

A Comparative Study of Industrial Development in Himachal Pradesh After the Special Industrial Package

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Abstract

The economy of Himachal Pradesh is mainly dependent upon agriculture as it contributes to more than 45% of its state domestic product, and 71% of the state's labour force is employed in this sector. Being a hilly region, the scope of agriculture is very limited, and the government promotes industrialization through various investor friendly measures. Considering Himachal Pradesh as one of the industrially backward hilly states, the Government of India announced a special economic package for the state along with other hill states (i.e. Jammu & Kashmir and Uttarakhand) to augment the process of industrialization. In this paper, an attempt was made to assess the impact of the special economic package on the growth of industries and overall development of the state by comparing it with the neighboring states. The study found that the state registered a significant growth in terms of the number of factories, capital employed, industrial employment, and capital formations during the period from 2003-04 to 2011-12 in comparison to other states.

Keywords: special economic package, industrial workers, capital formation, hilly state

JEL Classification: H32, L52, R3, Q18

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Himachal Pradesh, being a hilly state, is dependent upon agriculture and horticulture. The state is one of the advanced states in India due to well established education system, road network, rich forest and natural resources, a rich heritage of handicrafts, and abundant and uninterrupted supply of electricity at reasonable prices.

Considering the limited scope for agriculture, government promotes industrialization in the state through various industrial policies accompanied with the development of industrial infrastructure in various industrial areas and estates. The Government established various agencies like Directorate of Industries, HP General Industries Corporation, HP state Industrial Development Corporation, Industry Centre at District level, Small Industrial Development Bank of India, HP Financial Corporation, Small Industries Service Institute, Baddi Barotiwala Nalagarh Development Authority (BBNDA), and HP State Handicrafts and Handloom Corporation (HIMCRAFT) to expedite the industrialization process. Government eases the process for project clearance through a state level single window clearance and monitoring cell as well as provides subsidies to medium and small scale industries. Being one of the power surplus states in India having ample potential for hydro-electricity generation, the state is able to provide uninterrupted power supply at reasonable power tariff structure.

Promotion and development of industrial environment in the state was a tedious job because of its geographical conditions, limited availability of mineral resources and skilled labour, and inadequate connectivity. Considering the industrial potential of the state, the government at the Centre provides a special package to the state along with Uttarakhand and Jammu & Kashmir in terms of tax exemptions, capital subsidy, investment allowance, and enhancement in assistance in various central government schemes to promote industrial infrastructure.

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The main objective of all these industrial stimulus was to develop a quality industrial infrastructure in high potential industrial growth centers, attract industries into the state, provide employment opportunities to local people, enhance revenue for overall development, encourage and sustain the cottage and tiny industrial sectors, and finally achieve balanced economic and social growth in all regions of the state, particularly the industrial backward areas.

The historical experience observed that industrial development, which is a major cause of economic development, gets concentrated in some urban centers and economic development which is led by industrialization takes place in the surrounding regions. Therefore, the disparities have cropped up between the regions of the country. The concept of backward regions and the concern for their development is not only confined to the developed countries, but the developing countries also recognize the problem of growing regional disparities and felt the need for the development of industries in the backward regions through various monetary and non monetary incentives. Most of the studies found that these incentives have been successful in promoting balanced economic growth and in some of the studies, these incentives just lead to relocation of industries and being too expensive in terms of the cost to the public exchequer of each new job created. Large numbers of studies have been conducted to assess the impact of incentives on industrial growth than on the development of a region.

Industrialization plays a crucial role in the development of a country by raising income, by creating and widening employment opportunities, by expanding trade and commerce, and thereby increasing the pace of capital formation and technology changes (Maizels, 1986). Kuznet (1948) saw industrialization as the permanent growth of the proportion of the non-agricultural sectors within the national economy running with considerable increase of the total industrial production as well as with the spread of up-to-date technology. Bagnar (1960) stated that industrialization is an economic and social process affecting not only the technological standards of the given country, but also the habits of the consumers, the way of thinking, and the organization of the actions, processes, and events in the life of the given society.

The process of industrialization in a particular region not only influences the economic sphere of people's life by raising income and employment opportunities, but it also influences the social and cultural life with increased opportunities for education, superior housing, public health, and other infrastructural facilities. Studies conducted by Dadibhavi (1991) ; Gayithri (1997) ; Mitra (1999) ; Kumar (2000) ; Sridhar (2003) ; Sharma (2007) ; Mittal (2008) ; Sharda, Kumar, and Chandel (2008) ; Flatters (2010) ; Singh and Khurana (2010) ; Patkar and Bhaduri (2011); Narta and Rashmi (2011) have highlighted the various issues related to impact of incentives and role of various agencies on industrialization and development.

The present research work is an attempt to make a comparative analysis of industrial development in the state of Himachal Pradesh due to special package in terms of balanced industrial growth and employment generation for locals by comparing it with the neighboring states.

Research Design

The study is based upon secondary data collected from Annual Survey of Industries, Industrial reports of the respective states, Plan documents, Economic Surveys, and so forth. The data were analyzed for a period of 12 years beginning from 1998-1999 to 2009-2010 and is divided into two periods, that is, the Pre-Package Period (1998-2003) and the Package Period (2003-2010). While analyzing the data, a recessionary trend has been observed in all the variables at the national level as well as in all the three states during the pre-package period ; whereas, a growth trend was noticed during the package period. These movements in the variables are not because of the package, but may be due to the impact of trade cycles. Thus, an adjustment has been done to remove the impact of trade cycle on the growth of industries by deducting an adjustment factor. The adjustment factor is taken as the average growth rate in variables in neighboring states and at the national level.

Table 1. Project Approved by the Government up to March, 2013

Category	Units	Investment	Employment
	Nos	(₹ in crores)	Nos
New medium/ large scale projects	1039	33370.83	175341
Expansion of existing units of medium and large scale sector	167	3114.08	12758
Total medium and large scale	1,206	36,484.91	1,88,099
New small scale units	14616	10913.57	3,35,589
Expansion of existing units of small scale sector	259	233.36	3543
Total small scale	14,875	11,146.93	3,39,132
Grand Total	15,655	47,631.84	5,27,231

Source: Department of Industry, Government of Himachal Pradesh

Results and Discussion

Year wise details of industrial units registered in Himachal Pradesh after the announcement of the special package have been presented in the Table1 and Table 1A, and it has been observed that before the announcement of the package, there were about 30,372 industrial units in the state with an investment of ₹ 70,977.48 lakhs and 1,29,871 persons were employed in these units. The Government had approved 15,655 projects up to March 31, 2013 consisting of 1206 units in medium and large scale sector and 14,875 units in the small scale sector with an expected investment of ₹ 47 thousand crores.

Out of this, 8,335 new units consisting of 8,044 in the small scale level and 291 medium and large scale units were registered after the special package and had invested more than ₹ 448291.2 lakhs. These new units have provided employment to more than 77,000 persons. This means that the special package has resulted in significant growth of industries in the state. These industries are producing from traditional to a wide spectrum of high - tech products like computer monitors, magnetic components, high quality precision components, tele-communication equipments, electronics, drugs and pharmaceuticals, processed food items, textiles, and spinning products.

Number of Factories

The most common indicator for the level of industrialization is the number of factories in an area. As in any demographic study, the absolute population is the most important variable in any analysis ; for any industrialization study, the number of factories is the most crucial variable. The Table 2 highlights that the state had registered a higher growth rate, that is, 27.35% growth rate during the package period as compared to 1.26% in Haryana, 7.11% in Punjab, and 3.27% at the national level. The faster growth in Himachal Pradesh in comparison to the other neighbouring states during the package period clearly indicates the positive impact of the package.

By observing the growth rate during the pre-package period, it was found that the growth of industries in all the three states as well as in India level was unsatisfactory. A negative growth rate was observed in Punjab and at the national level. Himachal Pradesh and Haryana recorded positive growth rate of 3.79% and 3.44%, respectively. However, it is worthwhile to mention that Haryana recorded a very low growth rate, that is, only 1.26% during the package period, meaning that some of the industries shifted towards Himachal Pradesh or Uttarakhand.

The major increase in industrialization in Himachal Pradesh started from the year 2004-2005, though the package was started in 2003. This may be explained by the gestation period of the industrial investment proposals and the time taken in the procedural formalities for setting up industries. The state recorded a growth rate of 20.62% in a number of factories only because of this special package. Thus, it may be concluded that there has been a definite positive impact of the special package in Himachal Pradesh in terms of the number of factories.

Table 1A. Year Wise Detail of Registered Industries in Himachal Pradesh after Special Economic Package

Year	Medium and Large Scale			Small Scale			Total		
	Projects	Investment	Employment	Projects	Investment	Employment	Projects	Investment	Employment
	in Nos	(₹ in lacs)	in Nos	in Nos	(₹ in lacs)	in Nos	in Nos	(₹ in lacs)	in Nos
up to 3/03	196	237806	29823	30176	70977	129871	30372	308783	159694
2003-04	15	3494	762	663	3708	3769	678	7202	4531
2004-05	35	30287	3473	913	8891	6412	948	39178	9885
2005-06	64	50159	4606	914	12217	6611	978	62377	11217
2006-07	46	61526	4568	952	45273	10665	998	106799	15233
2007-08	19	48264	1923	842	70637	11302	861	118901	13225
2008-09	46	114103	4225	909	73795	10939	955	187899	15164
2009-10	23	134382	2703	1032	75320	10011	1055	209702	12714
2010-11	27	211834	3740	963	96539	10002	990	308373	13742
2011-12	16	187929	2981	856	61909	7732	872	249838	10713
During package	291	841978	28,981	8044	4,48,291	77,443	8335	1290269	106424
Total	487	1079784	58804	38220	519268.7	207314	38707	1599053	266118

Source: Department of Industries, Government of Himachal Pradesh

Fixed Capital

The data pertaining to the fixed capital gives the real impact of the package as this is a more crucial variable than the number of factories. The comparison of the growth rate of the fixed capital given in the Table 3 reveals that Himachal Pradesh and neighboring states had very low growth rates during the pre-package period. Surprisingly, the highest growth among the states under study in this period was seen in case of Punjab, that is, 7%.

Table 2. Number of Factories

Year	H.P.	Haryana	Punjab	All India
1998-1999	428	3,786	7,003	1,31,706
1999-2000	508	4,296	6,910	1,31,558
2000-2001	507	4,448	7,137	1,31,268
2001-2002	500	4,437	7,249	1,28,549
2002-2003	509	4,437	6,987	1,27,957
2003-2004	530	4,265	6,853	1,29,074
2004-2005	653	4,339	7,575	1,36,353
2005-2006	808	4,304	8,332	1,40,160
2006-2007	851	4,410	9,256	1,44,710
2007-2008	1,160	4,707	10,178	1,46,385
2008-2009	1,294	4,450	10,065	1,55,321
2009-2010	1,545	4,640	10,262	1,58,877
Annual Growth (1998-2003)	3.79	3.44	-0.05	-0.57
Annual Growth (2003-2010)	27.35	1.26	7.11	3.27
Difference in Growth in the Pre Package & Package Period	23.56	-2.18	7.16	3.84
Growth Due to Package	20.62	Adjustment Factor: 2.94		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

In the package period, keeping in view the overall positive sentiments, the growth rates for all the states showed much better performance with the growth in other states hovering around the all India average of 23%. However, Himachal Pradesh outshined with the average annual growth rate of 52.50%, which was nearly double of the country growth rate (26.52%). This reflects the fact that Himachal Pradesh has been successful not only in attracting more number of factories, but was also able to attract medium and large scale industries. Obviously, there were enough reasons for Punjab and Haryana to oppose the special package granted to Himachal Pradesh. The impact assessment due to the package in the state revealed an outstanding growth rate of 27.24%.

Invested Capital

The data pertaining to invested capital depicted in the Table 4 follows the low - growth trend, as in the case of fixed capital, low growth rates during the pre-package period were observed in all the states. However, during the package period, the state grew sharply at an annual growth rate of 54.49% in comparison to the performance of the other states and all India growth rate of 26.35%. The growth rate due to the package granted to Himachal Pradesh explained a 27.56% growth rate, meaning that the package resulted in a significant growth of invested capital in Himachal Pradesh.

Number of Industrial Workers

One of the professed objectives of industrialization is employment generation. The data on the number of industrial workers shown in the Table 5 reveals that the state achieved an exceptionally high growth rate of 37.15% during the package period as compared to a negative growth rate during the pre-package period. This growth rate is more than double as compared to growth rates of Punjab and Haryana. The impact of the package for Himachal Pradesh resulted in 25.96% growth in number of industrial workers. Although the data related to the number of industrial workers highlights the success of the package in generating huge employment opportunities

Table 3. Fixed Capital (₹ Lakhs)

Year	H.P.	Haryana	Punjab	All India
1998-1999	2,87,331	11,12,285	8,42,513	3,91,15,145
1999-2000	3,21,001	13,16,705	10,07,595	4,01,86,473
2000-2001	3,40,581	13,98,028	8,49,312	3,99,60,422
2001-2002	4,11,358	14,37,671	8,41,874	4,31,96,013
2002-2003	3,58,278	14,10,886	11,19,761	4,44,75,938
2003-2004	5,71,383	15,13,413	9,25,642	4,73,33,140
2004-2005	5,94,781	16,62,464	10,71,349	5,13,06,925
2005-2006	8,29,821	18,52,399	13,92,579	6,06,94,028
2006-2007	8,28,197	22,37,053	18,36,524	7,15,13,139
2007-2008	20,00,292	28,86,838	21,78,348	8,45,13,209
2008-2009	2189,156	37,06,457	26,48,036	10,55,96,614
2009-2010	26,71,378	40,22,443	26,10,606	13,52,18,367
Annual Growth (1998-2003)	5	5	7	3
Annual Growth (2003-2010)	52.50	23.68	26.00	26.52
Difference in Growth in the Pre Package & Package Period	47.50	18.68	19.00	23.52
Growth Due to Package (Before and After Frame)	27.24	Adjustment Factor: 20.26		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

Table 4. Invested Capital (in ₹ Lakhs)

Year	H.P.	Haryana	Punjab	All India
1998-1999	3,67,187	1,744,983	1,404,612	53,706,813
1999-2000	4,14,971	2,146,941	1,784,341	56,663,430
2000-2001	4,57,664	2,187,358	1,500,810	57,179,940
2001-2002	5,16,647	2,156,012	1,498,125	60,591,285
2002-2003	4,71,373	2,192,630	1,859,939	63,747,308
2003-2004	6,97,916	2,411,266	1,660,452	67,959,853
2004-2005	7,41,391	2,649,303	1,925,187	75,941,770
2005-2006	10,84,540	2,987,200	2,373,166	90,157,861
2006-2007	10,87,592	3,703,862	3,232,458	107,150,382
2007-2008	24,47,573	4,785,642	3,998,676	128,012,553
2008-2009	28,74,252	6,133,423	4,612,258	153,517,773
2009-2010	33,59,874	6,472,739	4,842,949	19,330,5395
Annual Growth (1998-2003)	6	5	6	4
Annual Growth (2003-2010)	54.49	24.06	27.38	26.35
Difference in Growth in the Pre Package & Package Period	48.49	19.06	21.38	22.35
Growth Due to Package	27.56	Adjustment Factor : 20.93		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India.

in the state, but the qualitative observations and the information gathered from various sources indicate that most of the industrial workers are migrant workers from other states. Thus, from the point of view of significant employment generation, significant benefits have been filtered away to the other states.

Total Persons Engaged in Industry

The data on total persons engaged in industry broadly follows the trend of the total number of industrial workers (Table 6). The pre-package period performance for all the states was either negative or negligible with the exception of Punjab, which recorded a positive annual growth of 2%. During the package period, the performance of Himachal Pradesh improved drastically, and recorded a growth rate of 35.73% per annum. It is worthwhile to note that during this period, Haryana also recorded an average annual growth rate of 11.96%. The pre-package and package-period growth rates reveal that all the states performed much better in the package-period due to factors beyond the package. The impact of the package to the state explained a 24.76% increase in total persons engaged in the industry.

Wages to Workers

The amount of wages spent on workers indicates the purchasing power that goes into the hands of the industrial workers, and it shows the socioeconomic impact of industrialization. As shown in the Table 7, during the package period, HP registered a growth rate of 61.37% per annum in terms of wages paid to workers, which was in negative before the announcement of the industrial package. The impact of the package to the state explained 43.99% average annual increase in total wages paid to workers engaged in industry, meaning that the package had made a positive impact on the wages.

Table 5. No. of Industrial Workers

Year	H.P.	Haryana	Punjab	All India
1998-1999	25,493	275,650	253,213	6,364,464
1999-2000	31,015	215,094	265,261	6,280,659
2000-2001	29,788	217,532	278,303	6,135,238
2001-2002	26,518	208,062	271,845	5,957,848
2002-2003	25,375	223,831	276,677	6,161,493
2003-2004	27,636	234,824	264,597	6,086,908
2004-2005	33,750	268,557	309,820	6,599,298
2005-2006	42,614	305,740	350,747	7,136,097
2006-2007	52,260	331,865	402,588	7,880,536
2007-2008	72,095	400,895	435,386	8,198,110
2008-2009	84,497	377,322	431,568	8,776,745
2009-2010	99,513	463,570	454,334	9,157,802
Annual Growth (1998-2003)	-0.1	-4.0	2.0	-1.0
Annual Growth (2003-2010)	37.15	13.92	10.24	7.21
Difference in Growth in the Pre Package & Package Period	37.16	17.92	8.24	8.21
Growth Due to Package	25.96	Adjustment Factor: 11.20		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

Table 6. Total Persons Engaged in Industry

Year	H.P.	Haryana	Punjab	All India
1998-1999	33,664	376,585	322,274	8,588,581
1999-2000	40,152	298,501	338,647	8,172,836
2000-2001	39,368	300,882	358,558	7,987,780
2001-2002	36,263	287,253	348,668	7,750,366
2002-2003	34,023	299,765	351,102	7,935,948
2003-2004	36,753	318,266	336,397	7,870,081
2004-2005	44,287	354,861	391,081	8,453,624
2005-2006	56,838	396,155	439,246	9,111,680
2006-2007	67,752	426,717	507,463	10,328,434
2007-2008	95,612	509,617	550,351	10,452,535
2008-2009	110,242	607,527	544,776	11,327,485
2009-2010	128,665	584,762	568,211	11,792,055
Annual Growth (1998-2003)	0	-4	2	-2
Annual Growth (2003-2010)	35.73	11.96	9.84	7.12
Difference in Growth in the Pre Package & Package Period	35.73	15.96	7.84	9.12
Growth Due to Package	24.76	Adjustment Factor: 10.97		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India.

Table 7. Wages to Workers (₹ lakhs)

Year	H.P.	Haryana	Punjab	All India
1998-1999	11,210	111,448	78,019	2,482,648
1999-2000	9,900	97,434	91,657	2,630,427
2000-2001	11,077	101,886	98,648	2,767,074
2001-2002	10,522	100,857	103,691	2,743,824
2002-2003	10,751	120,040	110,957	2,968,905
2003-2004	12,261	130,860	113,546	3,047,777
2004-2005	15,103	145,656	130,533	3,363,505
2005-2006	19,499	166,550	155,386	3,766,366
2006-2007	24,415	192,388	185,167	4,429,135
2007-2008	39,593	253,746	216,337	5,103,023
2008-2009	51,202	273,749	231,594	5,977,184
2009-2010	64,937	418,823	269,818	6,894,071
Annual Growth (1998-2003)	-1	2	8	4
Annual Growth (2003-2010)	61.37	31.44	19.66	18.03
Difference in Growth in the Pre Package & Package Period	62.37	29.44	11.66	14.03
Growth Due to Package	43.99	Adjustment Factor : 18.38		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

Net Value Addition

The net value addition may be treated as the most significant indicator of the level of industrialization in a state. Here, it must be pointed out from the Table 8 that in the year 2009-10, Himachal Pradesh recorded a net value addition of ₹ 1,375,547 lakhs in comparison to ₹ 1,473,619 lakhs and ₹ 2,035,386 lakhs in case of Punjab and Haryana, respectively. Since the net value added is one of the best possible indicators of industrialization, though it ignores the population and area parameters of the state, it reflects that Himachal Pradesh has reached quite high levels of industrialization in terms of net value added. If these figures are sustainable, then the objective of the package to the state seems to have been fulfilled. Naturally, once the lagging states attain the level of industrialization in the other neighbouring states, there may be no justification of extending the package for a further period.

The annual growth rate of the net value addition was unexpectedly higher in case of Himachal Pradesh at 98.01% per annum as compared to the neighbouring states. This implies that some of the value addition from Haryana and Punjab might indeed have moved out to Himachal Pradesh. However, it needs to be observed whether the net value added figures are based on the alleged manipulation and over-reporting of value addition in the state by the firms to gain excess-benefit illegitimately by availing the excise duty concessions over and above the actual value addition in the state or not. The analysis of net value added as percentage of output would clear the situation. However, the qualitative observations and information gathered by the state government revealed that a number of factories set up in the state hardly have any actual production and the only purpose of setting up these temporary units is to avoid taxes and availing fiscal incentives. Several such cases have been caught by the government authorities and are often reported in the media.

Gross Fixed Capital Formation

It can be seen from the Table 9 that Himachal Pradesh had a gross fixed capital formation at ₹ 49,775 lakhs in

Table 8. Net Value Added (in ₹ Lakhs)

Year	H.P.	Haryana	Punjab	All India
1998-1999	87,395	546,899	498,800	14,546,105
1999-2000	112,132	650,151	559,388	15,497,442
2000-2001	130,789	557,054	430,080	14,362,141
2001-2002	128,547	651,278	542,928	14,430,212
2002-2003	143,162	765,728	548,490	17,234,004
2003-2004	174,991	914,334	531,406	20,293,276
2004-2005	218,516	1,169,560	580,741	25,990,686
2005-2006	569,280	1,358,920	661,710	31,186,419
2006-2007	709,902	1,530,711	1,042,899	39,572,526
2007-2008	1,125,555	1,827,000	1,416,746	48,159,268
2008-2009	1,333,237	2,035,386	1,256,840	52,776,558
2009-2010	1,375,547	2,797,454	1,473,619	59,211,387
Annual Growth (1998-2003)	13	8	2	4
Annual Growth (2003-2010)	98.01	29.42	25.33	27.40
Difference in Growth in the Pre Package & Package Period	85.01	21.42	23.33	23.40
Growth Due to Package	62.69	Adjustment Factor: 22.72		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

1998-99, which rose to ₹ 2, 58,850 lakhs in the year 2009-10 (almost by 5.2 times). It registered an average annual growth rate of 18.74% during the incentive period, but this growth rate is comparatively less than it was in other states and the national average of 52.33%. However, in terms of package impact, Himachal Pradesh explained -16.84% annual increases in gross fixed capital formation, which means Himachal Pradesh has lagged far behind in accumulating fixed capital formation and has failed to attract capital despite the package incentives.

Average Annual Wage Per Worker

The annual growth rate of the wages for Himachal Pradesh showed an appreciable increase (Table 10). The growth rate increased from a negative figure of - 1% in the pre-package period to 6.73% during the package period, just equivalent to the all India average. The change in average annual wage per worker in the before- and after- framework reflected as an increase of 7.05% per annum while in case with- and without- framework, there was a mild increase of 0.55% per annum. Thus, it seems that the package to the state has benefited the workers employed in the industry as there was an increase in average wage per worker in Himachal Pradesh.

Fixed Capital per Factory

The fixed capital per factory data highlights the fact that capital subsidy has led to high ratios of fixed capital per factory in Himachal Pradesh. Unlike all other indicators, in respect of fixed capital per factory, it is Himachal Pradesh which is still the leader with average fixed capital of ₹ 1,729 lakhs in the year 2009-10 (Table 11). However, Haryana had more than double growth rate of Himachal Pradesh, which was 20.60% per annum as compared to only 8.63% in Himachal Pradesh. The impact of the package resulted in negative, that is, -5.71% annual increase in fixed capital per factory in case of Himachal Pradesh, which shows that the state has lagged behind in this area.

Table 9. Gross Fixed Capital Formation (in ₹ Lakhs)

Year	H.P.	Haryana	Punjab	All India
1998-1999	49,775	303,318	113,480	6,907,081
1999-2000	60,191	312,095	124,014	4,867,882
2000-2001	43,879	239,306	99,399	4,687,927
2001-2002	36,640	215,850	97,817	7,015,145
2002-2003	38,874	259,422	236,616	4,745,424
2003-2004	111,981	202,738	119,714	5,753,380
2004-2005	60,308	366,041	216,443	7,525,046
2005-2006	174,099	431,504	322,930	12,607,674
2006-2007	121,024	525,174	434,598	14,432,500
2007-2008	367,642	733,673	466,081	17,779,098
2008-2009	179,940	866,919	581,302	22,594,701
2009-2010	258,850	817,828	422,011	26,830,068
Annual Growth (1998-2003)	-4	-3	22	-6
Annual Growth (2003-2010)	18.74	43.34	36.07	52.33
Difference in Growth in the Pre Package & Package Period	22.74	46.34	14.07	58.33
Growth Due to Package	-16.84	Adjustment Factor: 39.58		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

Table 10. Average Annual Wages per Worker (in ₹)

Year	H.P.	Haryana	Punjab	All India
1998-1999	43,973	40,431	30,812	39,008
1999-2000	31,920	45,298	34,554	41,881
2000-2001	37,186	46,837	35,446	45,101
2001-2002	39,679	48,474	38,143	46,054
2002-2003	42,368	53,630	40,103	48,185
2003-2004	44,366	55,727	42,913	50,071
2004-2005	44,750	54,237	42,132	50,968
2005-2006	45,757	54,474	44,301	52,779
2006-2007	46,718	57,972	45,994	56,203
2007-2008	54,918	63,295	49,689	62,246
2008-2009	60,596	72,551	53,663	68,103
2009-2010	65,255	90,347	59,388	75,281
Annual Growth (1998-2003)	-1	7	6	5
Annual Growth (2003-2010)	6.73	8.87	5.48	7.19
Difference in Growth in the Pre Package & Package Period	7.73	1.87	-0.52	2.19
Growth Due to Package	6.55	Adjustment Factor: 1.18		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

Table 11. Fixed Capital per Factory (in ₹)

Year	H.P.	Haryana	Punjab	All India
1998-1999	671	294	120	297
1999-2000	632	306	146	305
2000-2001	672	314	119	304
2001-2002	823	324	116	336
2002-2003	704	318	160	348
2003-2004	1,078	355	135	367
2004-2005	911	383	141	376
2005-2006	1,027	430	167	433
2006-2007	973	507	198	494
2007-2008	1,724	613	214	577
2008-2009	1,692	833	263	680
2009-2010	1,729	867	254	851
Annual Growth (1998-2003)	1	2	7	3
Annual Growth (2003-2010)	8.63	20.60	12.59	18.84
Difference in Growth in the Pre Package & Package Period	7.63	18.60	5.59	15.84
Growth Due to Package	-5.71	Adjustment Factor: 13.34		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

Average Number of Workers per Factory

The average number of workers per factory indicates the average size of the firms and it is argued by some that instead of the capital per factory, it is the number of workers per factory that should be emphasized in development policy. It is observed from the Table 12 that Haryana had the highest average number of workers per factory, that is, 100 workers per factory during the year 2009-10 followed by Himachal Pradesh (66), and Punjab (44). The analysis of the pre-package and package-period data reveals no significant impact of the special package on the average number of workers in Himachal Pradesh. Thus, it is doubtful whether the increase in case of Himachal Pradesh can be attributed solely to the special package or is it inconsistent with other states, and the impact of the package seems to have been insignificant in terms of average number of workers per factory.

The Capital Labour Ratio

The capital labour ratio as depicted in the Table 13 is highest in case of Himachal Pradesh, that is, ₹ 26.84 lakhs per worker. It may be attributed to the capital investment subsidy. The increase in the capital labour ratio was almost similar for all the states during the package period, and Punjab had witnessed the highest growth rate of 9.18% per annum followed by Haryana at 4.97% , and 4.26 % in Himachal Pradesh as against the national average of 12.82%. It seems that there was hardly any significant impact of the package on the capital labour ratio during pre-package and package periods as the state recorded a negative growth rate, that is, 3.73%.

Conclusion

The package has led to industrialization of the state, but it is still far behind other neighboring states. There has been a definite positive and significant impact of the package, both in with and without the framework as well as before- and after the framework in Himachal Pradesh in terms of an increase in the number of factories, fixed

capital, invested capital, number of industrial workers, total persons engaged in industry, wages to workers, total emoluments, net value added, value of output, and gross fixed capital formation.

Although the data related to the number of industrial workers highlights the success of the package in generating huge employment opportunities in Himachal Pradesh, but most of the industrial workers in Himachal Pradesh are migrant workers from other states. Thus, significant benefits have been filtered away to other states. Very high figures of net value as a percentage of output for Himachal Pradesh reflect rampant misuse of the fiscal incentives. There is alleged manipulation and over-reporting of value addition in Himachal Pradesh by the firms to gain excess-benefits illegitimately by availing the excise duty concessions over and above the actual value addition in the state.

During the course of the study, the package for Himachal Pradesh has received both praise and criticism. Supporters firmly believe that new factories would not have been established in Himachal Pradesh without the package incentives. The critics, on the other hand, view the package as being too expensive in terms of the cost to the public purse of each new job created. Other critics focus on the relocation of industries from the neighbouring states. Whatever the problems or constraints, the package has made a positive contribution to the industrialization in Himachal Pradesh. However, the state should be capable of becoming a high quality location if the impact of the incentives is to continue beyond the duration of the package. If this is not followed, the industries in the state will collapse once the benefits are withdrawn, and industrial plots and sheds will become unlettable or unsalable.

Thus, the government should design these packages in such a way that it can avoid an unpredictable and risky business environment. These should be designed as simply and clearly as possible to avoid excessive government red-tapism and long delays in the provision of government services because a complex cocktail of different and overlapping incentives can make the business environment unduly obscure, and therefore, can be counter-productive by increasing the degree of real and perceived risk. International best practices suggest that the package incentive regime should be rule-based and not reliant on discretionary decisions, and its implementation should be equitable and transparent.

Research and Policy Implications

The study has highlighted various achievements of the government on industrial fronts along with various challenges and the factors which would be relevant in the next millennium. On the basis of the observations, findings, and conclusions of the present study, it has been proposed that providing good quality pre investment services to investors is important to secure potential investors' trust and for fast-track implementation of their investments. The most important post-investment services and after-care could help investors in expanding their operations. Single Window Clearance Authority (SWCA) can be used more effectively to obtain all the necessary approvals and documents, and undergo the necessary procedures for opening a business.

The government must draw up an explicit contract with a company receiving package incentives specifying explicit goals and performance requirements that the investor must satisfy and may include such factors as (a) the number of employees that must be hired to receive the incentives, the wages and benefits that must be paid, (b) to ban relocation of a facility for a specified period of time as well as specify the date by which the company should have fulfilled its performance requirements, (c) monitoring and disclosure requirements, and so forth. Penalties for breach of contract should be substantial, including claw-back provisions that stipulate the return of incentives awarded if conditions are not met. Even better is for incentives to be back-loaded whenever possible, that is, subsidies should only be paid when a firm attains its performance goals.

The government should open more number of industrial training institutes (ITIs); technical institutions need to train local people to fill the skill gap, and the course curriculum should be redesigned in collaboration with the industry and should be continuously updated to meet the changing requirements of the industry. Thus, the package incentives should also include a budget aimed at developing the skill levels of the labour force. The government needs to promote implementation of standards and certifications. Incentives may be given to small

Table 12. Average Number of Workers per Factory

Year	H.P.	Haryana	Punjab	All India
1998-1999	60	73	36	48
1999-2000	61	50	38	48
2000-2001	59	49	39	47
2001-2002	53	47	38	46
2002-2003	50	50	40	48
2003-2004	52	55	39	47
2004-2005	52	62	41	48
2005-2006	53	71	42	51
2006-2007	61	75	43	54
2007-2008	62	85	43	56
2008-2009	65	85	43	57
2009-2010	66	100	44	58
Annual Growth (1998-2003)	-3	-6	2	0
Annual Growth (2003-2010)	3.85	11.69	1.83	3.34
Difference in Growth in the Pre Package & Package Period	6.85	17.69	-0.17	3.34
Growth Due to Package	-.11	Adjustment Factor: 6.96		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India.

Table 13. Capital Labour Ratio (in ₹ Lakhs per Worker)

Year	H.P.	Haryana	Punjab	All India
1998-1999	11.27	4.04	3.33	6.15
1999-2000	10.35	6.12	3.80	6.40
2000-2001	11.43	6.43	3.05	6.51
2001-2002	15.51	6.91	3.10	7.25
2002-2003	14.12	6.30	4.05	7.22
2003-2004	20.68	6.44	3.50	7.78
2004-2005	17.62	6.19	3.46	7.77
2005-2006	19.47	6.06	3.97	8.51
2006-2007	15.85	6.74	4.56	9.07
2007-2008	27.75	7.20	5.00	10.31
2008-2009	25.91	9.82	6.14	12.03
2009-2010	26.84	8.68	5.75	14.76
Annual Growth (1998-2003)	5	11	4	3
Annual Growth (2003-2010)	4.26	4.97	9.18	12.82
Difference in Growth in the Pre Package & Package Period	-0.74	-6.03	5.18	9.82
Growth Due to Package	-3.73	Adjustment Factor : 2.99		

Source: Annual Survey of Industries, Ministry of Statistics & Programme Implementation, Government of India

scale enterprises for getting quality system certifications. Special cells at regional/state levels need to be created that would work as facilitating centers for implementation of standards and getting certifications.

Regular government interface with the industry is required as purely government initiatives could have

unintended implications that could frustrate economic growth and industrial development. Efforts should be made to address the specific concerns raised by firms about government implementation of policies, bureaucratic burdens, and uncertainty. The traditional industries should be encouraged by offering special packages and by promotions through melas & exhibitions.

Limitations of the Study and Scope for Further Research

There are different methods of evaluating the impact of a special economic package on industrial development, but in the present study, only secondary data were used to study the influence of special incentives offered to the state of Himachal Pradesh. Consequently, the validity of the present study's findings is limited due to the methodology which relied heavily on the data collected from various secondary sources. Thus, a primary survey can be conducted to further investigate the importance of various locational factors. The environmental consequences of investment incentives are unclear and substantially under-researched. The frequency with which incentives have gone to projects harming the environment was not considered in the present study. Similarly, there are reports that fertile agricultural lands in plain areas of Himachal Pradesh have been diverted to industries causing economic hardships to the farmers, and sometimes, this is done even without adequate compensation to the farmers. This also requires further investigation. The scope of the study is limited to assessing the impact in Himachal Pradesh only. Similar studies can be conducted in the future in other regions or special economic zones/free trade zones.

References

- Bagnar, J. (1968). *Economic policy and planning in developing countries* (pp. 521 - 529). Budapest : Akademiai Kiado.
- Dadibhavi, V. (1991). Growth of industry and industrial infrastructure : An inter-state analysis. *Yojana*, 34 (24), 9 - 12.
- Department of Industry, Government of Himachal Pradesh. (Various Years). *Annual reports (2001-2010)*. Retrieved from <http://www.himachal.nic.in/showfile.php/pdf>
- Directorate of Economics and Statistics. (Various Years). *Statistical abstract of all districts* (1993-94 to 2009-10). HP : Govt. of Himachal Pradesh.
- Flatters, F. (2010). Tax holidays: Give them a vacation. *TDRI Quarterly Review*, 16–18. Retrieved from <http://www.thaiscience.info/journals/Article>
- Gayithri, K. (1997). Role of infrastructure in the industrial development of Karnataka: A district level analysis. *Arthavijnana*, 39 (2), 16 - 18.
- Kumar, N. (2000, March 4). Economic reforms and their macro-economic impact. *Economic and Political Weekly*, 35 (10), 803-812.
- Kuznets, S. (1948). *The study of industrialization*. U.N. Department of Social Affair. (Mimeographed).
- Maizels, A. (1986). *Industrial growth and world trade: an empirical study of trends in production, consumption and trade in manufactures from 1899-1959, with a discussion of probable future trends* (No. 21, pp. 13 - 22). UK : Cambridge University Press.
- Ministry of Commerce and Industry, Department of Industrial Policy and Promotion, Government of India. (2012). *Annual Survey of industries (2011-2012)*. Retrieved from http://dipp.nic.in/English/Publications/Annual_Reports/AnnualReport_Eng_2011-12.pdf

- Ministry of Commerce and Industry, Govt. of India. (2001). *Handbook of industrial policy and statistics (2001)*. New Delhi : Government of India.
- Mitra, A. (1999). *Total factor productivity growth and technical efficiency in Indian industries: A study based on panel data for fifteen major states* (Working Paper Series No. E/203/99). New Delhi : Institute of Economic Growth.
- Mittal S., (2008). *Development strategy for the hill districts of Uttarakhand* (Working Paper No. 217). New Delhi : Indian Council for Research on International Economic Relations.
- Narta, S.S., & Rashmi C. (2011). *An evaluation of industrial promotional agencies in the development of Industries in Himachal Pradesh*. Himachal Pradesh University Journal, July. Retrieved from http://hpuniv.nic.in/Journal/Jul_2011_S%20S%20natra%20and%20Rashmi.pdf
- Patkar, M., & Bhaduri, A. (2011). Industrialization for the people, by the people, of the people. *Economic and Political Weekly*, 10 - 14. Retrieved from <http://epw.in/uploads/articles/13034.pdf>
- Sharda, N.K., Kumar, R., & Chandel, K. (2008). Special economic zones in the emerging economic scenario: Issues and challenges. *Prabandhan: Indian Journal of Management*, 1 (1), 22 - 27. DOI: 10.17010/pijom/2008/v1i1/64652
- Sharma, V. K. (2007). *Industrialization in tribal areas of Himachal Pradesh* (pp. 1 - 16). New Delhi: Kanishka Publishers.
- Singh, M., & Khurana, A. (2010). Special economic zones in India: Some ground realities. *Prabandhan: Indian Journal of Management*, 3 (12), 6-13. DOI: 10.17010/pijom/2010/v3i12/60995
- Sridhar, K. S. (2003). Firm location decisions and impact on local economies. *Economic and Political Weekly*, 38(39), 4121-4130.
- Tiwari, A. K. (2000). *Infrastructure and economic development in Himachal Pradesh*. New Delhi: Indus Publishing Company.