

CHAPTER-I

CONSTITUTION OF STATE FORESTS

THE FOREST AREA

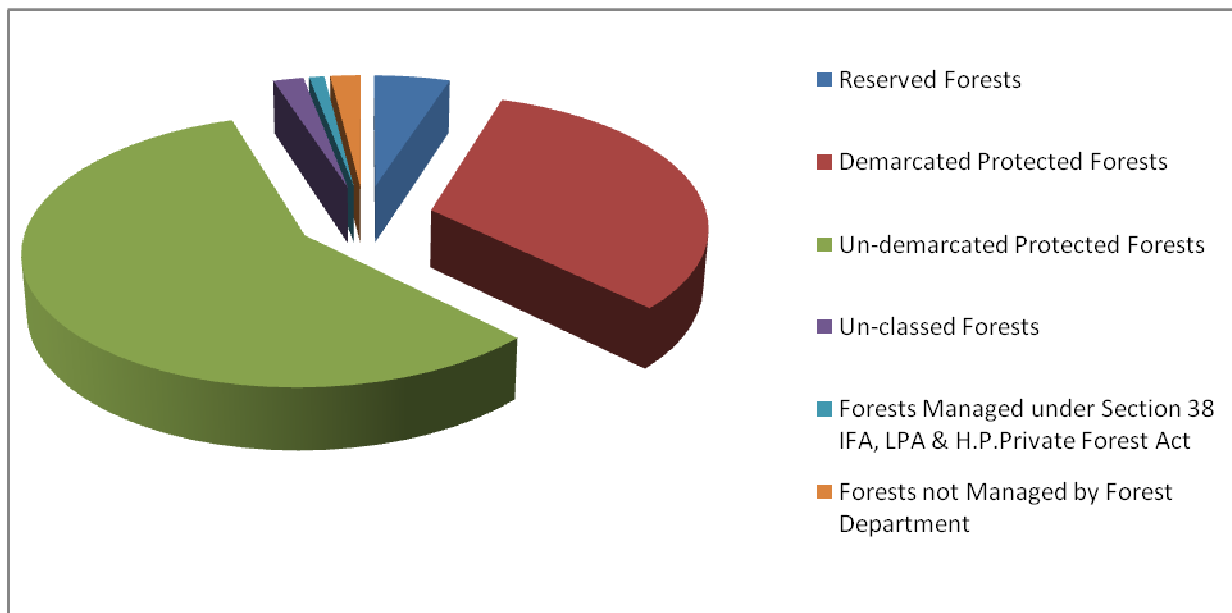
1.1 Alteration in Forest Area: The forest area at commencement of year was 37,03,297 hectares which remained unchanged during the year. This consists of 20,65,697 hectares culturable forest area and 16,37,600 hectares un-culturable forest area (barren lands, high alpine pastures, snow bound area etc.). This forms 66.5% of the total geographical area of the Pradesh. During the year an area of 854 hectares was transferred to the Municipal Corporation, Shimla from Shimla (Urban) Division vide Government of Himachal Pradesh Notification No. FFE-B-F (12) -2/99-I dated 14/6/2011.

Detail of area under various classes of forests as on 31.03.2011 vis-à-vis 31.03.2012 is indicated below in Table-1.

TABLE: 1

Class of the Forests	Area (in ha) as on		Variation
	31.03.2011	31.03.2012	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
A. Forests Managed by the Forest Department			
1. Reserved Forests	1,89,786	1,89,613	(-) 173
2. Protected Forests			
a) Demarcated	11,91,180	11,91,180	--
b) Un-demarcated	21,20,478	21,19,797	(-) 681
c) Strip Forests (Road/Railway)	1,312	1,312	--
3. Un-classed Forests	88,634	88,634	--

Total - A:	35,91,390	35,90,536	(-) 854
B. Private Forests Managed by Forest Department			
4. Area under Section 38 IFA	10,867	10,867	--
5. Area managed under LPA	26,002	26,002	--
6. Area under H.P Private Forest Act.	80	80	--
Total - B:	36,949	36,949	--
C. Forests Not Managed by Forest Department			
7. Municipal Forests	1,037	1891	(+) 854
8. Cantonment Forests	1,386	1,386	--
9. Shamlat & Mustarqua Forests	16,997	16,997	--
10. Other Forests (Private Individuals)	55,538	55,538	--
Total - C:	74,958	75,812	(+) 854
Grand Total :	37,03,297	37,03,297	--



1.2 **Form No. 7 and Appendix-I** provides the area by legal classification and working circle-wise respectively. **Appendix-II** depicts District and Division wise forest area by legal classification. Brief descriptions of change in the forest area are as under:-

- a) **Reserved Forests:** - The total reserved forests were 1, 89,613 hectares, against 1, 89,786 hectares at commencement of the year. Thus there was a change to the extent of 173 hectares owing to transfer of forests to Municipal Corporation Shimla from the Shimla (Urban) Division during the year.
- b) **Demarcated Protected Forests:** - The total area under demarcated protected forests was 11,91,180 hectares during the year, which is same as that existed at commencement of the year. There was no change in demarcated protected forests during the year.
- c) **Un-demarcated Protected Forests:** - The total area under un-demarcated protected forests was 21,19,797 hectares, against 21,20,478 hectares at commencement of the year. Thus there was a change to the extent of 681 hectares owing to transfer of forests to Municipal Corporation Shimla from the Shimla (Urban) Division during the year.

1.3 **Forest Settlement:** Forest settlement works remained in progress in Dharamshala, Kullu, Nahan and Shimla Circles during the year. This work is being carried out by the following Settlement Units:-

- 1) Settlement unit Sirmour and Solan districts with Headquarters at Nahan.
- 2) Settlement unit Kangra district with Headquarter at Palampur.
- 3) Settlement unit comprising of districts of Kullu and Lahaul with Headquarters at Kullu. Its administrative and executive control has been transferred to Settlement Officer Kangra at Dharamshala. The forest land settlement was being carried out jointly under the supervision of A.S.O. (Revenue), Kullu.
- 4) Settlement unit Hamirpur has jurisdiction of Hamirpur and Una districts. All areas vested with Government under HP Village Common Lands (Vesting and Utilization) Act, 1974 and HP Ceiling on Land Holdings Act, 1972 were not surveyed and demarcated for creation of new DPFs as per Government orders

dated 8/5/1990, thereafter the settlement unit headquarter was shifted to Bilaspur and was asked to take up work in Bilaspur District.

The Circle-wise progress made in carrying out the Forest Settlement operations during the year is given in Form No. 8 of the report.

1.4 Demarcation of Boundaries: An amount of Rs. 27,11,450/- was spent on construction of 786 new boundary pillars over a perimeter of 254 Kms. An amount of Rs. 11,50,240/- was spent on the repair of boundary pillars over a length of 42,475 Kms. during the year.

1.5 Forest Survey: No Forest Survey was conducted during the year by the Survey of India or any other agency.

CHAPTER-II

MANAGEMENT OF STATE FORESTS

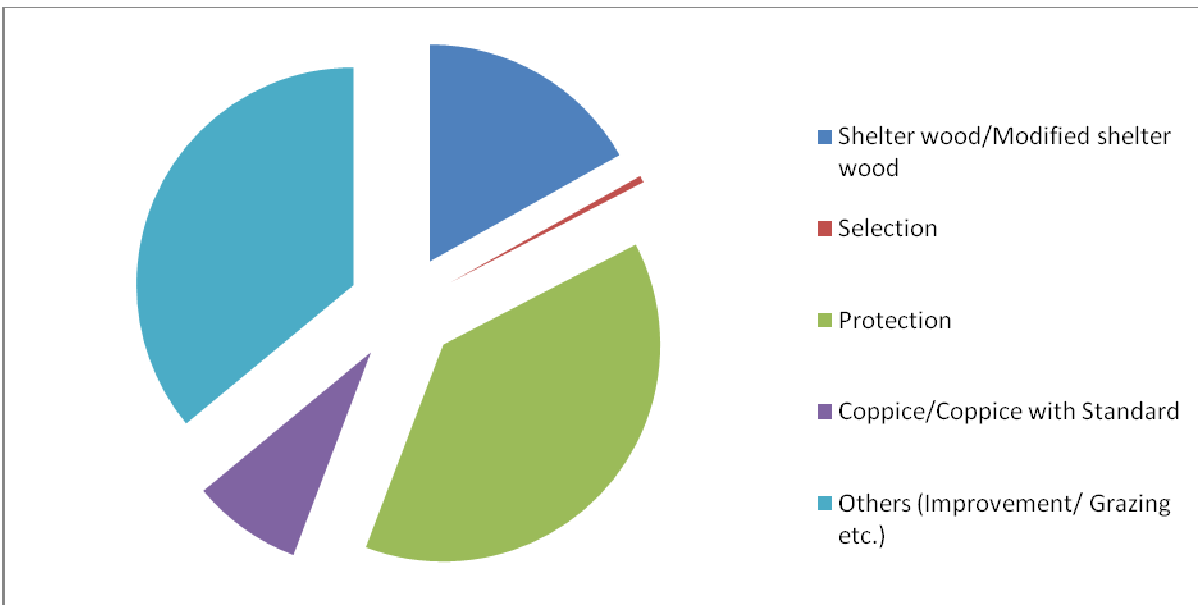
2.1 Regulation and Management: Out of a total forest area of 37032.97 km², the area managed by the Forest Department during the year was 36274.85 km². This includes 35905.36 km² of State forest land and 369.49 km² of private forests (managed by the department under section 38 IFA, area managed under HP Private Forest Act and the Land Preservation Act). An area of 758.12 km² is outside the management of Forest Department and is managed by Municipalities, Cantonment Boards and other organizations. An area of 24908.92 km² is managed as per the prescriptions of the working plans. The remaining areas, which are mostly un-demarcated, un-classed lands, other private forests devoid of any vegetation are also being brought under systematic management in phases.

2.2 System of Management: The Forests require different management practices and silvicultural treatment for different forest crops. The systems prescribed along with the extent of area managed are given below:

TABLE: 2

Silviculture Systems

Sr.No.	Name of Systems	Area in km ²	Percentage
1.	Shelter wood/Modified shelter wood	4200	16.9
2.	Selection	125	0.5
3.	Protection	9577	38.4
4.	Coppice/Coppice with Standard	2041	8.2
5.	Others (Improvement/ Grazing etc.)	8966	36.0
	Total	24909	100.0



2.3 Working Plans: Working Plans are one of the important forestry documents, prescribing treatment for regeneration, management and exploitation of forests keeping in view different growth patterns, hygiene of forests and for meeting needs of the people. Revision of working plans has been given top priority.

2.3.1 Working Plans under revision: The working plans of Shimla, Kullu, Dalhousie, Nachan, Rohru, Theog, Rampur, Parvati, Churah, Lahaul, Ani and Kutlehar (Mini WP) are under revision.

2.3.2 Working Plans Approved: The working plans of Chamba, Hamirpur, Mandi, Jogindernagar, Renukaji, Pangi, Kinnaur, Solan, Nahan, Paonta, Chopal, Suket, Bharmour, Karsog and Palampur have been approved by Govt of India.

2.3.3 Working Plans submitted for Approval: The draft working plans of have been submitted to Government of India for approval.

2.4 Control Forms: Control forms monitor the prescribed volume and location of felling prescribed in the working plans vis-à-vis the actual felling. Top priority needs to be given to update the control forms. The position with regard to approval of the control forms is given below: -

TABLE : 3

Sr. No.	Name of Circles	Name of Divisions	Year up-to which control forms approved
1	2	3	4
1.	Bilaspur	Bilaspur	1994-95
		Kunihar-Nalagarh	1990-91
2.	Chamba	Bharmour	1992-93
		Chamba	1991-92
		Churah	1992-93
		Dalhousie	1999-2000
		Pangi	1998-99
3.	Dharamshala	Dharamshala	1998-99
		Nurpur	1998-99
		Palampur	2001-02
4.	Hamirpur	Dehra	1997-98
		Hamirpur	2008-09
		Kutlehar	1994-95
		Una	1995-96
5.	Kullu	Kullu/Parvati	1995-96
		Seraj	1998-99
		Lahaul	1998-99
6.	Mandi	Joginder Nagar	1995-96
		Karsog	2000-01
		Mandi	1998-99
		Nachan	1998-99
		Suket	2008-09
7.	Nahan	Nahan/Paonta	1992-93
		Rajgarh	1998-99
		Renukaji	1992-93
		Solan	2002-03
8.	Rampur	Ani	2002-03
		Kinnaur	1996-97
		Rampur –Kotgarh	1992-93
		Spiti	1995-96
9.	Shimla	Chopal	1992-93
		Rohru/Jubbal	1994-95
		Shimla/Theog	1993-94

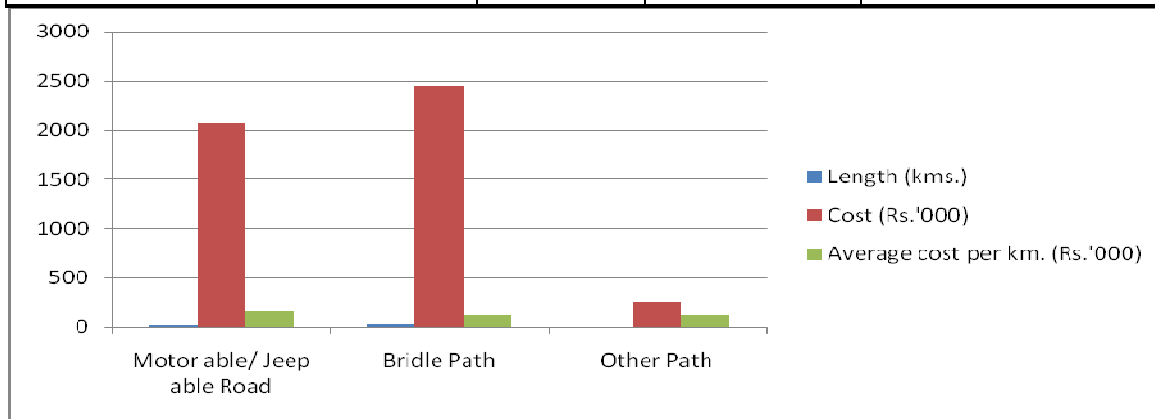
2.5 Roads and Paths:

During the year, 34.3 km. of roads and paths were constructed at a cost of Rs. 47,67,700. Besides this, an amount of Rs. 65, 41,400 was spent on

repair of 263.5 km. of existing forest paths. The length of roads and paths constructed during the year is indicated below:

TABLE: 4
Roads and Paths Constructed
 (New Construction Only)

Type of Roads & Path	Length (kms.)	Cost (Rs.'000)	Average cost per km. (Rs.'000)
Motorable/ Jeep able Road	13.4	2070.8	154.54
Bridle Path	18.9	2446.9	129.46
Other Path	2.0	250.0	125.00
Total	34.3	4767.7	139.00

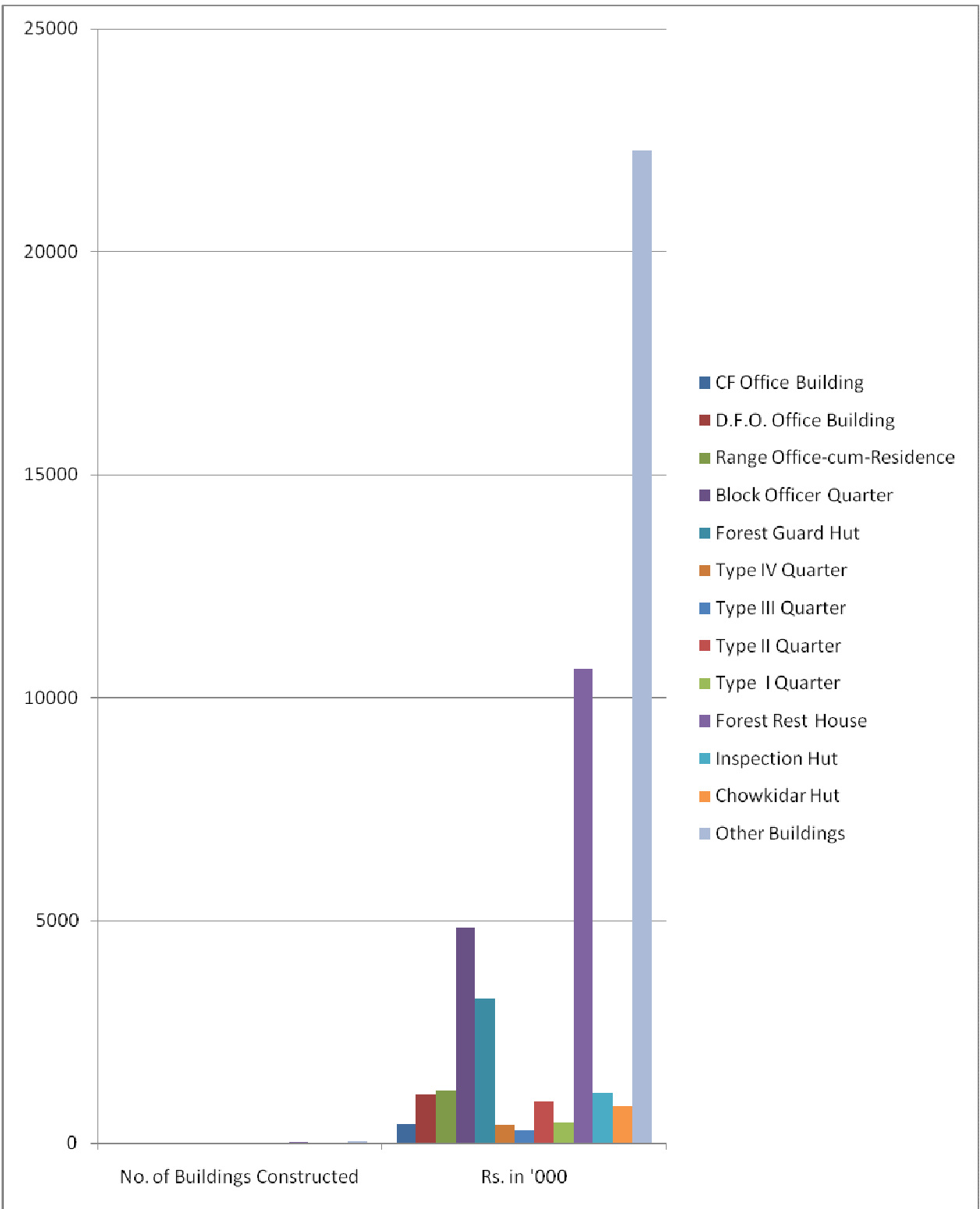


2.6 Buildings: During the year, Rs. 4,77,99,800/- was spent on the construction of various residential, office and other buildings. Besides, an amount of Rs. 4,54,66,200/- was spent on the repair and maintenance of existing buildings and rest houses. Brief abstract of new buildings constructed along with cost is given below:

TABLE: 5
New Building Constructed

(Partly Constructed/Completed)

Sr. No.	Type of Buildings	No. of Buildings Constructed	Rs. in '000
1.	CF Office Building	1	420.4
2.	D.F.O. Office Building	5	1111.5
3.	Range Office-cum-Residence	2	1190.0
4.	Block Officer Quarter	8	4847.8
5.	Forest Guard Hut	11	3246.9
6.	Type IV Quarter	1	400.0
7.	Type III Quarter	1	300.0
8.	Type II Quarter	8	950.0
9.	Type I Quarter	3	469.0
10.	Forest Rest House	27	10628.4
11.	Inspection Hut	3	1130.0
12.	Chowkidar Hut	2	841.0
13.	Other Buildings	40	22264.8
	Total	112	47799.8



2.7 Breaches Of Forest Law:

Stringent administrative measures have been taken to ensure better forest protection, so as to control illicit felling and illegal timber trade. The progress of detection of offences and their disposal is indicated below.

A. Detection

(No. of Cases)

1.	No. of Forest cases pending at the commencement of the year.	20238
2.	Cases detected during the year	14949
Total		35187

B. Disposal

1.	Compounded	10103
2.	Convicted by Court	3249
3.	Acquittals	2
4.	Filed	91
Total		13445

In 51 cases of various forest offences, the offenders could not be traced out.

2.8 Causes of Forest Fires: 168 cases of forest fires were detected during the year, affecting an area of 1758 ha. In most of the cases the fires were reported to be ground fires. Mainly the grasses, young plantations and new regeneration were affected. The main reason of fire was attributed to the carelessness of villagers/travellers passing through the forest, and discarding cigarette butts.

2.9 Grazing in the State Forests: 4, 21,795 animals have been reported to have grazed in the state forests, on permit at full rates. Besides, 2, 31,256 animals are estimated to be grazed in forests by right-holders free of cost or at privileged rates.

2.10 Soil Erosion: The loss of top soil during the monsoon in the Pradesh is colossal. The topography and terrain being hilly, the surface run off is high and carries heavy silt load. Measures to mitigate this type of soil erosion are being taken. Important soil conservation schemes/programmes which are being implemented to conserve valuable soil against erosion during the year are given below: -

1. Protective Afforestation, Soil Conservation and Demonstration (State Sector Scheme).
2. Macro Management of Agriculture/Supplementation/Complementation of State Efforts through Work Plans (Centrally Sponsored Scheme).

In addition to this, various Soil Conservation activities were also implemented under CAT Plan and NPV sectors of CAMPA. During the year 2011-12, the sectors wise detail of Physical & Financial targets achieved is given as under:-

Sr.No.	Name of Sector	Physical (No.)	Financial (in lakh)
1	CAT Plans	3769	579.73
2	Soil & water conservation Plans	121	12.48
3	NPV	-	-

Details of operation carried out under these schemes are given in Appendix-IV of this report.

CHAPTER-III

SILVICULTURE

3.1 System of Management:

Forests need to be managed properly and scientifically in order to fulfill ecological and environmental requirements and also to meet the domestic needs of people. The important systems of management and area managed under each system are tabulated below: -

TABLE: 6

	System/Working Circle	Area (Sq.km.)	% age
A.	<i>Shelterwood/Modified Shelterwood</i>		
1.	Regular Shelterwood Deo, Kail etc.	1310	5.3
2.	Fir/Spruce	1032	4.1
3.	Chil/Chil Shelter	1364	5.5
4.	Oak Shelterwood/Oak working circle	304	1.2
5.	Sal conversion	190	0.8
<i>Total</i>		<i>4200</i>	<i>16.9</i>
B	<i>Selection</i>		
1.	Selection	125	0.5
2.	Protection	9577	38.4
<i>Total</i>		<i>9702</i>	<i>38.9</i>
C	<i>Coppice</i>		
1.	Coppice	392	1.6
2.	Plantation/Afforestation	1568	6.3
3.	Bamboo	81	0.3
<i>Total</i>		<i>2041</i>	<i>8.2</i>
D	<i>Others</i>		
1.	Grazing/Pasture	7954	31.9
2.	Rehabilitation	257	1.0
3.	Other Regulated Area	755	3.1

<i>Total</i>	<i>8966</i>	<i>36.0</i>
Grand Total	24909	100.0

3.2 General Progress of Regeneration: Natural regeneration was assessed in an area of 74 ha. in the forest of Kullu, Nahan and Shimla circles. It was also supplemented artificially with sowing and planting over an area of 1383 ha.

Progress of regeneration and afforestation in various circles has been shown in Form No. 18 of the report.

The expenditure incurred for raising plantations under each scheme including soil conservation programme is given in detail in chapter VIII and Appendix-IV of the report.

3.3 Seed Collection: The quantity of seed of important species, collected from good seed stands, selected for this purpose in various Forest Circles is tabulated below.

TABLE: 7
Quantity of Seed collected (in qtls.) during the year 2011-12.

Name of circle	Deodar	Kail	Fir/Spruce	Chil	Other	Total
Bilaspur	3.00	--	--	35.50	91.15	129.65
Chamba	2.60	--	--	0.63	53.68	56.91
Dharamshala	0.11	--	--	0.03	10.59	10.73
Hamirpur	--	--	--	0.11	2.86	2.97
Kullu	2.14	0.16	0.70	0.01	55.91	58.92
Mandi	2.80	--	--	0.12	20.70	23.62
Nahan	0.49	--	--	0.50	16.18	17.17
Rampur	2.07	0.02	--	0.57	31.22	33.88
Shimla	2.82	--	--	--	10.86	13.68
W.L. Shimla	0.30	--	--	--	20.83	21.13
W.L. D/Shala	--	--	--	--	--	--
GHNP Shamshi	0.17	--	--	--	4.74	4.91
Total 2011-12	16.5	0.18	0.70	37.47	318.72	373.57
Total 2010-11	9.16	0.46	0.61	31.30	343.52	385.05

3.4 Forest Conservation and Development: The expenditure under sub-head Forest Conservation and Development amounting to Rs.77,67,380 was incurred against Rs. 33,88,000 spent last year under normal budget provision. In addition to Non-Plan budget indicated above, an amount of Rs. 3,91,55,664 was also spent for conservation and development under plan budget.

C CHAPTER-IV EXPLOITATION

MAJOR FOREST PRODUCE

4.1 Timber/Fuel wood: The State Forests are exploited through Himachal Pradesh State Forest Corporation Limited. All the forest harvesting/exploitation works including resin tapping and timber exploitation etc. are done by Himachal Pradesh State Forest Corporation Limited. During the year, 145984 m³ of timber, 10 ton of firewood, 2 ton of Charcoal and 7285 mg of khair were extracted from the State Forests through the State Forest Corporation.

Besides, 46 m³ of timber and 6 ton of fuel wood were extracted/prepared for departmental use in the Department during the year. In addition, 27 m³ of timber was marked to right- holders during the year.

MINOR FOREST PRODUCE

4.2 Resin: Exploitation of resin in the Pradesh is done by the Himachal Pradesh State Forest Corporation, Shimla. About 1576148 blazes were handed over to H.P. State Forest Corporation for tapping during the year from state forests. The quantity reported to have been extracted by the Corporation was 58251 quintals for which the total royalty payable by the H.P. State Forest Corporation amounted to Rs. 102456770. As per decision of the Pricing Committee of Government of Himachal Pradesh, a rate of Rs. 65/- per blaze was fixed for the year.

4.3 Bhabbar Grass: 524 ton of Bhabbar grass was commercially extracted from Una and Nahan divisions. The royalty for Bhabbar grass extracted during the year amounted to Rs. 331535.

4.4 Medicinal-Herbs: A nominal export and collection fee is realised from traders for exporting various medicinal herbs outside Himachal Pradesh. The right-holders collect these herbs from the forests and sell them to petty contractors/purchasers. The quantity collected and exported outside Himachal Pradesh is 6945 quintals, the estimated value of which is about Rs. 3.32 crore. The collection and export permit fee of Rs. 405604 was realized from various right-holders and contractors. No data is available with the department for quantity extracted by the right-holders/contractors through Panchayats since the Pradhans of the Gram Panchayats have been empowered to issue export permits to the right-holders/contractors after February, 2003 vide Government of Himachal Pradesh Notification No. FFE-B-G(9)-9/94-II dated 28th February, 2003.

The quantity of herbs purchased by traders and exported outside the Pradesh is indicated in the table below:-

TABLE: 8

Name of Species	Chamba	Mandi	Rampur	Total
Muskbala/Nihani	196	0	0	196
Patlain roots	160	0	0	160
Dhoop	24	0	0	24
Riyondchini	24	0	0	24
Thuth	19	0	0	19
Kaur/Karu	58	0	0	58
Guchhie	17	0	0	17
Bankakri	18	0	0	18
Kakar Singi	1	0	0	1
Bhutkesi	31	0	0	31
Pathan beg	675	0	0	675
Chukri	78	0	0	78
Talis patra	23	0	0	23
Rhododendron flower	112	0	0	112
Mithi Patish	7	0	0	7
Bach	18	0	0	18
Nagchattri	31	0	0	31
Neoza	0	0	227	227
Kuth	0	0	20	20
Berberis roots	0	5171	0	5171
Chariyata	0	26	0	26
Brahmi	0	7	0	7
Mousgrass	2	0	0	2
Total	1494	5204	247	6945

4.5 Grass Cutting & Grazing: Grass cutting and grazing was allowed in the State forests to right-holders as well as to non-right holders. A fee of Rs. 662421 and Rs. 283353 were realized on account of grazing and grass cutting from right-holders and non-right holders respectively.

4.6 Other Products: Other products include Patti, Kokath, Jhigangun, Honey and a number of other miscellaneous products. The quantity of these products which were allowed to be collected from state forest under authorized collection permits are given in Form No. 20.

The stock of produce extracted departmentally and in hand at close of the year was as under. Details are given in Form No. 21 of the report.

Kind of Produce	Stock at beginning of the year (01.04.2011)	Stock at close of the year (31.03.2012)
Timber (m ³)	972	725
Firewood (qtls.)	2811	5040
Charcoal (qtls.)	8	0

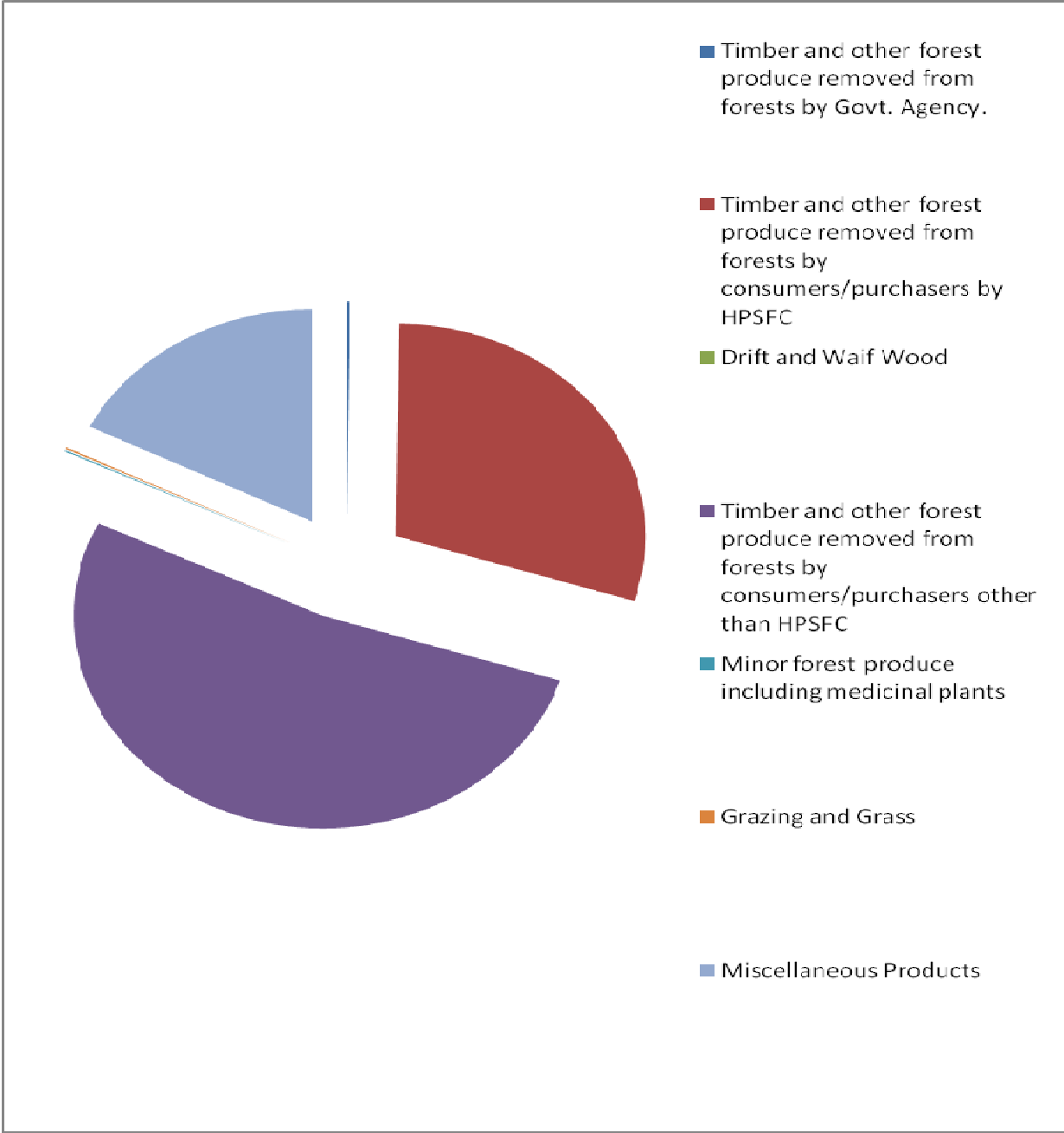
CHAPTER-V

FINANCIAL RESULTS

5.1 The net revenue realized by the H.P. Forest Department, from different sources, during the financial year 2011-12, amounts to Rs. 10654.48 lac against Rs. 6544.03 lac during the year 2010-11.

The break up of revenue from different sources is indicated below:-

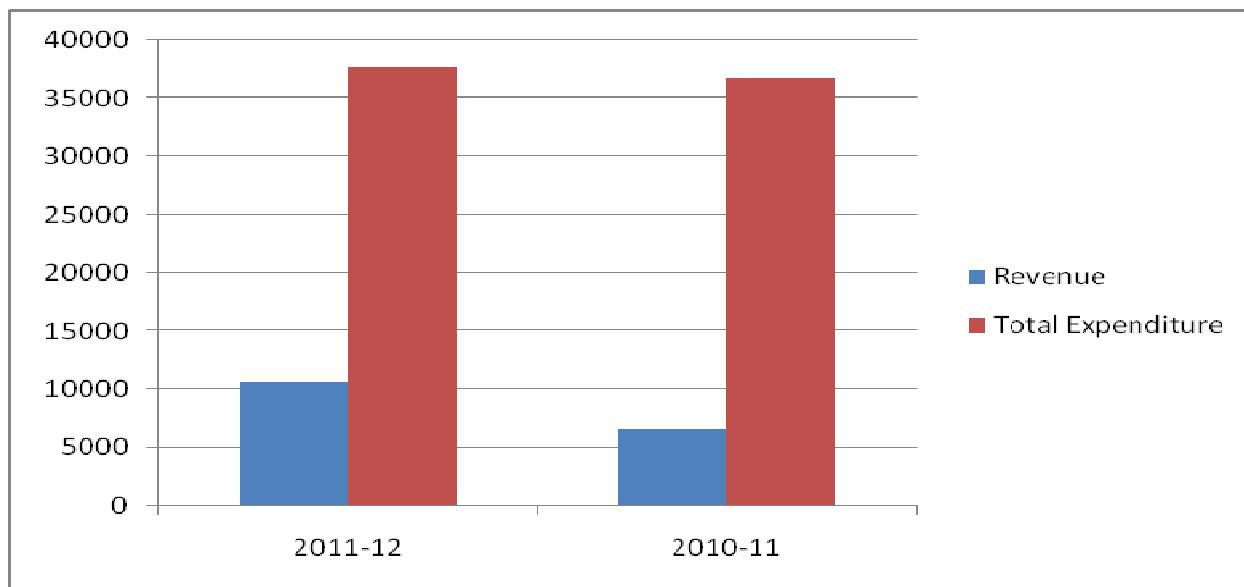
Source of revenue		Revenue (Rs. in lac)	% of total revenue
01	Timber and other forest produce removed from forests by Govt. Agency.	22.18	0.21
02	Timber and other forest produce removed from forests by consumers/purchasers by HPSFC	3166.91	29.72
03	Drift and Waif Wood	0	0
05	Timber and other forest produce removed from forests by consumers/purchasers other than HPSFC	5565.38	52.24
06	Minor forest produce including medicinal plants	11.18	0.10
07	Grazing and Grass	12.66	0.12
	Miscellaneous Products	1876.17	17.61
	Total	10654.48	100.00



5.2 The comparative position of revenue and expenditure for the year 2011-12 compared to 2010-11 is given below:-

Revenue & Expenditure (Rs. In lac)

Year	Revenue	Expenditure				
		Non-Plan	Plan	Capital Outlay	Total Expenditure	Surplus revenue over Non-Plan expenditure
2011-12	10654.48	23834.97	13350.25	522.47	37707.69	(-) 13180.49
2010-11	6544.03	22911.25	13059.82	771.17	36742.24	(-) 16367.22



5.3 The expenditure incurred during the year under Forest Conservancy and Works, Establishment and Capital Outlay is as under (as compared to last year).

I – Non-Plan Expenditure (Rs. in lac)

Year	Conservancy and works	Grant-in-Aid	Subsidy to HPSFC	Estt.	Total	Capital Outlay	Grand Total
2011-12	1406.99	-	2544.35	19883.63	23834.97	-	23834.97
2010-11	1377.19	-	2069.69	19464.37	22911.25	-	22911.25

II – Plan Expenditure (Rs. in lac)

Year	Conservancy and works	Grant-in-Aid	Subsidy to HPSFC	Estt.	Total	Capital Outlay	Grand Total
2011-12	11210.08	168.50	-	1971.67	13350.25	522.47	13872.72
2010-11	10906.35	277.97	-	1875.50	13059.82	771.17	13830.99

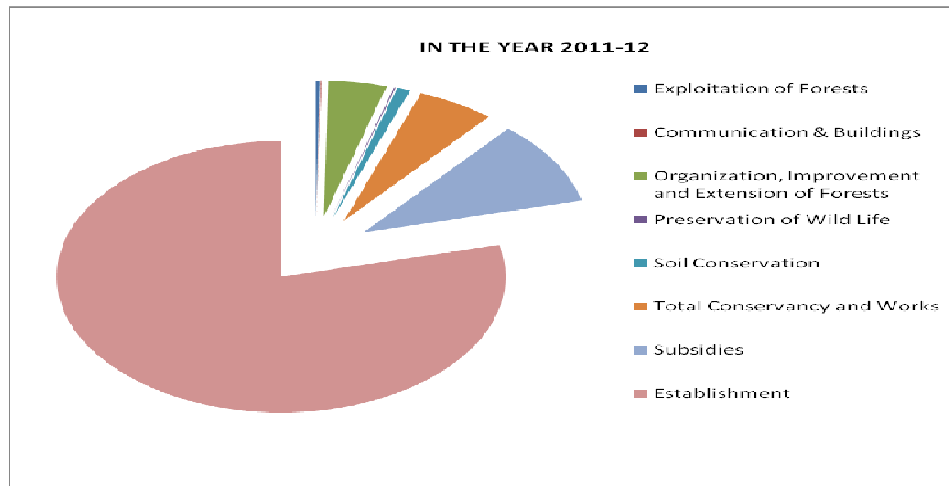
The analysis of expenditure reveals that during the year, establishment accounted for 83.42% of Non Plan expenditure and 14.21% of Plan expenditure. Complete detail is given in Form No. 24 and Appendix – IV of the report. However, a brief summary in tabular form is given below for broad heads of works and establishment, for the year 2011-12 and 2010-11, for comparison:-

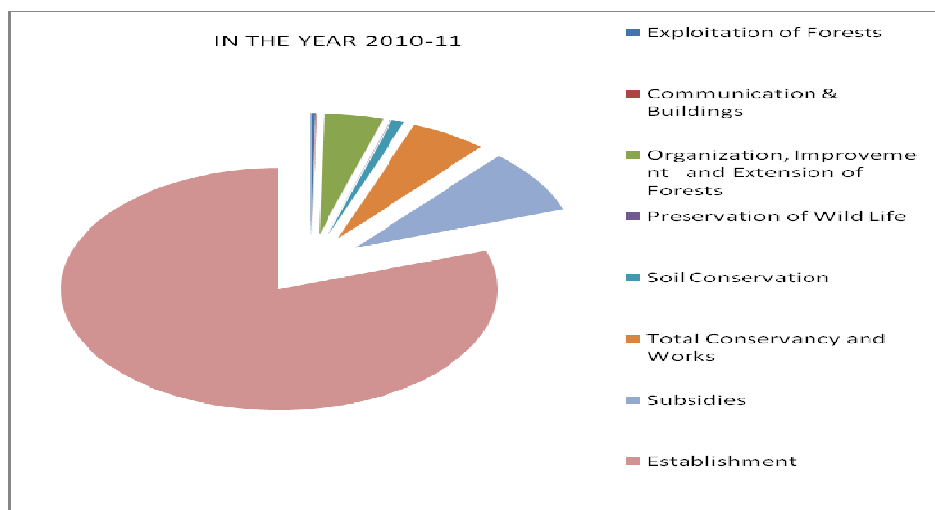
I – Non Plan Expenditure

Item of Expenditure		Amount (Rs. in lac)		Percentage	
		2011-12	2010-11	2011-12	2010-11
a.	Exploitation of Forests	67.65	74.69	0.28	0.32
b.	Communication & Buildings	12.00	11.00	0.05	0.05
c.	Organization, Improvement and Extension of Forests	1061.15	1060.84	4.45	4.63
d.	Other Items				
	1. Preservation of Wild Life	24.30	8.66	0.10	0.04
	2. Soil Conservation	241.89	222.00	1.02	0.97
	Total Conservancy and Works	1406.99	1377.19	5.90	6.01
	Grant – in – Aid	-	-	-	-
	Subsidies	2544.35	2069.69	10.68	9.03
	Establishment	19883.63	19464.37	83.42	84.96
	Grand Total Non-Plan Expenditure	23834.97	22911.25	100.00	100.00

II – Plan Expenditure

Item of Expenditure		Amount (Rs. in lac)		Percentage	
		2011-12	2010-11	2011-12	2010-11
i.	Conservancy and Works	11210.08	10906.35	80.81	78.85
ii.	Grant- in- Aid	168.50	277.97	1.21	2.01
iii.	Establishment	1971.67	1875.50	14.21	13.56
iv.	Capital Outlay	522.47	771.17	3.77	5.58
	Total Plan Expenditure	13872.72	13830.99	100.00	100.00





5.4 The outstanding on account of revenue at the close of the year 2011-12 (31.3.2012) amounted to Rs. 45,28,32,883. The breakup of the amount is given below:-

	<u>(Amount in Rs.)</u>
1. Contractor Agency	3,70,72,388
2. Other Govt. Department.	14,62,699
3. H.P.S.F.D.C.L.	<u>41,42,97,796</u>
Total	<u>45,28,32,883</u>

The breakup of the amount under various type of recovery from contractor and purchasers is as under:-

	<u>(Amount in Rs.)</u>
1. Amount under litigation/arbitration	23,32,767
2. Amount under A.L.R.	2,88,30,100
3. Amount under writing off cases	46,25,612
4. Amount recoverable at CFs/DFOs level	12,83,909
Total	<u>3,70,72,388</u>

Outstanding against Govt. Departments are due to non-acceptance of bills by some departments.

5.5 Outstanding and Liabilities on Account of Contractors and Disbursers:

The position of outstanding and liabilities on account of contractors and disbursers have been indicated in Form No. 27 of the report.

C CHAPTER-VI RESEARCH & EXPERIMENT

6.1 In Himachal Pradesh mandate for undertaking basic forestry research lies with the Dr. Y.S. Parmar University of Horticulture & Forestry (UHF), Nauni (Solan, H.P). The Himalayan Forest Research Institute (HFRI), the Institute of Himalayan Bio- resource Technology (IHBT) and the regional centre of GB Pant Institute of Himalayan Ecology and Development (GBHED), Mohal, Kullu were also involved in forestry research activities. In order to tackle forestry research issues of contemporary relevance in a focused way and to establish active liaison with the various research institutes the Forest Department continued with its efforts to strengthen its Research Wing, established during 2009-10.

The Research Wing undertook literature review and initiated work on the following broad subject areas:

6.2 Nursery Techniques:

With the shift in the major role of forests in the State from producer of commercial timber to that of bio-diversity conservation, maintenance of ecology, conservation of soil and moisture regime and provider of services, a need has been felt to develop nursery techniques for native plant species having good potential to meet the needs of changed role of forests. It was in this regard that nursery trials in respect of the following species were initiated:

6.2.1 Seengar (*Boehmeria rugulosa*) :

It is a small to medium size tree generally found in the rocky and refractory slopes up to 1300 meter in the western Himalayas. The species forms a good source of leaf fodder, especially during winter months. Its bark is a source of strong cordage fiber, and its stems have been traditionally used for carving out vessels. The species has great potential in agro-forestry as well as under bio-engineering measures for soil and moisture conservation. Even as nursery techniques of this species have been worked out and well understood, these have largely remained at basic research level and never taken out for field-scale application. Keeping in view its current and potential use, preliminary propagation trials on field-scale multiplication of this species, by seeds and through vegetative means, were taken up at Forest Research Nursery, Karnody.

By Seed: Seeds were collected during January-February, cleaned and sown without any pre-treatment during February-March in germination beds in a poly-house. Germination started in mid-April and continued for about 20 days. Seedlings were transferred to polythene bags at the two-leaf stage. The germination percentage of seed was found to be very good and profuse. The seeds being very light, these tend to get washed away towards bed edge during watering, resulting in germination in dense patches. Transfer of seedlings coming to 2- leaf stage in poly bags creates space for remaining dense germination to grow. Seedling transplanted into poly bags gained an average height of 45 cms by December.

Through Cuttings: Soft wood cuttings, without any hormonal treatment, were planted in sand beds during February-March. Primordial root formation was observed in the soft wood cuttings by mid-April. Rooted cuttings, were transferred to polythene bags during the month of May.

The poly bag plants were subjected to repeated cutting and thrashing from August onwards to assess their field survival under high biotic pressure conditions. It was observed that the species has good capacity to withstand such pressures.

These preliminary trials would need to be replicated over the next two years to conclude and finalize the nursery technology of this species.

6.2.2 Siaru (Debregeasia salicifolia) : It is an evergreen large shrub that usually occupies moist niches from 1500-2400 meter in the western Himalayas. It prefers light loamy to heavy clayey moist soil. Even as the species is frost tender, its leaves form good source of fodder, the bats fiber is used for the making twine and ropes, and the fruits form excellent source of food to birds and animals. The wood is soft and light and is mainly used as a fuel. The plant is known to be very sturdy and can withstand even heavy biotic pressure and has, therefore, good potential from the bio-engineering point of view.

Through Cuttings: Soft wood cuttings without any hormonal treatment were planted in sand beds as well as in poly bags during February- March. Root formation was observed in more than 90% of the cuttings. Rooted cuttings raised in sand beds were transferred to polythene bags during the month of May. Further, trials will continue in the next years to finalize its nursery technology.

6.3 Demonstration Trials on Miscellaneous Species: Demonstration trials in respect of the following miscellaneous species were also laid, mainly for educational purposes:

6.3.1 Paja (Prunus cerasoides): Demonstration nursery to observe growth in different size of poly bags and to raise plants from root-shoot cuttings of 1- year old plants.

6.3.2 Kashmal (Berberis aristata): Identification of various species of Berberis remains an issue as all the species are locally referred to as Kashmal. Seed collected from critically identified Berberis aristata plants was used in nursery trial on the species so that various growth stages of the species could be closely monitored to facilitate identification in the field.

6.3.3 Basuti (Adhatoda Vasica) & Bana (Vitex negundo): Demonstration nursery for bio-engineering purposes.

6.3.4 Lathi Bans (*Dendrocalamus strictus*): Techniques of segregation of seedlings into 2-5 plantlets in the nursery was demonstrated to the front line forest staff on site and in workshops on bio-engineering.

6.4 Studies on the Effects of Global Warming: A departmental project to study the impact of global warming through study of vegetation in the high altitude transition zones in the State was taken up during the year. The project envisages setting up of 5 permanent study plots, 3 in the Sutlej Catchment in Kinnaur district and one each in Beas catchment in Kullu district and Ravi catchment in Chamba district. During the year, various high altitude transition zones in Kinnaur district and Kullu district were surveyed and sites for 3 plots (two in Kinnaur and one in Kullu) were finalized.

6.5 NTFP Interpretation Centre, Herbarium & Raw Drug Repository:

Non Timber Forest Products (NTFPs) form an important resource in the day-to-day lives of the people of the State. With a view to demonstrate the diversity of uses the NTFP resources in the State are put to and to gather at one place the diverse NTFPs and the samples of plants yielding NTFPs that a NTFP Interpretation Centre, Herbarium and Raw Drug Repository is being developed at the Forest Research Complex, Karnody, Sundernagar. Sample of various NTFPs, including raw drugs, are being collected by the research team from critically identified plant sources in the field, dried and placed in reference section of this Centre. Similarly, herbarium specimens of the various plant species in the State are being prepared following the standard techniques. This Centre will act as educational centre for creating awareness about the NTFPs in the State and for reference purposes.

6.6 Seed Stands & Seed Production Areas:

The State Forest Department had set up **Seed Stands** for various species. Circle-wise detail of these Seed Stands is as under:

Circle	Division	Species				
		Deodar	Chil	Kail	Fir/Spruce	Ban Oak
Rampur	Kinnaur	3			2+1	
	Spiti					
	Rampur			1		
	Kotgarh		2	1	2	
	Ani		2+2			

Shimla	Shimla	1	3			
	Chopal	3	2		1	
	Theog	3		2	1	
	Rohru			1		
Nahan	Solan	2	4			
	Ragarh	1	1			
	Renuka					
	Paonta Sahib					
	Nahan		2			
Bilaspur	Bilaspur		1			
	Hamirpur		7			
	Nalagarh					
	Kunihar		4			
Mandi	Suket	1	1		1	
	Nachan	1	3	3	2+2	2
	Mandi		2	1	2	
	Jogindernagar		2			
	Karsog					
Kullu	Kullu	3		3	2	
	Parvati		1	2	2	
	Sera/Banjar		1	2	2	
	Lahaul					
Dharamshala	Dharamshala		3			
	Palampur					
	Nurpur		4			
	Una					
	Dehra					
Chamba	Chamba	22		6	3	
	Dalhousie	4	13		3	3
	Bharmour	1		3		

	Churah	1				
	Pangi					
Total		46	60	25	26	5

In addition, the following three **Seeds Production Areas** of Chir Pine (*Pinus roxburghii*) were developed by the Himalayan Forest Research Institute and transferred to the Forest Department in 2002-03:

1.	Kopra DPF	10.52 ha.	Nurpur Forest Division
2.	Dibkan DPF	18.44 ha.	Jogindernagar Forest Division
3.	Bairkot DPF	22.00 ha.	Suket Forest Division.

The Research Wing has initiated a program to physically verify the seed Stands and Seed Production Areas to assess status of their management, protection and collection of seeds. Need to set up Seed Stands for other species is also being assessed. The task is in progress and will be completed over the next years.

C HAPTER-VII

ADMINISTRATION

7.1 Administrative Charges: Shri Vinay Tandon, IFS continued to function as Principal CCF (HOFF), H.P up to 03.08.2011 thereafter Sh. R.K.Gupta, IFS took over the charge and remained as such till 31.03.2012.

Shri A.K.Gulati, IFS continued to function as Principal CCF (Wild Life), H.P up to 31.12.2011 thereafter Sh. R.K.Sood, IFS, headed the Wild Life Wing as such up to 31.03.2012.

Shri S.B.Islam, IFS remained as Additional Principal CCF (Finance & Planning) O/o Principal CCF, H.P through out the year.

Shri S.C. Srivastava, IFS continued to function as APCCF (Management) O/o Principal CCF, H.P up to 31.03.2012.

Shri J.S.Walia, IFS remained as APCCF (CAT PLANS) O/o Principal CCF, H.P. through out the year.

Shri Parveen Thaplyal , IFS remained as APCCF (ADMINISTRATION & HRD) O/o Principal CCF, H.P till end of the year.

Shri D.P.Sinha, IFS continued to function as CCF (FCA & PROJECTS) O/o Principal CCF, H.P up to 31.03.2012.

Shri P.K. Sinha, IFS continued to function as CCF (PFM) O/o Principal CCF, H.P up to 31.03.2012.

Shri S.P.Vasudeva, IFS hold the Charge of CCF(Sale & Audit) O/o Principal CCF, H.P through out the year.

Shri Sanjeeva Pande, IFS continued to function as CCF(FD & PAN) O/o Principal CCF, H.P through out the year.

Shri U.K. Banerjee, IFS remained as CCF(M&E) O/o Principal CCF, H.P till end of the year.

Shri Avtar Singh, IFS continued to function as CCF(FP & FC) through out the year.

Shri G.S.Goraya, IFS remained as CCF(FD, NTFP & RM) through out the year.

The administrative charges of the conservator of Forests of various circles and its equivalents posts in the department were held by the officers mentioned against respective Circles:

Sl. No.	Name of Circle	Name of Officer S/Shri/Smt.	Period	
			From	To
1.	Bilaspur	Rajiv Kumar, IFS	01.04.2011	20.07.2011
		Anil Thakur, IFS	21.07.2011	31.03.2012
2.	Chamba	Dr. Suresh Kumar, IFS	01.04.2011	31.03.2012
3.	Dharamshala	ARM Reddy, IFS	01.04.2011	31.03.2012
4.	Kullu	Dr. Pavnesh Kumar, IFS	01.04.2011	31.03.2012
5.	Hamirpur	Sanjay Sood, IFS	01.04.2011	28.09.2011
		Sameer Rastogi, IFS	29.09.2011	31.03.2012
6.	Mandi	C.B Pandey, IFS	01.04.2011	31.03.2012
7.	Nahan	R.K Gupta, IFS	01.04.2011	31.03.2012
8.	Rampur	Rajesh. J. Ekka, IFS	01.04.2011	09.02.2012
		Amitabh Gautam, IFS	09.02.2012	31.03.2012
9.	Shimla	S.K Sharma, IFS	01.04.2011	31.03.2012
10.	GHNP Shamshi	Ajay Srivastava, IFS	01.04.2011	31.03.2012
11.	W.L Dharamshala	Sameer Rastogi, IFS	01.04.2011	31.03.2012
12.	WL Shimla	Rakesh Sood ,IFS	01.04.2011	31.03.2012
13.	MIS	C.S Singh, IFS	01.04.2011	31.03.2012

7.2 Strength of Officers/Staff : The sanctioned and in position strength of officers including IFS, HPFS and other technical officers in the department during the year is given below:-

S.No.	Name of Post	Sanctioned Strength	In-position
1.	Pr. Chief Conservator of Forests	01	01
2.	Pr. Chief Conservator of Forests (WL)	01	01
3.	Addl. Pr. Chief Conservator of Forest	04	04
4.	Chief Conservator of Forests	11	11
5.	Conservator of Forests	17	17
6.	Deputy Conservator of Forests/DFO	31	28

7.	Other IFS Officers (CDR/SDR & Trg, Etc.)	41	41
8.	HPFS Officers	160	152
9.	Forest Statistician	1	0
10.	Forest Map Officer	1	1
11.	Executive Engineer	2	2
12.	Assistant Engineer	5	4
13.	Registrar	3	3
14.	Superintendent. G-1	23	23
15.	Private Secretary	1	1
16.	Tehsildar	3	1
17.	Deputy Controller (F&A)	1	1
18.	Section Officer (F&A)	2	2
19.	Collector Forests	3	3
20.	Veterinary Officer	1	0
21.	Veterinary Doctor	4	4
22.	District Attorney	1	1
	<u>Total</u>	<u>317</u>	<u>301</u>

The position of other executive and technical staff is given here under:-

<u>S.No.</u>	<u>Name of Post</u>	<u>Sanctioned Strength</u>	<u>In-position</u>
1.	Forest Rangers	296	225
2.	Deputy Ranger	801	774
3.	Forest Guard	2583	2351
4.	Boatman	7	7
5.	Carpenter	6	6
6.	Cinema Operator	1	1
7.	Compositor	3	2
8.	Computer	4	0
9.	Conductor	3	2
10.	Dandidar	2	2
11.	Demarcation Daroga	1	0
12.	Depot Watcher	4	3
13.	Draftsman	9	2
14.	Driver/Bus/Van	83	76
15.	Electric Mechanic	1	1
16.	Electrician	4	4
17.	Head Draftsman	13	13
18.	Inker	2	0
19.	Junior Draftsman	11	11
20.	Junior Engineer	7	7
21.	Kanungo	30	25
22.	Machine man	1	0
23.	Naib Tehsildar	8	7
24.	Operator Mechanic	1	1
25.	P.T.I	1	0

26.	Packer	1	1
27.	Patwari	31	16
28.	Photographer Cum Artist	1	0
29.	Plumber	8	8
30.	Proof Reader	1	1
31.	Senior Lab.Technician	1	0
32.	Sr.Photographer	1	1
33.	Statistical Assistant	3	2
34.	Surveyor	5	2
35.	Taroos	2	2
36.	Technical Assistant	1	1
37.	Timber Watcher	6	3
38.	Truck Cleaner	4	4
39.	Veterinary Pharmacist	3	3
40.	Workshop Mechanic	1	1
41.	Distributor	1	0
42.	Senior Auditor	2	1
43.	Book binder	2	2
44.	Restorer	1	1
45.	Camel Cart Driver	1	1
46.	Masson	1	1
Total		3959	3571

The strength of ministerial and other staff is indicated below:-

<u>S.No.</u>	<u>Name of Post</u>	<u>Sanctioned Strength</u>	<u>In-position</u>
1.	Superintendent Gr.11	122	119
2.	Senior Assistants	224	211
3.	Personal Assistants	6	6
4.	Sr. Scale Stenographer	23	11
5.	Steno Typist	13	1
6.	Jr. Assistant/Clerk	445	200
7.	Junior Translator	1	0
8.	Gestenor Operator	1	1
9.	Jamadar	30	30
10.	Daftri	10	10
11.	Peon	565	565
12.	Chowkidar	465	465
13.	Dak Runner	21	20
14.	Mali	280	280
15.	Sweeper	58	54
16.	Sweeper/Chowkidar	1	1
17.	Muleman/Syce	19	19
18.	Khalasi	2	2
19.	Beldar	6	6
20.	Animal Attendant	26	26

21.	Enclosure cleaner	1	0
22.	Park Cleaner	1	1
23.	Gate keeper	4	4
24.	Forest Worker	2684	2393
	Total	5008	4425

7.3 Deputation: The following officers proceeded/ remained on deputation with different departments/ organizations of the State and Govt. of India vis-à-vis other organizations:-

S.No.	Name	Organization	Period
1.	S/Sh./Smt. T.S. Thakur, APCCF	APCCF (Lokayukta), Shimla	From June, 2010 to 31.03.2012
2.	A.C. Sharma, APCCF	ED, HPFDC, Shimla	05.03.2010 to 31.03.2012
3.	B.D. Suyal, CCF	Spl. Secretary, MPP&P, Shimla	September, 2010 to 31.03.2012
4.	T.D. Sharma, APCCF	Project Director, Swan Project Una	20.08.2011 to 31.03.2012
5.	Archana Sharma, CF	Spl. Secy.(Ind.) H.P. Govt.	27.06.2011 to 31.03.2012
6.	H.S. Dogra, CCF	Dir.(N), HPSFDC, Dharamshala	20.08.2011 to 31.03.2012
7.	Sanjay Sood, CF	Member Secy., HPSPCB, Shimla	September, 2011 to 31.03.2012

On Central Govt. Deputation

S.No.	Name of officer	Name of Offices	Since	Till
1.	H.S. Kingra	Special Officer CWG/Chairman & MD National Scheduled Castes Finance and Development Corp. , Delhi	7/2011	Up to 31.03.2012
2.	S.P. Vasudeva	Proj. Dir.(Proj)	2/2012	-do-

		Mgt.Unit, MoHA New Delhi		
3.	Ajay Kumar	Director, Forestry Education, MoEF	12/2006	Dec., 2011
4.	Savita	Principal, CASFOS, Dehradun	12/2006	-do-
5.	Ajay Kumar Lal	Director, MoEF, New Delhi	02/2008	Up to 31.03.2012
6.	Rakesh Kumar	Registrar, IIT Delhi	8/2010	Up to 31.03.2012
7.	V.R.R.Singh	Director, HFRI, Shimla	2/2012	Up to 31.03.2012
8.	V.K.Singh	Dir.MOL & Emp., New Delhi	10/2008	Up to 31.03.2012
9.	S.D.Sharma	ADG(M&E), ICFRE, Dehradun	06/2009	Up to 31.03.2012
10.	Manoj Bhaik	CF, HFRI, Shimla	10/2007	Up to 31.03.2012
11.	Sushil Kumar	Dir.M/O Agr.& Coop., New Delhi	1/2012	Up to 31.03.2012
12.	Anu Sharma	Asstt. Prof.IGNFA Dehradun	4/2007	Up to 31.03.2012
13.	Alok Prem Nagar	Asstt. Prof.IGNFA , Dehradun	4/2007	Up to 31.03.2012
14.	Kunal Satyarthi	Lect.SFS College, Dehradun	9/2009	Up to 31.03.2012
15.	S.S.Kataik	HFRI, Shimla	9/2010	Up to 31.03.2012
16.	Rajesh Sharma	AIGF, MOEF, New Delhi/Passport officer, Shimla	7/2010	Up to 31.03.2012
17.	K.Thirumal	Dy.Dir.Regional office UIDAI, Bangalore	3/2012	Up to 31.03.2012

The following HPFS Officers proceeded on deputation to other Departments / organizations mentioned against their name w.e.f. 1.4.2011 to 31.03.2012.

S.No.	Name of Officer	Deptt./ Organization	Date of deputation	
			4.	5
	2.	3.	4.	5
1.	S/Sh M.C. Thakur	D.M. HPSFC Kullu.	01.04.2011	30.04.2011
2.	J.C. Mandla	D.M. HPSFC Chamba	01.05.2011	31.03.2012
3.	R.S Chauhan	D.M. HPSFC Shimla	01.04.2011	29.02.2012
4.	O.C. Kaundal	D.M. HPSFC Dir.(N) D/Shala	30.06.2011	31.03.2012
5.	S.S.Patiyal	DM, Dhanotu	1.04.2011	29.02.2012
6.	D.S.Thakur	DM, Mandi	01.04.2011	29.02.2012
7.	Amar Singh Thakur	DM, Dharashala	24.05.2011	31.03.2012

8.	D.K.Khatta	DM, Una	01.04.2011	31.03.2012
9.	Lalit Katoch	DM, Shimla	01.04.2011	31.03.2012
10.	Bansi Lal Verma	DM, Sawara	01.04.2011	31.03.2012
11.	Vinod Kumar Sharma	DM, Solan	01.04.2011	31.03.2012
12.	Jang Bhadur	DM, Fatehpur	01.04.2011	31.03.2012
13.	N.S.Thaklyal	DM, D/Shala	01.07.2011	31.03.2012
14.	Kishor Kumar	DM, Baddi	01.04.2011	31.03.2012
15.	Suresh Kumar Sen	DM, Dhanotu	01.04.2011	31.03.2012
16.	L.R.Chauhan	DM (HQ), Shimla	01.04.2011	31.03.2012
17.	Ashok Kumar	DM, Rampur	01.04.2011	31.03.2012
18.	D.D.Aggarwal	DM, Mantaruwala	01.04.2011	31.03.2012
19.	V.P.Sharma	DM, Chopal	23.11.2011	31.03.2012
20.	Vipin Chand Sharma	DM, Mandi	17.03.2012	31.03.2012
21.	Rajeev Kumar	SDM, Kullu	09.05.2011	31.03.2012
22.	Inder Kumar	SDM, Solan	02.01.2012	31.03.2012
23.	Suman Ohri	SDM, Bhadryoa	01.04.2011	31.03.2012
24.	Birbal	SDM, Hamirpur	25.11.2011	31.03.2012
25.	S.S.Kashyap	SDM, Mandi	01.04.2011	31.03.2012
26.	H.S.Mankotia	SDM, Baddi	20.02.2012	31.03.2012
27.	Dinesh Sharma	SDM,Chamba	21.10.2011	31.03.2012
28.	Anish Sharma	DFO, Municipal Corporation	13.08.2011	31.03.2012
29.	Gopal Singh Thakur	HFRI, Shimla	01.03.2012	31.03.2012
30.	Pradeep Bhardwaj	HFRI, Shimla	05.03.2012	31.03.2012
31.	N.P.Bharot	Director, S&T, Shimla	13.01.2012	31.03.2012
32.	R.K.Acharya	Dehradun	01.10.2011	31.03.2012

7.4 Training: The following officers of the department have undergone training abroad/at home as mentioned against their names during the year.

One week Compulsory Training for IFS Officers

S.No.	Name of Officer S/Sh./Smt.	Topic/Subject	Period	Institution
1.	Upasana Patial, IFS DM, HPSFDC Una	Joint Forest Management: Challenges and Opportunities	August 01-05, 2011	Uttarakhand Academy of Administration Nainital
2.	H.S.Kingra, IFS Special Officer CWG Sports Authority of India	Application of Remote Sensing & Geographical Information System in Forestry	August 8-12, 2011	IIRS, Dehradun
3.	Sameer Rastogi, IFS	--do--	--do--	--do--

	CF WL Dharamshala			
4.	K.S.Thakur, IFS	--do--	--do--	--do--
5.	Vineet Kumar, IFS MD, HPTDC Shimla	Development of Clean Development Mechanism Projects under Land Use, Land Use and Forestry: Theory and Practice and their Relevance to Forestry Sector	September 05-09, 2011	Amity School of Natural Resources & sustainable Development , Noida
6.	E.Vikram , IFS Chief Scientific Officer O/o Department of Environment Science	--do--	--do--	--do--
7.	Dev Raj, IFS DFO Bilaspur	Application of Remote Sensing , GIS in Effective Forest Planning and Management	September 05-09, 2011	Forest Survey of India, Dehradun
8.	Amitabh Gautam, IFS DFO Renukaji	--do--	--do--	--do--
9.	B.D.Suyal, IFS, Special Secretary (MPP & Power)	Forest Genetic Recourse Management	September 19-23, 2011	Institute of Forest Genetic & Tree Breeding , Coimbatore
10.	R.S.Patial, IFS DFO Una	--do--	--do--	--do--
11.	Pavnesh Kumar, IFS CF, Kullu	New Tool and Techniques for Preparation of Working Plan for Integrated Forest & Biodiversity Management	September 26-30, 2011	Centre for Oceans, rivers Atmosphere and land Science.
12.	Anil Joshi,	--do--	--do--	--do--

	DFO Mandi			
13.	Rajesh Sharma, IFS Passport Officer	--do--	--do--	--do--
14.	H.S.Dogra, IFS PD, Swan Project, Una	Development of clean Development Mechanism projects under Land use and Forestry : Theory and Practice and the Relevance to Forestry Sector	September 05-09, 2011	Amity School of Natural Resources & Sustainable Development , Noida
15.	Rajiv Kumar, IFS CF (CAT Plan)	Development of Clean Development Mechanism Project under land use, Land Use and Forestry : Theory and Practice and their Relevance to Forestry Sector	September 05-09, 2011	Noida
16.	Avtar Singh , IFS CCF (FP&FC), Bilaspur	Collection, Compilation, Validation and Dissemination of Forestry Statistics	October 17-21, 2011	Kerala Forest Research Institute, Peechi
17.	M.Narayanappa, IFS RPD, MHWDP, Bilaspur	--do--	--do--	--do--
18.	A.R.M.Reddy, IFS CF, Dharamshala	--do--	--do--	--do--
19.	R.K.Kapoor, IFS CPD, MHWDP, Solan	Forest and Climate Change: Opportunities and Challenges of Adaptation and Mitigation	October, 17-21, 2011	ICFRE, Dehradun
20.	C.S.Singh, IFS CF (MIS) ,O/o Pr. CCF, HP	--do--	--do--	--do--
21.	R.S.Patial, IFS	--do--	--do--	--do--

	DFO Una			
22.	S.P.Vasudeva, IFS CCF (S&A), O/o Pr. CCF, HP	Financial Management and Audit Sensitization	November 14-18, 2011	ICISA, Noida
23.	Sh. Harsh Mittar, IFS CCF-cum-CEO Him Urja	Increasing Productivity of wood and Timber Forest Produce using Modern Technical Inputs	Nov. 14-18, 2011	Minor Forest Produce and Research centre , Bhopal
24.	Ramesh Chand, IFS RPD, MHWDP, Dharamshala	-do-	-do-	-do-
25.	Harsh Vardhan, IFS DFO, Nahan	-do-	-do-	-do-
26.	Sh. S.S.Kataik, IFS DCF, HFRI	-do-	-do-	-do-
27.	Sh. S. K. Musafir, IFS DFO, Dehra	Ecotourism: Assessment and Development	Nov.14-18, 2011	Jungle Lodge and Resort Ltd. Banglore
28.	Dr. Chandresh Sharma, IFS CCF (Eco-tourism)	Natural Resources Management and Conflict	Nov.28- Dec.02, 2011	Administrati ve Staff College of India, Hyderabad
29.	S.D.Sharma, IFS DCF, MHWDP, Solan	-do-	-do-	-do-
30.	Dr. Suresh Kumar, IFS CF, Chamba	Forest Tribal Interface	Nov.28- Dec.02, 2011	Tripura Forest Dev. and Plantation
31.	B.S.Rana, IFS DFO(WL) ,Kullu	-do-	-do-	-do-
32.	S.B.Islam, IFS, MD	Forest Certification A marketing tool for	Dec.12-16, 2011	Indian Institute of

	HPSFDC, Shimla	sustainable Forest Management		Forest Management
33.	Sh. Ajay Srivastava, IFS CF, GHNP, Shamshi	-do-	-do-	-do-
34.	V.R.R. Singh	Bamboo Resource Dev. For addressing Livelihood Concerns of Communities	Dec.19-23, 2011	IPIRT, Bangalore
35.	T.S.Thakur, IFS CCF, Lokayukta, Shimla	Integrated Approach for Sustainable Dev. Of Fragile Desert Eco-system	Dec.19-23, 2011	AFRI, Jodhpur
36.	Tejinder Singh , IFS	Integrated Approach for Sustainable Development of Fragile Desert Eco-system	December 27-31, 2011	AFRI Jodhpur
37.	Praveen Thaplayal, IFS APCCF (Admn.)	Holistic Approach for Participatory Monitoring	Jan 9-13, 2012	IBRD, Kolkata
38.	Sh. Rakesh Sood , IFS CF (WL) Shimla	Impact of Various Treaties conventions and Institutions on conservation and Management of Forests	Jan 9-13, 2012	Amity School of Natural Resource and Sustainable Dev., Noida
39.	D.P.Sinha, IFS CCF (FCA&P)	WL Offences: Role of Intelligence Gathering & WL Forensics	Jan 16-20, 2012	WII, Dehradun
40.	Archana Sharma, IFS Special Secretary (Industries)	Environmental Impacts Indictors and Valuation Techniques	Jan 16-20, 2012	Admn. Staff College of India, Hyderabad
41.	T.D.Sharma, IFS Project Director, SWAN, Una	Conservation & Dev. Of Medicinal Plants & Benefit sharing with Local Communities	Feb 6-10, 2012	KFRI, Peechi
42.	V.L.Tiwari, IFS	Art of interacting with print and	Feb 6-10, 2012	Xavier Institute of

	CF (Finance)	electronic media		Management Bhubaneswar
43.	V.K.Tiwari, IFS Director (Projects) HPPCL	-do-	-do-	-do-
44.	Pradeep Kumar, IFS DFO, Hamirpur	Good Governance	Feb. 13-17, 2012	Anna Institute of Management, Chennai
45.	S.K.Sharma, IFS CF, Shimla	Environment Impact Indicators and Valuation Tech.	Jan 16-20, 2012	Admn.Staff College of India, Hyderabad
46.	Nagesh Kumar, IFS	Holistic Approach for Participatory Monitoring	Jan 9-13, 2012	IBRD, Kolkata
47.	Anil Vaidya, IFS	-do-	-do-	-do-
48.	Ramesh Chand, IFS RPD, MHWDP, Dharamshala	Ecotourism vis-à-vis conservation of Forests	Feb. 13-17, 2012	Jungle Lodge and Resort Ltd. Banglore
49.	H.K.Gupta, IFS CF, Eco-tourism	Art of interacting with print and electronic media	Feb 6-10, 2012	Xavier Institute of Management Bhubaneswar

Foreign Training Programme & Mid Career Training Programme

S.No.	Name & Designation	Topic/Subject	Period	Country
1.	K. Thirumal, IFS DFO, Paonta	Mid Career Training programme	31.01-2011 to 04.06.2011	USA
2.	Ajit Thakur, IFS DFO, Hamirpur	Mid Career Training programme	--do--	Sweden
3.	Anil Sharma, IFS DFO Kullu	--do--	--do--	Sweden
4.	U.K.Banerjee, IFS CCF (M&E)	--do--	28.03.2011 to 23.04.2011	USA

5.	Dr. Lalit Mohan, IFS MD, HP State Handicraft and Handlooms	--do--	--do--	Canada
6.	S.S.Negi, IFS CCF (T&E)	--do--	--do--	USA/Syracuse
7.	Arvind Kumar, IFS CCF O/o Mid Himalayn, Solan	Mid Career Training programme	23.5.2011 to 17.6.2011	USA/ British Colombia
8.	Rakesh Kumar, IFS, Dy. Director, New Delhi	--do--	--do--	--do--
9.	O.P.Solanki, IFS	MCT Programme being organized by University of Eastern Finland on 16.05.2011 at New Delhi(Foreign Module)	16.5.2011	
10.	Nagesh Kumar, IFS, DFO, Shimla		--do--	
11.	Tejinder Singh, IFS CCF (WP), Mandi	Mid Career Training programme	11.07.2011 to 05.08.2011	USA & Canada
12.	Surinder Kumar, IFS CF, Shimla	--do--	--do--	--do--
13.	A.C.Sharma, IFS ED, O/o MD HPSFC Shimla	--do--	--do--	--do--
14.	S.K.Kapta, IFS	--do--	22.08.2011 to 15.10.2011	Finland/ Russia
15.	Y.P.Gupta, IFS	--do--	--do--	--do--
16.	S.K.Gupta, IFS DFO , Sundernagar	Mid Career Training programmes	--do--	USA
17.	Anil Thakur, IFS	--do--	--do--	USA

The following Himachal Pradesh Forest Services (HPFS/RFO) officers were recommended for training programmes during the year 2011-12 at Institute of Rural Management Anand, Gujarat (India)

S. No	Name of course	Duration	Name of Officers S/Shri/Smt.
1.	Human Resource Development	September 5-8, 2011	<ul style="list-style-type: none"> i) Hitender Sharma, HPFS ACF, Kunihar ii) Naresh Pal Dhaulta, HPFS ACF (WL), Division, Shimla iii) Ram Kumar Dogra, HPFS ACF, Jogindernagar. iv) Rahul Sharma RFO, Bangana O/o DFO, Una. v) Ram Pal Singh RFO, Majra O/o DFO Paonta
	Team Building	October 10-13, 2011	<ul style="list-style-type: none"> i) Sat Pal Dhiman, HPFS TA to CCF (FD & PAN), Shimla ii) Ashwani Kumar Sharma, HPFS ACF Nachan Forest Division. iii) Sheetal Shadyal, HPFS ACF O/o DFO, Shimla. iv) Anita Bhardwaj, RFO, Chhota Shimla O/o DFO, Shimla. v) Sachin, RFO, Manali O/o DFO (WL), Kullu.
3.	Developing Leadership Skills	November 8-11, 2011	<ul style="list-style-type: none"> i) T.R.Dhiman, HPFS ACF, Sundernagar ii) Pradeep Kumar Bhandari, HPFS OSD, O/o Director (South), Shimla. iii) Chaman Lal Joshi, HPFS Dy. Director, FTI Sundernagar. iv) Baldev Raj RFO, Kunihar. v) Ram Paul RFO, Purthi

4.	Personality Development.	December 28-30, 2011	i) Rajesh Kumar Sharma SDM, HPSFDC Rampur ii) Kamal Bharti, HPFS ACF Chamba. iii) Raghu Ram, HPFS Factory Manager, R&T Factory, Bilaspur iii) Devinder Singh Dadhwal RFO , Nagrota Surian O/o DFO (WL), Hamirpur iv) Surinder Singh Kashyap RFO, Mandi Sadar O/o DFO, Mandi
5.	Everybody Wins: Negotiating Skills for Managers.	January 16-20, 2012	i) Jangvir Singh Dulta, HPFS ACF, Theog Forest Division. ii) Angel Chauhan, HPFS ACF, (WL) Division, Sarahan iii) Raj Kumar, HPFS ACF, Bharmour Forest Division. iv) Sunil Kumar Kayath RFO, Kotkhai O/o DFO, Theog v) Praveen Sharma RFO, Sarain O/o DFO, Chopal.

List of Officer who have attended the Miscellaneous Training Courses out side H.P

S. No.	Name of Officer S/ Sh./Ms/Smt.	Name of course	Duration.	Place of training
1.	S. S. Kashyap, R.O.Mandi	DGPS in Forest Surveys and demarcation	02.07.2012 to 07.07.2012	FRI, Dehradun
2.	N. K. Dutta, R.O Nurpur			
3.	Devender Kumar R.O,Murang			
4.	D.S. Dadwal, R.O, Nagrota			
5.	Kiriti Singh, R.O, Drang	Forest Inventory and TOF inventory	12.12.2011 to 17.12.2011	- do-
6.	Sanjeev Sood R.O,W/L Chail			

7.	Tilak Raj, R.O, Hamirpur	techniques		
8.	R. Lalnunsanga, IFS CF, Research, Sundernagar	National Security	09.05.2011 to 13.05.2011	National Police Academy, Hyderabad
9.	P.L. Chauhan, IFS CF. Soil Shimla			
10.	Manoj Bhaik IFS CF, HFRI Shimla	National Resource Management on Bio-diversity conservation	18.05.2011 to 21.05.2011	- do-
11.	S.K. Musafir, IFS DFO, Dehra	Drought Mitigation & management	06.06.2011 to 10.06.2011	IIPA New Delhi
12.	Anil Joshi, IFS DFO, Mandi			
13.	Upasana Patial, IFS DM, Una	Gender issues	18.07.2011 to 22.07.2011	LBSNA of (Admn.) Mussoouri
14.	Sarita, IFS DCF (HQ), Shimla			
15.	R.S. Patial, IFS DFO, Una	Ethical issues in Today's Admn.	22.08.2011 to 26.08.2011	- do-
16.	K. Thirumal, IFS DFO Paontasahib			
17.	Nagesh Kumar, IFS DFO, Shimla	Law and order	05.09.2011 to 09.09.2011	- do-
18.	Anil Vaidya, IFS DFO, Chamba			
19.	S.K. Gupta, IF DFO (HQ), NTFP S/Nagar.	Capacity Building Training in NTFP Based Sustainable live hood Generation in Rain fed Areas.	28.11.2011 to 30.11.2011	AMITY NOIDA
20.	Suveena Thakur, HPFS ACF, W/L Kullu			
21.	Sandeep Sharma, HPFS ACF, GHNP Shamshi			
22.	Sarita, IFS, Director, FTI Chail	Economic Valuation and Accounting	23.01.2012 to 25.01.2012	IIFM, Bhopal
23.	Abhilas Damodran. IFS DFO, Renukaji			

7.5 Retirement: The following IFS & HPFS Officers retired during the year, from the dates mentioned against their names:-

IFS

1.	Mohinder Pal	CCF, O/o PCCF, H.P, Shimla	31.01.2012
2.	M.Narayanappa	CCF, RPD	28.02.2012

3.	Vinay Tandon	Forest Advisor, Shimla	31.03.2012
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HPFS

1.	M. C. Thakur	DWDO, MHWDP, Namhol	30.04.2011
2.	M.M.Khusdil	DFO(HQ), Rampur	30.06.2011
3.	O.C.Kondal	DFO(HQ)North, HPSFDC, Dharamshala	30.06.2011
4.	Arun Kumar Sharma	DFO (HQ), O/o PCCF (WL)	31.07.2011
5.	Barkha Ram Chaudhary	DFO (Soil), Shimla	31.08.2011
6.	Suresh Datta	Director, FTI Chail	31.10.2011
7.	Rajender Kumar Raj	DFO, Una	30.11.2011
8.	O.C.Sharma	DFO (Research) ,S/Nagar	31.12.2011
9.	Som Prakash	SDM, Nurpur	31.10.2011
10.	G. S. Verma	DFO (HQ) ,O/o PCCF (WL)	31.01.2012
11.	D.S.Thakur	DM, HPSFDC, Mandi	29.02.2012
12.	S.S.Patiyal	DM HPSFDC, Dhanotu	29.02.2012
13.	R.S.Chauhan	DM, HPSFDC, Shimla	29.02.2012

Others

1.	Rattan Chand Thakur, Registrar	-do-	30.11.2011
2.	Dharam Singh Chauhan, Registrar	O/o PCCF, H.P	31.01.2012
3.	Mohan Lal Sharma, Assistant Engineer	-do-	31.05.2011
4.	Amar Lal Verma, Supdt. G-I	-do-	30.04.2011
5.	Krishan Lal Sharma, Supdt. G-I	O/o PCCF, H.P	30.04.2011
6.	Vidya Devi	CF, Dharamshala	30.06.2011
7.	Mohan Lal Chauhan	O/o PCCF, H.P	30.06.2011
8.	Bihari Lal	-do-	31.12.2011
9.	Mansa Ram	CF, Chamba	31.12.2011

7.6 The following statement summarizes the information of retirement, termination, suspension and deaths amongst officers/staff of the Department during the year.

Sr. No.	Officers/officials	Retired	Terminated	Suspended	Died	Dismissed
1.	2.	3.	4.	5.	6.	7.
1.	IFS Officers	3	-	-	-	-
2.	HPFS Officers	13	-	-	-	-
3.	Assistant Engineer	1	-	-	-	-
4.	Registrar	2	-	-	-	-
5.	Supdt. G-I	6	-	-	-	-
6.	Supdt. G-II	9	-	-	-	-
7.	Sr. Assistant	3	-	-	-	-
8.	Forest Ranger	20	-	2	1	-
9.	Deputy Ranger	41	-	6	2	-

10.	Forest Guard	21	-	3	6	-
11.	Naib Tehsildar	5	-	-	-	-
12.	Kanungo	5	-	-	-	-
13.	Driver	2	-	-	-	-
14.	Peon	9	-	2	3	-
15.	Mali	5	-	-	-	-
16.	Daftri	1	-	-	-	-
17.	Cowkidar	9	-	1	1	-
18.	Sweeper	2	-	-	-	-
19.	Forest Worker	55	-	3	6	-
20.	Dak Runner	1	-	-	-	-
Total		213	-	17	19	-

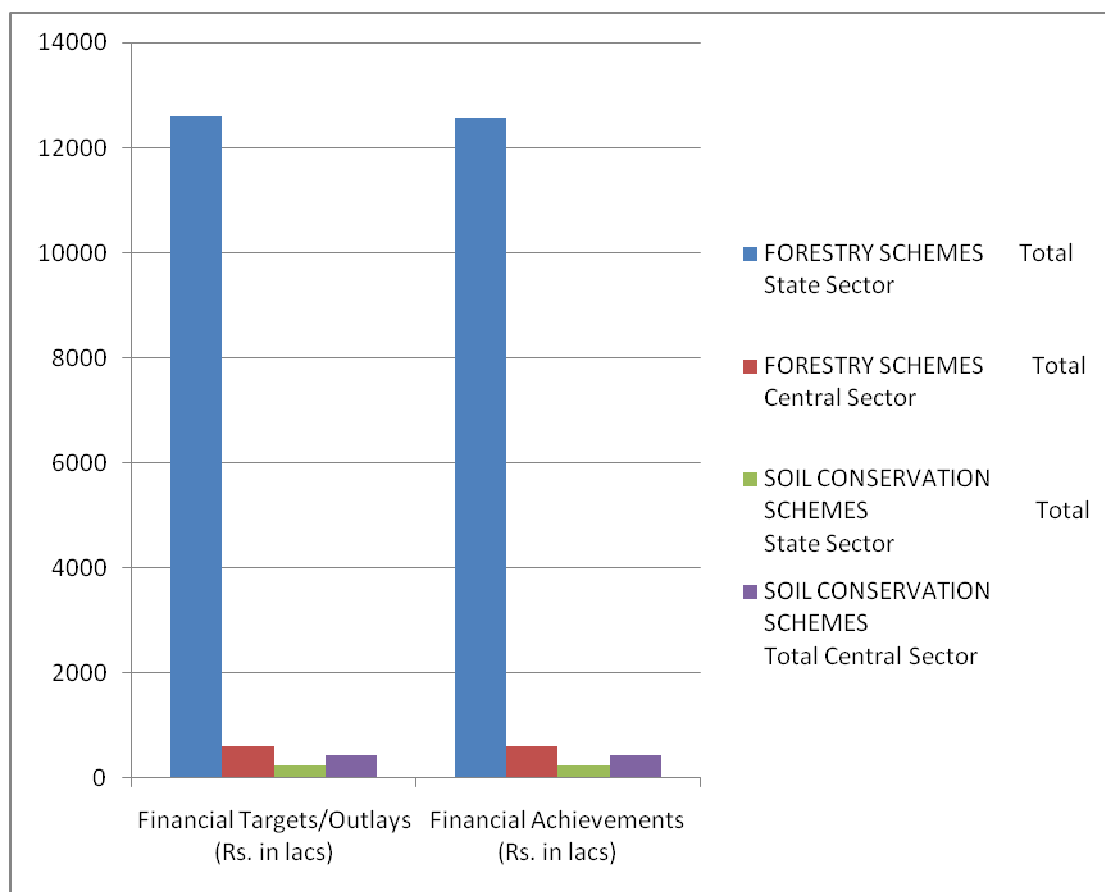
CHAPTER-VIII

PLAN SCHEMES

8.1 A number of developmental programmes/schemes were carried out during the year for raising plantations, thereby creating permanent assets and also to arrest soil erosion in the catchments of important river basins. The achievements through forestry and soil conservation schemes under State and Central sectors are tabulated below:-

Sr. No.	Name of Developmental Scheme	Financial Targets/Outlays (Rs. in lacs)	Financial Achievements (Rs. in lacs)
FORESTRY SCHEMES			
A-STATE SECTOR			
1.	Forestry Programme		
	Non-Tribal	11438.90	11431.65
	Tribal	738.44	740.44
2.	Wildlife Conservation		
	Non-Tribal	325.00	325.01
	Tribal	75.00	75.00
	Total State Sector	12577.34	12572.10
B- CENTRAL SECTOR			
1.	Forestry Programme		
	Non-Tribal	345.59	345.59
	Tribal	-	-
2.	Wildlife Conservation		
	Non-Tribal	157.92	157.91
	Tribal	99.46	105.48
	Total Central Sector	602.97	608.98
	Total Forestry & Wildlife (Including Grants-in-aid)	13180.31	13181.08
SOIL CONSERVATION SCHEMES			
A-STATE SECTOR			
1.	Protective Afforestation Soil Conservation & Demonstration including Suketi Fossil Park		
	Non-Tribal	110.00	109.92
	Tribal	71.20	77.20
2.	Macro-management of Agriculture Supplementation/complementation		

	of State through work plans		
	Non-Tribal	60.00	60.00
	Tribal	-	-
	Total State Sector	241.20	247.12
B-CENTRAL SECTOR			
	Macro-management of Agriculture Supplementation/complementation of State through work plans		
	Non Tribal	444.52	444.52
	Tribal	-	-
	Total Central Sector	444.52	444.52
	Grand Total Forestry, Wildlife, Soil Conservation & Grant- in- aid	13866.03	13872.72



Note: - Break up of Grants-in-aid is shown in Form No. 24 and Chapter-V of the report.

The detailed physical and financial outlay/targets and achievements are given in Appendix –IV of the report for each Forestry, Wildlife and Soil Conservation Scheme. However, a brief resume of important schemes, especially plantation schemes under the Forestry, Wildlife and Soil Conservation programmes, is mentioned below:-

8.2 Forestry Schemes

8.2.1 Pasture Improvement:

Live stock plays an important role in the economy of this state. Through the conservation, development and utilization of fodder resources the scheme envisages to fulfill the demand for feeding the cattle population of the State and also to meet the requirement of the migratory graziers. Improvement of pasture land was carried out over an area of 118 ha. at a cost of Rs. 20.00 lacs during the year.

8.2.2 Preservation, Conservation & Management under 13th Finance Commission:

TFC Scheme aims at preservation, conservation and management of forest resources. It is fully financed by Government of India in the form of grants-in-aid to the State Government. Apart from planting activities improvement of infrastructure facilities such as forest rest houses, check posts, eco-tourism structures, development of high technique nurseries, forest protection works like fire protection, bio-engineering measures like stabilization of loose soil along roads, capacity building trainings, infrastructure improvement of forest training schools at Chail and Sundernagar are taken up under TFC. During the year, an amount of Rs.1257.89 lacs has been utilised on different activities.

8.2.3 Improvement of tree cover:

With a view to meet the ever- increasing demand for timber and to bridge the formidable gap between the existing known resources and demand, three components were framed by the Forest Department to improve the forest cover. Components are as under:-

1. Afforestation in blank areas
2. Enrichment Planting
3. Re-afforestation in scrub areas

The Component of “Afforestation in blank areas” would aim at the areas which did not have tree cover in the recent past.

The Component of “Enrichment planting” in degraded areas aims at improving the crown density of the degraded forests (between 10 to 40 percent) with a view to enhancing productivity.

The Component of “Re-afforestation of scrub areas” aims to bring the scrub and weed infested area, under tree cover. An amount of Rs 271.16 lacs was provided during the year 2011-12 for raising plantations and other works over an area of 481 ha.

8.2.4 Sanjhi Van Yojna:

Under this scheme, plantations are raised on village community lands with active participation of the people. The main objectives of the scheme are as under:-

The main objectives are:-

- i) Involvement of grass roots level institution such as Gram Panchayats, Mahila Mandals, Yuvak Mandals, Schools, Village Development Committees, NGOs etc. in eco-restoration.
- ii) Regeneration of degraded forest areas through community involvement.
- iii) Creation of social assets for the benefit of the communities.

- iv) Increasing productivity of the forest areas by improvement of nursery stock through adoption of modern nursery techniques.
- v) Re-orientation of the forest staff for facilitating community participation.
- vi) Generation of employment opportunities in rural areas.
- vii) To bring more areas under tree cover by encouraging rehabilitation/plantations of private wastelands on cost/benefit sharing basis.

During the year a sum of Rs 20.18 lac has been utilized for raising plantation and other activities over an area of 26 ha.

8.2.5 Regeneration of Chilgoza pine:

The scheme earlier started as 100% centrally Sponsored Scheme and has been taken up in the State Plan during the year 1987-88. The scheme aims at developing Chilgoza Pine nursery and subsequent plantations in the field. During the year under report, a sum of Rs. 4.67 lacs was spent for raising chilgoza plantation and other activities over an area of 11 ha. in the State.

8.3 Externally Aided Projects

8.3.1 Integrated Watershed Development Project for Mid Himalayas:

IWDP (Hills-II) Himachal Pradesh is being implemented in Shiwalik area of Himachal Pradesh since 1999. The performance of the project has been appreciated at various levels including World Bank Supervisory Missions. Encouraged by the results of the project in the field and overwhelming response of the people, a new Integrated Watershed Development Project has been formulated for the Mid Himalayas of Himachal Pradesh with an estimated cost of Rs. 365 crore. The Mid Himalayas in the State include the part areas of districts Chamba, Kangra, Kullu, Hamirpur, Mandi, Una, Bilaspur, Solan, Sirmour and Shimla ranging from 800 to 1600 metres. The project will focus primarily on the issue of poverty alleviation along with resource rehabilitation, conservation and development assimilating the lessons learnt from IWDP (Hills-II) Kandi. The total duration of the project will be of seven years. The first year will be treated as zero year of the project and will be mainly utilized for institutional building followed by full-scale implementation of various activities for another five years. Last year of the project is proposed for phasing out phase i.e. withdrawal of the project. The project started in October, 2005 with an out lay of Rs. 5.50 crores on the funding pattern of 80% loan and 20% State Share. An amount of Rs.55.00 crores has been proposed for the financial year 2011-12. The basic aims of the project are: Prevention of degradation of high potential areas while optimizing productivity of arable and non-arable lands with eco-friendly technologies.

- i) Preserving and protecting the areas of high biodiversity through better forestry process, livestock management and soil and water conservation practices.
- ii) Restoration of productivity of degraded lands.
- iii) Improving the productivity of the livestock by increasing the proportion of graded animals.
- iv) To improve the accessibility of rural areas in order to facilitate the implementation of the project and carriage of farm produce to the nearby markets.
- v) To organize the local communities and to strengthen the local institutions in natural resource management.

During the year, a sum of Rs. 5492.86 has been spent on plantations and other works over an area of 629 ha.

8.3.2 Integrated Watershed Development Project for Swan River (UNA) :

Integrated Watershed Development Project for Swan River has been launched in Himachal Pradesh with a total cost of Rs. 160 crore from the period June, 2006 to March, 2014 with the help of Japan Government in District Una of Himachal Pradesh. Aims of this project are regeneration of forests, protection of agriculture lands and increase in agricultural and forestry production in the watershed area of Swan River. For this purpose in the catchment's area of Swan River Integrated Watershed Management activities viz. forestry, soil and water conservation works/activities are being carried out. Works are also being undertaken under this project to develop agriculture and improve livelihoods of the local people.

During the year 2011-12 an amount of Rs.3500.00 lacs has been spent on different activities over an area of 3083 ha.

8.4 Wildlife Schemes

8.4.1 Wildlife Preservation:

After rationalization of schemes, a new scheme namely Wildlife Preservation has been introduced during year 2001-02 in place of Wildlife Management and Nature Conservation, Improvement and Development of Wildlife Sanctuaries and Awareness for nature and Wildlife Conservation amongst youths. The main objective of the scheme is payment of relief on account of loss/injury to human life and loss of live stock by the wild life animals in protected areas to reduce the man animal conflict. During the year, an amount of Rs. 119.20 has been utilized on different works under this scheme.

8.4.2 Development of Himalayan Zoological Park:

This is a continued scheme from the Seventh Five year Plan and up to the end of this plan period. Three major Zoological Parks and four Pheasantries are being maintained to exhibit Western fauna for the purpose of conservation in the State under this scheme. The area of expenditure under this scheme is for repair of existing enclosures, to provide small equipments and feeding of birds kept in Renuka and Manali Pheasantries.

The major expenditure under this scheme is grants-in-aid to Himachal Pradesh Zoo Conservation Breeding Society constituted by H.P Government whose mandate is proper zoo management and conservation breeding of endangered species. Apart from this feeding for captive animal's treatment of ailing wildlife and Monkey Sterilization programme is also being undertaken largely under this scheme. An amount of Rs. 325.01 lacs has been spent on this scheme on different works during the year.

8.4.3 Improvement and Development of Wildlife Sanctuaries:

This scheme is continued for the Tenth Five year Plan for Tribal area. The area of expenditure under this scheme is Wildlife Survey, Habitat Improvement, Fodder and Pasture Improvement Plantation and Soil Conservation works, Census of Animals/birds, construction of infrastructures. During the year, an amount of Rs.13.00 lac has been utilised under this scheme.

8.4.4 Assistance for Development of National Parks and Sanctuaries:

The Scheme envisages intensive management of Wildlife Sanctuaries and National Parks in the State on modern scheme lines. The area of expenditure under this scheme is protection works, habitat Improvement, research work, fire protection measures, soil Conservation works, Plantation of fuel and

fodder trees, improvement of existing paths and enclosure, training/awareness programme, salt licks, construction of buildings, construction of trekker huts, improvement of existing buildings etc. in the National Parks and Sanctuaries. Also School/College Students and Local Youths are taken to wildlife areas for exposure and creating love in them for wildlife and nature conservation. Equipments like projectors, films, camping Equipments etc. are purchased. An amount of Rs. 157.91 lacs has been spent under this scheme during the year on different works.

8.4.5 Development of Pin Valley National Park:

The Pin Valley National Park is situated in the Pin Valley of Spiti sub-division of Lahaul and Spiti District. The area supports unique flora of cold desert Eco-system. Pin Valley National Park is one of the few areas where Snow Leopard, which is a highly endangered species in the world, is found along with its prey species. Besides, main birds and animals found in this park area are Tibetan Wolf, Ibex, Himalayan Brown Fox, Himalayan Blue Sheep, Marmots, Weasels, Snow Cock, Chukor, Hill Pigeon, and Yellow Billed Chough etc.

This is a continued Scheme from Seventh Five-Year Plan and during this period, emphasis has been laid on creating the infrastructure, creation of posts. Efforts are being made to develop this park for providing proper protection measure to all wildlife especially to Snow Leopard etc. Works like construction of ponds, water harvesting structure, habitat improvement, fire protection measures, study and research works and soil conservation works will be carried out under this scheme. During the year Rs. 11.40 lacs has been spent on different works under this scheme.

8.5 Soil Conservation Schemes

8.5.1 Protective Afforestation, Soil Conservation and Demonstration (Tribal & Non-Tribal):

It envisages intensifying Soil Conservation measures in Yamuna, Ravi, Chenab and other basins and their tributaries to reduce the silt load in these rivers. Afforestation was carried out over an area of 565 ha. besides a large number of other soil conservation works. During the year, inclusive of establishment Rs.187.12 lac has been spent on this scheme.

8.5.2 Macro management of Agriculture Supplementation/ Complementation of State efforts through work plan:

The Centrally Sponsored Scheme of soil conservation in the catchments of River Valley Projects and Flood Prone Rivers has been in operation since the third and fifth Five Year Plans respectively. Both these schemes, with effect from April 2000, have been clubbed and renamed as Soil Conservation for Enhancing Productivity of Degraded lands in the Catchments of River Valley Projects and Flood Prone Rivers Scheme. In the meantime, the GOI decided to merge the existing 27 No of Centrally Sponsored Scheme under the name of Macro Management Mode and are continuing as such. The Agriculture Department is the nodal department of the scheme.

The Department of Forests, Agriculture and Horticulture have been jointly planning and implementing the scheme. The Forest Department is the nodal department for the RVP & FPR, working on the forestland, whereas the Agriculture and the Horticulture Departments are working in the private areas.

An amount of Rs. 504.52 lacs has been spent under the scheme for the year 2011-12 during the year.

C CHAPTER-IX OTHER ACTIVITIES

9.1 Introduction of Wild Life Wing:

For preservation and scientific management of fauna of the Pradesh, a Wild Life Wing of the Forest Department is presently entrusted with the job of management of Protected Areas (PAs) comprising of two National Parks (NPs), the Great Himalayan National Park, Shamshi in Kullu and the Pin Valley National Park, Kaza in Lahaul-Spiti districts, 33 Wild Life Sanctuaries, 4 Zoos at Kufri, Renuka, Rewalsar and Gopalpur and 4 Pheasantaries at Sarahan, Chail, Khariun and Shimla & 2 Rescue & Re-habilitation Centres at Tutikandi, Shimla and Manali.

The total protected area under these National Parks and Wild Life Sanctuaries is 7160.75 Km² which is 19.34 % of the total forest area and 12.86 % of the Geographical area of the State. Himachal Pradesh is one of the topmost States of India in terms of area under Protected Area Network.

The Government of Himachal Pradesh has transferred all Wild Life Sanctuaries and National Parks to the Wild-Life Wing.

9.2 Organization of Wild Life Wing:

The Wild Life Wing is headed by the Principal Chief Conservator of Forests, (Wild Life), who is also the Chief Wild Life Warden of the State. He is assisted by one Chief Conservator of Forests (FD&PAN) and One Divisional Forest Officer (Headquarters), three field Conservators of Forests, i.e. Wild Life (South) Shimla, Wild Life (North) Dharamshala and Great Himalayan National Park, Shamshi at Kullu. There are 8 Wildlife Divisions namely Chamba, Kullu, GHNP, Hamirpur, Sarahan, Shimla, Zoo & Rescue and Spiti Division at Kaza, 32 wild life Ranges, 66 Blocks and 194 Beats and 8 Check posts in protected areas. Efforts were made to check the illegal poaching of Wildlife animals by deputing the staff.

Wildlife Week is celebrated every year from 2nd October on the birth anniversary of Mahatama Gandhi. The 57th Wildlife Week was celebrated with great enthusiasm with a feeling among masses to protect wild life by organizing wildlife Awareness programmes through Slogan writing, quiz competitions, declamation contests and painting competitions on wildlife. Prizes were awarded for the best performances.

The detailed physical and financial achievements in respect of wild life schemes are given in Appendix-IV.

9.3 The HP State Forest Corporation:

The Himachal Pradesh State Forest Corporation functioned principally as a harvesting agency during the year. The entire exploitation works of timber, resin, fuel-wood, charcoal etc. from the State Forests were handled by the Forest Corporation. The standing volume marked to the HP State Forest Corporation, for commercial felling during the year, was 145984 m³. Besides 1576148 resin blazes were also handed over to the Forest Corporation for tapping of resin. The Forest Corporation also regulated the resin exploitation from the private areas in the State.

9.4 The Publicity Wing:

Through the Publicity Division, wide publicity is given to emphasise the importance of various Forestry operations, Schemes and works carried out by the Department. People are approached through Cinema shows, broadcasting of fire jingle from AIR and DD Spot from Doordarshan Kendra, exhibitions, published materials, electronic & print-media etc. During the year two International level exhibitions were arranged. The amount spent on these activities was Rs. 10.82 lac.

9.5 Supply of Timber and Fuel-wood:

Timber and fuel-wood was supplied to the local people in tribal areas of the Pradesh from the depots managed by the Forest Department/Corporation. Transportation cost is subsidized and borne by the State Government.

9.6 Wood Based Industry:

A Wood Based Industry (WBI) is managed by the Forest Department at Shamshi in Parbati Forest Division. This unit is engaged in the manufacturing of the office furniture and other articles. During the year 7.89 m³ volume of timber was marked to WBI Shamshi unit and utilized as raw material during the year. Further, no volume of standing trees was supplied to any Wood Based Industry of private sector/saw mills etc. during the year.

9.7 Forest Plantations:

Plantations have been raised under State and Centrally Sponsored Forestry and Soil Conservation schemes. The present pace of plantations will substantially contribute towards rehabilitating the degraded forests and increasing the area under forest cover. Emphasis has been given to raising broad-leaved species in the Pradesh. The scheme-wise achievements of the plantations raised during the year 2011-12 are tabulated below: -

TABLE: 9
Plantations raised under various schemes

Name of Schemes	Physical Achievement	Area in (ha.)
		Remarks
1. Pasture Improvement	552	
2. Improvement of Tree Cover Aff.	258	
3. Enrichment Planting	275	
4. Re-afforestation of Scrub Areas	440	
5. Re-generation of Chilgoze Pine	11	
6. Reg. of Perennial Herbs and Shrubs	10	
7. 13 th Finance Commision	788	
8. Sanjhi Van Yojna	26	
9. Soil Conservation State Plan	595	
10. Backward Area Sub Plan	793	
11. FDA	957	
12. Cat Plan	2829	
13. Macro Management. (RVP)	533	
14. Bio Engineering Plants	153	
15. Reh. of Ft. through removal of invasive spp. & plant	82	
16. NMPB	702	
17. Assistance to Sanctuaries	45	
18. Plantations Under Science & Technology Project	28	
19. NBM	351	
20. Demand No. 16 N. Plan Soil Cons./Bio/Engg. Spp.	20	
21. Van Mahotsava	1	
22. MNREGA	38	
23. 789-01 Soon 05 Swan Project (Plan) in Hamirpur Circle	152	
24. MHWDP, Solan	629	
25. PD Swan Una	2883	
26. Rehabilitation of Degraded Forest	112	
27. 102-01-Social and Farm Forestry	3	
28. Raising Fruit and Fodder	4	
29. Raising of NTFP Plantation	15	
30. Other	11	
Total	13296	

Note: - Grass Tufts planted in 408 ha.

9.8 Forest Based Industry:

There are resin processing units functioning in private sector in Hamirpur Circle particularly in Una and Dehra Divisions and two in public sector at Bilaspur and Nahan. Besides this, one timber treatment plant is functioning in Hamirpur Division under the control of Himachal Pradesh State Forest Development Corporation Limited and is supplying the timber both treated and untreated to public as well as to Government Departments.

9.9 H.P. STATE CAMPA:

A State CAMPA (Compensatory Afforestation Management and Planning Authority) has been established in Himachal Pradesh to accelerate activities for Compensatory Afforestation, forest resource management preservation of natural forests, management of wildlife, infrastructure development in the sector and allied works. It shall administer and manage the funds accrued to the State on account of Compensatory Afforestation, Catchment Area Treatment Plans, Net Present Value (NPV) of the forest land diverted for non-forestry purposes, wildlife management etc. The notification to this effect has been issued by the State Government on 03.08.2009.

The State CAMPA comprises the following:

- i. Governing Body:** [Chairperson: Chief Minister, Vice Chairperson: Forest Minister & Member Secretary: Additional Chief Secretary (Forests)]
- ii. Steering Committee:** [Chairperson: Chief Secretary, GoHP and Member Secretary: APCCF (CAT Plan)]
- iii. Executive Committee:**[Chairman: PCCF HP and Member Secretary: Nodal Officer (CAMPA)]

In addition to the funds transferred from the Central Adhoc CAMPA, all unspent funds already realized by the State from User agencies towards Compensatory Afforestation, Catchment Area Treatment Plan, NPV or for compliance of any other condition (s) stipulated by the Central Government while according approval under the Forest (Conservation) Act, 1980.

A total amount of approximately Rs. 816.09 crore approximately (as on 30.06.2011) is at the credit of Himachal Pradesh State with Adhoc CAMPA GoI. As per the Supreme Court orders dated 10th July 2009, the Adhoc CAMPA shall release funds to all States at the rate of 10% of principal amount within the overall ceiling of Rs.1000 crores, every year for the next 5 years.

CEO Adhoc CAMPA has transferred the amount of Rs. 57.13 crore in the State CAMPA account opened in PNB, New Shimla branch during the year 2011-12.

The State CAMPA shall release funds for the execution of CAT Plans, Compensatory Afforestation as per APO approved by it. In addition, activities related to Forest regeneration & protection, infrastructure development, wildlife management etc. will be carried out from the funds deposited against NPV.

The Steering Committee of the State CAMPA has approved the APO for 2011-12 for CAT Plans (17.88 crore), NPV (22.41 crore) Compensatory Afforestation (5.32crore), Rim Plantation (4.52 Crore), Wild Life Management Projects (6.95 crore) & Soil & Water Conservation (Rs. 0.18) (**Total Rs. 57.26 crore**). An amount of Rs.41.55 crore has been utilised against the approved APO. The sector wise detail of expenditure is as under:

APO Year	Name of Sector	Funds Released by Adhoc CAMPA, GoI	APO Approved	Expenditure
2011-12	CA	0.00	5.32	2.12
	CAT Plan	57.13	17.88	15.69
	Misc.	0.00	0.00	4.73
	NPV	0.00	22.41	12.71
	RIM	0.00	4.52	2.63
	S&WC Plan	0.00	0.18	0.19
	WLMPs	0.00	6.95	3.48
Total		57.13	57.26	41.55

9.10 Ecotourism:

As per revised Policy on Development of Eco-tourism in H.P-2005, the following Rest Houses/Camping sites have been rented out under Public Private Partnership (PPP) for development of eco-tourism activities by the H.P Ecotourism society:

Sr. No.	Name of Forest Rest House/ Camping site	Name and Address of the Private entrepreneurs
1	Forest Rest House, Kangra	Shri Gaurav Jain, Director, Tarangan Developers Pvt.Ltd. Regd.Office-5, Link Road, Sadar Nagpur.
2	Forest Rest House, Ala (Chamba)	-do -
3	Forest Rest House, Dhuandevi (Mandi)	-do -
4	Dalhousie Camping Site	-do -
5	McLeodGunj Camping Site	-do -
6	Shoghi Camping Site	-do -
7	Barog Camping Site	Sanjeev Kumar, Naina Devi Trust, Jaunaji Road Solan, District Solan, H.P.
8	Sonu Bungalow Camping Site	Joginder Kanwar, South Gate Chotta Shimla, District Shimla, H.P.
9	Chewa Self Identified Site	Major Gen.(Retd.)Harwant Krishan, Veteran Services, Pvt. Ltd. 2146, Sector-35-C, Chandigarh-160022.
10	Motikuna Hill Top (Sanawar), Self Identified Site	Dinesh Goverdhan & Vishal Verma, Village-Chhatera, P.O Kanda, District Solan (H.P).

Presently 5 sites i.e. Shoghi Camping Site, Barog Camping Site, Chewa Self Identified Site, Motikuna Hill Top (Sanawar), Self Identified Site and Forest Rest House Ala (Chamba) are in operation. Over one hundred local residents have got employment in these projects.

Detail of rent amount earned from these sites during the year is as under:

<u>Year</u>	<u>Opening Balance</u>	<u>Received during the year</u>	<u>Total</u>
2011-12	2628084	554100	3182184
