.9	176.5	278.5	399.5	834.5	1245.7	1177.7	1119.8	2093.9	1890.1
Chandigarh				0.0				0.3	0.3	0.4	0.6	2.7	2.7	4.0	5.0	6.1	7.6	5.1
Delhi			1.0	2.1	9.5	13.0	16.9	20.2	35.4	48.2	59.0	67.0	438.0	732.9	483.8	399.5	525.1	37.7
Haryana						0.2	0.0	5.0	7.6	42.2	66.3	98.5	100.9	134.3	177.7	160.2	465.2	506.8
Himachal Pradesh	0.5	0.6	0.5	0.7	5.7	8.8	13.0	16.3	24.6	38.0	62.4	76.9	100.6	137.7	198.3	254.4	373.4	481.9
Punjab									0.1	0.2	0.8	0.1	0.6					
Uttar Pradesh	0.3	0.3	0.6	1.0	6.6	8.3	5.1	7.1	34.7	47.5	89.5	152.0	189.4	233.3	308.3	293.4	715.1	853.5
Uttarakhand												2.1	2.3	3.6	4.7	6.1	7.6	5.1
South India	6.6	17.9	22.5	38.7	75.1	108.5	154.4	268.6	441.6	786.0	1514.2	1776.3	2328.2	2932.0	4118.1	5346.9	8179.4	9241.9
Andhra Pradesh		7.4	4.7	3.4	6.4	11.3	17.0	27.8	49.7	71.8	131.0	167.2	198.3	194.1	353.1	463.7	671.1	816.6
Karnataka	5.7	8.1	12.6	17.0	34.8	47.6	57.9	111.5	184.4	253.6	456.3	565.9	721.3	948.6	1227.3	1589.6	2698.4	2775.3
Kerala		0.7	1.8	4.0	7.2	10.6	15.9	27.7	55.5	93.5	184.1	261.1	371.1	509.9	698.3	963.4	1482.0	1678.5
Tamil Nadu	0.9	1.8	3.4	14.4	26.7	39.0	63.7	101.7	151.9	367.1	742.8	782.2	1037.6	1279.3	1839.4	2330.2	3327.8	3971.4

West India	20.7	21.7	31.8	57.3	86.2	122.5	139.8	210.1	333.0	458.1	679.5	741.4	1155.9	1528.1	3923.0	4564.8	6609.0	7284.2
Dadra & Nagar Haveli					0.2	2.3	2.0	3.3	10.1	9.7	14.3	7.5	17.8	24.9	22.2	23.0	29.3	8.9
Goa	13.7	15.9	19.4	24.2	27.1	29.6	33.6	49.3	61.2	49.1	67.6	57.3	53.7	76.3	104.9	0.0	0.0	
Gujarat				0.0	0.0	1.4	1.8	0.9	0.0	0.7	1.6	2.0	7.4	5.6	5.7	2.4	7.6	6.9
Maharashtra	7.1	5.8	12.3	33.1	59.0	89.2	102.4	156.3	260.9	395.9	589.6	665.8	1071.9	1417.9	3788.1	4537.7	6569.2	7265.9
Rajasthan				0.0				0.3	0.9	2.8	6.4	8.8	5.0	3.4	2.1	1.7	2.8	2.5
Grand Total	29.7	42.5	60.3	106.1	190.9	272.4	345.0	548.9	913.3	1489.8	2583.3	3049.8	4472.0	5921.8	9532.8	11433.0	17312.9	18959.1

Source: SPIESR-GIDR locational dataset of Prowess manufacturing firms (2010)

Table-A3 Exports of Basic Metal and Metal Products by Indian States, 1991–2008, US\$ million.

Region/state	Metal exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	29.3	35.4	49.1	102.0	109.3	108.4	129.6	144.5	94.7	116.4	105.8	138.4	213.2	211.5	339.8	542.4	865.4	946.4
Chhattisgarh	17.6	17.3	26.8	59.1	61.5	47.3	71.5	97.6	49.6	74.1	51.9	54.4	80.2	136.5	164.5	178.0	489.5	527.6
Madhya Pradesh	11.7	18.1	22.3	42.9	47.8	61.2	58.1	46.9	45.0	42.3	54.0	84.1	133.0	75.0	175.4	364.4	376.0	418.8
East India	234.5	306.9	381.9	453.5	438.2	448.2	519.4	560.1	420.8	576.9	564.3	526.1	855.1	1090.8	1507.2	1589.4	2318.8	2132.0
Bihar			0.1	0.2	0.7	0.5	0.4	0.3	0.1	0.1	0.3	0.2	0.1	0.1				
Jharkhand	47.4	71.7	91.5	131.5	117.1	108.2	124.3	153.1	93.1	119.1	93.5	79.6	173.5	240.2	295.1	294.2	484.9	402.4
Orissa	153.6	191.7	230.0	232.5	235.7	250.2	298.3	297.4	231.8	335.6	381.0	337.1	505.1	631.8	895.3	936.8	1281.5	1219.5
West Bengal	33.5	43.4	60.2	89.3	84.7	89.4	96.4	109.2	95.9	122.2	89.6	109.2	176.4	218.7	316.8	358.5	552.3	510.1
North India	10.8	15.2	21.4	30.2	35.3	50.6	49.0	62.7	65.4	94.3	95.0	167.8	278.1	376.5	550.7	579.7	990.2	904.8
Haryana	6.5	10.4	13.3	16.6	17.2	20.5	14.2	23.5	18.7	40.7	42.9	89.1	136.8	215.0	220.6	239.5	474.4	348.4
Himachal Pradesh	0.6	1.1	1.7	2.3	2.8	2.6	2.7	1.6	1.6	1.1	8.0	8.3	2.2	4.0	8.3	8.5	7.9	21.7
Jammu & Kashmir										0.1	0.0		0.0	0.1	0.0	0.0		0.8
Punjab	0.3	0.7	1.2	2.1	2.4	3.3	4.3	3.7	4.1	4.0	5.7	6.1	24.9	32.2	64.6	64.6	83.3	87.2
Uttar Pradesh	3.3	2.8	5.0	8.7	12.3	23.5	26.9	33.3	40.5	47.7	36.5	62.5	97.7	106.5	225.9	236.0	386.0	403.5
Uttarakhand	0.1	0.2	0.2	0.4	0.6	0.5	0.5	0.4	0.2	0.5	0.9	0.3	0.4	0.7	0.4	0.5	0.6	1.5
Northeast India								0.1			0.4	1.9	1.4	1.8	2.4	4.6	7.7	17.8
Assam								0.1			0.4	1.9	1.4	1.8	2.4	4.2	5.5	6.4
South India	42.3	70.3	153.6	268.5	252.6	340.4	204.4	307.7	212.3	234.2	246.4	271.6	514.8	669.2	1196.5	1576.7	2895.9	2763.0

Andhra Pradesh	4.0	8.1	80.6	195.8	165.8	218.2	66.2	187.8	119.7	114.9	106.8	118.9	204.0	279.4	261.9	317.3	671.9	710.5
Karnataka	24.6	35.3	43.8	41.5	42.9	61.3	59.9	48.1	44.4	51.7	47.3	42.2	87.6	84.4	277.2	230.3	390.9	369.6
Kerala	0.8	1.1	3.1	1.9	2.5	3.6	5.7	7.3	7.8	9.8	17.8	14.8	33.7	39.3	73.6	96.5	224.3	187.3
Tamil Nadu	13.0	25.7	26.1	29.3	41.3	57.3	72.6	64.6	40.4	57.8	74.5	95.8	189.6	266.1	583.8	932.6	1608.8	1495.6
West India	104.5	128.3	189.2	317.1	396.7	546.0	514.6	612.6	557.9	741.9	808.9	790.2	1718.9	2057.5	3455.4	3670.7	6750.6	6754.3
Dadra & Nagar Haveli	0.6	10.2	8.0	17.6	25.8	23.5	5.0	4.9	4.3	9.8	16.0	21.9	54.4	85.9	140.2	273.1	518.8	483.5
Daman & Diu					0.6	1.4	0.7	0.5	0.8	1.4	2.3	0.9	7.1	5.1	38.9	19.9	9.3	21.8
Goa					0.3	0.2	0.3	0.0	0.3	0.5	0.4	0.4	0.2	0.5	1.2	1.5	0.9	0.2
Gujarat	16.3	11.4	39.1	126.2	117.0	167.3	174.7	187.4	221.4	271.0	217.4	161.0	513.2	602.5	1112.9	1135.6	1942.6	2103.8
Maharashtra	87.3	105.8	137.3	163.6	238.4	346.2	317.6	394.1	313.3	442.6	541.7	578.5	1103.5	1310.7	2059.2	2016.1	3507.4	3635.6
Rajasthan	0.3	0.9	4.8	9.7	14.6	7.4	16.2	25.5	17.8	16.6	31.0	27.5	40.5	52.9	102.9	224.4	771.7	509.4
Grand Total	421.4	556.1	795.1	1171.2	1232.1	1493.6	1417.0	1687.7	1351.1	1763.8	1820.8	1896.0	3581.6	4407.4	7052.0	7963.4	13828.6	13518.1

Note & Source: Same as Table-A1.

Table-A4 Exports of Chemicals & Chemical Products by Indian States, 1991–2008, US\$ million.

Region/state	Chemical exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	8.3	8.0	9.2	13.8	34.2	48.5	33.2	33.5	45.4	50.4	53.1	52.9	66.7	77.9	93.5	114.0	101.9	93.1
Chhattisgarh				0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.2	0.0	0.8	1.1
Madhya Pradesh	8.3	8.0	9.2	13.8	34.2	48.5	33.2	33.5	45.4	50.4	53.1	52.9	66.7	77.9	93.3	113.9	101.1	91.9
East India	18.2	19.5	20.9	20.5	36.3	43.1	58.8	61.6	66.6	66.7	130.9	147.3	139.4	385.1	200.2	535.8	661.4	524.9
Bihar			0.1	0.1	0.4	1.1	0.0								0.1			
Jharkhand	0.6	0.5	0.7	0.1	0.0	0.1	7.7	7.3	6.4	0.9	7.2	6.6	7.4	5.0	0.0	0.0	0.0	0.5
Orissa	2.3	0.8	0.8		0.0		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.0	0.2	9.3	8.9	6.9
West Bengal	15.3	18.3	19.3	20.4	35.9	41.9	51.0	54.3	60.2	65.7	123.5	140.4	131.7	380.1	199.9	526.5	652.4	517.4
North India	41.1	42.2	45.3	51.0	79.1	106.0	103.4	111.4	112.2	123.1	123.3	118.0	141.6	206.1	250.9	332.5	406.1	466.4
Haryana	0.5	0.6	1.0	2.1	9.4	12.7	8.7	6.6	6.6	9.1	8.8	6.2	11.0	13.4	16.0	14.5	20.7	18.4
Himachal Pradesh	6.4	8.5	8.1	10.4	9.9	10.3	12.9	10.5	11.6	13.2	14.8	16.7	20.3	20.2	19.5	28.7	41.4	57.0
Jammu & Kashmir	5.4	7.1	6.6	8.4	15.2	15.0	18.7	19.1	21.6	25.3	33.7	33.8	32.3	63.6	74.4	80.3	85.5	88.9
Punjab	11.9	13.2	17.8	14.9	7.5	29.7	18.5	37.0	40.0	38.8	21.7	17.0	24.1	41.1	52.7	63.0	91.1	101.6

Uttar Pradesh	14.8	11.4	9.4	12.3	33.6	33.6	39.2	34.0	27.9	33.1	39.0	37.6	40.9	50.5	61.5	97.8	100.4	112.1
Uttarakhand	0.5	0.4	1.6	2.4	3.5	4.0	4.5	3.2	3.7	3.6	5.5	6.6	12.9	17.3	26.9	48.1	67.1	88.4
Northeast India	0.4	0.3	1.3	1.8	2.1	1.8	0.8	0.9	0.2	1.1	1.4	1.8	2.8	2.8	4.1	7.2	5.2	5.0
Assam	0.4	0.3	1.3	1.8	2.1	1.8	0.8	0.9	0.2	1.1	1.4	1.8	2.8	2.8	4.1	7.2	5.2	5.0
South India	80.8	87.3	104.1	126.6	177.4	189.1	196.0	203.3	226.0	242.0	358.6	303.0	348.3	368.9	466.7	512.0	605.1	568.5
Andhra Pradesh	12.2	15.3	13.9	19.1	26.6	30.2	34.9	38.6	41.6	53.2	54.8	57.0	63.3	75.7	92.2	112.7	146.9	135.5
Karnataka	4.1	5.8	14.0	4.8	9.2	18.7	18.2	9.7	27.6	33.4	38.8	39.0	45.3	49.6	66.9	73.6	61.1	101.3
Kerala	7.8	9.6	8.5	13.8	17.8	15.0	19.1	23.1	26.4	28.2	120.7	28.0	34.5	48.3	89.0	73.9	72.2	53.4
Pondicherry		0.1	0.1	0.0	0.2	0.2	0.7	0.0	1.9	1.7	1.4	2.1	2.4	2.5	0.8	1.0	0.9	1.0
Tamil Nadu	56.7	56.5	67.6	88.9	123.5	125.0	123.2	131.9	128.4	125.6	142.8	176.9	202.9	192.8	217.8	250.8	323.9	277.3
West India	316.7	346.6	411.1	497.7	746.4	839.9	905.4	970.8	904.6	1158.1	1204.5	1103.6	1373.6	2072.2	2172.0	2596.3	2585.4	2874.3
Dadra & Nagar Haveli	6.0	9.9	17.3	10.1	18.2	16.7	22.1	25.6	25.0	34.0	35.3	36.6	35.9	37.6	49.5	51.3	85.1	90.1
Daman & Diu	0.2	0.5	0.5	1.4	1.6	2.6	4.6	5.5	3.8	4.7	13.6	26.6	34.5	36.0	55.6	58.5	68.9	86.0
Goa	0.3	0.8	0.6	0.7	1.9	1.4	4.7	4.5	4.8	4.1	2.1	1.5	0.3	0.7	1.1	0.5	0.0	0.0
Gujarat	126.8	143.4	159.1	225.9	300.3	308.5	352.4	355.1	321.4	499.7	433.6	432.4	581.9	970.5	1072.6	1394.1	1276.5	1404.3
Maharashtra	177.5	180.2	218.3	238.2	384.4	458.4	462.8	511.4	490.5	549.5	650.5	546.7	632.6	924.7	886.3	966.9	968.6	1114.8
Rajasthan	5.9	11.6	15.5	21.3	40.0	52.3	58.7	68.7	59.1	66.1	69.4	59.7	88.3	102.7	106.8	125.0	186.3	179.1
Grand Total	465.5	504.0	591.9	711.5	1075.5	1228.4	1297.7	1381.5	1355.1	1641.5	1871.7	1726.5	2072.4	3113.1	3187.4	4097.8	4365.2	4532.1

Note & Source: Same as Table-A1.

Table-A5 Exports of Coke & Petroleum Products by Indian States, 1991–2008, US\$ million.

Region/state	Coke & petroleum product exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India			0.1	0.2	0.7	1.2	2.9	3.1	4.0	3.4	3.4	3.7	5.6	6.3	0.1	5.9	9.4	6.5
Chhattisgarh			0.1	0.2	0.7	1.2	2.9	3.1	4.0	3.4	3.4	3.7	5.6	6.3	0.1	5.9	9.4	6.5
East India	185.8	192.2	211.8	197.7	142.8	185.0	218.8	155.2	113.3	103.8	166.1	150.1	63.2	122.3	177.0	294.3	683.9	675.0
Bihar	90.6	94.3	104.0	96.7	68.9	88.9	105.5	74.4	54.2	48.3	78.0	71.3	24.2	56.0	80.8	125.8	311.4	302.8
Orissa	0.4	0.6	0.5	0.6	0.8	1.0	1.8	2.0	1.3	1.1	1.2	1.1	2.7	2.5	2.6	3.0	3.4	3.6
West Bengal	94.7	97.3	107.2	100.4	73.1	95.1	111.4	78.8	57.8	54.5	86.9	77.7	36.4	63.7	93.6	165.5	369.1	368.6
North India	203.9	212.3	234.0	217.6	155.1	200.0	237.5	167.5	122.0	108.6	175.5	160.4	54.4	126.2	182.0	283.5	700.6	681.3

Delhi												0.0	0.1	0.1	0.2	0.4		
Haryana	90.6	94.3	104.0	96.7	68.9	88.9	105.5	74.4	54.2	48.3	78.0	71.3	24.2	56.0	80.8	125.8	311.4	302.8
Punjab	22.7	23.6	26.0	24.2	17.2	22.2	26.4	18.6	13.6	12.1	19.5	17.8	6.0	14.0	20.2	31.5	77.8	75.7
Uttar Pradesh	90.6	94.3	104.0	96.7	68.9	88.9	105.5	74.4	54.2	48.3	78.0	71.3	24.2	56.0	80.8	125.8	311.4	302.8
Northeast India	90.6	94.4	104.0	97.8	73.7	89.6	105.6	74.5	54.3	48.4	78.1	71.3	24.2	56.1	81.0	126.1	311.9	303.1
Assam	90.6	94.4	104.0	97.8	73.7	89.6	105.6	74.5	54.3	48.4	78.1	71.3	24.2	56.1	81.0	126.1	311.9	303.1
South India	50.7	38.2	40.6	42.2	45.2	53.0	61.4	49.4	39.1	80.1	244.1	216.3	668.3	1294.1	1896.4	3479.2	4126.6	4132.5
Andhra Pradesh	9.4	8.7	8.4	6.3	4.9	4.1	6.2	8.0	5.6	18.8	71.6	84.9	126.8	151.9	262.3	450.4	745.9	919.7
Karnataka											77.8	54.5	410.7	988.0	1283.9	2631.2	2809.1	2560.9
Kerala	37.2	26.5	28.7	32.3	36.0	43.7	49.2	37.1	29.8	54.6	84.7	68.0	109.6	141.4	334.9	352.5	511.9	582.5
Tamil Nadu	4.1	3.0	3.5	3.7	4.3	5.2	6.0	4.4	3.8	6.7	9.9	8.8	21.2	12.8	15.2	45.1	59.6	69.4
West India	142.7	139.4	166.4	157.9	202.4	200.9	209.3	232.7	287.7	500.2	2133.3	2229.1	2559.3	2886.8	5809.1	7677.5	16187.7	22837.4
Dadra & Nagar Haveli	0.1	0.2	0.2	0.2	5.2	4.2	1.8	0.9	0.7	0.7	1.1	1.9	3.3	3.5	5.6	9.2	16.1	17.5
Daman & Diu										0.6	0.1	0.1	0.1	0.2	0.5	0.8	3.8	5.2
Goa			0.1	0.2	0.7	1.2	2.9	3.1	4.0	3.4	3.4	3.7	5.4	6.2		5.9	9.4	6.5
Gujarat	85.9	93.5	114.7	108.5	135.0	136.1	140.3	159.5	208.5	340.9	1720.5	1551.7	1724.6	1967.1	3995.8	5067.4	11130.5	16225.3
Maharashtra	56.7	45.7	51.4	49.0	61.5	59.3	64.2	69.2	74.5	154.8	408.1	671.7	825.8	909.7	1807.1	2594.2	5028.0	6582.8
Grand Total	673.7	676.4	756.9	713.3	619.9	729.8	835.4	682.5	620.6	844.5	2800.6	2830.9	3375.0	4491.8	8145.5	11866.6	22020.1	28635.8

Note & Source: Same as Table-A1.

Table-A6 Exports of Drugs & Pharmaceuticals by Indian States, 1991–2008, US\$ million.

Region/state	Pharmaceutical exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	15.7	20.3	24.1	36.2	50.6	58.3	74.2	61.1	73.7	92.4	88.8	117.0	205.3	278.1	300.5	290.6	395.2	406.1
Madhya Pradesh	15.7	20.3	24.1	36.2	50.6	58.3	74.2	61.1	73.7	92.4	88.8	117.0	205.3	278.1	300.5	290.6	395.2	406.1
East India	6.5	3.7	1.8	2.5	3.0	2.5	2.8	2.4	5.9	6.4	5.4	3.2	13.9	19.2	19.9	20.8	9.5	28.2
Bihar									1.2	2.1	2.6		6.6	8.7	10.6	10.4		
Jharkhand							0.1	0.0					1.8	3.1	5.2	3.3	4.2	3.2
West Bengal	6.5	3.7	1.8	2.5	3.0	2.5	2.8	2.3	4.7	4.3	2.8	3.2	5.5	7.4	4.0	7.1	5.4	25.0
North India	29.6	43.6	35.8	57.4	86.8	112.6	132.1	133.1	151.6	204.4	208.1	265.3	419.7	580.8	606.3	639.5	880.0	971.2

Haryana	0.9		0.4	0.3	3.0	2.2	1.1	7.4	6.7	7.8	13.1	20.0	25.0	27.5	23.9	17.8	14.8	19.9
Himachal Pradesh	9.5	13.3	12.5	21.6	29.0	43.3	59.4	60.2	61.9	92.1	85.9	113.1	160.0	246.4	260.1	294.0	411.4	478.0
Jammu & Kashmir			0.1	0.3	0.2	0.4	1.6	4.0	5.9	16.6	20.2	26.6	38.9	43.8	61.2	84.6	103.6	
Punjab	14.3	24.5	18.1	27.7	37.8	46.3	58.6	44.4	58.1	82.7	74.6	96.6	180.9	240.7	245.6	234.2	324.9	321.9
Uttar Pradesh	3.6	3.4	2.4	3.7	9.6	7.0	6.2	9.0	11.3	6.3	7.7	2.2	8.8	4.2	4.3	5.9	8.2	7.6
Uttarakhand	1.4	2.5	2.4	3.9	7.0	13.5	6.5	10.5	9.7	9.5	10.2	13.2	18.4	23.0	28.6	26.6	36.1	40.2
South India	36.3	57.4	69.3	91.6	145.1	208.6	207.8	240.8	327.2	360.8	462.2	576.1	682.0	892.3	971.4	1223.0	2083.7	2025.0
Andhra Pradesh	29.3	46.1	51.3	63.0	96.7	132.1	111.1	146.8	194.7	221.2	302.3	386.7	468.5	544.7	559.4	691.6	1401.3	1279.0
Karnataka	3.5	6.0	4.5	13.2	15.9	26.9	18.3	14.7	32.3	37.5	54.6	75.2	65.8	169.6	217.2	296.3	394.1	382.9
Kerala	0.0	0.2	0.2	0.1	1.5	2.0	5.2	4.4	3.8	1.3	2.8	2.9	2.8	1.1	1.5	0.5	0.3	0.9
Pondicherry		0.0	0.0	0.0	0.1	0.0		0.2	0.2	0.1	0.0	0.1	0.1					
Tamil Nadu	3.4	5.1	13.2	15.3	30.9	47.5	73.2	74.8	96.2	100.8	102.4	111.2	144.8	176.9	193.3	234.6	287.9	362.3
West India	106.6	125.3	95.5	152.8	196.7	277.5	288.1	289.4	330.1	334.3	383.2	447.9	616.0	825.7	934.1	1103.3	1443.0	1765.6
Dadra & Nagar Haveli	0.9	1.7	2.1	2.6	3.7	4.5	5.9	7.5	9.2	9.2	11.2	13.7	16.2	22.7	28.7	32.2	44.8	61.2
Daman & Diu	2.0	1.5	1.8	2.9	1.8	4.0	7.4	9.2	8.3	8.9	13.5	20.8	31.2	43.0	29.0	50.6	64.6	62.9
Goa						0.0	0.0	0.0	0.7	8.2	10.6	14.8	20.9	20.8	28.4	42.4	56.8	
Gujarat	52.3	49.5	27.5	53.3	58.8	90.1	87.6	108.0	100.7	107.1	120.4	154.7	207.0	267.6	327.1	401.1	531.7	616.0
Maharashtra	51.0	72.3	62.8	92.3	130.5	171.3	180.0	158.2	200.7	196.7	215.2	234.9	329.3	449.4	506.6	564.0	721.3	923.5
Rajasthan	0.3	0.3	1.4	1.6	1.9	7.6	7.1	6.4	11.3	11.7	14.8	13.2	17.6	22.1	21.8	26.9	38.1	45.2
Grand Total	194.7	250.3	226.5	340.5	482.2	659.5	705.1	726.9	888.5	998.3	1147.8	1409.5	1936.8	2596.1	2832.3	3277.3	4811.4	5196.2

Note & Source: Same as Table-A1.

Table-A7 Exports of Electrical & Optical Equipment by Indian States, 1991–2008, US\$ million.

Region/state	Electrical & optical equipment exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	15.9	16.9	8.6	10.4	11.9	26.9	29.0	24.3	16.9	10.9	9.8	14.8	17.1	19.0	18.1	30.1	48.5	57.2
Madhya Pradesh	15.9	16.9	8.6	10.4	11.9	26.9	29.0	24.3	16.9	10.9	9.8	14.8	17.1	19.0	18.1	30.1	48.5	57.2
East India	15.9	14.9	8.1	10.2	27.8	9.9	17.8	14.4	14.3	11.3	16.7	13.0	15.0	14.4	16.2	17.5	22.9	41.0
Bihar			0.2	0.3		0.0	0.1	0.1	0.1	0.0								
Jharkhand	3.1	2.4	2.0	4.3	20.0		1.8	0.1	0.2									

Orissa	1.8	0.1	0.8	1.2	1.2	0.5	0.1	1.1	0.2	1.0	0.8	0.7	1.6	1.8	2.1	1.6	2.8	5.8
West Bengal	11.0	12.4	5.1	4.5	6.6	9.3	15.8	13.1	13.8	10.4	15.8	12.3	13.4	12.6	14.1	15.9	20.2	35.2
North India	40.3	64.7	56.2	84.6	113.4	141.3	158.6	146.2	155.4	155.2	242.4	263.4	381.7	543.8	558.1	623.7	768.6	817.3
Delhi	0.0	0.1	0.0	0.0	1.1	3.0	3.0	4.1	19.7	8.6	14.8	10.1	20.6	7.7	7.9	9.6	10.6	7.8
Haryana	7.8	14.1	14.8	22.2	33.2	65.3	60.2	57.0	46.7	47.2	57.7	24.0	46.5	74.1	51.3	55.6	80.5	88.9
Himachal Pradesh	3.5	7.3	3.6	9.7	11.0	7.5	7.4	8.2	11.0	9.2	15.0	15.9	16.9	22.7	35.5	36.2	44.2	53.4
Jammu & Kashmir	0.0		0.0	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.4	0.9	0.3	0.5	0.2
Punjab	14.0	10.4	7.6	7.9	3.8	5.0	9.2	10.2	8.4	5.7	5.4	5.0	5.7	13.3	49.1	61.3	60.9	39.3
Uttar Pradesh	12.6	26.6	16.9	21.8	32.1	25.0	43.7	40.4	43.6	56.8	104.1	163.4	255.0	368.2	357.4	393.1	452.4	502.7
Uttarakhand	2.3	6.2	13.2	22.7	31.9	34.9	34.8	26.1	25.8	27.5	45.1	44.8	36.1	56.4	55.3	67.6	119.4	124.9
South India	38.4	54.9	58.4	86.6	78.8	98.3	110.4	127.4	164.0	155.4	177.9	195.8	168.6	280.2	329.5	398.8	601.1	764.3
Andhra Pradesh	5.6	4.2	5.7	18.4	14.4	12.5	11.1	16.2	16.0	15.0	19.2	16.1	18.6	20.9	31.1	60.6	96.4	140.9
Karnataka	22.8	31.5	27.6	38.9	31.4	38.3	41.5	50.7	72.4	63.6	71.7	81.0	68.8	146.4	167.3	176.3	340.4	457.4
Kerala	1.8	5.1	4.9	7.2	7.8	9.9	8.5	8.7	11.3	11.8	14.0	10.8	5.3	15.0	12.2	19.2	18.9	17.4
Pondicherry	0.5	0.9	1.8	2.3	5.3	5.1	6.5	8.0	4.6	2.2	2.2	0.1	2.6	2.1	1.8	2.7	6.4	2.4
Tamil Nadu	7.7	13.1	18.4	19.8	19.9	32.6	42.8	43.9	59.7	62.8	70.8	87.8	73.3	95.8	117.1	140.0	138.9	146.2
West India	74.0	85.7	73.8	136.8	133.3	130.1	191.0	173.0	176.8	168.1	226.3	192.1	243.0	341.1	433.3	480.9	843.5	1293.6
Dadra & Nagar Haveli		0.2	1.2	1.2	2.1	2.4	3.9	3.1	3.9	1.8	46.5	9.7	7.4	9.4	13.8	22.1	66.3	101.5
Daman & Diu	0.0	0.4	0.1	0.9	0.4	0.3	0.3	0.8	1.2	1.1	1.7	4.6	3.2	8.9	2.7	2.2	5.3	3.7
Goa	4.5	3.6	4.3	5.6	6.3	5.5	2.6	6.1	4.8	7.3	6.9	7.5	10.7	13.6	18.2	21.6	42.8	91.1
Gujarat	12.7	12.1	10.7	20.5	21.9	22.0	35.4	31.9	34.7	33.3	24.1	24.3	32.9	46.6	75.8	120.7	162.8	179.2
Maharashtra	55.2	63.8	51.5	98.7	87.4	84.6	140.7	123.6	118.4	114.2	128.7	122.6	163.4	231.9	274.5	269.1	509.3	842.8
Rajasthan	1.5	5.7	5.9	9.8	15.2	15.3	7.9	7.5	13.9	10.4	18.5	23.4	25.3	30.9	48.4	45.1	56.9	75.3
Grand Total	184.4	237.1	205.2	328.5	365.2	406.6	506.9	485.3	527.4	501.0	673.2	679.0	825.3	1198.5	1355.2	1551.0	2284.7	2973.4

Note & Source: Same as Table-A1.

Table-A8 Exports of Food Products, Beverages & Tobacco by Indian States, 1991–2008, US\$ million.

Region/state	Food & beverage exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	44.0	59.6	87.9	128.3	74.0	151.3	166.3	109.5	76.7	73.6	92.6	88.5	54.4	112.9	139.6	157.7	226.3	320.4
Chhattisgarh	0.0	0.0				0.1	0.3		0.1					0.1		0.9	2.0	0.3
Madhya Pradesh	44.0	59.5	87.9	128.3	74.0	151.1	165.9	109.5	76.6	73.6	92.6	88.5	54.4	112.8	139.6	156.8	224.3	320.1
East India	83.3	105.8	123.7	167.9	184.5	178.2	157.5	163.3	247.0	186.4	104.6	105.6	194.8	171.5	175.2	257.1	335.7	269.5
Bihar	21.9	35.7	38.9	47.9	46.0	34.1	33.6	35.9	27.8	28.5	28.3	37.7	54.5	46.2	55.8	76.6	109.5	96.8
Jharkhand	0.4	0.5	0.6	0.8	0.8	0.9							0.0					
Orissa	0.5	2.6	4.2	8.5	25.7	23.3	9.4	1.2	15.3	15.9	15.5	4.1	22.4	20.1	0.5	21.7	31.3	5.5
West Bengal	60.4	67.1	80.0	110.7	112.0	119.9	114.4	126.3	203.9	142.1	60.7	63.7	117.9	105.2	118.9	158.7	194.9	167.3
North India	57.7	68.7	79.5	100.2	108.1	121.5	111.3	139.2	128.3	121.8	203.5	378.8	270.5	296.1	336.8	384.3	557.4	547.8
Delhi						1.7	0.1		0.4	0.6			20.4	40.7	42.5	63.6	34.6	19.3
Haryana	1.8	2.1	3.5	5.9	7.7	11.0	12.3	24.8	24.2	11.9	54.8	225.1	88.4	64.2	77.9	57.8	141.0	172.2
Himachal Pradesh	0.4	0.8	0.3	0.8	0.8	0.4	0.6	0.5	1.4	1.5	2.3	2.4	3.8	5.3	6.5	8.9	9.9	12.1
Jammu & Kashmir	0.1	0.1	0.1	0.7	0.5	1.7	2.8	2.3	1.9	2.6	3.8	2.7	2.7	3.2	7.9	20.3	21.3	26.5
Punjab	8.2	10.9	11.1	14.5	19.5	18.3	23.8	38.3	25.0	16.1	17.7	21.9	15.5	19.3	15.2	16.9	24.7	27.3
Uttar Pradesh	39.0	41.7	49.0	58.9	59.7	70.1	51.6	51.1	55.5	72.8	107.9	105.9	115.3	139.3	159.6	180.2	273.7	241.1
Uttarakhand	8.2	13.0	15.5	19.4	19.9	18.4	20.0	22.1	20.0	16.2	17.0	20.8	24.3	24.0	27.2	36.6	52.3	49.4
Northeast India	60.3	67.9	61.2	60.3	73.2	73.4	56.0	57.1	66.5	51.7	42.4	39.3	56.0	58.4	50.2	56.2	67.5	51.2
Assam	60.3	67.9	61.2	60.3	73.2	73.4	56.0	57.1	66.5	51.7	42.4	39.3	56.0	58.4	50.2	56.2	67.5	51.2
South India	112.2	177.0	210.9	418.3	527.8	347.7	324.4	359.8	414.9	414.0	802.1	785.1	877.3	848.2	921.1	1081.3	1611.0	1775.0
Andhra Pradesh	31.5	60.7	58.7	96.6	144.1	116.1	86.4	110.8	176.6	172.3	200.4	223.5	287.3	220.5	268.6	337.3	415.1	397.1
Karnataka	18.8	29.2	34.8	148.6	180.4	53.9	57.1	99.4	99.7	106.3	267.9	252.5	303.6	385.5	428.5	471.8	817.3	915.1
Kerala	25.9	36.7	55.8	96.4	110.9	82.1	105.8	88.6	51.6	38.8	75.2	58.7	70.3	65.7	61.7	77.1	117.1	107.8
Pondicherry	0.8	1.6	1.6	1.2	4.2	5.5	5.3	3.6	2.0	1.8	1.0		1.0	0.7	0.6	0.4		
Tamil Nadu	35.2	48.8	60.0	75.5	88.4	90.1	69.8	57.4	84.9	94.8	257.6	250.4	215.0	175.8	161.7	194.6	261.5	355.0
West India	34.1	62.0	86.4	139.3	182.2	203.9	190.5	219.8	246.3	283.8	279.2	215.5	326.9	563.8	346.5	431.9	615.0	757.2
Dadra & Nagar Haveli									0.2	0.2								
Daman & Diu	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	0.8	1.0	1.5	2.3	3.0	4.0	3.7

Goa	0.8	0.9	2.3	3.3	4.1	6.8	8.4	9.6	10.1	5.9	6.6	7.4	5.0	6.7	5.2	5.7	8.3	9.4
Gujarat	9.1	9.7	22.8	41.4	32.3	49.8	76.2	126.4	119.8	168.3	147.4	90.2	111.6	182.1	152.5	155.1	218.1	315.5
Maharashtra	18.0	44.1	40.0	46.3	109.6	110.9	63.4	56.6	100.0	90.7	104.5	99.3	188.7	340.0	147.1	191.6	298.7	306.5
Rajasthan	6.2	7.3	21.2	48.3	36.0	36.1	42.1	26.6	15.6	17.8	19.8	17.7	20.7	33.5	39.4	76.5	85.8	122.1
Grand Total	391.6	540.9	649.7	1014.3	1149.8	1075.9	1005.9	1048.8	1179.7	1131.4	1524.4	1612.7	1779.9	2051.0	1969.4	2368.4	3413.0	3721.1

Note & Source: Same as Table-A1.

Table-A9 Exports of Leather & Leather Products by Indian States, 1991–2008, US\$ million.

Region/state	Leather exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India				0.0	0.1	0.4	0.5	0.3	0.2									
Madhya Pradesh				0.0	0.1	0.4	0.5	0.3	0.2									
East India	2.9	3.0	1.9	2.9	4.3	4.6	3.3	8.4	9.5	4.8	12.3	12.4	24.0	18.5	23.3	27.2	27.0	1.2
Bihar	1.9	2.0	1.3	1.9	1.8	2.1	2.2	2.2	2.1	1.7	1.5	1.3	1.1	0.9	0.8	0.5	0.9	0.7
West Bengal	1.0	1.0	0.6	1.0	2.5	2.5	1.1	6.2	7.4	3.1	10.8	11.1	22.9	17.6	22.5	26.7	26.1	0.5
North India	6.1	10.6	13.7	61.3	43.6	53.3	68.1	70.8	61.6	51.8	69.6	75.1	90.2	109.4	132.7	139.6	200.8	194.6
Delhi			8.2	36.5	1.0	6.5	8.8	5.0	1.2	1.1	2.5	3.1	4.0	2.8	4.4	5.0	4.5	6.6
Haryana	1.0	1.0	0.6	4.2	16.0	6.4	14.6	11.5	8.8	2.4	5.3	5.7	10.8	12.5	16.0	21.7	28.7	24.8
Himachal Pradesh		1.6	2.0	4.9	4.8	9.4	7.3	2.1	2.2	2.4	1.8	1.6	0.7	0.7	0.8	0.5	1.2	1.2
Punjab		1.6	2.0	3.2	2.4	3.2	5.2	4.1	2.2	1.9	1.4	1.0	3.4	2.8	5.3	7.5	12.2	10.2
Uttar Pradesh	5.2	6.3	0.7	12.5	19.1	25.9	30.4	47.6	46.0	44.0	57.3	61.4	69.4	82.6	97.8	95.9	146.7	145.0
Uttarakhand				0.0	0.3	1.8	1.7	0.5	1.3		1.3	2.3	2.0	7.9	8.2	9.0	7.5	6.9
South India	18.4	31.2	31.1	70.1	111.1	154.9	147.2	89.9	121.4	122.9	85.8	82.0	124.6	134.5	157.4	106.0	65.8	67.5
Andhra Pradesh	3.1	2.8	2.3	2.1	3.6	5.0	4.6	4.5	5.8	6.4	4.2	1.7		0.1				
Karnataka	1.0	25.1	24.4	39.7	51.4	48.0	36.2	23.1	22.8	19.1	18.0	18.7	16.5	18.0	22.6	21.8	27.3	27.0
Pondicherry					0.8	1.3	0.4											
Tamil Nadu	14.4	3.3	4.4	28.3	55.2	100.7	106.0	62.2	92.7	97.3	63.6	61.6	108.1	116.4	134.9	84.2	38.6	40.5
West India	1.2	1.5	2.1	8.4	11.9	23.7	12.0	4.3	4.1	3.6	2.9	3.3	6.2	5.2	8.2	10.9	16.9	9.0
Dadra & Nagar Haveli				1.7	2.6	6.9	4.9	0.4		0.4	0.4	0.5	0.1					

Gujarat				0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	
Maharashtra	1.2	1.5	2.1	6.6	9.3	14.2	5.0	1.6	0.5	0.9	0.7	0.5	0.1					
Rajasthan						2.6	2.0	2.3	3.6	2.2	1.7	2.2	5.9	5.1	8.1	10.8	16.8	9.0
Grand Total	28.6	46.3	48.8	142.8	171.0	237.0	231.0	173.7	196.8	183.1	170.6	172.8	245.0	267.6	321.6	283.7	310.6	272.3

Note & Source: Same as Table-A1.

Table-A10 Exports of Machinery & Equipment by Indian States, 1991–2008, US\$ million.

Region/state	Machinery & equipment exports																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	10.0	20.1	19.6	27.6	16.0	15.9	22.3	20.1	10.0	30.1	23.8	73.4	38.3	40.8	70.6	64.6	108.2	88.3
Chhattisgarh	0.1	0.3	0.3	0.3	0.3	0.5	0.6	0.6	0.9	0.8	0.9	2.2	1.5	1.0	1.4	1.8	2.8	1.6
Madhya Pradesh	9.9	19.7	19.3	27.3	15.7	15.4	21.8	19.5	9.1	29.3	22.9	71.1	36.9	39.8	69.2	62.8	105.4	86.7
East India	9.0	3.6	4.5	4.6	4.5	10.1	9.3	16.6	10.6	6.5	10.6	10.7	24.9	37.4	44.9	57.1	65.3	42.8
Jharkhand	0.7	0.0	0.0	0.3	0.6	2.1	0.7	11.0	7.9	4.1	6.5	5.7	20.4	28.2	25.8	37.7	45.4	24.6
Orissa												0.9		0.0		0.3		0.0
West Bengal	8.4	3.6	4.4	4.3	3.9	8.0	8.6	5.6	2.7	2.4	4.1	4.1	4.6	9.1	19.1	19.1	19.8	18.2
North India	44.4	61.7	71.0	57.9	41.7	46.0	51.5	43.9	31.7	63.4	62.8	128.7	103.5	125.1	202.6	189.4	318.2	250.1
Delhi			0.1	0.1					0.1	0.1	0.0	0.0	5.8	6.1	3.3	21.4	31.9	6.9
Haryana	20.3	21.8	26.4	9.2	9.8	14.0	12.3	8.8	8.9	9.5	18.0	17.0	22.9	17.1	42.9	56.7	91.9	77.2
Himachal Pradesh	0.9	0.9	0.8	1.1	1.5	1.9	2.4	2.8	1.4	0.9	1.7	1.7	1.8	3.5	5.4	5.5	9.3	10.8
Jammu & Kashmir	0.0	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.3	0.7	1.6	2.0	2.4	3.5	3.7	1.0	0.5	0.5
Punjab	1.2	1.6	1.8	3.8	2.4	2.9	3.7	3.1	1.4	4.6	2.2	5.6	3.7	3.2	12.5	13.8	12.1	11.2
Uttar Pradesh	7.4	14.8	11.7	19.0	10.7	9.6	16.0	12.5	9.7	21.3	13.3	40.1	25.4	62.5	73.8	36.0	75.2	62.2
Uttarakhand	14.5	22.5	30.0	24.6	17.1	17.3	16.8	16.5	9.8	26.3	26.1	62.1	41.3	29.3	60.9	55.0	97.3	81.3
Northeast India			3.6												0.2	1.0	1.3	
Assam			3.6												0.2	1.0	1.3	
South India	67.8	68.9	71.4	94.2	105.0	125.6	121.7	129.0	104.6	116.9	103.4	167.8	169.7	232.1	293.2	273.3	379.0	320.0
Andhra Pradesh	5.8	6.7	7.3	10.4	5.4	25.8	12.0	12.9	7.1	12.6	10.3	25.8	17.2	22.5	36.9	35.3	60.1	64.0
Karnataka	18.8	20.1	20.4	36.4	28.6	31.0	39.3	47.1	29.4	34.7	30.4	49.2	30.8	58.9	88.5	68.3	105.0	72.4

Kerala												0.0	0.0	0.0		0.0		0.1
Pondicherry				0.1	0.1													
Tamil Nadu	43.2	42.2	43.6	47.3	70.9	68.8	70.4	69.1	68.1	69.6	62.7	92.8	121.7	150.7	167.7	169.7	214.0	183.5
West India	158.1	130.0	116.3	134.9	202.6	155.0	188.2	194.4	185.8	202.1	219.0	254.2	293.6	414.0	601.0	708.0	1311.1	1581.6
Dadra & Nagar Haveli	1.0	1.2	1.2	1.3	1.8	5.7	4.1	10.2	9.1	1.9	11.0	10.5	13.6	31.0	31.7	33.5	49.1	38.3
Daman & Diu	5.4	4.9	5.2	8.7	8.8	9.8	10.7	10.5	9.0	18.2	18.1	18.1	23.3	25.5	31.3	66.5	314.6	455.8
Goa	0.3	3.6	3.9	3.9	4.6	8.9	9.1	2.8	0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Gujarat	73.1	44.5	30.2	29.3	33.9	23.1	32.3	39.7	43.2	44.7	39.4	47.4	61.5	71.2	86.9	124.3	259.0	328.9
Maharashtra	77.3	74.6	74.3	89.2	151.6	105.7	129.6	129.8	122.1	136.3	147.6	175.2	192.3	282.8	446.3	477.2	679.2	754.5
Rajasthan	1.0	1.2	1.6	2.5	1.9	1.8	2.4	1.4	2.3	0.9	2.6	2.8	2.8	3.3	4.7	6.4	9.1	3.9
Grand Total	289.2	284.3	286.4	319.2	369.8	352.6	392.9	404.0	342.7	419.0	419.7	634.7	630.0	849.3	1212.5	1293.4	2183.1	2282.8

Note & Source: Same as Table-A1.

Table-A11 Exports of Publishing & Printing by Indian States, 1991–2008, US\$ million.

Region/state	Exports of publishing and printing (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India																		
East India	0.1	0.1	0.1	0.3	0.4	0.4	0.0			0.5	0.5	0.8	0.7	0.9	1.5	2.2	2.9	2.8
Bihar	0.1	0.1	0.1	0.3	0.4	0.4				0.5	0.5	0.6	0.7	0.7	1.1	1.4	1.9	2.0
Jharkhand														0.1	0.3	0.8	1.0	0.8
Orissa													0.0	0.0	0.0	0.0	0.0	
West Bengal						0.0	0.0					0.1		0.1	0.0			
North India	0.1	0.1	2.4	2.4	0.4	0.9	0.5	0.5	4.5	8.3	6.4	14.1	19.6	24.2	28.1	23.3	30.3	31.1
Delhi	0.0		2.3	2.1		0.4	0.5	0.4	0.6	2.9	2.4	8.6	10.5	14.5	18.9	19.1	24.5	25.7
Haryana									3.8	4.8	3.3	4.7	8.2	8.2	6.6			
Uttar Pradesh	0.1	0.1	0.1	0.3	0.4	0.4	0.0	0.0		0.5	0.5	0.6	0.7	0.9	1.4	2.2	3.0	2.9
Uttarakhand										0.0	0.1	0.1	0.2	0.5	1.1	1.9	2.6	2.5
South India	1.7	2.2	2.4	2.6	3.2	5.7	5.7	4.4	6.4	9.3	15.2	9.8	13.9	24.4	25.4	27.6	27.8	22.0
Andhra Pradesh						1.2	1.4			2.0	2.3	2.0	3.6	3.1	4.8	5.1	0.0	
Karnataka	0.9	1.1	1.2	1.4	1.8	2.4	2.1	2.2	3.2	3.8	3.8	4.0	5.1	7.5	10.5	11.0	13.8	12.0

Kerala		0.0		0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	
Tamil Nadu	0.8	1.0	1.1	1.1	1.4	2.0	2.1	2.2	3.2	3.3	8.9	3.6	5.0	13.6	9.8	11.4	14.0	10.0
West India	0.5	0.7	1.5	2.2	2.2	5.4	4.4	3.9	3.3	5.5	7.7	11.6	14.5	17.7	27.2	25.2	30.2	30.8
Dadra & Nagar Haveli										0.0	0.1	0.1	0.2	0.5	1.1	1.9	2.6	2.5
Daman & Diu			0.0		0.2	0.5	0.6	0.6	0.7	0.7	1.3	2.1	2.7	2.9	2.6	1.8	1.7	1.7
Gujarat	0.1	0.1	0.1	0.3	0.8	1.5	1.2	1.3	1.5	2.1	3.2	5.0	6.1	6.5	11.5	5.1	5.7	5.4
Maharashtra	0.3	0.5	1.2	1.7	0.9	3.0	2.6	2.0	1.2	2.1	2.7	3.8	4.7	7.1	10.8	15.0	18.3	19.2
Rajasthan	0.1	0.1	0.1	0.3	0.4	0.4				0.5	0.5	0.6	0.7	0.7	1.1	1.4	1.9	2.0
Grand Total	2.4	3.1	6.4	7.5	6.3	12.4	10.7	8.8	14.2	23.7	29.9	36.3	48.7	67.3	82.2	78.3	91.2	86.7

Note & Source: Same as Table-A1.

Table-A12 Pulp & Paper Products by Indian States, 1991–2008, US\$ million.

Region/state	Pulp & paper exports																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
East India	4.5	2.2	2.5	2.8	4.8	5.7	6.0	0.7	2.9	1.4	3.5	5.6	5.7	15.2	18.0	14.4	13.1	9.1
Orissa	1.8	2.2	2.4	2.6	4.6	5.3	5.8	0.7	2.9	1.4	3.4	5.6	5.6	15.1	17.9	14.2	13.0	9.1
West Bengal	2.7	0.0	0.1	0.1	0.1	0.4	0.3	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	
North India	1.9	2.4	3.8	5.1	11.2	17.0	12.9	6.4	3.9	1.2	4.5	3.7	8.5	20.7	25.0	20.3	24.1	28.6
Haryana	1.8	2.4	3.8	3.2	4.3	6.7	4.1	2.5	3.3	1.0	4.2	3.4	3.6	12.8	12.5	9.2	9.2	7.6
Himachal Pradesh													0.0					
Punjab	0.1	0.0	0.0	1.9	6.9	10.3	8.7	3.9	0.6	0.1	0.0	0.2	4.6	7.4	11.8	10.5	13.2	18.6
Uttar Pradesh					0.0	0.1	0.1		0.0	0.0	0.3	0.1	0.2	0.4	0.6	0.5	1.8	0.3
Uttarakhand												0.1	0.1	0.0	0.2	0.0		2.1
Northeast India		0.1				5.6	4.9		0.7	6.0	0.7							3.6
Assam		0.1				5.6	4.9		0.7	6.0	0.7							3.6
South India	4.1	8.8	13.3	11.2	24.4	26.5	19.5	15.7	13.3	29.6	47.6	33.7	79.7	72.1	64.3	57.4	74.1	62.9
Andhra Pradesh	3.9	7.0	9.0	8.2	12.5	12.4	9.9	8.1	6.8	13.4	23.8	3.7	39.6	27.2	9.7	7.1	8.2	9.8
Karnataka	0.0	0.2	0.2	0.1	1.7	1.6	0.6	0.1	0.5	2.1	1.7	1.7	6.8	7.9	9.4	4.8	6.0	8.7
Kerala						0.3	0.2						0.1	0.2		3.5	0.7	3.2

Tamil Nadu	0.2	1.6	4.2	2.9	10.2	12.3	8.8	7.6	6.0	14.1	22.1	28.3	33.2	36.9	45.1	42.0	59.2	41.2
West India	5.6	8.4	10.3	12.0	15.2	24.8	25.4	10.4	16.4	5.6	40.7	13.5	52.7	70.8	75.2	50.2	58.4	53.4
Dadra & Nagar Haveli						1.2	0.0	0.4	0.1	0.0		0.0	0.0	0.0	0.1	0.0		
Daman & Diu													1.1	8.7				
Gujarat	0.0	0.5	0.8	0.6	1.3	1.9	4.7	1.8	2.6	1.1	1.5	5.6	4.5	9.3	14.3	13.1	18.7	24.7
Maharashtra	5.6	7.9	9.4	11.4	13.9	21.7	20.7	8.2	13.7	4.4	39.2	7.9	47.1	52.8	60.8	37.0	39.7	28.7
Rajasthan							0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Grand Total	16.2	21.8	29.9	31.1	55.6	79.7	68.7	33.3	37.3	43.8	97.0	56.5	146.7	178.7	182.5	142.2	169.7	157.6

Note & Source: Same as Table-A1.

Table-A13 Exports of Rubbers & Plastics by Indian States, 1991–2008, US\$ million.

Region/state	Exports of rubbers & plastics (US\$ million)																		
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
Central India	7.7	9.2	7.0	13.5	18.6	16.7	33.0	33.8	31.7	29.6	29.7	19.7	33.8	44.2	55.3	53.6	69.6	70.7	
Chhattisgarh						0.1	0.1		0.0										
Madhya Pradesh	7.7	9.2	7.0	13.5	18.6	16.6	32.9	33.8	31.7	29.6	29.7	19.7	33.8	44.2	55.3	53.6	69.6	70.7	
East India	13.0	0.3	7.3	7.8	7.7	4.8	8.9	6.5	7.1	10.1	8.7	6.7	8.2	15.8	24.8	24.5	22.0	36.5	
Jharkhand	0.0	0.0					0.0	0.0											
Orissa					0.0		0.5	0.8	0.7	1.4	2.1	1.0	2.2	1.8	1.3	6.3	0.4	0.2	
West Bengal	13.0	0.3	7.3	7.8	7.7	4.8	8.4	5.8	6.4	8.8	6.6	5.7	6.0	13.9	23.5	18.2	21.6	36.3	
North India	33.7	51.3	40.2	77.4	95.3	124.7	129.3	90.9	93.7	94.9	97.0	92.7	110.5	130.4	174.0	169.4	217.6	206.7	
Delhi												0.6	1.6	0.8	0.9	0.9			
Haryana	3.1	2.8	5.2	7.7	7.7	7.5	5.8	5.9	11.5	11.0	8.0	10.4	17.6	21.0	22.8	24.4	22.4	22.6	
Himachal Pradesh	0.1	0.3	0.1	0.5	0.4	0.3	0.3	0.4	0.4	0.9	1.3	1.0	1.2	1.4	1.8	1.9	3.4	3.4	
Jammu & Kashmir		0.0	0.0	0.1	0.1	1.9	5.7	6.0	5.9	5.6	6.1	6.1	7.4	8.8	15.8	18.1	20.7	19.1	
Punjab	2.1	8.8	13.8	12.1	13.4	10.5	8.5	7.8	13.8	16.5	12.7	15.6	13.2	12.9	19.1	11.1	34.3	37.5	
Uttar Pradesh	26.8	37.3	14.3	49.7	62.2	69.1	83.0	51.4	42.7	38.4	39.2	34.3	37.6	45.8	69.5	72.7	95.3	83.7	
Uttarakhand	1.6	2.1	6.9	7.3	11.5	35.4	26.0	19.4	19.4	22.5	29.7	24.8	31.7	39.7	44.2	40.4	41.5	40.5	
Northeast India	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.5	0.5	1.2	1.0	1.4	1.3	
Assam	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.5	0.5	1.2	1.0	1.4	1.3	

South India	66.1	43.2	64.9	106.1	103.4	113.0	132.3	125.7	113.5	106.2	124.3	124.7	151.3	173.4	233.3	247.0	321.6	323.2
Andhra Pradesh	11.5	7.5	8.4	19.2	19.2	24.3	19.5	25.0	23.1	21.7	23.1	22.0	28.7	37.7	48.6	52.5	72.9	67.6
Karnataka	8.7	14.3	20.9	27.7	34.9	33.9	39.8	40.8	36.0	26.3	28.1	34.1	25.3	38.7	45.9	39.9	51.3	53.2
Kerala	7.6	6.2	13.5	17.6	11.7	7.6	8.9	7.7	6.6	8.0	9.8	9.7	14.8	20.5	19.4	23.2	32.6	35.0
Pondicherry				1.1	1.2	3.4	3.2		2.3	3.1	5.1	5.4	8.1	0.2	8.2	8.7	9.0	16.1
Tamil Nadu	38.2	15.3	22.1	40.7	36.4	43.9	61.0	52.2	45.4	47.1	58.1	53.5	74.4	76.2	111.2	122.8	155.8	151.3
West India	52.0	57.7	74.3	119.8	138.9	166.0	153.0	192.9	176.5	187.8	187.5	193.3	296.9	346.9	512.7	570.5	905.7	892.5
Dadra & Nagar Haveli	1.8	2.5	2.3	5.4	8.0	13.9	8.8	11.8	11.7	13.4	16.3	14.7	22.9	25.7	44.4	44.7	80.1	53.3
Daman & Diu	0.0	0.1	0.0	0.1	2.4	1.9	4.3	4.3	8.8	10.9	5.3	7.4	6.7	7.1	9.8	10.6	12.0	14.3
Goa	5.0	4.0	3.7	5.6	4.3	3.7	6.0	5.9	7.0	7.8	8.1	8.5	11.2	12.5	14.4	16.8	21.7	20.2
Gujarat	4.3	3.6	16.1	29.7	23.9	26.5	21.1	30.6	23.4	30.4	29.0	31.3	56.2	52.8	73.5	79.6	131.7	136.6
Maharashtra	33.2	38.1	44.8	67.5	81.7	103.6	92.0	116.7	106.0	108.7	112.6	118.1	160.2	190.0	285.7	320.2	512.1	489.8
Rajasthan	7.8	9.4	7.4	11.5	18.6	16.3	20.6	23.6	19.6	16.5	16.2	13.3	39.7	58.7	84.8	98.6	148.0	178.2
Grand Total	172.5	161.8	193.8	324.7	364.1	425.4	456.9	450.2	422.7	428.9	447.4	437.4	601.1	711.1	1001.2	1066.0	1537.8	1530.8

Note & Source: Same as Table-A1.

Table-A14 Exports of Textiles & Textile Products by Indian States, 1991–2008, US\$ million.

Region/state	Textile exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	5.2	16.7	22.9	44.3	76.9	104.6	118.3	111.9	124.6	153.2	135.0	105.9	105.6	127.3	147.0	108.8	152.3	144.3
Chhattisgarh	0.4	2.4	3.3	6.9	11.7	17.6	13.0	12.0	9.2	11.0	7.9	4.7	3.4	4.1	4.1	3.9	6.3	6.9
Madhya Pradesh	4.8	14.3	19.6	37.4	65.2	87.0	105.3	99.9	115.4	142.3	127.0	101.3	102.2	123.2	142.9	105.0	145.9	137.4
East India	43.0	64.7	76.1	103.5	127.2	150.5	182.5	174.5	133.3	127.7	157.4	130.6	158.6	160.2	179.8	182.8	185.4	143.3
Bihar	2.2			1.7	3.7	2.8	1.6	2.7	2.6	4.0	4.6	3.0	2.4	2.4	5.1	6.5	7.2	6.6
Jharkhand					0.0	0.0												
Orissa	0.2	0.0				0.1	0.1	0.1	0.1	0.1			0.1	0.1	2.5	2.5	1.6	1.9
West Bengal	40.6	64.7	76.1	101.9	123.5	147.7	180.9	171.7	130.6	123.7	152.8	127.7	156.2	157.7	172.2	173.8	176.6	134.8
North India	47.9	87.5	86.4	139.7	213.0	302.9	355.0	407.6	450.3	493.9	543.8	549.2	565.6	563.6	773.9	820.0	1010.4	1056.5
Delhi	0.3		2.7	3.1			0.5	28.8	34.7	48.6	64.1	82.4	22.4	0.5	137.6	159.7	179.2	155.0

Haryana	4.2	6.9	9.0	23.5	30.6	36.1	37.7	25.6	34.0	57.7	63.8	79.8	90.3	69.7	86.7	106.8	133.5	190.5
Himachal Pradesh	2.4	6.9	11.8	17.9	23.7	29.7	29.2	48.5	45.3	43.0	43.5	35.4	39.0	68.8	75.1	63.0	81.2	78.0
Punjab	29.4	56.7	38.5	66.8	104.7	144.3	178.7	182.9	211.8	216.5	265.8	244.8	296.5	307.5	351.9	368.2	454.5	477.4
Uttar Pradesh	8.8	13.3	20.1	24.4	48.3	85.1	99.0	111.8	114.8	118.5	98.5	99.7	98.0	94.5	97.1	97.6	130.0	147.5
Uttarakhand	2.8	3.7	4.3	4.0	5.8	7.6	9.9	10.0	9.7	9.6	8.1	5.8	5.4	7.0	8.6	8.4	12.9	8.0
Northeast India	1.0	1.7	1.4	1.4	2.5	3.4	6.1	6.5	6.0	6.4	6.3	3.6	5.3	6.1	6.8	7.3	9.3	9.9
Assam	1.0	1.7	1.4	1.4	2.5	3.4	6.1	6.5	6.0	6.4	6.3	3.6	5.3	6.1	6.8	7.3	9.3	9.9
South India	141.9	214.5	205.7	295.0	474.1	548.6	642.5	675.1	675.4	633.7	689.7	596.3	730.2	752.2	893.6	869.0	1306.9	1282.5
Andhra Pradesh	10.2	15.9	16.5	24.8	37.4	42.3	61.0	60.0	77.7	82.3	70.8	44.5	63.1	85.6	87.2	77.0	103.4	94.8
Karnataka	11.8	29.3	35.8	50.0	82.4	95.9	100.9	81.2	95.0	77.1	99.7	110.7	123.0	145.4	322.2	355.9	499.6	532.3
Kerala	8.6	12.4	12.6	16.7	34.4	37.7	43.7	45.2	42.4	36.6	37.7	41.3	43.6	49.6	37.8	61.4	93.2	96.7
Pondicherry					0.0	12.4	14.4	0.0				4.0	3.8	4.8	4.9			
Tamil Nadu	111.3	156.8	140.7	203.5	319.7	360.3	422.6	488.7	460.2	437.8	481.4	395.8	496.7	466.6	441.3	374.7	610.7	558.8
West India	216.2	272.9	303.3	355.8	527.6	674.0	688.8	746.7	767.1	753.0	722.4	673.8	877.0	896.3	1085.2	1075.2	1552.9	1783.8
Dadra & Nagar Haveli	0.2	0.5	0.3	3.9	5.1	6.5	3.1	7.4	7.9	9.2	11.1	13.1	18.1	37.7	70.0	85.4	162.4	224.5
Daman & Diu	0.9	1.0	1.1	1.0	3.7	0.8	2.7	5.8	7.4	7.1	8.5	11.4	13.8	15.0	14.8	17.4	21.0	43.0
Goa	0.1	0.1	0.4		0.4	0.2	0.0	0.1	0.0	0.0	0.1							
Gujarat	68.4	82.5	98.7	144.5	222.9	300.9	275.2	270.2	264.3	297.2	244.5	307.3	334.9	326.1	407.8	432.4	609.1	643.7
Maharashtra	133.2	169.6	184.4	187.2	251.0	304.3	337.6	395.4	409.9	358.8	364.6	251.5	394.8	365.9	424.5	338.5	478.7	569.0
Rajasthan	13.4	19.3	18.4	19.3	44.5	61.4	70.2	67.9	77.7	80.8	93.7	90.5	115.5	151.5	168.1	201.5	281.7	303.6
Grand Total	455.2	657.8	695.7	939.8	1421.3	1784.0	1993.3	2122.3	2156.7	2167.9	2254.5	2059.4	2442.4	2505.7	3086.2	3063.2	4217.1	4420.4

Note & Source: Same as Table-A1.

Table-A15 Exports of Transport Equipment by Indian States, 1991–2008, US\$ million.

Region/state	Exports of transport equipment (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India	4.9	5.5	7.0	10.8	11.3	14.3	14.3	15.2	27.2	23.8	16.2	7.7	6.8	7.5	20.5	32.5	46.8	52.1
Madhya Pradesh	4.9	5.5	7.0	10.8	11.3	14.3	14.3	15.2	27.2	23.8	16.2	7.7	6.8	7.5	20.5	32.5	46.8	52.1
East India	17.8	32.1	29.9	36.1	49.7	49.5	49.8	41.6	44.4	45.2	41.0	34.1	31.5	66.2	91.2	138.2	182.0	181.3
Jharkhand	14.8	24.3	25.6	30.3	45.0	44.7	45.8	36.5	29.4	33.9	38.4	32.0	26.4	56.8	83.5	129.4	168.7	165.0

Orissa	1.0	0.7	1.0	0.8	1.8	1.3		1.7	1.7	1.7			3.7	7.9	5.7	6.9	10.9	13.0
West Bengal	2.0	7.1	3.3	5.0	2.9	3.5	3.9	3.5	13.3	9.6	2.5	2.1	1.4	1.5	2.0	1.9	2.5	3.3
North India	90.4	185.1	163.2	210.0	290.3	328.4	391.8	325.1	313.2	318.9	289.6	220.5	346.8	587.7	766.0	811.1	1091.1	1151.2
Delhi	0.1	4.3	3.5	3.9	4.6	7.6	1.1	6.1	3.7	8.2	7.2	3.2	1.3	35.3	34.8	40.7	64.2	0.9
Haryana	34.8	103.5	64.0	86.3	117.8	156.3	212.6	146.2	135.2	116.4	95.6	81.8	198.7	308.1	380.2	330.3	402.8	403.3
Himachal Pradesh	0.7	1.2	1.7	2.0	1.0	1.1	1.9	3.7	3.6	3.6	3.2	3.0	2.9	7.5	15.2	22.5	43.3	43.9
Punjab	6.3	10.9	17.2	22.7	28.2	21.2	37.0	32.4	24.9	25.8	29.4	21.0	26.8	21.2	30.5	24.9	30.4	28.1
Uttar Pradesh	43.6	59.9	70.1	85.2	125.9	125.9	119.5	117.6	126.0	147.9	138.1	93.8	88.2	178.6	251.8	325.3	461.0	459.8
Uttarakhand	4.9	5.3	6.8	9.9	12.7	16.3	19.7	19.0	19.7	17.0	16.1	17.6	28.9	37.0	53.4	67.3	89.6	215.2
South India	43.1	58.9	65.7	88.9	96.5	115.2	124.3	126.2	151.7	168.8	215.0	249.9	348.2	571.3	927.5	1107.2	1562.1	730.5
Andhra Pradesh	3.7	3.0	4.6	5.2	6.6	9.4	10.2	8.8	9.7	14.1	22.1	28.2	32.9	37.9	39.9	45.6	52.5	59.4
Karnataka	11.5	13.6	18.9	17.3	21.1	24.3	31.6	34.7	37.1	34.4	36.8	32.9	48.9	70.7	94.5	105.6	166.3	178.0
Kerala	0.0	0.7	0.0		1.1	1.0			1.1		0.2	1.6	9.1	1.4	21.4	41.4	122.5	
Pondicherry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0								
Tamil Nadu	28.0	41.5	42.2	66.4	67.7	80.5	82.6	82.7	103.7	120.3	155.9	187.1	257.3	461.3	771.7	914.6	1220.8	493.1
West India	73.6	89.3	108.8	101.3	128.9	158.7	164.1	165.0	176.0	166.4	195.2	154.1	288.8	384.5	543.5	692.3	982.0	1501.5
Daman & Diu							0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3	0.4	0.3	0.6	0.7
Goa	1.2	1.7	1.6	0.3	1.1	1.3	1.1	1.0	0.3	0.6				0.0	0.1	0.1	16.9	15.0
Gujarat	2.9	6.0	8.6	3.4	7.3	13.7	17.8	9.0	21.1	18.5	21.9	6.8	53.6	57.2	53.9	72.2	109.2	86.8
Maharashtra	59.8	68.8	83.8	82.0	98.1	116.6	117.3	126.6	129.0	129.4	150.7	124.9	205.3	291.5	432.7	559.7	757.4	1297.6
Rajasthan	9.8	12.8	14.8	15.6	22.4	27.1	27.9	28.4	25.6	17.9	22.5	22.2	29.7	35.5	56.5	60.0	97.8	101.4
Grand Total	229.8	371.0	374.7	447.1	576.5	666.1	744.4	673.1	712.6	723.3	757.0	666.2	1022.1	1617.2	2348.6	2781.2	3864.0	3616.4

Note & Source: Same as Table-A1.

Table-A16 Exports of Wood & Wood Products by Indian States, 1991–2008, US\$ million.

Region/state	Wood exports (US\$ million)																	
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Central India						0.4	0.2	0.0				1.6	1.8	0.1	1.0	0.5	1.1	0.6
Chhattisgarh						0.4	0.2	0.0						0.1	1.0	0.5	1.1	0.6
Madhya Pradesh												1.6	1.8					
East India			0.1	1.1	2.3	1.0	0.7	0.5	1.3	1.2	0.7	1.1	1.0	0.8	1.1	1.5	2.7	3.1
Orissa			0.1	0.9	2.2	0.6	0.1	0.0	0.0									
West Bengal			0.0	0.1	0.1	0.4	0.6	0.4	1.3	1.2	0.7	1.1	1.0	0.8	1.1	1.5	2.7	3.1
North India	0.3	0.4	0.2	2.1	3.4	4.3	2.9	2.2	1.7	1.0	0.7	0.9	1.3	1.5	2.2	2.5	4.1	4.4
Haryana	0.0	0.0		0.0	1.4	2.7	0.7	0.1	0.0					0.0	0.1	0.5	1.4	1.8
Uttar Pradesh	0.3	0.3	0.2	2.1	1.8	1.2	1.9	1.3	0.4	0.1	0.0	0.0	0.0	0.0	0.1		0.0	0.0
Uttarakhand				0.0	0.2	0.3	0.3	0.8	1.3	0.9	0.7	0.9	1.3	1.5	2.0	2.0	2.7	2.7
Northeast India	0.3	0.3	0.2	2.4	2.0	2.0	3.0	1.7	2.1	2.1	1.2	1.7	1.3	0.8	1.1	1.0	1.4	1.3
Assam	0.3	0.3	0.2	2.4	1.9	1.8	2.8	1.3	1.4	1.7	0.8	1.2	0.7	0.0	0.1		0.0	0.0
South India	0.8	0.6	0.7	5.1	5.3	3.5	4.1	3.1	3.3	2.5	1.1	1.5	5.5	6.0	8.0	10.9	18.6	10.9
Andhra Pradesh				2.8	2.9	1.8	1.7	1.3	1.4									
Karnataka															0.1	0.1	0.1	0.0
Kerala	0.7	0.4	0.6	1.2	1.3	0.6	0.8	0.7	0.5	1.2	0.4	0.5	1.7	1.7	0.2	3.5	2.6	3.0
Tamil Nadu			0.0	0.1	0.2	0.5	0.6	0.4	1.2	1.2	0.7	1.1	3.9	4.3	7.6	7.3	15.9	7.9
West India	0.3	0.3	0.2	2.1	1.9	1.4	2.5	3.2	3.1	2.5	2.5	2.5	3.3	3.6	5.1	3.9	5.6	8.8
Maharashtra	0.3	0.3	0.2	2.1	1.8	1.2	2.4	2.8	2.5	2.0	2.1	2.0	2.7	2.9	4.1	2.9	4.2	7.5
Rajasthan				0.0	0.1	0.2	0.2	0.4	0.7	0.5	0.3	0.5	0.6	0.8	1.0	1.0	1.4	1.3
Grand Total	1.6	1.6	1.4	12.8	14.9	12.5	13.4	10.7	11.5	9.3	6.2	9.3	14.2	12.8	18.4	20.3	33.5	29.2

Note & Source: Same as Table-A1.