

CHAPTER – 1

An Overview of State Economy

After India became free in 1947, there was a demand in some quarters for the merger of Hill States with the east Punjab but it met with vehement opposition from the rulers and people. In what is Himachal Pradesh today, the Praja Mandal workers and the rulers had different opinions about the future of these hilly States. After a brief spell of hectic negotiation, the rulers and the Praja Mandal workers decided to inform Government of India to form a union of these small hill States with the name of Himachal Pradesh. In view of these events, the Central Government decided to integrate all these principalities into a single unit to be administered by Govt. of India through a Chief Commissioner.

As a result, Himachal Pradesh came into being as a part 'C' State of the Indian Union on 15th April, 1948 by integration/merger together of 30 big and small hill States. These States were Baghat, Bhajji, Baghal, Bija, Balsen, Bushehar, Chamba, Darkoti, Deloth-Dhadi, Dhami, Ghund, Jubbal, Khaneti, Kyarkoti, Kumarsain, Kunihar, Kuthar, Mandi, Madhan, Mahlog, Mangal, Kot(Ratesh), Keonthal, Rawinigarh, Sangri, Sirmaur, Suket, Tharoch & Theog. All these areas at that time constituted four districts viz. Chamba, Mahasu, Mandi and Sirmaur with an area of 27,169 square kilometres. In 1954, the neighbouring State of Bilaspur was integrated with Himachal Pradesh, thereby adding one more district with an area of 1167 square kilometres.

Himachal Pradesh continued as a part 'C' State of the Indian Union till 1956 when the States' Reorganisation Commission submitted its recommendations to abolish the categorisation of States as part A, B, C, etc. and recommended the merger of all part 'C' States either with the adjoining states of higher status or to maintain these independently as union territories till a further decision was taken. Himachal Pradesh continued to exist as a Union Territory till the conferment of statehood on 25th January, 1971.

In 1960, the border Chini tehsil of Mahasu district was carved out as a separate administrative unit and district Kinnaur was formed raising the total number of districts to six. On 1st November, 1966, the then Punjab State was reorganised with the formation of Haryana as a separate State and merger of the then Kullu, Kangra, Shimla and some hilly areas of Hoshiarpur district and Dalhousie of Gurdaspur district into Himachal Pradesh constituting the four new districts viz. Kullu, Lahaul & Spiti, Kangra and Shimla in Himachal Pradesh and merging Dalhousie into Chamba district. With this addition, Himachal Pradesh comprised of ten districts, an area of 55,673 square kilometres and a population of 28.12 lakh according to 1961 census.

On 1st September 1972, two more districts viz. Hamirpur and Una were created by trifurcation of Kangra district and the Mahasu and Solan districts were reorganised as Shimla and Solan districts. In this re-organisation, Shimla town was re-organised with the erstwhile Mahasu district to form Shimla district.

I. Geographical Features

(i) Location

1.1.1. Himachal Pradesh is situated between 30° 22' 40" to 33 ° 12' 20" north latitudes and 75 ° 45' 55" to 79 ° 04' 20" east longitudes. The altitude in the Pradesh, a wholly mountainous region in the lap of Himalayas, ranges from 350 metres to 6975 metres above mean sea level. It is surrounded by Jammu and Kashmir in the north, Tibet on north east, Uttarakhand east/south east; Haryana in south and Punjab in south west/west.

(ii) Climate

1.1.2. Himachal Pradesh can be divided into three regions: - (i) The Shivalik ranges (the height from plain upto 915 metres); (ii) Colder Zone (the height is about 4500 metres); and (iii) the Axis and Crystalline core of the whole system (the height above 4500 metres but below 5500 metres).

1.1.3. The climatic conditions, therefore, vary from the semi- tropical to semi-artic. Physiographically, the State can be divided into five zones based on altitudes and moisture regime conditions. These vary from wet humid sub-temperate situation to dry temperate alpine high lands.

1.1.4. Besides the seasonal variations, the climate of Himachal Pradesh varies at different altitudes. The average rainfall is 152 cms. (60 inches). The highest rainfall occurs in Kangra district followed by Shimla district.

(iii) Forests

1.1.5. Forests are an important resource of Himachal Pradesh. Although the area classified as "Area under Forest" is 67 percent of the total area of the Pradesh, yet the effective forest cover is much lower than this area, primarily on account of the fact that a very large area is either alpine meadows or is above the tree line.

1.1.6. Current scenario is described in the following table: -

(Area in Sq. Km.)			
Sr. No.	Category	Area	Remarks
1.	2.	3.	4.
1.	Geographical area of the State	55,673	-
2.	Area required under forest cover as per NFP 1988	37,115	Total culturable area under recorded forests is 20,657 sq.km. For the purposes of policy requirements unculturable area forming vital eco-system and wildlife habitats shall also have to be considered.
3.	Forest area as per forest record	37,033	-
4.	Unculturable area	16,376	Includes under snow cover, permanent high altitude pastures, rocky mountains and above tree line (unfit for tree growth).
5.	Culturable Area	20,657	-
6.	Very Dense Forest	1,093	Requires protection.
7.	Moderately Dense Forest	7,883	Requires protection for improvement in density.
8.	Open Forest	5,377	Requires protection for improvement in density.
9.	Balance Culturable Area	6,304	Includes scrub, blank areas and areas covered by plantations, which are not picked up in the satellite imagery (say post 1980 plantations).
10.	Plantations (Post 1980 till 2006-07)	6807	Assumed to be fully surviving and left out of the satellite imagery.
11.	Area under Scrubs	389	Requires conversion into useful forests.

1.1.7 In view of the above scenario, category- wise break-up for the area in Himachal Pradesh is as under:-

Sr. No.	Category	Area in Sq. Km.
1.	2.	3.
1.	Total Geographical Area.	55,673
2.	Area under management with the Forest Department	37,033
3.	Area under alpine pasture including under permanent snow.	16,376
4.	Balance area.	20,657
5.	Area over which forests can be raised/tree cover can be provided/ density can be increased.	12,757 (Sr. 5-6-10)

1.1.8 As per latest State Forest Report of FSI, an area of 14,353 sq. km. is actual forest cover. This is constituted by 1,093 sq. km. of very dense forests, 7,883 Sq. km. moderately dense and 5,377 Sq. km. with open forests. In addition to this, 389 Sq. km. area has been described as scrubs.

1.1.9. Forest wealth of Himachal Pradesh is estimated at over Rs. 1,00,000 crore. Most of precious coniferous forests are of such nature that these cannot be truly regenerated by human beings if these are cut once. The State Government has imposed a complete ban on commercial felling and the only removals from the forests are either by way of timber distribution rights to local people or salvage extraction. Even the royalty from the silviculturally harvestible volume according to working plan prescriptions would presently be annually worth over Rs. 250 crore. However, the State Govt. has been denied of this financial resource for about two decades, primarily for preserving the fragile Himalayan ecology and environment to serve the national interests.

(iv) Rivers and Lakes

1.1.10. Himachal Pradesh has the privilege of snowfed perennial rivers and rivulets flowing in almost all parts of the Pradesh. Yamuna, with its important tributaries of Tons, Pabbar and Giri in the east and Satluj, Beas, Ravi and Chenab in the west flow through various parts of the Pradesh. Some of the important natural lakes worth mentioning are Khajjiar, Ghadasasu, Lamba Dal, Manimahesh, Mahakali in Chamba Distt.; Dal, Kareri in Kangra Distt.; Rewalsar, Kumarwah, Prashar in Mandi district; Bhriagu and Dashahr in Kullu Distt.; Chandratul and Surajtal in Lahaul & Spiti Distt.; Chandra Naun in Shimla district; and Renuka in Sirmour Distt. The man made lakes include Gobind Sagar in Bilaspur district; Pong lake in Kangra district; Pandoh lake in Mandi district; and Chamera lake in Chamba district.

(v) Mineral Wealth

1.1.11. Himachal Pradesh is blessed with mineral wealth. As per investigation of Geological Survey of India, the minerals available in Himachal Pradesh include limestone, byrytes, clays, mica, iron pyrites, salt, gypsum, slate, antimony and lead. The distribution of these minerals is scattered all over the State and includes lime stone in Bilaspur, Sirmour and Kangra districts; salt and slates in Mandi District; gypsum in Rajban, Bharli Sirmour distt.; Lahaul & Spiti and Sapatu in Solan distt.; byryte in Sirmour, iron ore in Mandi and Kangra; and uranium in Kullu and Hamirpur districts.

(vi) Soils

1.1.12. The soils of the State can broadly be divided into nine groups on the basis of their development and physico-chemical properties. These are: (i) alluvial soils, (ii) brown hill soil, (iii) brown earth, (iv) brown forests soils, (v) grey wooded or podzolic soils, (vi) grey brown podzolic soils, (vii)

planosolic soils, (viii) humus and iron podzols (ix) alpine humus mountain speletal soils. The soil found in the districts of Mandi, Kangra, Bilaspur, Una, Solan, Hamirpur and Sirmaur is generally brown, alluvial and grey brown podzolic, Kullu and Shimla have grey-wooded podzolic soils, while Kinnaur, Lahaul and Spiti and some parts of Chamba district have humus mountain speletal soils.

II. Administrative Structure

1.2.1. Since 1st September, 1972, there have been no changes in the administrative structure of Himachal Pradesh except carving out of new sub-divisions, sub- tehsils, raising of sub-tehsils to the level of tehsils within the district boundaries. Presently, there are 12 districts, 52 sub-divisions, 109 tehsils and sub-tehsils in Himachal Pradesh.

1.2.2. From development point of view, the Pradesh is divided into 75 development Blocks. The smallest unit for development- cum-administration is Panchayat and their number is 3243. The State has a three tier Panchayati Raj structure comprising of 12 Zila Parishads, 75 Panchayat Samitis and 3243 Gram Panchayats on the rural side; and 1 Municipal Corporation, 20 Municipal Councils and 28 Nagar Panchayats on the Urban side besides 7 Cantonment Boards.

III. Demographic Profile

1.3.1 According to Surveyor General of India, the total area of Himachal Pradesh is 55,673 square kilometers. Out of this total area, 45,318 square kilometres is the measured area according to the revenue papers. Although there are minor variations in the area according to village papers vis-à-vis the area according to Surveyor General of India for almost all the districts yet the major difference by way of a shortfall is accounted for by Kullu, Lahaul-Spiti and Sirmaur districts. Area-wise, Hamirpur is the smallest district of the Pradesh which covers an area of 1,118 Sq. kilometres (2.01%) and Lahaul & Spiti has the largest area of 13,835 Sq. kilometres (24.85%).

1.3.2 The total population of Himachal Pradesh, according to 2001 census was 60, 77,900, which gives density of population as 109. There are wide variations in area and population of the districts and the district-wise density varies from 2 persons per sq. kilometre in Lahaul and Spiti to 369 persons in Hamirpur district. Out of the total population, the number of males and females is 30, 87,940 and 29, 89,960, respectively, which means that the number of females per 1000 males is 968. The sex ratio of females per thousand males has been rising continuously in Himachal Pradesh since 1951 Census but declined from 976 in 1991 Census to 968 in 2001 Census. The decline is pronounced in the 0-6 year's age group and is a matter of concern for policy planners. The total percentage of rural population is 90.20% of the total population residing in 17,495 inhabited villages. Himachal Pradesh has the highest percentage of rural population among all the States of the Country.

1.3.3 The Scheduled Castes population in the State is 15, 02,170 persons (2001 Census) which is 24.72% of the total population as per 2001 Census. The scheduled tribe population of the Pradesh, which has its concentration in districts of Kinnaur and Lahaul Spiti and parts of Chamba district and scattered in other districts is 2, 44,587, which is 4.02% of the total population. About 60 percent of the State's tribal population falls under the tribal sub-plan areas.

1.3.4 There are 56 Urban Local Bodies viz. one Nagar Nigam, 20 Municipal Councils and 28 Nagar Pachayats and 7 Cantonment Boards in Himachal Pradesh. In addition to it, there are seven cantonment areas and one census town. The population of these urban settlements is 5, 95,581 as per 2001 census. The largest one is the Shimla Town with a population of 1, 42,161 and the smallest one, is Narkanda with a population of 712.

1.3.5 There are 19, 63,882 main workers and 10, 28,579 marginal workers in the State as per 2001 census. This means that there is one main worker for every 3.09 persons and one marginal worker for 5.91 persons. Combining the number of main and marginal workers, it works out that there is one worker for every 2.03 persons.

1.3.6 According to 2001 census, the overall literacy percentage of Himachal Pradesh was 76.5% (85.30% for males and 67.40% for females). Comparatively, it is much higher than the all-India literacy rate, which is 65.38%. The literacy rate in Himachal Pradesh has been improving faster than the all-India figures. Himachal Pradesh is characterized by a very strong correlation between sex ratio (females per thousand and males) and literacy. Districts with higher density of female population vis-à-vis male population have high literacy rates.

IV. Demographic Trends

1.4.1 The population of the State registered a decadal growth of 17.53 percent as against 21.34 percent at All-India level during the decade 1991-2001, thus recording a decline of 3.26 percent as compared to the preceding decade 1981-91. This has been possible through a three-pronged strategy of intensive health cover, improvement in literacy rates, specially among the women and making family planning a people's movement alongwith a positive thrust of incentives. The important comparative demographic indicators are presented in the following table:-

Table-1**Comparative Demographic Trend During 1981-2001 Decade**

Sr. No.	Item	Unit	1981 Census	1991 Census	2001 Census
1.	2.	3.	4.	5.	6.
1.	Population:				
	(a) Total	Lakh Persons	42.81	51.71	60.78
	(b) Male	Lakh Persons	21.70	26.17	30.88
	(c) Female	Lakh Persons	21.10	25.53	29.90
2.	Scheduled Castes	Lakh Persons	10.54	13.10	15.02
3.	Scheduled Tribes	Lakh Persons	1.97	2.18	2.45
4.	Density of Population per square kilometre	Persons	77	93	109
5.	Decennial Growth of Population	%	23.71	20.79	17.54
6.	Literacy Percentage:				
	(a) Total	%	42.48	63.86	76.50
	(b) Male	%	53.19	75.36	85.30
	(c) Female	%	31.46	52.13	67.40
7.	Percentage Composition:				
	(a) Rural Population	%	92.40	91.31	90.20
	(b) Urban Population	%	7.60	8.69	9.80
8.	Percentage of Total Population:				
	(a) Scheduled Castes	%	24.62	25.34	24.72
	(b) Scheduled Tribes	%	4.61	4.22	4.02
9.	Sex Ratio	Females per 1000 Males	973	976	968

V. Occupation

1.5.1 The mainstay of the people of Himachal Pradesh is agriculture on which 66.71% population depends for their livelihood. The topography being mostly hilly, the type of cultivation is terraced. Close to 80 percent of all holdings fall in the category of small and marginal farmers. Due to ideal climate for fruit cultivation, horticulture and vegetable growing (seasonal as well as off-season), well-diversified farm economy has developed rapidly during the past three decades. Percentage of main workers to total population is 32.31 and the percentage of cultivators to total main workers is 55.45. The percentage of agricultural labourers to total workers is 1.83 as per 2001 census.

VI. Human Resources

1.6.1 The population of Himachal Pradesh according to 2001 Census is 60.78 lakh out of which 54.82 lakh (90.21 percent) live in rural areas and 5.95 lakh (9.79 percent) in urban areas. Thus the majority of population is associated with such economic activities as are related to rural economy.

1.6.2 The following table depicts the decadal increase in work force for the period (1991-2001): -

Table – 2
Details of Work Force 1991-2001 Decade

Sr. No.	Item	Unit	1991 Census	2001 Census	%age Increase/ Decrease
1.	2.	3.	4.	5.	6.
1.	Total Population	Lakh Persons	51.71	60.78	17.54
2.	Main Workers:	Lakh Persons	17.79	19.64	10.40
a)	Cultivators	Lakh Persons	11.25	10.89	03.2
b)	Agricultural Labourers	Lakh Persons	0.59	0.36	38.98
c)	Household Industry	Lakh Persons	0.25	0.35	40.00
d)	Other Workers	Lakh Persons	5.70	8.04	41.05
3.	Marginal Workers	Lakh Persons	4.35	10.29	136.55
4.	Non-Workers	Lakh Persons	29.56	30.85	4.36

1.6.3 The above table reveals that in 1991-2001 decade, work force increased from 22.14 lakh in 1991 to 29.93 lakh in 2001, recording a growth of 35.18% as against 17.54% growth of population. In the year 1991, the work force constituted 42.82% of the total population while in 2001, it accounted for 49.24%. Thus, during the 1991-2001 decade the workforce increased by 6.42%. The percentage of main workers, to total population decreased from 34.41% to 32.31% during 1991-2001 decade, while marginal workers increased more than double from 8.41% to 16.92% during the same period and non- workers decreased from 57.16% to 50.76%.

1.6.4 The other feature of the work force reveals that “other workers” recorded a growth of 41.05% over the period of a decade. Noticeable feature of the main workforce is the decrease in the category of cultivators and agricultural labourers. As would reveal from above table cultivators decreased by 3.2% and agricultural labourers by 38.98% in the decade between 1991-2001. The trend in decline shows that main workforce preferred to jobs in private sector. It also speaks of the shifting of the workforce from the traditional occupation of agriculture to commercial and industrial activities.

VII. Growth of State Economy

1.7.1 State Income is the single most common and comprehensive economic indicator used to measure the economic health of a State economy. In Himachal Pradesh, first estimates of State Income were released in the year 1963 covering the period 1950-51 to 1960-61. Since Himachal Pradesh underwent many territorial changes after independence and emerged as a full-fledged State in the year 1971, a new series of State Domestic Product was developed for the year 1966-67 to 1969-70 with the base year 1960-61. The third series of State domestic product prepared in the Pradesh was based on 1970-71 prices, which consisted of the estimates up to 1986-87. After the release of the new series of National Accounts Statistics by Central Statistical Organization in February 1989, Himachal Pradesh also brought out a new series of estimates based on 1980-81 prices.

1.7.2 A new series of quick estimates were brought out during 1999-2000 based on the 1993-94 prices. The National Accounts Statistics have mostly been revised decennially changing the base to a year synchronizing with the year of decennial population census. It was primarily because in the base year estimates, the information on work force has played an important role and workforce estimates were obtained from the population census which is conducted decennially in the years ending with 1. As a sequel, the previous series of National Accounts Statistics should have been with the base year 1990-91. At that time, it was observed that the data on worker participation rate (WPR), captured by the National Sample Survey Organization (NSSO) was better than the one estimated through the Population census. Accordingly, the CSO used the workforce estimates based on National Sample Survey (NSS) workforce participation rates from the NSS 1993-94 (50th Round) survey results, and revised the base year of National Accounts to 1993-94. In continuation with this

practice, the new series of national accounts released on 31st January, 2006 adopted 1999-2000 as the base year, as it has used the data on WPR from the NSS 55th round Quinquennial survey on Employment and Unemployment, conducted in 1999-2000. In the new series, the WPR data has been used in conjunction with population data of the population census, 2001. After a detailed analysis of all these sources and with the approval of the Advisory Committee on National Accounts Statistics, it was decided to adopt, at 1-digit level of the National Industrial Classification (NIC) work force.

1.7.3 The quick estimates of State Income for the year 1999-2000 to 2006-07 at current and constant (1999-2000) prices and per capita income alongwith percentage changes over the previous year at 1999-2000 prices are given in the following table: -

Table – 3
Movement of Net State Domestic Product and Per Capita Income

Year	State Income		Per Capita Income		Percentage Change Over the Previous Years At 1999-2000 Prices	
	At Constant Prices (Rs. in crore)	At Current Prices (Rs.in crore)	At Constant Prices (In Rs.)	At Current Prices (In Rs.)	Net State Domestic Product	Per Capita Income
1.	2.	3.	4.	5.	6.	7.
1999-2000	12467	12467	20806	20806		
2000-2001	13262	13852	21824	22795	6.04	4.9
2001-2002	13938	15215	22543	24608	5.1	3.3
2002-2003	14617	16751	23234	26627	4.9	3.1
2003-2004	15596	18127	24377	28333	6.7	4.9
2004-05 (P)	16953	20262	26053	31139	8.7	6.9
2005-06 (Q)	17990	22390	27163	33806	6.1	4.3
2006-07 (A)	19157	24798	28415	36783	6.5	4.6

1.7.4 According to these estimates, the State income of the Pradesh during 1999-2000 to 2005-06 period increased from Rs. 12467 crore to Rs. 17990 crore at constant prices and to Rs. 22390 crore at current prices. The compound annual growth rate of the State domestic product during this period is 5.37%. The per capita income at constant prices increased from Rs. 20806 in 1999-2000 to Rs. 27163 in 2005-06 and 28415 in 2006-07 while at current prices, it rose to Rs. 33806 and Rs. 36783, respectively, during the same period.

1.7.5 The growth rate of State Economy recorded during the Five Year Plan periods beginning from the 1st Five Year plan, 1951-56 onwards alongwith comparison with the National Economy is given in the following : -

Table- 4
Comparative Growth Rate of H.P. and National Economy Recorded
During Five Year Plan Periods

Plan Period	Average Annual Growth Rate of Economy At Constant Prices	
	Himachal Pradesh	All India
1.	2.	3.
First Plan (1951-56)	(+) 1.6	(+) 3.6
Second Plan (1956-61)	(+) 4.4	(+) 4.1
Third Plan (1961-66)	(+) 3.0	(+) 2.4
Annual Plans (1966-67) to (1968-69)	(+) 3.0	(+) 4.1
Fourth Plan (1969-74)	(+) 3.0	(+) 3.4
Fifth Plan (1974-78)	(+) 4.6	(+) 5.2
Annual Plans (1978-79) to (1979-80)	(-) 3.6	(+) 0.2
Sixth Plan (1980-85)	(+) 3.0	(+) 5.3
Seventh Plan (1985-90)	(+) 8.8	(+) 6.0
Annual Plan (1990-91)	(+) 3.9	(+) 5.4
Annual Plan (1991-92)	(+) 0.4	(+) 0.8
Eighth Plan (1992-97)	(+) 6.3	(+) 6.2
Ninth Plan (1997-02)	(+) 6.4	(+) 5.6
Annual Plan (1997-98)	(+) 6.4	(+) 5.0
Annual Plan (1998-99)	(+) 7.2	(+) 6.6
Annual Plan (1999-2000)	(+) 6.6	(+) 6.6
Annual Plan (2000-01)	(+) 6.3	(+) 4.4
Annual Plan (2001-02)	(+) 5.2	(+) 5.8
Annual Plan (2002-03)	(+) 5.1	(+) 3.8
Annual Plan (2003-04)	(+) 8.1	(+) 8.5
Annual Plan (2004-05) (P)	(+) 7.6	(+) 7.4
Annual Plan (2005-06) (Q)	(+) 8.5	(+) 9.0
Annual Plan 2006-07 (Advance)	(+)9.3	(+)9.2

1.7.6 The growth analysis presented in the above table reveals that Himachal Pradesh achieved an annual average growth rate of 1.6% in the First Five Year Plan period 1951-56. After Second Five-Year Plan, 1956-61 onwards and upto Fifth Five-Year Plan period 1974-78, the State achieved a growth rate of about 3 to 4.6 percent. During the two Annual Plans of 1978-79 and 1979-80 the economy revealed a negative growth rate of (-) 3.6 percent but again showed a recovery during the Sixth Plan period 1980-85. During Seventh Plan period 1985-90, State achieved all time high growth rate of 8.8%.

1.7.7 During Eighth Five-Year Plan period (1992-97), an annual average growth rate of 6.3 percent was achieved against the envisaged target of 6 percent for the State Economy. The National Economy attained an average growth rate of 6.2 percent against the target of 5.6 percent for this period. During Annual Plan 1997-98, the State economy achieved a growth of 6.4 % whereas a growth rate of 5.0% was recorded at the national level. During the Ninth Five-Year Plan (1997-2002), the State Economy achieved a growth rate of 6.4%.

1.7.8 During the 10th Five Year Plan (2002-07), the State Economy has achieved a growth rate of 5.1% during the first year, 2002-03. However, the economy showed a robust growth rate of 8.5% by the end of fourth year of the 10th Plan i.e. 2005-06 as against the national growth rate of 9.0%. During the last year of the tenth plan, annual average growth rate of State economy surpassed the annual growth rate of 9.2 % by attaining 9.3 % growth rate.

1.7.8.1 The following table presents decadal and sector-wise movement of the State Domestic Product: -

Table –5
Percentage Contribution of Sectoral State Domestic Product
At Current Prices

Sl. No.	Sectors	1950-51	1960-61	1970-71	1980-81	1990-91	1999-2k	2000-01	2001-02	2002-03	2003-04	2004-05 (P)	2005-06 (Q)	2006-07 (Adv.)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
1.	Primary	71.01	63.14	58.56	50.35	35.1	23.14	25.25	25.90	24.63	25.07	25.19	24.05	22.8
2.	Secondary	9.50	9.71	16.73	18.69	26.5	36.58	35.77	35.54	36.32	36.04	36.49	37.81	38.29
3.	Tertiary	19.49	27.15	24.71	30.96	38.4	40.28	38.98	38.56	39.05	38.89	38.32	38.14	38.91

1.7.10 The above table reveals that Primary Sector contributed was 71.01 % of the SDP in 1950-51, which declined to 22.8 % in the year 2006-07. The contribution of secondary and tertiary sectors has increased year after year. In 1950-51, the secondary sector contribution to SDP was 9.5%, which went up to 38.29% in the year 2006-07. Similarly, the tertiary sector contribution to State Domestic Product in 1950-51 was 19.49%, which went up to 38.14% in the year 2005-06 but slightly increased to 38.91 in the year 2006-07. This structural shift from Primary to Secondary and Tertiary Sectors is a healthy sign of growing economy.

1.7.11 Movement of per Capita Income at current prices indicating its level at the beginning of each Five Year Plan/ Annual Plan period in respect of Himachal Pradesh vis-a-vis All- India is given in the following table: -

Table – 6
Comparative Statement of Per Capita Income of Himachal Pradesh
and All India
(In Rs.)

Plan Period	Year of the Plan Period	Per Capita Income at Current Prices	
		Himachal Pradesh	All India
1.	2.	3.	4.
First Plan	1951-52	240	239
Second Plan	1956-57	286	274
Third Plan	1961-62	398	337
Annual Plan	1966-67	440	509
Annual Plan	1967-68	532	588
Annual Plan	1968-1969	576	604
Fourth Plan	1969-1970	586	651
Fifth Plan	1974-1975	1020	1034
Annual Plan	1978-1979	1249	1316
Annual Plan	1979-1980	1258	1390
Sixth Plan	1980-1981	1704	1630
Seventh Plan	1985-1986	2649	2730
Annual Plan	1990-1991	4910	4983
Annual Plan	1991-1992	5691	5603
Annual plan	1992-1993	6390	6262
Annual Plan	1993-1994	7870	7698
Annual Plan	1994-1995	9451	8844
Annual Plan	1995-1996	10607	10103
Annual Plan	1996-1997	11960	11554
Annual Plan	1997-1998	13488	12729
Annual Plan	1998-1999	16144	14682
Annual Plan	1999-2000	20806	17905
Annual Plan	2000-2001	22795	18942
Annual Plan	2001-2002	24608	20207
Annual Plan	2002-2003	26627	21380
Annual Plan	2003-2004	28333	23704
Annual Plan	2004-2005 (P)	31139	26202
Annual Plan	2005-2006 (Q)	33806	29367
Annual Plan	2006-2007 (A)	36783	33074

VIII. Plan Investment

1.8.1 Himachal Pradesh has so far gone through planned development for a period of fifty six years. The investment vis-a-vis the per capita annual investment made over the various plan periods is given in the following table:-

Table –7
Plan Investment

Plan Period	Total Investment (Rs.in Crore)	Per Capita Annual Investment (in Rs.)
1.	2.	3.
First Plan (1951-56)	5.27	4.00
Second Plan (1956-61)	16.03	11.00
Third Plan (1961-66)	33.84	21.60
Annual Plans (1966-67) to (1968-69)	39.78	40.00
Fourth Plan (1969-74)	113.43	61.20
Fifth Plan (1974-78)	161.48	100.50
Annual Plans (1978-79) and (1979-80)	147.56	176.50
Seventh Plan (1985-90)	1324.76	544.59
Annual Plans (1990-91)& (1991-92)	393.81	765.32
Eighth Plan (1992-97)	3480.72	6311.83
Ninth Plan (1997-2002)	7896.72	13194.19
Annual Plan (1997-98)	1294.33	2236.23
Annual Plan (1998-99)	1539.66	2614.47
Annual Plan (1999-2000)	1623.51	2709.46
Annual Plan (2000-01)	1722.17	2833.45
Annual Plan (2001-2002)	1720.00	2829.88
Annual Plan (2002-2003)	2041.78	3359.29
Annual Plan (2003-2004)	1335.00	2196.45
Annual Plan (2004-2005)	1434.60	2304.01
Annual Plan (2005-06)	1675.00	2532.44
Annual Plan (2006-07)	1800.00	2961.50
Annual Plan (2007-08)	2100.00	3455.08

1.8.2 Comparative position of the originally approved outlays, revised approved outlays and actual expenditure since 1974-75 is depicted in the following table: -

Table-8
Year –Wise Originally Approved Outlays /Revised Approved Outlays
and Actual Expenditure

(Rs. in Crore)

Plan Tenure	Original Approved Outlay	Revised Approved Outlay	Actual Expenditure
1.	2.	3.	4.
1974-78	238.95	157.43	162.14
1978-79	73.00	73.29	73.62
1979-80	77.69	77.69	79.45
1980-85	560.00	622.17	664.71
1985-90	1050.00	1188.00	1324.76
1990-91	360.00	360.00	377.63
1991-92	410.00	410.00	404.82
1992-93	486.00	490.50	492.34
1993-94	560.00	562.82	570.72
1994-95	650.00	666.32	666.75
1995-96	750.00	835.00	850.91
1996-97	900.50	915.36	918.33
1992-97	2502.00	3346.00	3480.72
1997-98	1008.00	1220.20	1294.33
1998-99	1440.00	1444.00	1539.66
1999-2000	1600.00	1601.17	1623.51
2000-2001	1382.00	1720.00	1722.17
2001-2002	1720.00	1720.00	1720.00
1997-2002	5700.00	7488.00	7896.72
2002-2003	1840.00	2048.60	2147.25
2003-2004	1335.00	1335.00	1310.77
2004-2005	1400.38	1434.60	1370.29
2005-2006	1600.00	1675.00	1701.99
2006-2007	1800.00	1860.37	1903.81
2007-2008	2100.00	2100.00	2100.00 (Anticipated)

IX. Development of Infrastructure Facilities

1. Roads and Bridge

1.9.1.1 During the First Five-Year Plan (1951-56), "Roads" were given highest priority. During this period, Rs. 225.41 lakh were spent on the development of roads, which amounted to 42.75% of the total plan investment of Rs. 527.25 lakh. With this investment, the state achieved an additional 2413 K.M. length of roads. The progress made in the development of roads by 1971 at the time of

formation of a full-fledged State and level reached by the end of Sixth, Seventh, Eighth and Ninth Five Year Plans and achievements made by the end of Annual Plan (2006-07) is given in the following table:-

Table –9
Road Construction in Himachal Pradesh

Sr. No	Description	Unit	Position at the end of					Position as on				
			1971	Sixth Plan (1980-85)	Seventh Plan (1985-90)	Eighth Plan (1992-97)	Ninth Plan (1997-02)	31 st March, 2003	31 st March, 2004	31 st March, 2005	31 st March, 2006	31 st March, 2007
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1.	Motorable Roads	Kms	7609	14663	16883	19760	22763	23436	23992	24922	25968	27584
2.	Roads provided with Cross Drainage	Kms	2755	6245	7493	8917	11697	12635	13569	14473	15657	17250
3.	Metalled and tarred length	Kms	2218	5300	6392	8094	11441	12354	13453	14219	14975	15752
4.	Bridges	No.	232	598	742	968	1206	1246	1310	1365	1416	1483
5.	Villages connected with Roads											
	(a) Above 1500 population	No.	-	165	175	184	186	186	193	195	198	199
	(b) 1000-1500 population	No.	-	198	214	223	224	224	228	229	235	239
	(c) 500-1000 population	No.	-	756	809	827	849	854	886	898	931	977
	(d) 200-500 population	No.	-	2324	2413	2479	2588	2612	2635	2668	2726	2848
	(e) Less than 200 population	No.	-	3640	3805	3914	4063	4096	4135	4166	4254	4268
	Total (5)			7083	7416	7627	7910	7972	8077	8156	8344	8531

1.9.1.2 Besides increase in the motorable road density from 13.66 Kms. per 100 sq. kms. of area in 1971 to 40.89 kms. between 1971-2002, the quality of this crucial infrastructure has also improved significantly. Whereas only 29.14% of the motorable roads were metalled and tarred in 1971, the percentage at the end of March, 2007 stands at 57.11%. Similarly, the percentage of roads with cross drainage increased from 36.2% in 1971 to 62.54 % by the end of March, 2007. There is a vast difference in the road density of non-tribal and tribal areas. The road density (per 100 sq. km. of area) according to 2007 data for these areas works out to 79.39 Kms. and 9.14 Kms. respectively.

1.9.1.3 The following data depicts the position of road length from 1971 to 2007: -

Table –10
Road Length in Himachal Pradesh

Type of Road	Position as on 31 st March									
	1971	1981	1991	2001	2002	2003	2004	2005	2006	2007
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
(a) Motorable Double lane	1765	1994	1994	2332	2336	2336	2344	2355	2369	2374
(b) Motorable Single lane	5844	10611	15296	19874	20427	21100	21648	22567	23599	25210
Total Motorable roads	7609	12605	17290	22206	22763	23436	23992	24922	25968	27584
(c) Jeepable	608	633	826	906	781	598	481	442	390	381
(d) Less than Jeepable (Track)	2400	4195	4329	4105	3959	3771	3611	3103	2653	2299
Total	10617	17433	22445	27217	27503	27805	28084	28467	29011	30264

2. Irrigation Potential & Area Covered

1.9.2.1 In the Ist Five-Year Plan (1951-56), irrigation was given second priority and investment of Rs. 55.18 lakh was envisaged against which the actual expenditure was of the order of Rs. 33.70 lakh. By the end of the year 2006-2007, which was the last year of 10th Five Year Plan (2002-07), the State has created CCA of 1.19 lakh hectares under major/medium/minor irrigation schemes implemented through plans.

1.9.2.2 The following table presents irrigation potential assessed and created in H.P: -

Table –11
Irrigation Potential Assessed & Created

Sr. No.	Item	Unit	Area
1.	2.	3.	4.
1.	Total Geographical Area	Lakh Hect.	55.67
2.	Net Area Sown	Lakh Hect.	5.83
3.	Ultimate Irrigation Potential Available		
	(i) Major & Medium Irrigation	Lakh Hect.	0.50
	(ii) Minor Irrigation	Lakh Hect.	2.85
	Total (3)	Lakh Hect.	3.35
4.	C.C.A. created upto the end of 31.3.2007		
	(i) By Rural Development and Agriculture Department	Lakh Hect.	0.93
	(ii) I & PH Department Schemes	Lakh Hect.	1.19
	Total (4)	Lakh Hect.	2.12

1.9.2.3 CCA created under various irrigation schemes by the end of Sixth Plan (1980-85), Seventh Plan (1985-90), Annual Plans (1990-91) & (1991-92), Eighth Plan (1992-97) and Ninth Plan (1997-02) and achievements made during

the Annual Plan (2003-04) , Annual Plan (2004-05), Annual Plan (2005-06) and (2006 -07) are given as under:-

Table-12
CCA Created

Sl. No.	Item	Unit	Plan Period					Year-wise achievements made during 10 th Five Year Plan 2002-2007					Cumulative Achievement by the end of (2006-07) (Col. 8 to Col.13)
			By the end of 6 th Plan (1980-85)	By the end of 7 th Plan (1985-90)	By the end of Annual Plan (1991-92)	By the end of 8 th Plan (1992-97)	By the end of 9 th Plan (1997-02)	2002-03	2003-04	2004-05	2005-06	2006-07	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1.	Major & Medium Irrigation	Hect.	6386	8136	8386	10936	11836	200	300	300	300	2216	15152
2.	Minor Irrigation	Hect.	57344	67915	73811	82595	92607	2088	2161	2126	2338	2202	103522
3.	Kuhals and Others	Hect.	82478	85573	93161	93196	93196	N.A	N.A	N.A	N.A	N.A	93196
	Total:	Hect.	146208	161624	175358	186727	197639	2288	2461	2426	2638	4418	211870

1.9.2.4. The total CCA created of about 2.12 lakh hectares forms 36.36 percent of the net area sown as per data supplied by the State Irrigation & Public Health Department.

3. Drinking Water Supply

1.9.3.1 According to 1981 census, there were 16,807 inhabited villages in the Pradesh out of which 11,887 were categorised as problem villages and 4,920 as non-problem villages. Till 31st March, 1994 drinking water facilities were provided to all the census villages. However, during 1991-93 a status survey of Rural Water Supply was got conducted by the Govt. of India. In this survey the smallest unit was kept “habitation” instead of the census village. The habitations were further sub-divided into two categories: -

1. Main Habitations, which goes by the name of census villages.
2. Other Habitations, which form the part of census villages.

1.9.3.2 As per latest survey conducted, total number of habitations were 51848, the break up of which as on 1-4-2007 including (CAP) is given as under: -

Not Covered (NC)	Partially Covered (PC)	Fully Covered (FC)	Total
6588	19504	25756	51848

1.9.3.3 As on 1st April, 2007, only 1407 PC habitations were left to be covered.

1.9.3.4 Besides above, Hon'ble Prime Minister has announced the Bharat Nirman Programme for the period 2005-09 which also includes drinking water supply. The State Government proposes to implement the drinking water component of Bharat Nirman within the time schedule framed by Govt. of India. But due to incomplete entries of habitations and validation delay, it extends to 2007-12. The first priority, of course, shall be to cover all the remaining 1407 PC habitations of CAP- 1999 and 24,685 slipped back habitations of 2003 survey within the five years period of Bharat Nirman Programme.

4. Power Generation and Consumption

1.9.4.1 Himachal Pradesh has been blessed with vast hydroelectric potential in its five river basins, namely Yamuna, Satluj, Beas, Ravi and Chenab. So far, a potential of 20415.62 MW has been identified. Out of this available hydel potential of only 6370.12 MW has been exploited by various agencies, which also includes 466.95 MW by H.P. State Electricity Board. Basin-wise details of the assessed potential and the potential actualized are as under:-

River basin wise assessed power potential

Sr. No.	Basin	Total Assessed Potential (MW)	Potential Installed (MW)				
			State Sector	Private Sector	Central / Joint Sector	Himurja	Total
1.	Satluj	9866.55	150.25	300.00	2825.00	1.30	3276.55
2.	Beas	4626.90	226.50	86.00	1496.00	21.30	1829.80
3.	Ravi	2345.25	10.25	-	1038.00	-	1048.25
4.	Chenab	2251.00	-	-	-	-	-
5.	Yamuna	602.52	79.95	-	131.57	4.00	215.52
	Total:	19692.22	466.95	386.00	5490.57	26.60	6370.12
6.	Himurja	723.40	-	-	-	-	-
	Total	20415.62	466.95	386.00	5490.57	26.60	6370.12

1.9.4.2 (i) The details of the projects under operation with HPSEB are as under:-

1.	Giri	60.00 MW
2.	Bassi (Uhl-II)	60.00 MW
3.	SVP Bhaba	120.00 MW
4.	Andhra	16.95 MW
5.	Thirot	4.50 MW
6.	Binwa	6.00 MW
7.	Baner	12.00 MW
8.	Gaj	10.50 MW
9.	Ghanvi	22.50 MW
10.	Gumma	3.00 MW
11.	Holi	3.00 MW
12.	Larji	126.00 MW
13.	Khauli	12.00 MW
14.	Mini Micros (7 Nos)	10.50 MW
	Total:	466.95 MW

1.9.4.2 (ii) The details of the projects in operation under Private Sector are as under:-

Sr. No.	Name of the Project/ District/ Basin	Executive Agency	Installed Capacity
1.	Baspa-II / Kinnaur/ Satluj	M/s Jai Prakash Hydro Power Limited	300.00 MW
2.	Malana-I/ Kullu/ Beas	M/s Malana Power Company Limited	86.00 MW

1.9.4.2 (iii) The details of projects in operation under Central Sector/Inter State/ Shared Generation/ Joint Sector are as under:-

1.	Yamuna Projects (H.P. Share)	131.57 MW	Uttarakhand	Shared Generation
2.	Baira suil	198.00 MW	NHPC	Central Sector
3.	Chamera-I	540.00 MW	NHPC	Central Sector
4.	Chamera-II	300.00 MW	NHPC	Central Sector
5.	Shanan Project	110.00 MW	PSEB	Shared Generation
6.	Pong Dam	396.00 MW	BBMB	Inter State
7.	Dehar	990.00 MW	BBMB	Inter State
8.	Bhakra	1325.00 MW	BBMB	Inter State
9.	Nathpa Jhakri	1500.00 MW	SJVNL	Joint Sector
	Total:-	5490.57 MW		

1.9.4.2 (iv) Mini/Micro Projects being run by HIMURJA

1.	Himurja Projects	26.60 MW
	Total:-	26.60 MW

1.9.4.3 Details of the Projects under execution by HPSEB/Private Sector/ Central/Joint Sector and planned for 11th plan period is given as under:-

I. HPSEB/ HPCL:

1.	Bhaba Augmentation Power House	4.50 MW
2.	Kashang-I	130.00 MW
3.	Kashang-II	65.00 MW
4.	Kashang-III	48.00 MW
5.	Khauri -II	6.60 MW
6.	Uhl Stage-III	100.00 MW
7.	Ganvi Stage-II	10.00 MW
8.	Sawra Kuddu	111.00 MW
9.	Shongtong- Karcham	402.00 MW
10.	Sainj	100.00 MW
11.	Chirgaon Majhgaon	46.00 MW
12.	Dhamwari Sunda	70.00 MW
13.	Renuka	40.00 MW
	Total:	1133.10 MW

II. Private Sector:

Sr. No.	Name of the Project/ District/ Basin	Executing Agency	Installed Capacity
1.	Karcham Wangtoo / Kinnaur/ Satluj	M/s Jaippee Karcham Hydro Corp. Ltd.	1000.00 MW
2.	Allain – Duhangan/ Kullu / Beas	M/s AD Hydro Power Ltd.	192.00 MW
3.	Patikari /Mandi/ Beas	M/s Patikari Power Private Ltd.	16.00 MW
4.	Malana –II / Kullu/ Beas	M/s Everest Power Private Ltd.	100.00 MW
5.	Neogal /Kangra/Beas	M/s Om Power Corp. Ltd.	15.00 MW
6.	Budhil/Chamba/Ravi	M/s.Lanco Green Power	70.00 MW
7.	Sorang/Kinnaur/Satluj	M/s. Himachal Sorang Power Pvt. Ltd.	100.00 MW
8.	Lambadug/Mandi/Beas	M/s Himachal Consortium Power Project Pvt. Ltd.	25.00 MW
9.	Fozal/ Kullu/Beas	M/s Cosmos Consulting Ltd.	9.00 MW
10.	Tangnu - Romai / Shimla/Pabbar	M/s PCP International Ltd.	50.00 MW
11.	Tidong- I/ Kinnaur / Satluj	M/s Nuziveedu Seeds Pvt. Ltd.	100.00 MW
12.	Raura / Satluj	M/s Dli Power (India) Ltd.	8.00 MW
13.	Paudital Lassa/ Shimla/ Pabbar	M/s Jai Lakshmi Power Corporation Ltd.	24.00 MW
14.	Baner –II / Kangra/ Beas	M/s Prodigy Hydro Power (P) Ltd.	6.00 MW
15.	Baragaon / Kullu/ Beas	M/s Kanchanjunga Hydro Power Ltd.	11.00 MW
16.	Sai Kothi / Ravi/	M/s Venture Energy Technology	15.00 MW
17.	Harsar/Ravi	M/s Sofimat France	60.00 MW
18.	Bharmour/ Ravi	M/s Sofimat France	45.00 MW
	Total:		1848.00 MW

III. Central/ Joint Sector:

a)	NHPC:	
i)	Parbati HEP-II	800.00 MW
ii)	Parbati HEP-III	520.00 MW
iii)	Chamera-III	231.00 MW
	Total (a)	1551.00 MW
b)	NTPC:	
i)	Kol Dam	800.00 MW
c)	SJVNL	
i)	Rampur	412.00 MW
	Total (a+b+c):	2763.00 MW

1.9.4.4.1. Status of hydro-electric projects under execution in private sector is as under:-

(1) KARCHAM-WANGTOO HYDEL PROJECT (1000 MW)

IPP : M/s Jaypee Karchham Hydro Corporation Ltd. Milestones of I.A.

Sr. No	Activity	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	28.8.93	
2.	Submission of BG for Rs. 5.00 lacs.	13.9.93	2.9.93	
3.	Submission of DPR	28.2.96	27.2.96/ 18.4.00	Original Revised
4.	Date of validity of MOU	28.8.96	Extended 18.11.99	
5.	Signing of Implementation Agreement.	28.8.96	18.11.99	Addendum 28.5.01
6.	EMD	17.12.99	17.12.99	
7.	Arrangement for the evacuation of power after identification of purchaser of power.	18.11.04	-	In progress.
8.	Pollution clearance from the State.	18.11.04	-	In progress.
9.	Clearance for diversion of Forest land from MOEF, GOI.	18.11.04	21.11.02 17.11.05 (Final)	(In principle)
10.	Environmental & Forest Clearance from MOEF, GOI.	18.11.04	9.11.05	Site clearance given on 14.9.01.
11.	Techno-economic Clearance from CEA.	18.11.03	31.3.03	-
12.	Commencement of Detailed Designs.	18.11.04	9.7.03	
13.	Finalize EPC contractor.	18.11.04	9.7.03	With Jaiprakash Associates Ltd.
14.	Signing of Power Purchase Agreement	18.11.04	21.3.06	PPA with PTC has been executed on 21.3.06
15.	Achieving Financial Closure.	31.3.05	30.3.06	-
16.	Reimbursement of Board's expend.	30.6.05	Reim- bursed on 1.9.05	-
17.	Land acquisition	18.11.04		-
18.	Start of construction work.	18.11.04	18.11.05	-
19.	Scheduled Commercial Operation Date	Nov.2011		

Status of Progress of Project Works: As per latest Progress Report the status is as under:-

- i. Land Acquisition is almost done.
- ii. R&R activities being undertaken concurrently to match with the construction activities.
- iii. Site development works are in advanced stage.

- iv. Contractor has taken up execution of the project works in regard to Upstream Coffor Dam in the Dam complex, Adit to Intkae Tunnels, Inlet tunnels to SC, Inlet Adit to HRT, Intermediate Adits (1,2,3 & 5) to HRT, Adit to HRT at Surge Sharft end; HRT leading U/S and D/S from Inlet Adit, Intermediate Adit 2 and Adit from Surge Shaft, Main Access Tunnel, Ventilation-cum-Construction Adit & Downstream Surge Gallery in the Power House Complex.
- v. The river diversion has been done on 11th April, 2007 at Karcham Dam site.

General Remarks:-The project is scheduled for commissioning during 2011-12. The Company has stated that the Commercial Operations shall be achieved by November, 2011.

(2) ALLAIN DUHANGAN HYDEL PROJECT (192 MW)

IPP : M/s A.D Hydro Power Corporation Ltd., Milestones of I.A.

Sr. No	Activity	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	28.8.93	
2.	Submission of BG for Rs. 5.00 lacs.	12.9.93	31.8.93	
3.	Submission of DPR	28.2.96	24.2.96	
4.	Date of validity of MOU	28.8.96	Extended 22.2.01	
5.	Signing of Implementation Agreement.	28.8.96	22.2.01	
6.	EMD	22.3.01	4.4.2001	
7.	Arrangement for the evacuation of power after identification of purchaser of power.	22.2.04	-	
8.	Pollution clearance from the State.	22.2.04	28.5.04	
9.	Clearance for diversion of Forest land from MOEF, GOI.	22.2.04	18.10.02/ 17.1.05	
10.	Environmental & Forest Clearance from MOEF, GOI.	22.2.04	12.12.00/	
11.	Techno-economic Clearance from HPSEB.	22.2.04	20.8.02	
12.	Commencement of Detailed Designs.	22.2.04		In progress.
13.	Finalize EPC contractor.	22.2.04		Finalized.
14.	Signing of Power Purchase Agreement	22.2.04	-	In progress. MoU with DVB signed on 16.06.2000
15.	Achieving Financial Closure.	22.2.04	21.11.05	
16.	Reimbursement of Board's expenditure.	22.5.04	-	Reimbursed 25.11.05/20.12.05
17.	Land acquisition	22.2.04	-	In process
18.	Start of construction work.	22.2.04	5.2.205	
19.	Scheduled Commercial Operation Date	2009-10	-	

Status of Progress of Project works: As per latest Progress Report, the status is as under:-

- i) Power House Main Cavern excavation completed.
- ii) 500 cum out of 11500 cum Transformer Cavern excavation completed.
- iii) 200 MT EOT Crane erected and commission work is in progress.
- iv) Excavation of 567 m long pressure shaft from Adit-I to Adit-2 completed.
- v) Excavation 135 m long pressure shaft from Adit-1 to Power house excavation completed.
- vi) 225m out of 300 m long pressure shaft from Adit-2 to Adit-3 completed.
- vii) 191 m out of 350 m Adit-4 to Allain Head Race Tunnel excavation completed. Work is in progress.
- viii) 411.5 m out of 1047 m of HRT from Intermediate reservoir completed, work is in progress.
- ix) 170300 m³ out of 210000 m³ Intermediate Reservoir excavation completed.
- x) 22270 m³ out of 40000 m³ Intermediate Reservoir concreting completed.
- xi) 60000 m³ out of 62000 m³ Desting Chamber excavation completed. Concreting work is in progress.
- xii) 52000 m³ for Under Sluice excavation completed.
- xiii) Excavation of 26840 m³ for Head Regulator completed. Concreting work is in progress.
- xiv) 118m of excavation done on Duhangan HRT.
- xv) Intake work is in progress at Duhangan site. River Diversion work completed since 15.9.06.
- xvi) 52.5 out of 90 m length of surge shaft excavated.
- xvii) As per the DPR the power shall be transmitted through one D/C 220 KV transmission line from the AD Power Station to Kunihar/Nalagarh/Hamirpur Sub-Station comprising a 185 Km long transmission net work. However, as per the TEC, the above provision required to be reviewed with the up coming Parbati pooling point by PGCIL However, 190 Nos. foundations of tower locations for 220 KV Transmission line has been completed.

General Remarks:- The Company is broadly executing the Project as per schedule. The commissioning date is 2009-10, but as per progress report the project is likely to be commissioned by 1.6.2008.

(3) PATIKARI HYDEL PROJECT (16 MW)

IPP : M/s East India Petroleum Ltd. (M/s Patikari Power Private Ltd.)Milestones of I.A.

Sr. No	Activity/Requirement	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	21.6.2000	
2.	Submission of Bank Guarantee.	5.7.2000	25.9.2000	
3.	Submission of DPR	21.12.00	13.12.2000	
4.	Establish Techno-economic viability of Project by HPSEB.	13.3.01	2.2.01	
5.	Date upto which the MOU is valid.	21.6.01 (9.11.01)	9.11.2006	Extended upto 9.11.01
6.	Signing the Implementation Agreement with the GOHP.	21.6.01 (9.11.01)	9.11.2006	
7.	Submission of EMD.	9.12.01	-	Deposited in the form of Cash/ D.D.
8.	Clearance for Diversion of Forest land from MOEF, GOI.	9.11.2002	1.11.2004	
9.	Pollution Clearance from the State.	9.11.2002	7.2.2002	
10.	Environment & Forest Clearance from MOEF, GOI	9.11.2002	12.12.2003	
11.	Techno-economic Clearance from GOHP/ CEA.	9.11.2003	27.9.01	
12.	Signing of Power Purchase Agreement.	9.11.2003	14.1.03(Revised PPA signed on 5.7.04)	
13.	Achieving Financial Closure.	9.11.2003	March,2006	
14.	Land Acquisition for start of work.	9.11.2003	-	
15.	Start of construction work.	9.11.2003	Jan., 2005	
16.	Scheduled Commercial Operation Date	2009-10		

Status of Progress of Projects works:- As per latest Progress Report, the status is as under:-

- i) Infrastructure works: Company has stated that infrastructure work like roads & building etc. have been almost completed.
- ii) Tunneling Works: Excavation and concrete lining has been completed.
- iii) Work on Surge Shaft has been completed and 84 % of Pen stock erection has been done.
- iv) Weir Site: The work has been completed on 4.5.2007.
- v) Electro Mechanical Works: Casting of runner has been finished and machining work for the same is in process. Purchase order for EOT

crane and step-up Transformer have been placed and all remaining works are progressing as per schedule.

- vi) Power Evacuation:- The work on 11 Km long transmission line is in progress. Poles for 28 structures have been erected and footing completed between Pandoh and Kukla.

General Remarks:- The Company is executing the Project as per schedule and project is scheduled for commissioning during 2008-09.

(4) MALANA-II HYDEL PROJECT (100 MW)
IPP : M/s Everest Power Private Ltd.Milestones of I.A.

Sr. No	Activity/Requirement	Due Date as per MOU/IA	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	27.5.02	
2.	Submission of Bank Guarantee.	27.6.2002	-	
3.	Submission of the following documents			
	i) A compendium giving details of the hydrological data/observations.	27.5.2003	20.12.02	
	ii) Topographical sheet prepared after conducting surveys.	27.5.2003	20.12.02	
	iii) A compendium giving details of Geological/Geophysical observations.	27.5.2003	20.12.02	
	iv) A report on the power evacuation arrangement envisaged by the company.	27.5.2003	20.12.02	
4.	Submission of DPR	27.11.03	20.12.02	
5.	Establish Techno-economic viability of Project by HPSEB.	20.3.2003	3.1.03	
6.	Date upto which the MOU is valid.	27.5.04	14.1.03	
7.	Signing the Implementation Agreement with the GOHP.	27.5.04	14.1.03	
8.	Submission of EMD.	14.2.2003	20.3.2003	
9.	Arrangements for evacuation of power.	14.7.2006	-	As per TEC, 38 Km. long, 220 kV line upto existing 440 KV PGCIL station at Panarsa.
10.	Pollution Clearance from the State.	14.7.06	22.9.2005	
11.	Clearance for Diversion of Forest land from MOEF, GOI.	14.7.06	9.12.2005	In process.
12.	Environment & Forest Clearance from MOEF, GOI	14.7.06	21.6.2005	
13.	Techno-economic Clearance from GOHP/CEA.	14.7.06	15.10.04	
14.	Signing of Power Purchase Agreement.	14.7.06	25.7.2006	
15.	Achieving Financial Closure.	14.7.06	30.8.2006	
16.	Land Acquisition for start of work.	14.7.06	-	In process.
17.	Start of construction work.	14.7.06	1.1.2006	
18.	Scheduled Commercial Operation Date	2009-10		

Status of Progress of Project works: As per latest Progress Report, the status is as under:-

- i) Approach Roads : Out of total 14.824 km roads, the Company has stated that 11.64 km roads have been completed.
- ii) Infrastructure works like construction of residential and non-residential buildings is in progress and construction of 16150 sq. mtr. plinth area is at advance stage of construction.
- iii) MAT : 316 m Excavation has been completed out of 375 m total length of the Main Access Tunnel.
- iv) Cable Tunnel: Excavation of 322 m. Cable tunnel out of 403 m total length has been completed.
- v) The works of 7 Adits Tunnel is in progress out of 949 m length, 416 m i.e. about 44% has been completed.
- vi) Pressure shaft: out of 801 m length, 64.00 m has been completed.
- vii) Dam excavation: 5880 cum out of 70,000 cum has been completed.
- viii) Electro-mechanical Works: The Company is likely to start Electro-mechanical works during April-May, 2008.
- ix) Power Evacuation:- Tentative survey completed and contract for detailed survey shall be awarded shortly.

General Remarks:- The Company has achieved the various milestones within the time schedule and the construction work is also going on as per schedule. The project is likely to be commissioned during 2008-09.

(5) NEOGAL HYDEL PROJECT (15MW)

IPP : M/s Om Power Corporation Ltd. Milestones of I.A.

Sr. No	Activity	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	28.8.93	
2.	Submission of BG for Rs. 5.00 lacs.	12.9.93	12.9.93	
3.	Submission of DPR	28.8.94	May, 94	
4.	Date of validity of MOU	28.2.95	Extended upto 4.7.98	
5.	Signing of Implementation Agreement.	28.2.95	4.7.98	

Sr. No	Activity	Due Date	Actual date	Remarks.
6.	EMD to be submitted within 3 months of obtaining TEC,MOEF clearance and signing Power Purchase Agreement.	20.9.2001	-	EMD stands submitted.
7.	Pollution clearance from the State.	4.10.99	20.4.2001	
8.	Clearance for diversion of Forest land from MOEF, GOI.	4.10.99	20.6.2001	
9.	Environmental & Forest Clearance from MOEF, GOI.	4.10.99	27.11.2001	
10.	Techno-economic Clearance from GOHP.	4.10.99	25.10.99	
11.	Commencement of Detailed Designs.	4.7.2000		Yet to be commenced.
12.	Establishment of site office.	4.7.2000		Established.
13.	Signing of Power Purchase Agreement	4.10.1999	20.12.1999 27.10.06	The company has signed revised PPA on fixed tariff of Rs. 2.25 per unit on 27.10.06
14.	Signing of Power Purchase Agreement	4.10.1999	20.12.1999 27.10.06	The company has signed revised PPA on fixed tariff of Rs. 2.25 per unit on 27.10.06
15.	Achieving Financial Closure.	4.7.2000	-	Extended upto 30.6.04.
16.	Land acquisition	4.7.2000		Possession of Govt. land taken and negotiation for private land completed.
17.	Start of construction work.	27.10.06	-	The Company has started infrastructure works like roads and protection works at site about 11.5 Km approach road has been completed.
18.	Scheduled Commercial Operation Date	2009-10		

Status of Progress of Project Work: As per latest Progress Report, the status is as under:-

As per latest progress report, the Company has started work on Roads, Protection works and excavation of power house. The tunneling works has also been awarded and contractor is shifting machinery to the site. The project is scheduled for commissioning during 2009-10.

(6) BUDHIL HYDEL PROJECT(70 MW)

IPP : M/s Lanco Green Power Pvt. Ltd.Milestones of I.A.

Sr. No.	Activity/Requirement	Due Date	Actual date	Remarks
1.	Signing of MOU with the GOHP	-	23.9.2004	-
2.	Submission of Bank Guarantee.	23.10.04	-	-
3.	Submission of DPR	23.9.05	May, 2005	-
4.	Establish Techno-economic viability of Project by HPSEB.	23.12.05	-	-
5.	Date upto which the MOU is valid.	23.3.06	-	-
6.	Signing the Implementation Agreement with the GOHP.	23.1.06	22.11.05	-
7.	Arrangements for evacuation of power after identification of purchaser of power (issue of letter from CE (SP)).	24 months from I.A.	-	-
8.	Pollution Clearance from the State.	Nov.,06	28.2.06	-
9.	Clearance for Diversion of Forest land from MOEF, GOI.	Nov.,06	19.4.06	-
10.	Environment & Forest Clearance from MOEF, GOI	Nov.06	28.2.06	-
11.	Techno-economic Clearance from GOHP/CEA.	Nov.,06	1.6.05	-
12.	Signing of Power Purchase Agreement.	Nov.,07	30.3.06	-
13.	Achieving Financial Closure.	Nov,07	13.1.06	-
14.	Land Acquisition for start of work.	24 months from I.A.	-	-
15.	Start of construction work.	-	7.3.06	-
16.	Scheduled Commercial Operation Date	2011-12	-	-

Status of Progress of Project Works: As per latest Progress Report, the status is as under:-

- i) 95 % infrastructure works i.e. approach roads, temporary bridges etc. has been completed.
- ii) Award of civil contract, Electro-mechanical contract and hydro mechanical contract completed.
- iii) Excavation of Inlet and Outlet diversion tunnel completed.

- iv) Construction of Adit 1 & 2 to HRT completed and in Adit-3 to HRT, 2732.31 cum out of 8447.36 cum has been completed.
- v) Excavation in 4 Nos. Adits to HRT 15178.68 cum out of 36265 cum has been completed.
- vi) Main Access tunnel to Power House (6416.52 cum) has been completed.
- vii) Ventilation tunnel to Power House (2565.40 cum) has been completed.
- viii) In Power House cavern 3850.835 cum excavation out of 18175 cum has been completed.
- ix) Access tunnel to Draft tube gate gallery (732.086 cum) has been completed.
- x) Access tunnel to Pen stock bifurcation (3548.41 cum) has been completed.
- xi) Draft tube gate chamber, 762.61 cum out of 959.21 cum has been completed.

General Remarks:- The Company is executing the work as per schedule and the project is likely to be commissioned during November, 2009 as mentioned by the Company.

(7) SORANG HYDEL PROJECT(100MW)

IPP : M/s Himachal Sorang Power Pvt. Ltd.Milestones of I.A.

Sr. No	Activity/Requirement	Due Date as per MOU/IA	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	23.9.04	
2.	Submission of Bank Guarantee.	-	-	
3.	Submission of DPR	May,2006	May,2005	
4.	TEC by CEA/HPSEB.	Aug,2006	June,2006	
5.	Signing of Implementation Agreement	-	28.1.06	
6.	Pollution clearance from the State.	July,2007	Sept.06	
7.	Clearance for diversion of Forest land from MOEF, GOI	July,2007	Nov.06	
8.	Environmental & Forest clearance from MOEF, GOI	July,2007	Sept.2006	
9.	NOC I&PH	July,07	Jan.06	
10.	NOC Fisheries	July,07	May,06	
11.	Financial Closure	Jan.08	June,07	
12.	Signing of PPA	Jan.08	-	
13.	Establishment of site office	July,07	Oct.06	.
14.	Survey	-	-	
15.	Start of Construction work.	Jan.08	Dec.06	The company has only started infrastructure works.
16.	Scheduled Commercial Operation Date	2011-12	-	

General Remarks:- The Company is achieving the milestone within time schedule fixed as per IA with regard to obtaining statutory/non statutory clearances. The project is scheduled for commissioning during 2011-12.

(8) LAMBADUG HYDEL PROJECT(25MW)

IPP : M/s Himachal Consortium Power Project (P) Ltd. Milestones of I.A.

Sr. No	Activity/Requirement	Due Date as per MOU/IA	Actual date	Remarks
1.	Signing of MOU with the GOHP	-	13.6.02	
2.	Submission of Bank Guarantee.	-	-	Name of Project: Lambadug HEP (25 MW)
3.	Submission of DPR	Dec.03	April,03	
4.	TEC by CEA/HPSEB.	Aug.06	Dec.04	
5.	Signing of Implementation Agreement	-	27.1.2007	
6.	Pollution clearance from the State.	-	-	
7.	Clearance for diversion of Forest land from MOEF, GOI	July,07	-	Under Process.
8.	Environmental & Forest clearance from MOEF, GOI	July,07	-	-do-
9.	NOC I&PH	July,07	June,03	-do-
10.	NOC Fisheries	July,07	-	
11.	Financial Closure	Jan.08	-	Under Process.
12.	Signing of PPA	Ja.08	-	
13.	Establishment of site office	-	-	
14.	Survey	-	-	
15.	Start of Construction work.	-	-	

Status:- The DPR submitted by the company on 10.2.2004 has been Techno-economically cleared by HPSEB on 17.12.2004. The Govt. has signed the IA with the Company on 27.1.2007. The Govt. has decided to sign the Ist Supplementary Implementation Agreement with the Company, in line with the New Power Policy of the State and the draft Supplementary I.A. has been prepared and sent to the Govt. vide letter dated 6.9.06. The company is in process of obtaining statutory/non-statutory clearances for the Project. The National Board of Wildlife has principally agreed for the Diversion of sanctuary land.

(9) FOZAL HYDEL PROJECT(9MW)

IPP: M/s Cosmos Consulting Ltd. New Delhi (Fozal Power Ltd. New Delhi) Milestones.

Sr. No	Activity	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	21.6.2000	
2.	Submission of Bank Guarantee.	-	-	
3.	Submission of DPR	13.12.06	--	
4.	TEC by CEA/HPSEB.	--	27.3.2002	
5.	Signing of Implementation Agreement	-	13.4.2006	
6.	Pollution clearance from the State.	12.12.06	-	
7.	Clearance for diversion of Forest land from MOEF, Govt. of India	12.12.06	-	
8.	Environmental & Forest clearance from MOEF, Govt. of India	12.12.06		
9.	NOC I&PH	12.12.06		Necessary proposals for obtaining Statutory / Non-statutory Clearances have been submitted by the company within 8 months as per the milestones fixed as per IA.
10.	NOC Fisheries	12.12.06		
11.	Financial Closure	13.4.08		
12.	Signing of PPA	13.4.08		
13.	Establishment of site office	13.4.08		
14.	Survey	13.4.08	May, 2001	
15.	Start of Construction work.	13.4.08	-	

STATUS:- The Govt. has terminated the MOU on 17.6.2004 due to non-compliance of the conditions of the MOU, by the company. The company has filed an arbitration case in Hon'ble High court of H.P. Recently the Govt. has advertised this project for implementation in private sector on BOOT basis in various news papers. In October, 2005 subject to the decision of the Court. However, the Project was deleted from the list in lieu of the decision taken by the Govt. to restore the MOU terminated earlier on 17.6.2004 by signing I.A. with M/s Cosmos Consulting. The Govt. of H.P. has signed the I.A. with the Company on 13.4.2006.

The Govt. has decided to sign the Ist Supplementary Implementation Agreement with the Company, in line with the New Hydro Power Policy of the State and the draft Supplementary I.A. has been prepared and sent to the Govt. vide letter dated 31.8.06. The Company at present is in the process of obtaining Statuary/ Non-Statuary clearance from various authorities/departments, such as MOEF clearance for diversion of forest land, MOEF clearance of environment/forest, Pollution clearance, NOC from I&PH and Fishries etc. The Project is slated for commissioning in 2010-11.

General Remarks:- The Company is achieving the milestone within time schedule fixed as per I.A. with regard to obtaining statutory/non-statutory clearances.

(10) TANGNU- ROMAI HYDEL PROJECT (50MW)

IPP : M/s PCP International Ltd. through SPV, Tangnu Romai Power Generation (P) Ltd. Milestones of I.A.

Sr. No	Activity/Requirement	Due Date as per MOU/IA	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	5.7.02	
2.	Submission of Bank Guarantee.	-	-	
3.	Submission of DPR	5.1.04	4.2.04	
4.	TEC by CEA/HPSEB.	5.4.04	9.7.07	
5.	Signing of Implementation Agreement	-	5.2.07	
6.	Pollution clearance from the State.			
7.	Clearance for diversion of Forest land from MOEF, Govt. of India	-	-	Under Process.
8.	Environmental & Forest clearance from MOEF, Govt. of India	-	-	-do-
9.	NOC I&PH	-	-	-do-
10.	NOC Fisheries	-	-	
11.	Financial Closure	-	-	
12.	Signing of PPA	-	-	
13.	Establishment of site office	-	-	Under Process.
14.	Survey	-	-	
15.	Start of Construction work.	-	-	

Status:- A Supplementary Implementation Agreement for the Project has been signed with M/s Nuziveedu Seeds Ltd., on 5.2.07 as per the provision of New Power Policy. The DPR submitted by Company on 11.11.2005 has been assessed Techno-economically viable by HPSEB on 9.7.07 for an estimated cost of Rs. 500.11 crores. The Company is in the process of obtaining various Statutory/ Non-Statutory Clearances from the concerned offices/authorities which is in advance stage.

General Remarks:- The Company is achieving the milestone within time schedule fixed as per IA with regard to obtaining statutory/non statutory clearances.

(11) TIDONG-I HYDEL PROJECT (100MW)

IPP : M/s Nuziveedu Seeds Pvt. Ltd. Milestones of I.A.

Sr. No	Activity/Requirement	Due Date as per MOU/IA	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	23.9.04	
2.	Submission of Bank Guarantee.	27.8.06	-	
3.	Submission of DPR	23.3.06	11.11.05	
4.	TEC by CEA/HPSEB.	28.1.08	23.7.07	
5.	Signing of Implementation Agreement	28.7.06	-	
6.	Pollution clearance from the State.	28.1.08	-	
7.	Clearance for diversion of Forest land from MOEF, Govt. of India	28.1.08	-	Under Process.
8.	Environmental & Forest clearance from MOEF, Govt. of India	28.1.08	16.8.07	
9.	NOC I&PH	28.1.08	8.2.06	
10.	NOC Fisheries	28.1.08	-	
11.	Financial Closure	28.7.08	-	
12.	Signing of PPA	28.7.08	-	
13.	Establishment of site office	28.7.08	-	
14.	Survey	28.7.08	-	
15.	Start of Construction work.			Under Process.

Status:- An Implementation Agreement for the Project has been signed with M/s Nuziveedu Seeds Ltd., on 28.7.2006 as per the provision of New Power Policy. The DPR submitted by Company on 11.11.2005 has been Techno-economically viable by HPSEB on 20.4.2006 for an estimated cost of Rs. 500.11 crores. The Company is in the process of obtaining various Statutory/Non-Statutory Clearances from the concerned offices/authorities which is in advance stage.

General Remarks:- The Company is achieving the milestone within time schedule fixed as per IA with regard to obtaining statutory/non statutory clearances.

(12) RAURA HYDEL PROJECT (8MW)

Name of IPP:- M/s DLI Power (India) Pvt. Ltd. Pune.

Status:- This Project was transferred to HPSEB from Himurja during August, 2002. M/s DLI Power (India) Pvt. Ltd. could not achieve the milestones as per MOU within the stipulated time and was granted a extension of time for two months with imposition of extension fee @ Rs. 10000, per MW/per month. TEC of the project has been obtained by the company from HPSEB on 8.7.2002 for

estimated cost of Rs. 42.03 crores. The Company is in process of signing the IA with the Govt. The draft IA has been prepared in line with the New Hydro Power Policy of the State has been sent to the GOHP vide letter dated 16.9.2006.

(13) PAUDITAL HYDEL PROJECT (24MW)

Name of IPP:- M/s Jailakshmi Power Corporation Ltd.

Status:- The DPR submitted by the Company on 10.2.2004 has been Techno-economic-Cleared by HPSEB on 28.7.2006. The Govt. has signed Implementation Agreement with the Company on 26.10.2006 in line with New Power Policy of the State. At present the Company is in the process of obtaining various clearances. The Project is slated for commissioning in 2009-10.

Remarks:- The Company has not submitted any progress report after signing of Implementation Agreement.

(14) BANER HYDEL PROJECT (6MW)

Name of IPP:- M/s Prodigy Hydro Power (P) Ltd. Jalandhar.

Date of MOU: 29.5.2000

Date of IA:- 1.10.2001.

Status:- The Project was transferred to HPSEB by Director (Himurja) during June,2001 as the power of HIMURJA has been reserved for projects upto 5 MW capacity only. The company was required to start the construction work within 12 months from the signing of the Implementation Agreement after obtaining statutory clearances. Since the Company could not start the work as per IA, the Govt. issued a show cause notice to the Company during August,2005. The Company requested for extension in order to achieve the milestones. The Govt. granted extension of six months with imposition of extension fee @ Rs. 10,000 per MW/per month for achieving the milestones during Nov. 2005. TEC of the project has been obtained by the company from HPSEB on 8.7.2002 for estimated cost of Rs. 30.36 crores. As per the clause-5.9 of IA, the company was required to start the construction work on the Project by 1.11.2001 after obtaining the statutory clearances, tying up for evacuation\ of Power, signing of PPA and achieving Financial Closure. The Company has so far not started the construction on the Project. A Supplementary Implementation Agreement is to be signed between the Govt. and the Company. The draft Supplementary IA prepared in line with the New Hydro Power Policy for the State has been sent to the Govt. vide letter dated 19.8.2006.

(15) BARAGAON HYDEL PROJECT(11MW)

IPP : M/s Kanchanjunga Hydro Power Ltd. (Formerly M/s Padmini Traders Pvt. Ltd.)Milestones.

Sr. No	Activity/Requirement	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	-	6.6.2002	
2.	Submission of Bank Guarantee.	6.7.2002	-	
3.	Submission of the following documents			
	i) A compendium giving details of the hydrological data/observations.	6.6.2003		
	ii) Topographical sheet prepared after conducting surveys.	6.6.2003		
	iii) A compendium giving details of Geological/Geophysical observations.	6.6.2003		
	iv) A report on the power evacuation arrangement envisaged by the company.	6.6.2003		
4.	Submission of DPR	6.12.2003	4.12.03	
5.	Establish Techno-economic viability of Project by HPSEB.	4.3.2004	Feb., 04	
6.	Date upto which the MOU is valid.	6.6.2004	-	
7.	Signing the Implementation Agreement with the GOHP.	6.6.2004	-	
8.	Submission of EMD.	-	-	
9.	Pollution Clearance from the State.			
10.	Clearance for Diversion of Forest land from MOEF, GOI.		-	Under process.
11.	Environment & Forest Clearance from MOEF, Govt. of India			Under process.
12.	Techno-economic Clearance from GOHP/ CEA.		1.9.05	
13.	Signing of Power Purchase Agreement.			
14.	Achieving Financial Closure.			
15.	Land Acquisition for start of work.			Under process.
16.	Start of construction work.			

Status:- The Techno-economic-clearance (TEC) for the project was accorded by HPSEB during Sept., 205 (1.9.05) and the Company subsequently signed Implementation Agreement with the Govt. of HP on 27.1.206. The Company is in the process of obtaining various Statutory/Non-Statuary clearances.

(16) SAI-KOTHI HYDEL PROJECT (15MW)

**IPP : M/s Venture Energy Technology
Milestones.**

Status:- Sai – Kothi HEP (15 MW) has been restored to the company M/s Venture Energy Technology during July, 2007. The company has submitted the DPR for TEC, which is under process.

(17) HARSAR HYDEL PROJECT (60MW)

1. Name of Project: HARSAR HEP(60 MW)

2. District : Chamba

3. Executing Agency: M/s Soffimat S.A. France

4. Milestone :

Sr. No	Activity/Requirement	Due Date	Actual date	Remarks.
1.	Signing of MOU with the GOHP	--	21.6.2000/ 12.7.2002	MOU signed on 21.6.2000 was revived by the Govt. on 12.7.2002.
2.	Submission DPR	-	18.1.2006	In pursuance to the orders passed by the Hon'ble Court, the Co. submitted the DPR on 18.1.2006
3.	Signing the implementation agreement with the GOHP.	-	-	-
4.	Clearance for Diversion of Forest land from MOEF, Govt. of India and Environment & Forest Clearance from MOEF, Govt. of India	-	-	-
5.	Techno-economic clearance from GOHP/ CEA.	-	-	-
6.	Signing of Power Pruchase Agreement.	-	-	-
7.	Achieving Financial Closure.	-	-	-
8.	Land Acquisition for start of Work.	-	-	-
9.	Start of construction work.	-	-	-
10.	Arrangements for evacuation of power after identification of purchaser of power (issue of letter from CE SP)	-	-	-
11.	Pollution Clearance from the State	-	-	-

Status:- The Govt. terminated MOU on account of violation of various conditions of the MOU by the company. The company filed a civil writ petition in the Hon'ble High Court of H.P. against the decision of the Govt. regarding

cancellation of the MOU. The court imposed a stay on the reallocation of the project to any third party as well as implementation by itself. Subsequently after the vacation of the stay imposed on re-allotment the Govt. advertised this project for implementation in Private Sector on BOOT basis in various new papers on 30th/31st October,2005. Consequent upon the directions passed by the Hon'ble High Court of H.P. the Govt. of H.P. has decided to restore the project in favour of M/s Soffimat France by signing the Implementation Agreement. Accordingly the project was deleted from the list of 15 HEPs advertised vide NIP dated 30th/31st October,2005. The DPR submitted by the company was accorded Techno- economic viability (TEV) by HPSEB. Then the company was required to enter in to an Implementation Agreement with the Govt. Accordingly, the draft I.A. prepared in line with the provisions of the Hydro Power Policy of the State, was sent to the Govt. vide letter dated 18.8.06. Later on, the company vide letter dated 25.10.2006, proposed to replace their consortium member M/s Hydro-Quebec having equity of 46.5 % in the consortium by M/s RSW Inc. Canada in same equity proportion. In view of the replacement of the consortium member proposed by the Company being contradictory to the clause 8 of the MOU/SMOU, the Govt. vide Principal Secretary (Home) to GOHP letter No. MPP-E (1)-2/2003-II dated 12.7.2007, conveyed the decision taken by the GOHP to terminate the MOU/ SMOU signed with M/s Soffimat, SA, France and re-allocated the project under State Sector for implementation through M/s Himachal Pradesh Power Corporation Ltd. The company then approached to the Hon'ble High Court of H.P. against the termination of the MOU/ SMOU. The Hon'ble High Court of H.P. through its order passed on 6th October,2007 directed the Govt. to consider the request of the company for inducting M/s RSWI in place of M/s Hydro Quebec on the basis of track record of M/s RSWI and a speaking orders shall be passed on this request on or before 15th November,2007 in case the Petitioner Company of M/s RSWI file an affidavit on the terms stipulated in the said orders. Consequent upon the orders passed by the Hon'ble High Court of H.P. on October,2007, the project stands restored in favour of M/s Soffimat S.A. France, with stipulations that the mandatory provisions contained in the Hydro Power Policy-2006, shall be made applicable to this project.

1.9.4.4. The State Government has adopted multi pronged strategy for power development through Independent Power Producers (IPPs), State Sector, Central Sector and Joint venture. The break-up of the potential of 20415.62 MW identified so far is given as under:

I. Potential Harnessed

1. State Sector	466.95 MW
2. Central Sector	3990.57 MW
3. Joint Sector	1500.00 MW
4. Private Sector	386.00 MW
5. Under HIMURJA	26.60 MW

Total: 6370.12 MW

II. Projects under Execution/ Allotted and Planned for 11th Plan:

1. State Sector	1133.10 MW
2. Central Sector	2763.00 MW
3. Private Sector	1848.00 MW

Total: 5744.10 MW

III. PROJECTS YET TO BE DECIDED/ALLOTTED: 46.5 MW

Sr. No.	Name of Project	Nallah/River Basin	Capacity
1.	Devi Kothi-II	Ravi	13.50 MW
2.	Sai Kothi-II	Ravi	15.00 MW
3.	Channi	Ravi	18.00 MW
		Total	46.50 MW

IV. PROJECTS CONSIDERED FOR ALLOTMENT IN THE MONTH OF APRIL, 2007: 2754.50 MW

Sr. No.	Name of the Project	District	Nallah/River Basin	Tentative Installed Capacity
1.	Khoksar	Lahaul & Spiti	Chandra/Chenab	90 MW
2.	Suil	Chamba	Suil/Ravi	13 MW
3.	Shalvi	Shimla	Shalvi/Yamuna	7 MW
4.	Kilhi Bahl	Kangra	Binwa/Beas	7.5 MW
5.	Chango Youngthang	Kinnaur	Spiti/Satluj	140 MW
6.	Gondhala	Lahaul & Spiti	Chandra/Chenab	144 MW
7.	Bardang	Lahaul & Spiti	Chenab	114 MW
8.	Mane Nadang	Lahaul & Spiti	Spiti/Satluj	70 MW
9.	Lara	Lahaul & Spiti	Spiti/Satluj	60 MW
10.	Miyar	Lahaul & Spiti	Miyar/Chenab	90 MW
11.	Tinget	Lahaul & Spiti	Miyar/Chenab	81 MW
12.	Teling	Lahaul & Spiti	Chandra/Chenab	69 MW
13.	Sumte Kothang	Kinnaur	Spiti/Satluj	130 MW
14.	Tandi	Lahaul & Spiti	Chenab	104 MW
15.	Rashil	Lahaul & Spiti	Chenab	102 MW
16.	Kuling Lara	Lahaul & Spiti	Spiti/Satluj	40 MW
17.	Patam	Lahaul & Spiti	Miyar/Chenab	60 MW
18.	Lara Sumta	Kinnaur	Spiti/Satluj	104 MW
19.	Reoli/Dugli	Lahaul & Spiti	Chenab	268 MW
20.	Dugar	Chamba	Chenab	236 MW
21.	Gyspa	Lahaul & Spiti	Bhaga/Chenab	170 MW
22.	Sach-Khas	Lahaul & Spiti	Chenab	149 MW
23.	Seli	Lahaul & Spiti	Chenab	454 MW
24.	Dhaura Sidh	Hamirpur	Beas	40 MW
	Total			2754.50 MW

The Project at Sr. No. 1 to 15 above are under various stages of evaluation for allotment in Private Sector. However, the Projects at Sr. No. 16 to 23 above have been re-advertised by H.P. Govt. on 10th October as less than three bids were received in respect of these projects.

V. PROJECTS WHICH HAVE BEEN ABANDONED DUE TO ENVIRONMENTAL CONSIDERATION: 435.00 MW

Sr. No.	Name of Project	Nallah/River Basin	Capacity
1.	Baspa-I	Satluj	210.00 MW
2.	Chamba	Ravu	126.00 MW
3.	Gharopa	Beas	99.00 MW
	Total		485.00 MW

VI. PROJECTS UNDER HIMURJA: 723.40 MW

GRAND TOTAL: 20415.62 MW

1.9.4.7.1 The year wise data on power generation and power purchase from outside w.e.f. 1980-81 has been depicted in the following table:-

**Table-13
Generation**

Generation Year	Generation MU	Electricity Purchased MU
1	2	3
1980-81	245.07	265.41
1985-86	596.83	392.12
1989-90	935.51	887.58
1990-91	1262.40	1058.69
1991-92	1050.37	1200.72
1992-93	1087.38	1256.16
1993-94	976.60	1338.98
1994-95	1131.69	1685.43
1995-96	1285.42	1926.35
1996-97	1251.93	2065.58
1997-98	1306.008	2287.61
1998-99	1484.493	2333.831
1999-2k	1201.319	2520.149
2000-01	1153.321	2539.338
2001-02	1149.501	2588.836
2002-03	1277.929	2882.881
2003-04	1356.953	3936.958
2004-05	1295.410	4296.838
2005-06	1332.375	4918.951
2006-07	1432.375	5056.951

1.9.4.9.1 It would be seen that power generation, which was 245.07 MU in 1980-81, touched the level of 1262.40 MU in 1990-91. The electricity generation process got a set back in the year 1993-94, when it dipped to a level of 976.60 MU due to the blockage in the Satluj river at Bhaba which brought the generation process to a halt. Thereafter, the generation went up so rapidly that it touched the highest level in the year 1998-99. The shortfall in over-all generation during 1999-2k, 2000-01, 2001-02, 2002-03 and 2004-05 is mainly due to less water availability at power stations. During the year 2006-07, the total electricity generation from the State projects was 1432.375 MU.

Table-14
Sale of Power

(Million KWH)			
Year	Sale within the State	Sale Outside the State	Total
1.	2.	3.	4.
1980-81	264.73	147.13	411.86
1984-85	470.02	217.28	687.30
1985-86	563.32	223.93	787.25
1989-90	897.10	359.487	1256.587
1990-91	1008.74	717.715	1726.455
1991-92	1022.02	581.866	1603.886
1992-93	1083.28	581.749	1665.029
1993-94	1155.63	511.047	1666.677
1994-95	1339.68	752.721	2092.401
1995-96	1597.68	802.400	2400.08
1996-97	1757.61	732.453	2490.063
1997-98	1946.52	721.458	2667.978
1998-99	2083.42	713.289	2796.709
1999-2k	2181.741	681.985	2863.726
2000-01	2205.866	615.618	2821.484
2001-02	2331.860	548.837	2880.697
2002-03	2519.002	688.026	3207.028
2003-04	2726.324	1692.889	4419.213
2004-05	2954.156	1658.997	4613.153
2005-06	3568.689	1722.532	5291.221
2006-07	4300.439	1255.280	5555.719

1.9.4.10 It would be seen that sale of power within the State is on an increase and registered an increase of 77.54 percent during 1984-85 over 1980-81 period. During 1989-90, the sale within the State was 897.10 Million kwh and registered an increase of 90.86 percent over 1984-85 period. During 1994-95 the sale within the State was 1339.68 Million kwh and registered an increase of 49.33% over 1989-90 period. During 1999-2000, the sale within the State was 2181.741 Million kwh and registered an increase of 62.86% over 1994-95 period and during the last financial year 2006-07 the sale within the State was 4300.439 Million kwh and registered an increase of 20.50% over previous financial year

2005-06. The power sale within and outside the State during 2006-07 was of the order of 5555.719 Million kwh. The aggregate availability being 6242.779 Million units, the transmission and distribution losses come to 887.071 Million units, which accounted for 13.77% of the total energy availability. However, it needs to be underlined that the aggregate figures of T&D losses does not reflect the reality since a large volume of energy is also wheeled through the system.

1. 9.4.11 The trend in power consumption in the State among different end uses is given below:-

Table-15
Power Consumption

(Million kwh)

End Users	Domestic (%)	Commercial (%)	Industrial (%)	Govt. Irrigation & WSS (%)	Agriculture (%)	Ph. Lighting (%)	Non Dom. Non Cmm*	Temp-praty*	Bulk/Misc	Total
1991-92	2531 (24.71)	83.7	467.7 (47.2)	94.8	29.8	3.2			70.2	1002.00
1992-93	283.153 (26.14)	88.068 (8.13)	512.260 (47.29)	121.701 (11.23)	14.141 (1.31)	3.582 (0.35)			60.372 (5.57)	1083.277
1993-94	312.506 (27.04)	91.711 (7.94)	552.488 (47.81)	123.047 (10.65)	13.559 (1.17)	4.107 (0.35)			58.216 (5.04)	1155.634
1994-95	348.521 (26.02)	103.080 (7.69)	655.941 (48.96)	141.387 (10.56)	11.945 (0.89)	4.409 (0.33)			74.399 (5.55)	1339.682
1995-96	387.539 (24.26)	112.046 (7.01)	818.238 (51.21)	149.380 (9.35)	12.236 (0.77)	4.832 (0.30)			113.408 (7.10)	1597.679
1996-97	426.771 (24.28)	120.549 (6.86)	910.622 (51.81)	149.334 (8.50)	11.375 (0.65)	6.158 (0.35)			132.797 (7.55)	1757.606
1997-98	474.371 (24.37)	134.898 (6.93)	1019.64 (52.38)	162.814 (8.37)	10.532 (0.54)	6.049 (0.31)			138.241 (7.10)	1946.545
1998-99	537.553 (25.80)	139.817 (6.71)	1073.453 (51.53)	175.860 (8.44)	12.031 (0.58)	6.711 (0.32)			137.995 (6.62)	2083.420
1999-2k	594.494 (27.23)	148.881 (6.82)	1111.437 (50.94)	183.985 (8.43)	16.541 (0.76)	7.916 (0.36)			118.487 (5.43)	2181.742
2000-01	636.516 (28.85)	161.622 (7.33)	1069.017 (48.46)	208.81 (9.44)	19.198 (0.87)	8.394 (0.38)			102.936 (4.67)	2205.866
2001-02	664.419 (28.49)	174.963 (7.52)	1122.544 (48.14)	202.258 (8.67)	18.048 (0.77)	9.135 (6.39)			140.493 (6.02)	2331.860
2002-03	704.663 (27.97)	186.878 (7.42)	1229.707 (48.82)	224.252 (8.90)	19.546 (0.78)	9.456 (0.38)	11.428 (0.45)	1.540 (0.06)	131.532 (5.22)	2519.002
2003-04	769.362 (28.22)	206.705 (7.758)	1338.006 (49.08)	249.704 (9.16)	19.370 (0.71)	9.972 (0.37)	15.075 (0.55)	1.678 (0.06)	116.452 (4.27)	2726.324
2004-05	809.786 (27.41)	224.004 (7.58)	1491.854 (50.50)	270.513 (9.16)	25.265 (0.86)	10.870 (0.37)	20.355 (9.16)	3.039 (0.10)	98.469 (3.33)	2954.156
2005-06	866.593 (24.28)	218.228 (6.12)	1979.122 (55.46)	305.290 (8.55)	24.732 (0.69)	11.740 (0.33)	46.891 (1.31)	10.231 (0.29)	105.862 (2.97)	3568.689
2006-07	948.307 (22.05)	225.776 (5.25)	2553.520 (59.38)	324.881 (7.56)	26.404 (0.61)	11.355 (0.26)	63.386 (1.47)	19.370 (0.45)	127.461 (2.96)	4300.439
Decadal Change in %age share	(+)122.21	(+)87.29	(+)180.41	(+)117.55	(+)132.12	(+)84.39	(+)454.66	(+)1157.80	(+)4.0	114.68

The above data indicates that industrial consumption has increased to 2553.520 MU at the end of the year 2006-07, which is 59.38% more than the consumption recorded during the year 2005-06. It further reflects that industrial consumption alone account for about 59.38% of the total consumption in HP. In terms of decadal changes in consumption by end user, the highest increase has also been recorded in industrial consumption (180.41%) followed by commercial category (including non-domestic, non-commercial & temporary consumers) 155.94%, Agriculture 312.12 %, domestic 122.21%, Govt. Irrigation WSS 117.55 % and public lighting 84.39 %. The rate of increment for the overall consumption over the decade (1996-97 to 2006-07) was 144.68%. The higher growth in industrial, commercial and domestic consumption indicates high improvement in the economy and standard of living across the population of the State.

5. Rural Electrification

1.9.5.1 According to 1991 census, census villages numbered 19,388. Of these, 2391 villages were un-inhabited and the rest 16,997 were inhabited. Out of inhabited villages 16,915 have been electrified up to 3/2006. The State had achieved 100% electrification target during 1988-89, of the then 16,807 inhabited census villages. As per census 2001, census villages have numbered 17,495, out of which 17173 have been electrified by the end of March, 2007.

1.9.5.2 In addition to above, 4037 hamlets (out of total of 4182 as per 1988 survey) also stand electrified up to October, 2007. Besides, 536 un-identified hamlets have also been electrified.

1.9.5.3 For making assess to electricity to 100% households in the State, schemes for all the districts in H.P. have been formulated under Rajiv Gandhi Grameem Vidyutikaran Yojna and submitted to the Govt. of India for sanction. So far, 10 schemes for Chamba, Una, Kangra, Hamirpur, Bilaspur, Mandi, Solan, Kullu, Sirmour and Shimla districts, amounting to Rs. 191.13 crore have been sanctioned. The first installment of Rs. 7.33 crore has been released and work is under execution.

6. Animal Husbandry

1.9.6.1 The livestock census data for the last 4 livestock census is given below which indicates that the total livestock population has declined by about 3 lakh heads between 1987 & 2003. It is a pointer to two trends: one that the pastoral and livestock based livelihoods are declining in number and the other that the stock is improving in quality as the output is increasing:-

(In lakh)

Sr.No.	Category	1987	1992	1997	2003
1.	Cattle	22.45	21.65	21.74	21.96
2.	Buffaloes	7.95	7.04	7.48	7.73
3.	Sheep	11.14	10.79	10.80	9.06
4.	Goats	11.20	11.18	11.68	11.16
5.	Horses and Ponies	0.20	0.14	0.13	0.17
6.	Mules and Donkeys	0.31	0.24	0.26	0.33
7.	Pigs	0.18	0.07	0.07	0.03
8.	Other Livestock	0.02	0.06	0.08	0.02
	Total	53.45	51.17	52.24	50.46

1.9.6.2 The Animal Husbandry infrastructure created since Sixth Plan onwards is depicted in the table given below: -

Table-16
Veterinary Institutions

Sr. No.	Institutions	Number at the end of			At the end of 9 th Plan (1997-02)	At the end of Annual Plan (2002-03)	At the end of Annual Plan (2003-04)	At the end of Annual Plan (2004-05)	At the end of Annual Plan (2005-06)	10 th Plan (2002-07)
		6 th Plan (1980-85)	7 th Plan (1985-90)	8 th Plan (1992-97)						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
1.	Hospitals	197	230	303	303	303	303	303	303	306
2.	Dispensaries	395	514	1585	1585	1586	1721	1721	1721	1787
3.	Central Vety. Dispensaries	-	-	25	25	25	25	25	25	25
4.	Mobile Dispensaries	14	14	14	14	14	14	14	14	14
5.	Polyclinics	-	-	-	7	7	7	7	7	7

1.9.6.3 As would be noticed from table 16 above, Veterinary Institutions network has spread at a quite brisk rate. At the end of Sixth Five Year Plan 1980-85, there were only 197 Veterinary Institutes in the State. This number has risen to 306 by the end of 10th Plan registering an increase of 55.33 percent. As a result of the Govt. policy to open atleast one dispensary for every two panchayats, an un precedent increase of 352.40 percent has been registered in the opening of Vety. dispensaries by the end of 11th plan.

(A) Livestock Production

1.9.6.4 The production of important animal products is depicted in the following table: -

Table -17
Livestock Production

Sr. No.	Name of the Product	Unit	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1.	Milk	000 ⁺ Tonnes	713.962	723.654	741.266	760.411	762.864	772.494	786.222	869.510	869.14	872.395
2.	Eggs	Lakh Number	750.384	775.200	800.539	815.677	822.405	887.743	839.864	811.375	752.671	771.978
3.	Wool	Lakh Kg.	15.65	15.72	15.76	15.82	16.15	15.94	15.99	16.00	16.03	16.05

1.9.6.5 Table-17 above, depicts that milk production has increased at a steady pace. During the last 6 years 2001-02 to 2006-07, it has shown an increase of 14.36 percent which shows that animal health care services have paid dividend. The table also shows that egg production also increased at a considerable pace upto 2002-03 but thereafter it has slightly declined. This can be attributed to spread of communicable diseases like bird flu which created extra awareness among the producers as well as the consumers. The critical feature of this table is that wool production has remained almost static. This strengthens the belief that younger generation of the migrating gaddis has not come forward to adopt sheep rearing as their main occupation.

7. Growth of Health Institutions

1.9.7.1 The growth of Health Institutions in Himachal Pradesh from 1971 onwards is depicted in the following table: -

Table-18
Health Institutions in H.P. as on 31st March of Each Year

Sr. No	Items	1971	1980	1985	1990	1995	1997	2002	2003	2004	2005	2006	2007
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1.	Hospitals*	39	58	73	73	72	74	103	106	106	116	116	117
2.	PHC/CHC/RH/SHCs ^	72	77	145	225 \$	275	310	369	507 ☺	504	505	505	514
3.	Allopathic Dispensaries	119	186	214	197	165	167	155	21	22	22	22	22
4.	Ayurvedic Dispensaries ***	363	404	430	592	674	826	1128	1135	1135	1122	1122	1122
5.	HSCs	256	856	1299	1851	1907	1980	2068	2067	2067	2068	2069	2071
6.	Dental College	0	0	0	0	1	1	1	1	1	1	1	1
	Total:	849	1581	2161	2938	3094	3358	3824	3837	3835	3834	3835	3847

Note: PHC =Primary Health Centre, CHC =Community Health Centre, RH = Rural Hospital, SHC = Subsidiary Health Centres & HSC = Health Sub-Centre.

* Including Govt. , Private , Voluntary Organisations' , Cantonment Board and Trust Hospitals + Ayurvedic Hospitals

\$ Subsidiary Health Centres were converted into PHCs during the year 1986-87.

^ Rural Hospitals were converted into community Health Centres during the years 1993-94 to 1997-98.

ə Allopathic dispensaries functioning in Rural Areas were classified as Primary Health Centres during the year, 2002-03

*** includes Unani and Homeopathic Dispensaries.

1.9.7.2 It would be seen that the growth of medical institutions in the State has resulted in better medical care to the people. This is also reflected in considerably lowering down of crude birth and death rates and significant improvement in the infant mortality rate. The comparative data on vital statistics for Himachal Pradesh and All-India is as under: -

Table-19
Comparative Data on Vital Statistics

Sr. No.	Parameter	All India	Himachal Pradesh
1.	2.	3.	4.
1.	Birth/Thousand (2005)	23.8	20.0
2.	Death/Thousand (2005)	7.6	6.9
3.	Infant Mortality/Thousand (2005)	58	49
4.	Couple Protection Rate:		
	i) As on 31.3.2000	46.2	51.57
	ii) As on 31.3.2007	N.A.	45.70
5.	Life Expectancy at birth (2000-2004)	63.0	66.5

1.9.7.3 The birth rate and death rate of H.P. is depicted in the following table: -

Table-20
Data on Birth Rate and Death Rate in H.P. (SRS Rates)
(Per thousand)

Year	Birth Rate	Death Rate	Differential
1.	2.	3.	4.
1971	37.3	15.6	21.7
1981	31.5	11.1	20.4
1991	28.5	8.9	19.6
1999	23.8	7.3	16.5
2000	22.1	7.2	14.9
2001	21.2	7.1	14.1
2002	20.7	7.5	13.2
2003	20.6	7.1	13.5
2004	19.2	6.8	12.4
2005	20.0	6.9	13.1
2006	18.8	6.8	12.0

Table-21
Comparative Data on Infant Mortality Rate
(Per Thousand)

Year	Himachal Pradesh	All India
1.	2.	3.
1971	118	129
1981	71	110
1991	75	80
1999	62	70
2000	60	68
2001	54	66
2002	52	63
2003	49	60
2004	51	58
2005	49	58
2006	50	57

1.9.7.4 The decadal variation in the population since 1901 has been reported as under : -

Table-22
Decadal Variation in Population

Year	Persons	%age Decadal Variation
1.	2.	3.
1901	1,920,294	-
1911	1,896,944	(-) 1.22
1921	1,928,206	(+) 1.65
1931	2,029,113	(+) 5.23
1941	2,263,245	(+) 11.54
1951	2,385,981	(+) 5.42
1961	2,812,463	(+) 17.87
1971	3,460,434	(+) 23.04
1981	4,280,818	(+) 23.71
1991	5,170,877	(+) 20.79
2001	6,077,900	(+) 17.54

8. Education

1.9.8.1 The literacy percentage in Himachal Pradesh has increased from 31.96 percent in 1971 to 42.48 percent in 1981, 63.86% in 1991 and has now reached 76.50% as per 2001 census. This literacy rate in Himachal Pradesh is higher than the national average. The march of education continued ahead through concerted efforts of spread of educational institutions, providing incentives for retention specially of SC/ST and OBC category children and enlarged enrolment, the data of which is given below:-

Table-23
Enrolment Data

Sr. No.	Age Group	Percentage of Enrolment to Total Population - Age group wise													
		1985-86	1989-90	1992-93	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
1.	6-11 Years														
	(a) Boys	111	110	104	109	104	105	103	104	104	103	100	104	104	104
	(b) Girls	91	10	94	101	102	105	103	104	104	103	100	104	104	106
	Total														
		100	105	99	105	103	105	103	104	104	103	100	104	104	105
2.	11-14 Years														
	(a) Boys	90	90	91	100	100	100	100	100	99	95.8	96.6	95.0	95.0	124
	(b) Girls	60	74	76	89	90	90	90	91	87	93.0	94.2	91.6	91.6	121
	Total														
		75	82	84	95	95	95	95	95.5	93	94.4	95.4	93.4	93.4	122.5

XI. Growth of Educational Institutions

1.9.8.2 The decadal achievements of Educational Institutions upto 2000-01 and Annual Plan wise achievements till 2006-07 are given in the following table:-

Table-24
Educational Institutions

Sr. No	Institutions	As on 31 st March								
		1970-71	1980-81	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
1.	Primary Schools	3768	6093	10633	10633	10634	10651	10651	10652	11525
2.	Middle Schools	742	1032	1674	1674	1814	2194	2199	2186	2324
3.	High Schools	435	582	860	978	962	952	949	953	860
4.	Senior Secondary Schools	-	3	150	536	572	687	696	708	991
5.	Colleges	15	25	25	37	40	40	41	47	70
	Total	4960	7735	13342	13858	14022	14524	14536	14546	15770

1.9.9.1 In the field of technical education, the State has made significant strides. The position of technical institutions functioning in the Government Sector is depicted in the following table: -

Table-25
Technical Institutions

Sr. No.	Institutions	As on 31 st March											
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
		1993	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1.	National Institute of Technology	1	1	1	1	1	1	1	1	1	1	1	1
2.	Government B. Pharmacy College	-	-	-	-	-	-	-	-	-	-	1	1
3.	Government Engineering College	-	-	-	-	-	-	-	-	-	-	1	1
4.	Polytechnics	5	6	6	6	6	7	7	7	7	7	6	6
5.	Industrial Training Institutes	32	34	34	34	34	44	44	50	50	50	51	54
6.	Motor Driving & Heavy earth Moving Operator Training Institute under SCVT Scheme	-	-	-	-	-	-	1	1	1	1	1	1

X. Production Details

1. Agriculture/Horticulture Production

1.10.1.1 The decadal details of Area and Production of foodgrains, Major commercial crops in H.P. upto 1990-91 and achievements made during the Annual Plans, 1997-98, 1998-99, 1999-2000, 2000-01, 2001-02, 2002-03, 2003-04, 2005-06 and 2006-07 are depicted in the table given below: -

Table-26

**Table Showing Area and Production of Food grains and Major Commercial Crops in H.P.
(AREA IN 000 HECT. AND PRODUCTION IN 000 M.T.)**

Sr No	Name of the Crop	Year 1990-91		Year 1998-99		Year 1999-2k		Year 2k - 01		Year 2001-02		Year 2002-03		Year 2003-04		Year 2004-05		Year 2005-06		Year 2006-07	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	*Area	*Production
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	FOOD GRAINS	874.209	1433.096	836.998	1313.015	822.418	1446.138	813.876	1112.051	817.526	1598.922	806.275	1110.862	812.369	1397.978	811.037	1487.645	792.92	1272.58	796.50	1487.64
	A. Total Kharif	459.208	783.788	423.975	800.681	419.401	823.315	419.338	832.263	420.217	924.829	413.403	581.364	419.012	870.038	414.006	763.545	406.92	672.58	400.50	893.85
	1. Maize	319.111	654.957	300.976	662.282	299.906	681.424	298.052	683.642	301.282	768.198	297.024	479.210	298.467	729.571	298.605	636.294	295.35	543.06	273.14	739.20
	2. Paddy	84.939	106.497	82.152	116.997	80.221	120.365	81.519	124.893	80.579	137.418	83.273	85.653	81.335	120.624	79.519	109.129	79.37	112.14	79.52	121.88
	3. Ragi	5.961	4.061	3.673	4.159	3.956	4.441	4.130	4.161	4.007	4.692	3.223	4.049	3.941	4.283	3.469	4.447	3.32	3.41	2.50	4.00
	4. Millets	16.014	10.320	10.525	7.231	11.108	7.414	10.777	7.067	9.706	6.298	9.991	6.850	12.267	7.417	8.904	5.700	8.50	5.67	7.00	8.00
	5. Pulses	33.183	7.953	26.649	10.012	24.210	9.671	24.860	12.500	24.643	8.223	23.892	5.602	23.002	8.143	23.509	7.975	20.38	8.30	26.00	20.77
	B. Total Rabi	415.00 ₁	649.30 ₄	413.02 ₃	512.33 ₄	403.01 ₇	622.82 ₃	394.53 ₈	279.78 ₈	397.30 ₉	674.09 ₃	388.87 ₂	529.49 ₈	393.35 ₇	527.94 ₀	397.03 ₁	724.10 ₀	386.00	600.00	396.00	560.33
	1. Wheat	376.278	601.716	379.718	481.267	370.587	583.300	362.680	251.319	366.518	637.068	359.439	495.558	363.359	496.930	367.770	687.452	355.00	550.00	367.77	506.21
2. Barley		29.295	43.051	26.752	27.756	25.901	32.496	25.643	21.414	25.017	34.685	23.596	30.614	24.324	28.139	23.427	33.713	22.00	38.00	23.00	39.43

1.	2.	3.	4.	II.	1.	2.	3.	III.	IV.
Gram	Pulses	COMMERCIAL CROPS	Potato	Ginger (Dry)	Vegetables	APPLE PRODUCTION	ALL FRUITS PRODUCTION		
3.360	6.068	39.523	16.000	1.523	22.000	62.828	163.330		
2.225	2.316	482.900	115.000	2.900	365.000	342.071	386.314		
1.911	4.642	45.936	13.836	3.100	29.000	85.631	207.240		
1.293	2.018	656.584	153.184	3.400	500.000	393.653	447.684		
1.694	4.835	47.473	14.373	3.100	30.000	88.673	212.951		
1.527	5.500	706.178	182.678	3.500	520.000	49.129	89.415		
1.346	4.869	50.600	15.500	3.100	32.000	90.348	217.336		
1.490	5.565	743.700	160.000	3.700	580.00	376.776	128.049		
1.442	4.332	49.560	12.800	2.610	34.150	93.122	223.577		
1.109	1.231	785.345	155.00	2.900	627.445	180.528	263.446		
1.351	4.486	52.307	14.632	2.455	35.220	81.630	176.206		
1.013	2.313	766.682	143.054	1.710	621.918	348.263*	459.623*		
1.338	4.336	61.354	15.036	2.044	44.274	84.112	182.441		
1.210	1.661	905.977	173.162	1.465	731.350	459.492	559.977		
1.333	4.501	62.256	14.000	2.043	46.213	86.202	186.903		
1.323	1.612	981.818	147.919	1.457	832.442	527.601	692.011		
3.00	6.00	67.04	15.00	2.18	49.86	88.56	191.67		
4.50	7.50	1091.60	160.00	1.62	929.98	540.36	695.52		
4.00	8.00	69.546	14.313	5.00	50.233	918.04	197.445		
7.00	7.69	1143.435	163.213	7.00	991.44	268.402	369.103		

* Anticipated

2. Fisheries

1.10.2.1 Himachal Pradesh is blessed with some of the finest rivers viz. Satluj, Beas, Ravi and Chenab originating from the permanent glaciers and spring-beds. The rivers and their branches are bestowed with exotic trout, mahseer, snow trout, louches, indigenous lesser barilas and minor carps. Besides, there are many natural lakes located in the higher reaches and man made impoundments harbouring more than 78 species of fish. The level of fish production and fish seed production is depicted in the following table: -

Table-27
Fish Production

Sr. No	Item	Unit	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1.	Fish Production (Inland)	000' Tonnes	6.26	6.68	6.79	6.99	7.02	7.21	7.24	6.46	6.90	7.29	6.88
2.	Fish Seed Production												
	i) Fry	Million	21.97	23.35	23.21	23.63	25.77	27.53	16.99	17.49	16.54	19.17	16.98
	ii) Fish Seed Farms	Nos.	6	6	6	5	5	5	4	4	4	4	4
	iii) Nursery	Area Hect.	15	15	15	15	15	15	15	15	15	15	15

XI. Rural Infrastructure Scenario

1.11.1.1 The position of rural infrastructure in Himachal Pradesh as on 31.3.2007 is as under:

Table –28
Position of Rural Infrastructure by the end of 31ST MARCH, 2007

Sr. No.	Item	Unit	Position as on 31.3.2007
1.	2.	3.	4.
1.	Road Length (Motorable)	Kms.	27584
2.	Village connected with Roads	Nos.	8531
3.	Bridges	Nos.	1483
4.	Primary Schools	Nos.	11525
5.	Middle Schools	Nos.	2324
6.	High Schools	Nos.	860
7.	Senior Secondary Schools	Nos.	991
8.	Veterinary Hospitals	Nos.	306
9.	Veterinary Dispensaries	Nos.	1787
10.	PHC/CHC/RH/SHCs	Nos.	514
11.	Health Sub-Centres	Nos.	2071
12.	Civil Dispensaries	Nos.	22
13.	Ayurvedic Dispensaries	Nos.	1122
14.	CCA Created	Lakh Hect.	2.12

1.11.1.2 As would reveal from table No. 28, Himachal Pradesh has motorable roads measuring 27,584 km. by the end of 31st March, 2007. As per National Policy, all villages in hill areas are to be connected with all weather motorable roads but considering topography and location of isolated villages upon high

slopes of hill ranges, it may not be feasible to provide motorable roads to connect all villages. In accordance with an assessment made some time back only 12,347 villages excluding isolated villages fall in the range of connectivity. Hence, motorable road length to connect all these villages works out to about 30,500 kms. Thus, Himachal Pradesh has almost achieved 90.44 percent of its ultimate goal. In so far as the connectivity to feasible villages 12,347 excluding isolated villages is concerned, the State has achieved 69.09 percent of the targets.

1.11.1.3 To universalize the primary education, the State Government has embarked upon an expansion programme to identify unserved areas so that primary schools could be opened in order to provide access to all eligible children in the age group of 6-11 years. As a result of these efforts large number of primary schools were opened all over the State which aggregated to 10,652 as on 31.3.2007 as against 808 opened by the end of first five year plan (1951-56).