

CHAPTER-I **CONSTITUTION OF STATE FORESTS**

THE FOREST AREA

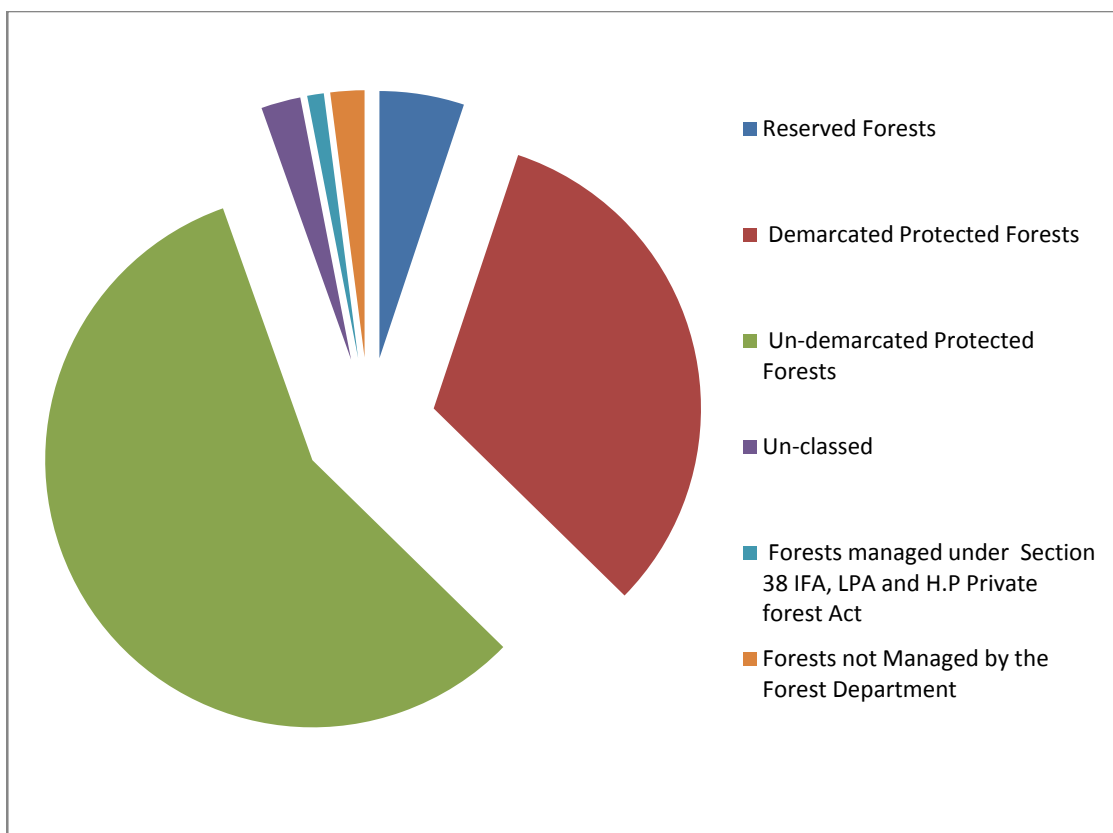
1.1. Alteration in Forest Area: The forest area at commencement of year was 37,03,297 ha. and at the close of the year was 37,03,286 ha., this consists of 20,65,686 hectares culturable forest area and 16,37,600 hectares un-culturable forest area (barren lands, high alpine pastures, snow bound area etc.). The changes in the forest area were owing to revision of working plan of Shimla Division. This forms 66.5% of the total geographical area of the Pradesh.

Detail of area under various classes of forests as on 31.03.2012 vis-à-vis 31.03.2013 is indicated below in Table-1.

TABLE: 1

Class of the Forests	Area (in ha.) as on		Variation
	31.03.2012	31.03.2013	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
A. Forests Managed by the Forest Department			
1. Reserved Forests	1,89,613	1,89,613	--
2. Protected Forests			
a) Demarcated	11,91,180	11,93,062	(+ 1882)
b) Un-demarcated	21,19,797	21,17,915	(-) 1882
c) Strip Forests (Road/Railway)	1,312	1,312	--
3. Un-classed Forests	88,634	88,623	(-) 11
Total - A:	35,90,536	35,90,525	(-) 11
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	1,891	1,891	--
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:	75,812	75,812	--
Grand Total :	37,03,297	37,03,286	(-11)



1.2. **Form No. 7** and **Appendix-I** provide the area by legal classification and working circle-wise respectively. **Appendix-II** depicts District and Division wise forest area by legal classification. Brief description of changes in the forest area is as under:-

- a) **Reserved Forests:** The total reserved forests were 1,89,613 hectares, against 1,89,613 hectares at commencement of the year. Thus there was no change in the Reserved forests during the year.
- b) **Demarcated Protected Forests:** The total area under demarcated protected forests was 11,93,062 hectares, against 11,91,180 hectares at the commencement of the year. Thus, there was a net increase of area 1882 hectares, owing to revision of working plan for Shimla Forest Division.
- c) **Un-demarcated Protected Forests:** The total area under un-demarcated protected forests was 21,17,915 hectares, against 21,19,797 hectares at commencement of the year. Thus, there was a change to the extent of 1882 hectares owing to revision of working plan for Shimla Forest Division.
- d) **Un-classed Forests:** The total area under un-classed forests was 88,623 hectares, against 88634 hectares at commencement of the year. Thus, there was a change to the extent of 11 hectares owing to recheck in the Shimla Forest Division.

1.3. Forest Settlement: Forest settlement works was in progress in Dharamshala, Kullu, Nahan and Shimla Circles during the year, 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 Hamirpur and Una districts. All areas vested with Government under HP Village Common Land vesting and utilized Act, 1974 and HP Ceiling Holding Act, 1972 were not surveyed and demarcated for creation of new DPFs as per Government orders dated 8/5/1990, so that the unit headquarters shifted to Bilaspur and was asked to take up work only 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. 22,84,500/- was spent on construction of 1391 new boundary pillars over a perimeter of 509 kms. An amount of Rs. 18,28,220/- was spent on the repair of boundary pillars over a length of 42,640 kms. during the year.

1.5. Forest Survey: The Forest Survey of India carries out assessment of the Country's forest and tree resources on regular basis in their biennial report i.e. "India State of Forest Report". The Forest Cover assessment is also carried out by them using remote sensing technology and includes all lands which have a tree canopy density of 10 percent and above and minimum mapping unit of 1 ha. The district wise tree cover of Himachal Pradesh is given in Form No. 10 of the report.

CHAPTER-II

MANAGEMENT OF STATE FORESTS

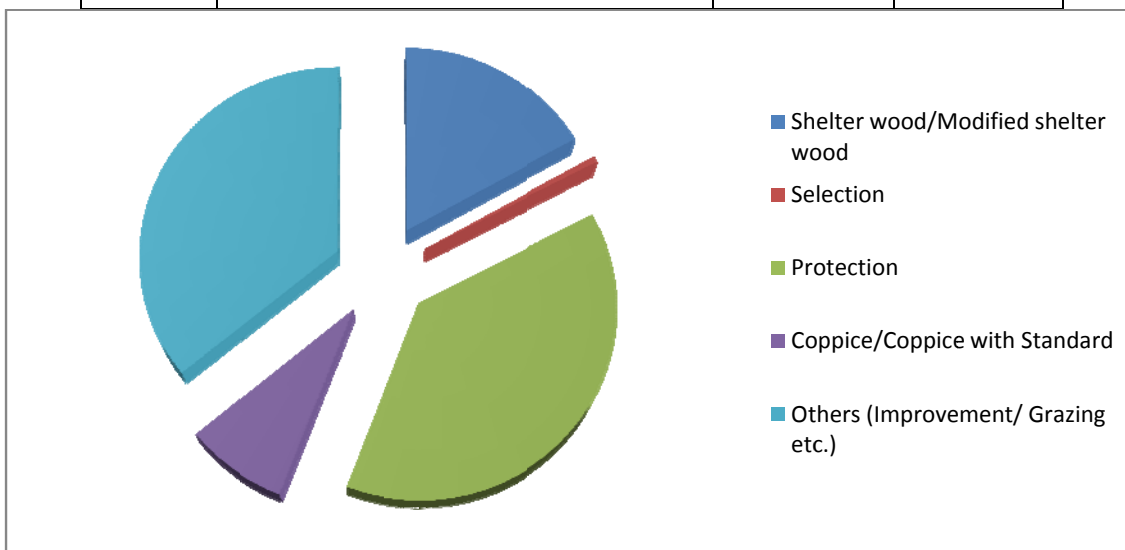
2.1 Regulation and Management: Out of a total forest area of 37032.86 km², the area managed by the Forest Department during the year was 36274.74 km². This includes 35905.25 km² of State forest land and 369.49 km² of private forests (managed by the department under section 38 IFA, area managed under 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 27827.51 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 Dalhousie, Kullu-Parvati, Ani, Lahaul, Kutlehar, Rampur, Churah, Parvati, Nachan, Rohru-Jubbal and Theog have been expired and are under revision.

2.3.2 Working Plans Approved: The working plans of Chamba, Hamirpur, Mandi-Jogindernagar, Jogindernagar, Renukaji, Pangi, Kinnaur, Solan, Nahan-Paonta, Paonta, Chopal, Suket, Bharmour, Karsog, Palampur, Dharamshala, Kunihar, Una, Kotgarh, Bilaspur, Nalagarh, Shimla, Nurpur and Dehra have been approved by Govt of India.

2.3.3 Working Plans submitted for Approval: The draft working plans of Rajgarh and Seraj 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

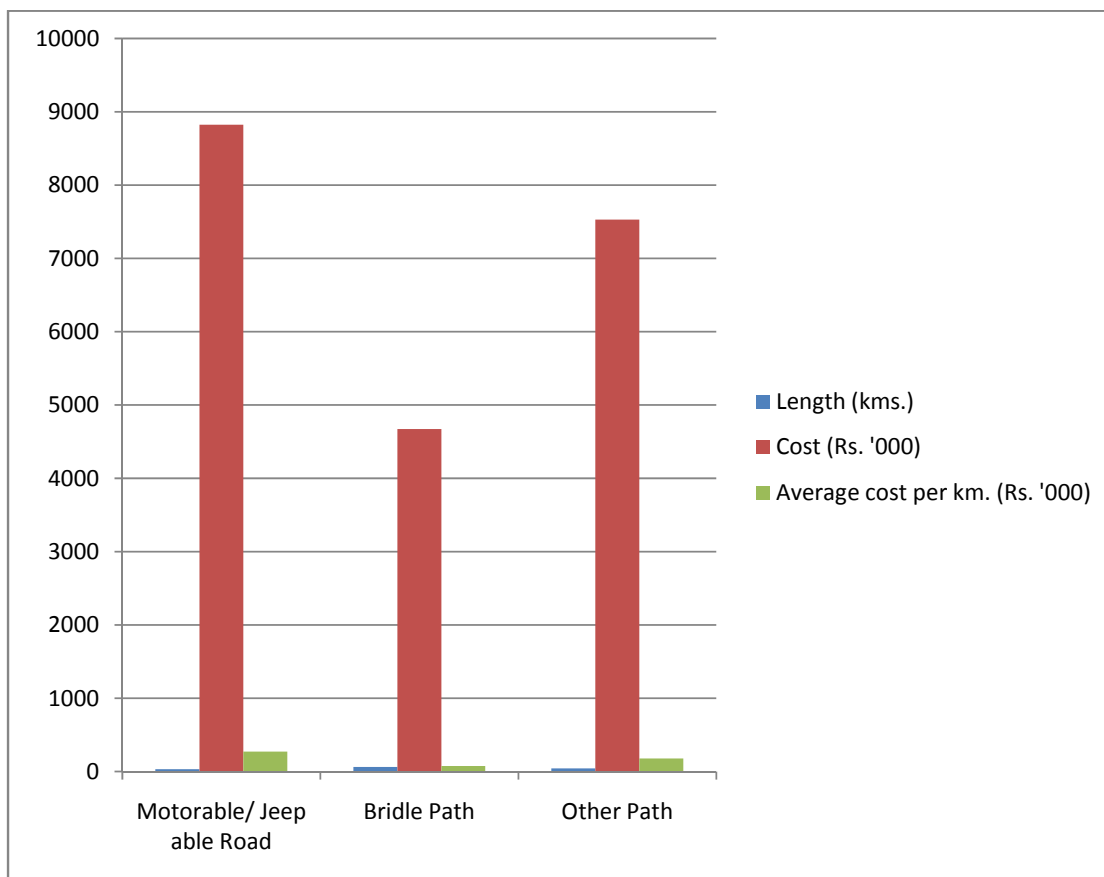
Sr. No.	Name of Circle	Name of Division	Year up-to which control forms approved
1	2	3	4
1.	Bilaspur	Bilaspur	1994-95
		Kunihar-Nalagarh	1990-91
2.	Chamba	Bharmour	1992-93
		Chamba	1991-92
		Churah	1992-93
		Dalhousie	1999-2000
		Pangi	1998-99
3.	Dharamshala	Dharamshala	1998-99
		Nurpur	1998-99
		Palampur	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	2000-01
		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, 135.5 km. of roads and paths were constructed at a cost of Rs. 2,10,24,700. Besides this, an amount of Rs. 2,71,80,900 was spent on repair of 1023.5 km. of existing forest roads and 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	32.2	8822.8	274.00
Bridle Path	61.2	4672.3	76.34
Other Path	42.1	7529.6	178.85
Total	135.5	21024.7	155.16



2.6 Buildings: During the year, Rs. 4,36,33,400/- was spent on the construction of various residential, office and other buildings. Besides, an amount of Rs. 8,95,36,500/- 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:

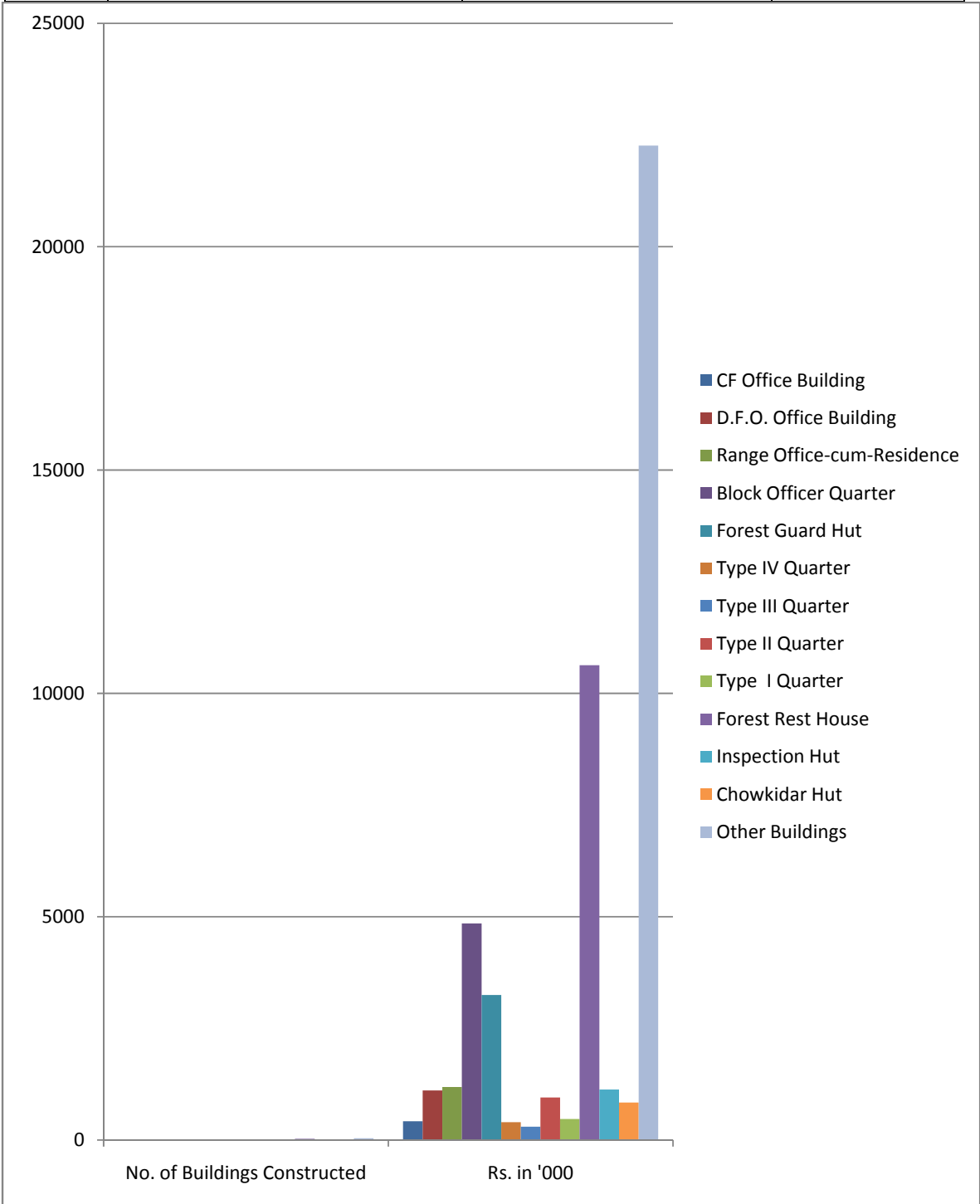
TABLE: 5

New Building Constructed

(Partly Constructed/Completed)

Sr. No.	Type of Buildings	No. of Buildings Constructed	Rs. in '000
1.	D.F.O. Office Building	2	336.0
2.	ACF Residence	2	380.0
3.	Range Office-cum-Residence	4	2574.0
4.	Block Officer Quarter	4	598.0
5.	Forest Guard Hut	10	2149.3
6.	Type VI Quarter	1	100.0
7.	Type III Quarter	2	450.0
8.	Type II Quarter	6	5400.0
9.	Type I Quarter	1	500.0
10.	Forest Rest House	18	11110.7
11.	Inspection Hut	12	4556.0

12.	Chowkidar Hut	2	875.0
13.	Van Thana	1	650.0
14.	Conference Hall	1	535.0
15.	Check Post	3	1460.0
16.	Gang Hut	5	2212.6
17.	Other Buildings	30	9746.8
	Total	104	43633.4



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.	21691
2.	Cases detected during the year	14820
Total		36511

B. Disposal		
1.	Compounded	9460
2.	Convicted by Court	869
3.	Acquittals	217
4.	Filed	0
Total		10546

In 2181 cases of various forest offences, the offenders could not be traced out.

2.8 Causes of Forest Fires: 1798 cases of forest fires were detected during the year, affecting an area of 20774 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: 5, 40, 201 animals have been reported to have grazed in the state forests, on permit at full rates. Besides, 2, 86, 424 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 2012-13, the sectors wise detail of Physical & Financial targets achieved is given as under:-

Sr.No.	Name of Sector	Physical (No.)	Financial (in lac)
1	CAT Plans	3588	867.42
2	Soil & water conservation Plans	5	14.50
3	NPV	-	-

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

3.1 *System of Management:* Forests need to be managed properly and scientifically in order to fulfill ecological and environmental requirement 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
Total		4200	16.9
B	<i>Selection</i>		
1.	Selection	125	0.5
2.	Protection	9577	38.4
Total		9702	38.9
C	<i>Coppice</i>		
1.	Coppice	392	1.6
2.	Plantation/Afforestation	1568	6.3
3.	Bamboo	81	0.3
Total		2041	8.2
D	<i>Others</i>		
1.	Grazing/Pasture	7954	31.9
2.	Rehabilitation	257	1.0
3.	Other Regulated Area	755	3.1
Total		8966	36.0
Grand Total		24909	100.0

3.2 General Progress of Regeneration: Natural regeneration was assessed in an area of 321 ha. in the forest of Bilaspur, Chamba, Mandi, Nahan and Shimla circles. It was also supplemented artificially with sowing and planting over an area of 2379 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 2012-13.

Name of circle	Deodar	Kail	Fir/Spruce	Chil	Other	Total
Bilaspur	--	--	--	0.66	3.62	4.28
Chamba	32.27	0.94	0.08	0.76	115.72	149.77
Dharamshala	0.15	--	--	0.08	11.96	12.19
Hamirpur	--	--	--	0.09	5.37	5.46
Kullu	4.61	0.18	0.66	--	38.93	44.38
Mandi	4.18	--	--	0.15	19.89	24.22
Nahan	4.49	--	--	0.32	8.12	12.93
Rampur	9.51	0.06	0.01	0.80	31.67	42.05
Shimla	9.26	--	--	0.07	40.68	50.01
W.L. Shimla	0.57	--	--	--	25.16	25.73
W.L. D/Shala	0.34	0.01	--	--	9.02	9.37
GHNP Shamshi	0.20	--	--	--	5.41	5.61
Total 2012-13	65.58	1.19	0.75	2.93	315.55	386.00
Total 2011-12	16.50	0.18	0.70	37.47	318.72	373.57

3.4 Forest Conservation and Development: The expenditure under sub-head Forest Conservation and Development amounting to Rs. 81,14,000 against Rs. 77,67,380 spent last year under normal budget provision. In addition to Non-Plan budget indicated above, an amount of Rs. 3,44,00,597 was also spent for conservation and development under plan budget.

CHAPTER-IV EXPLOITATION

MAJOR FOREST PRODUCE

4.1 Timber/Fuel wood: The State Forests are exploited through Himachal Pradesh State Forest Development Corporation Limited. All the forest harvesting/exploitation works including resin tapping and timber exploitation etc. are done by Himachal Pradesh State Forest Development Corporation Limited. During the year, 200852 m³ timber, 7 ton of firewood, 8 ton of Charcoal and 22821 mg of khair were extracted from the State Forests through the State Forest Corporation.

Besides, 76 m³ of timber, 2 ton of fuel wood and 16 ton of charcoal were extracted/prepared for departmental use in the Department during the year. In addition, 266 m³ and 48 m³ of timber were marked to right holders and free grantees respectively.

MINOR FOREST PRODUCE

4.2 Resin: Exploitation of resin in the Pradesh is done by the Himachal Pradesh State Forest Development Corporation, Shimla. About 1527898 blazes were handed over to Himachal Pradesh State Forest Development Corporation Limited for tapping during the year from state forests. The quantity reported to have been extracted by the Corporation was 55769 quintals for which the total royalty payable by the H.P. State Forest Corporation amounted to Rs. 76278050. As per decision of the state pricing committee of Government of Himachal Pradesh for the per blaze rate was fixed to be Rs. 50/-.

4.3 Bhabbar Grass: 460 ton of Bhabbar grass was commercially extracted from Una division. The royalty for Bhabbar grass extracted during the year amounted to Rs. 36500.

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 2532 quintals, the estimated value of which is about Rs. 3.33 crore. The collection and export permit fee of Rs. 445103 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

MEDICINAL-HERBS - 2012-13 (Quantity in qtls.)						
Name of Species		Chamba	Mandi	Rampur	Shimla	Total
Kashmal roots	Berberis spp.	0	600	0	0	600
Nag Chhatri	Trillium govaniatum	47	0	0	237	284
Bankakri	Podophyllum hexandrum =P. emodi	4	0	0	0	4
Horsechestnut	Aesculus indica	0	180	0	0	180
Marigold	Calendula officinalis	0	200	0	0	200
Rakhai	Taxus wallichiana =T. baccata	0	35	0	0	35
Mitha Telia/ Mitha patis	Aconitum violaceum	0	0	0	22	22
Patlain roots	Herculum candicus	39	0	0	0	39
Neozia	Pinus gerardiana	0	0	303	0	303
Pathan bel	Coleus aromaticus	190	0	0	0	190
Chukri	Eremurus himalaicus	12	0	0	0	12
Muskbala/Nihani	Valeriana spp.	105	0	0	0	105
Somlata grass	Ephedra gerardiana	0	0	101	0	101
Kaur/Karu	Picrorhiza kurroa	12	0	0	0	12
Thuth	Salvia moorcroftiana	1	0	0	0	1
Dhoop	Jurinea macrocephala =J. dolomoea	7	0	0	0	7
Tej patra	Cinnamomum tamala	0	215	0	0	215
Bhutkesi	Selinum spp.(S.vaginatum/S. tenuifolium)	21	0	0	0	21
Guchhi	Morchella esculenta	13	0	0	0	13
Burans	Rhododendron arboreum	77	0	0	0	77
Others		111	0	0	0	111
Total		639	1230	404	259	2532

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. 651879 and Rs. 266379 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, Jhigangum, 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.

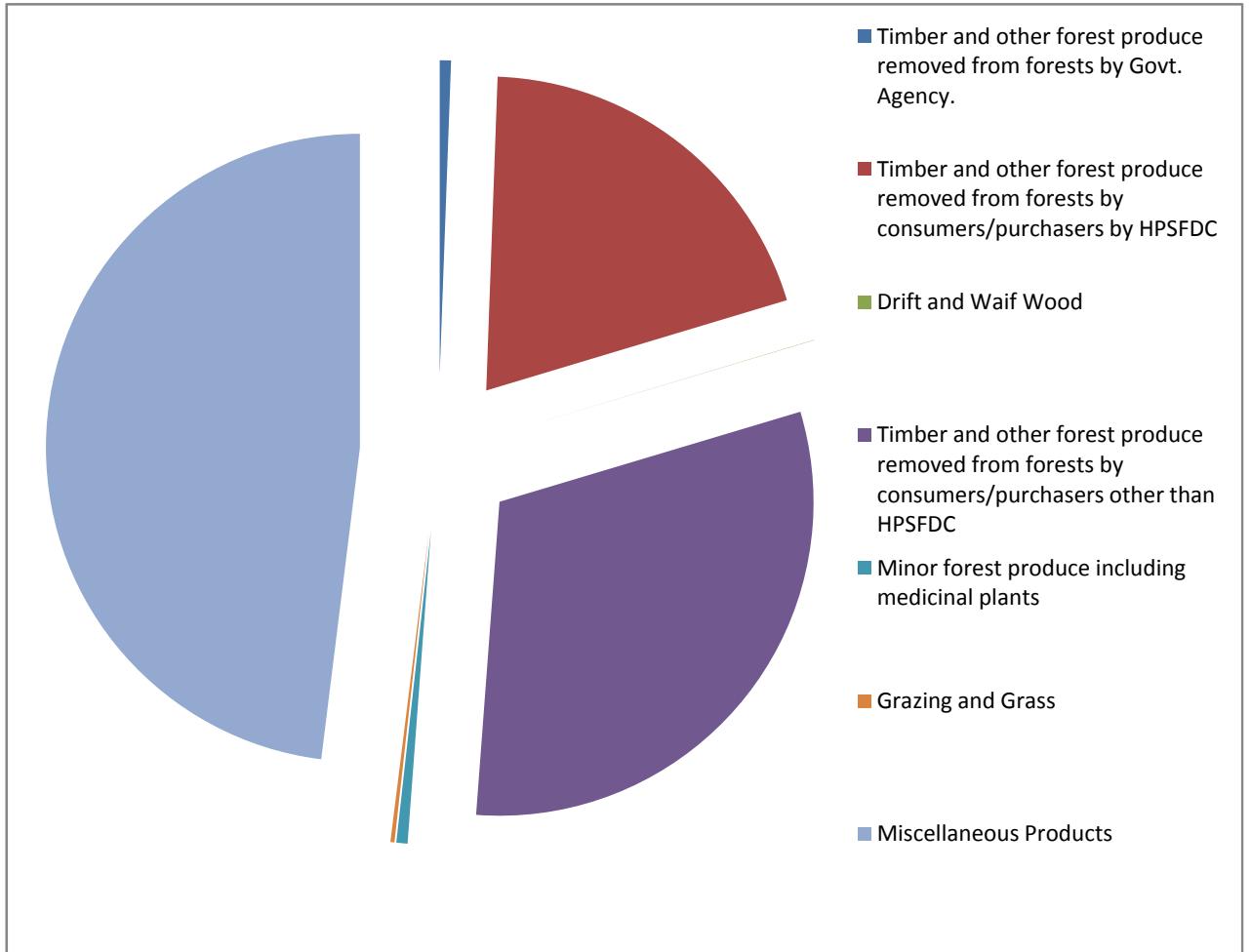
Kind of Produce	Stock at beginning of the year 01.04.2012	Stock at close of the year 31.03.2013
Timber (m ³)	725	754
Firewood (qtls.)	5040	3134
Charcoal (qtls.)	0	0

CHAPTER-V **FINANCIAL RESULTS**

5.1 The net revenue realized by the H.P. Forest Department, from different sources, during the financial year 2012-13, amounts to Rs. 6389.73 lac against Rs. 10654.48 lac during the year 2011-12.

The breakup of revenue from different sources is indicated below:-

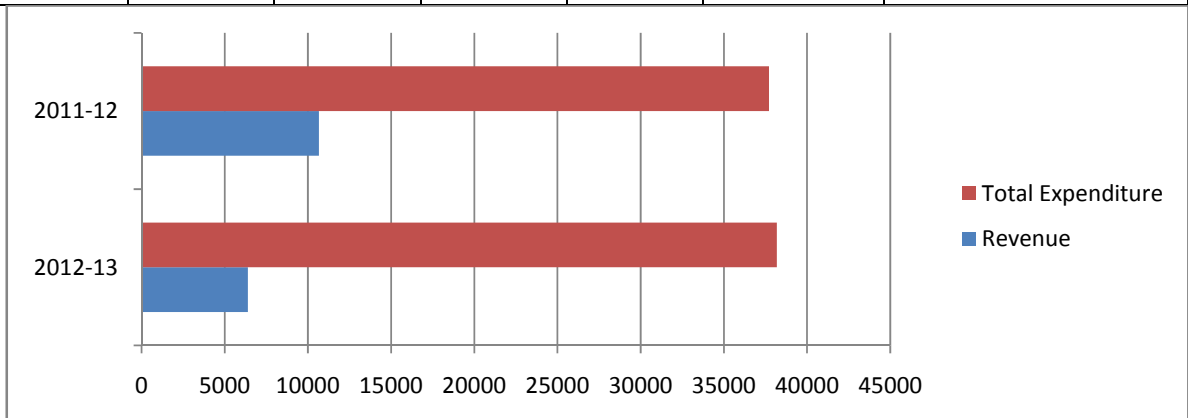
Source of revenue		Revenue (Rs. In Lac)	% of total revenue
01	Timber and other forest produce removed from forests by Govt. Agency.	36.88	0.58
02	Timber and other forest produce removed from forests by consumers/purchasers by HPSFDC	1263.77	19.78
03	Drift and Waif Wood	1.11	0.02
05	Timber and other forest produce removed from forests by consumers/purchasers other than HPSFDC	1969.04	30.81
06	Minor forest produce including medicinal plants	36.70	0.57
07	Grazing and Grass	13.23	0.21
	Miscellaneous Products	3069.00	48.03
	Total	6389.73	100.00



5.2 The comparative position of revenue and expenditure for the year 2012-13 compared to 2011-12 is given below:-

Expenditure (Rupees in lac)

Year	Revenue	Non-Plan	Plan	Capital Outlay	Total Expenditure	Surplus revenue over Non-Plan expenditure
2012-13	6389.73	22656.82	14922.98	595.52	38175.32	(-) 16267.09
2011-12	10654.48	23834.97	13350.25	522.47	37707.69	(-) 13180.49



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) :-

1 – Non-Plan Expenditure (Rs. in lac)

Year	Conservancy and works	Grant-in-Aid	Subsidy to HPSFDC	Estt.	Total
2012-13	1456.76	-	-	21200.06	22656.82
2011-12	1406.99	-	2544.35	19883.63	23834.97

II – Plan Expenditure (Rs. in lac)

Year	Conservancy and works	Grant-in-Aid	Subsidy to HPSFDC	Estt.	Total	Capital Outlay	Grand Total
2012-13	10682.59	218.00	-	4022.39	14922.98	595.52	15518.50
2011-12	11210.08	168.50	-	1971.67	13350.25	522.47	13872.72

The analysis of expenditure reveals that during the year, establishment accounted for 93.57% of Non Plan expenditure and 25.92% 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 2012-13 and 2011-12, for comparison:-

I – Non Plan Expenditure

Item of Expenditure		Amount (Rs. in lac)		Percentage	
		2012-13	2011-12	2012-13	2011-12
a.	Exploitation of Forests	71.12	67.65	0.32	0.28
b.	Communication & Buildings	12.08	12.00	0.05	0.05
c.	Organization, Improvement and Extension of Forests	1092.64	1061.15	4.82	4.45
d.	Other Items				
	1. Preservation of Wild Life	24.10	24.30	0.11	0.10
	2. Soil Conservation	256.82	241.89	1.13	1.02
	Total Conservancy and Works	1456.76	1406.99	6.43	5.90
	Grant – in – Aid	-	-	-	-
	Subsidies	-	2544.35	-	10.68
	Establishment	21200.06	19883.63	93.57	83.42
	Grand Total Non-Plan Expenditure	22656.82	23834.97	100.00	100.00

II – Plan Expenditure

Item of Expenditure		Amount (Rs. in lac)		Percentage	
		2012-13	2011-12	2012-13	2011-12
i.	Conservancy and Works	10682.59	11210.08	68.84	80.81
ii.	Grant- in- Aid	218.00	168.50	1.40	1.21

iii.	Establishment	4022.39	1971.67	25.92	14.21
iv.	Capital Outlay	595.52	522.47	3.84	3.77
	Total Plan Expenditure	15518.50	13872.72	100.00	100.00

5.4 The outstanding on account of revenue at the close of the year 2012-13 (31.3.2013) amounted to Rs. 55,93,59,990. The breakup of the amount is given below:-

	<u>(Amount in Rs.)</u>
1. Contractor Agency	3,51,96,276
2. Other Govt. Department.	26,60,920
3. H.P.S.F.D.C.L.	52,15,02,794
Total	55, 93, 59,990

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	61,53,855
2. Amount under A.L.R.	2,64,54,585
3. Amount under writing off cases	11,89,407
4. Amount recoverable at CFs/DFOs level	13,98,429
Total	3, 51, 96,276

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.

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. The Forest Department, to tackle forestry research issues of contemporary relevance in a focused way and to establish active liaison with the various research institutes, 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 biodiversity 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 of local relevance 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 Myrica esculenta (Kaphal): Propagation studies on Kaphal through seeds were carried out by using seven different treatments during 2012, viz., T₁= soaking in water for 12 Hr, T₂= soaking in hot water for 24 hr, T₃= Soaking in cold water for 24 hr, T₄= Alternate wetting and drying for seven days, T₅= stratification by keeping seeds in refrigerator for 15 days, T₆= keeping seeds in cow dung slurry for seven days, T₇= control (no treatment). The seeds were subsequently sown in polybags in open during June 2012. The results revealed that treating the seeds by alternate wetting and drying for seven days (T₄) gave maximum of 59% germination followed by treating the seeds with hot water for 24 hr T₂ (56%). Minimum 10% germination was observed under treatment with cow dung slurry for seven days following treatment of stratification 12%. Germination in control (T₇) was observed about 28%.

A trial on vegetative propagation of *Myrica esculenta* (Kaphal) by planting hard wood cuttings obtained from the middle portion of tree was also carried out. The hard wood cuttings of about 22.5 cm length and 1-1.5 dia were set in poly house during July, 2012 without giving any root hormonal treatments. All the cuttings failed to get primordial roots. The further trials were also replicated during 2013 and it was observed that T₄. alternate wetting and drying for seven days treatment had nearly 80% germination of seeds. The further trials would continue in the next years to conclude its nursery technology.

6.2.2 *Pyracantha crenulata*(Chotta Seb): Propagation studies on *Pyracantha* through seeds were carried out by raising the seeds in mist chamber, shade house and in open during March, 2012. Only sterilized river sand mixed with vermi compost were used as growing media. The result revealed that *Pyracantha* sown in mist chamber gave more germination followed by seeds sown in Shade House. The germination of *Pyracantha* sown in open gave very little germination.

6.2.3 Studies on the growth of seedlings raised in different sizes of Poly Bags:

Studies on the effect of raising plants in four different sizes of poly bags on the growth (Plant height and collar diameter) of *Albizia lebbek*, *Embllica officinalis* and *Syzygium cummini* were carried out during March-August 2013. Growth parameters were observed maximum in seedlings raised in poly bags of size 20"x30" followed by poly bags of sizes 15"x25" respectively. It was, therefore, revealed that appropriate size for raising tall plants for lantana infested areas is poly bags of size 20"x30".

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

- 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.
- Kanta Bans(*Bambusa bambos*) : 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.
- Nursery technologies of medicinal herbs like *Urariapicta* (Pith van), *Desmodium gangeticum* (Shalparni), *Acorcus calamus* (Bach), *Asparagus adscendens* (Shatwar), *Valeriana wallichii* (Mushkwala), *Gloriosa superba* (Kalahari), *Moringa oleifera* (sahjana), *Withania somnifera* (Ashva gandha) etc.

6.3 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 2012. 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. Three permanent plots have already been established in this zone. The MOU have been signed with HFRI to carry out base line survey of flora; phonological studies etc. Baseline floristic studies in progress. The Digital Data loggers to record temperature and humidity data at hourly intervals over the year affixed in these plots. During the year, various high altitude transition zones in Kinnaur, Chamba and Lahaul-Spiti districts were surveyed and sites for two more plots (one in Kinnaur and one in Chamba) were finalized.

6.4 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. Samples 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.

6.5 Germplasm Bank : A germplasm of important medicinal plants species of Indian Himalayan Region has been established at Karnody by constructing shade house and steel shed with transparent roofing. About 150 plant species are being maintained in the germplasm bank. The main objective of maintaining the germplasm is to display live sample of important trees/shrubs and herbs of western Himalaya under one roof for education purpose and also to conserve threatened plants species in ex- situ. About 150 species are being maintained in the germplasm including at least 15 threatened species of western Himalayas.

The new plants introduced in the germ plasm bank during the year include the following species:

<i>Scientific name</i>	<i>Common name</i>	<i>Family</i>
<i>Uraria picta</i>	Pith van	Fabaceae
<i>Desmodium gangeticum</i>	Shalparni	Fabaceae
<i>Arnebia benthamii</i>	Ratanjot	Boraginaceae
<i>Rheum australe</i>	Revandchini	Polgonaceae
<i>Moringa oleifera</i>	Sainjan	Moringaceae
<i>Rhododendron anthpogon</i>	Talishpatra	Ericaceae
<i>Myrica esculanta</i>	Kaphal	Myricaceae
<i>Cassiope fastigiata</i>	Dhoop	Ericaceae
<i>Skimmia anquetilia</i>	Nayar	Rutaceae
<i>Corylus jacquemontii</i>	Hazel nut/Thangi	Corylaceae
<i>Pinus gerardiana</i>	Chilgoza	Pinaceae
<i>Acer oblungum</i>	Maple	Aceraceae
<i>Prunus armeniaca</i>	Chuli	Rosaceae
<i>Angelica glauca</i>	Chora	Apiaceae
<i>Heracleum candicans</i>	Patrala	Apiaceae

<i>Asparagus filicinus</i>	Shatawar	Liliaceae
<i>Saussurea costus</i>	Kuth	Asteraceae
<i>Selinum vaginatum</i>	Bhutkeshi	Apiaceae
<i>Salvia moorcroftiana</i>	Thuth	Lamiaceae
<i>Picrorhiza kurrooa</i>	Karooa	Scrophulariaceae
<i>Taxus wallichiana</i>	Rakhal	Taxaceae
<i>Jasminum humile</i>	Pit multi	Oleaceae
<i>Malaxis acuminata</i>	Jeevak	Orchidaceae
<i>Malaxis muscifera</i>	Rishibhak	Orchidaceae
<i>Habenaria intermedia</i>	Ridhi- bidhi	Orchidaceae
<i>Habenaria edgeworthii</i>	-	Orchidaceae
<i>Crataeva religeosa</i>	Burnah	Capparaceae
<i>Olea cuspidata</i>	Jaitoon	Oleaceae

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	Chir	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			
	Rajgarh	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	
	Seraj/ Banjar		1	2	2	
	Lahoul					
Dharamsala	Dharamsala		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.

CHAPTER-VII

ADMINISTRATION

7.1 Administrative Charges: Shri R.K.Gupta,IFS continued to function as PCCF, H.P, throughout the year 2012-2013.

Shri R.K. Sood,IFS held the charge of PCCF (Wild Life), H.P up to 31.07.2012 and on his retirement Sh. S.B.Islam, IFS took over as PCCF (Wild Life),H.P w.e.f. 16.08.2012 to 13.03.2013. Thereafter Shri A.K.Gulati,IFS remained as such up to 31.03.2013.

Shri J.S.Walia,IFS held the charge of APCCF (CAT PLANs) up to 18.08.2012 thereafter Shri Arvind Kumar,IFS was posted as APCCF (CAT PLANs) up to 10.01.2013 and then Sh. S.S.Negi, IFS remained as such up to 31.03.2013.

Shri D.P. Sinha,IFS remained as CCF (FCA & Projects) O/o Pr.CCF, H.P up to 10.07.2012 and thereafter was promoted as APCCF on 11.07.2012 and remained as APCCF (Projects) up to 31.03.2013.

Shri Sanjeeva Pande,IFS continued to function as CCF (PAN & Bio-Diversity) up to 23.04.2012 and then CCF(GIM) up to 11.07.2012 and thereafter promoted as APCCF on 11.07.2012 and remained as APCCF(PFM & FDA) throughout the year 2012-13.

Shri Parveen Thapliyal,IFS remained as APCCF (Admn. & HRD) O/o Pr. CCF(WL), H.P up to 08.04.2012, APCCF (Wild Life) w.e.f. 09.04.2012 to 11.07.2012 and then posted as APCCF (PAN & Bio-diversity) and functioned as such throughout the year.

Shri S.S.Negi,IFS held the Charge of CCF (Administration) O/o Pr.CCF, H.P from 06.04.2012 to 10.07.2012 and then was promoted as APCCF on 11.07.2012 and remained as APCCF(Administration) up to 14.01.2013. Thereafter the charge was taken over by Shri Harsh Mitter on 04.02.2013 and remained as such up to 31.03.2013.

Shri Ajay Kumar,IFS continued to function as CCF(FCA) O/o Pr.CCF, H.P up to 02.08.2012 and then was promoted as APCCF on 03.08.2012 and functioned as APCCF(FCA) till 31.03.2013.

Smt. Savita,IFS held the Charge of CF (Project Training Institute & Publicity), O/o Pr. CCF, H.P up to 10.07.2013 and then was promoted as CCF on 11.07.2012 and APCCF on 03.08.2012 and functioned as CCF(HRD & TE) and ACCF(HRD & TE) respectively till 31.03.2013.

Shri Nagin Nanda, IFS held the Charge of APCCF(Leave Reserve) O/o Pr. CCF, H.P. from 01/2013 to 31.03.2013.

Shri P.K.Sinha, IFS held the Charge of APCCF (Forest Rules & Manuals) w.e.f. 08.01.2013 to 31.03.2013.

Shri Surinder Kumar, IFS continued to function as CCF (Finance & Planning) O/o Pr. CCF, H.P up to 02.08.2012 and thereafter was promoted as APCCF on 03.08.2012 and functioned as APCCF(Finance & Planning) till 31.03.2013.

Shri S.K.Sharma, IFS remained as CF, Shimla up to 18.06.2012, CF (Eco-Tourism) w.e.f. 25.06.2012 to 10.07.2012 and then promoted as CCF on 11.07.2012 and APCCF on 03.08.2012 and functioned as CCF(M&E) and APCCF(M&E) respectively till 31.03.2013.

Shri Vineet Kumar, IFS remained as CCF (Soil) up to 02.08.2012 and then was promoted as APCCF on 03.08.2012 and functioned as APCCF(Soil & LRM) up to 31.03.2013.

Shri Rajiv Kumar, IFS remained as CF(CAT&ES) w.e.f. 01.04.2012 to 12.07.2012 and then was promoted as CCF on 11.07.2012 and functioned as CCF(PF) till 31.03.2013.

Shri P.L.Chauhan, IFS, remained as CCF (Eco-tourism) w.e.f. 12.07.2012 to 31.03.2013.

The administrative charges of the Conservator of Forests of various circles and its equivalent 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	Anil Thakur, IFS	01.04.2012	31.03.2013
2.	Chamba	Dr. Suresh Kumar, IFS ARM Reddy, IFS	01.04.2012 01.08.2012	06.08.2012 31.03.2013 (CCF)
3.	Dharamshala	ARM Reddy, IFS Amitabh Gautam, IFS	01.04.2012 01.08.2012	31.07.2012 31.03.2013
4.	Kullu	Dr. Pavnesh Kumar, IFS G.C.Hosur, IFS	01.04.2012 29.01.2013	29.01.2013 (CF/CCF) 31.03.2013
5.	Hamirpur	Sameer Rastogi, IFS Pradeep Thakur, IFS	01.04.2012 06.08.2012	03.08.2012 31.03.2013
6.	Mandi	C.B.Pandey, IFS K.D.Sharma, IFS H.V.Kathuria, IFS	01.04.2012 22.07.2012 21.08.2012	21.07.2012 20.08.2012 31.03.2013

7.	Nahan	R.K.Gupta, IFS	01.04.2012	31.03.2013
8.	Rampur	Amitabh Gautam, IFS C.B.Pandey, IFS	01.04.2012 12.07.2012	19.07.2012 31.03.2013
9.	Shimla	S.K Sharma, IFS K.S.Thakur, IFS	01.04.2012 18.06.2012	18.06.2012 31.03.2013
10.	GHNP Shamshi	Ajay Srivastava, IFS	01.04.2012	31.03.2013 (CF/CCF)
11.	W.L Dharamshala	Rajesh. J. Ekka, IFS Dr. Suresh Kumar, IFS	01.04.2012 17.07.2012	16.07.2012 31.03.2013
12.	WL Shimla	Rakesh Sood, IFS	01.04.2012 12.07.2012	11.07.2012 (CF) 31.03.2013 (CCF)
13.	MIS	C.S.Singh, IFS R.Lalnunsanga, IFS	01.04.2012 16.07.2012	21.08.2012 28.02.2013

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:-

<u>S.No.</u>	<u>Name of Post</u>	<u>Sanctioned Strength</u>	<u>In-position</u>
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	31
7.	Other IFS Officers (CDR/SDR & Trg, Etc.)	41	35
8.	HPFS Officers	160	153
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	2	2
17.	Deputy Controller (F&A)	1	1
18.	Section Officer (F&A)	2	1
19.	Collector Forests	3	3
20.	Veterinary Doctor	5	4
21.	District Attorney	1	1
	<u>Total</u>	<u>316</u>	<u>299</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	3
8.	Computer	4	0
9.	Conductor	3	2
10.	Dandidar	2	2
11.	Depot Watcher	3	3
12.	Draftsman	9	2
13.	Driver/Bus/Van	83	76
14.	Electric Mechanic	1	1
15.	Electrician	4	4
16.	Head Draftsman	13	13
17.	Junior Draftsman	11	11
18.	Junior Engineer	7	7
19.	Kanungo	25	25
20.	Machine man	1	1
21.	Naib Tehsildar	8	7
22.	Operator Mechanic	1	1
23.	P.T.I	1	0
24.	Packer	1	1
25.	Patwari	16	16
26.	Photographer –cum- Artist	1	0
27.	Plumber	8	8
28.	Proof Reader	1	1
29.	Senior Lab. Technician	1	0
30.	Sr.Photographer	1	1
31.	Statistical Assistant	3	2
32.	Surveyor	5	2
33.	Taroos	3	3
34.	Technical Assistant	1	1
35.	Timber Watcher	3	3
36.	Truck Cleaner	4	4
37.	Veterinary Pharmacist	3	3
38.	Workshop Mechanic	1	1
39.	Distributor	1	1
40.	Senior Auditor	1	1
41.	Book binder	2	2
42.	Restorer	1	1
43.	Camel Cart Driver	1	1
44.	Mason	1	1
45.	Tractor operator	1	1
46.	Dispenser	1	1

47.	Lineman	1	1
	Total	3935	3578

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.	Gestetner 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	2393	2393
	Total	4717	4425
	G. Total	8968	8302

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.	<u>S/Shri/Smt.</u> T.S. Thakur, APCCF	APCCF(Lokayukta), Shimla	11.07. 2012 to 31.03.2013
2.	A.C. Sharma, APCCF	ED, HPSFDC, Shimla	05.03. 2010 to 31.03.2013
3.	B.D. Suyal, CCF	Spl. Secretary, MPP&P, H.P Govt.	9/2010 to 06.03.2013
4.	T.D. Sharma, APCCF	Project Director, Swan Project,	12.07.2011 to 31.03.13

		Una	
5.	Archana Sharma, CCF	Spl. Secy.(Ind.), H.P. Govt.	27.06.2011 to 31.03.2013
6.	H.S. Dogra, CCF	Dir.(N),HPSFDC, D/Shala	20.08.2011 to 31.03.2013
7.	Sanjay Sood, CF	Member Secretary, HPSPCB, Shimla	9/ 2011 to 31.03.2013
8.	H.K.Gupta, CF	Director (Envn., S&T) Shimla	14.02.2012 to 31.03.2013
9.	R. Lalnunsanga, CF	North Eastern Regional Office, MoEF(GoI), Shillong.	11.02.2013 to 31.03.2013
10.	S.K.Kapta, CF	Special Secretary, (IPH&H)	17.01.2013 to 31.03.2013

On Central Govt. Deputation

S. No.	Name of officer	Name of Offices	Since	Till
1.	S/Shri/Smt. H.S. Kingra	Spl. Off.CWG/Chairman & MD National Scheduled Castes Finance and Dev. Corp. , Delhi	7/2011	31.03.2013
2.	S.P. Vasudeva	Proj. Dir.(Proj.) Mgt.Unit, MoHA New Delhi	2/2012	31.03.2013
3.	Rakesh Kumar	Registrar, IIT Delhi	8/2010	31.03.2013
4.	V.R.R.Singh	Director, HFRI, Shimla	2/2012	31.03.2013
5.	V.K.Singh	Dir. MOL & Emp., New Delhi	10/2008	31.03.2013
6.	S.D.Sharma	ADG(M&E), ICFRE, D/Dun & CF, HFRI, Shimla	06/2009	31.03.2013
7.	Manoj Bhaik	CF, HFRI, Shimla	10/2007	31.03.2013
8.	Sushil Kumar	Dir.M/O Agr.&Coop, New Delhi	1/2012	31.03.2013
9.	Anu Sharma	Asstt. Prof. IGNFA, Dehradun	4/2007	31.03.2013
10.	Alok Prem Nagar	Asstt. Prof. IGNFA, Dehradun	4/2007	31.03.2013
11.	Kunal Satyarthi	Lect. SFS College, Dehradun	9/2009	31.03.2013
12.	S.S.Kataik	HFRI, Shimla	9/2010	31.03.2013
13.	Rajesh Sharma	AIGF, MOEF, New Delhi/Passport Officer, Shimla	7/2010	31.03.2013
14.	K.Thirumal	Dy.Dir.Regl.Off. UIDAI, Bangalore	3/2012	31.03.2013

The following HPFS Officers proceeded on deputation to other Departments / organizations mentioned against their name w.e.f. 1.4.2012 to 31.03.2013.

S.No.	Name of Officer	Deptt./ Organization	Date of deputation	
1.	S/Shri D.K.Khatta	DM, D/Shala	30.04.2012	31.03.2013
2.	Lalit Katoch	DM, Shimla	01.04.2012	31.03.2013
3.	Bansi Lal Verma	DM, Sawara	01.04.2012	31.12.2012
4.	Jang Bhadur	DM, Fatehpur	01.04.2012	31.03.2013
5.	N.S.Thakyal	DM, D/Shala	01.4.2012	28.02.2013

6.	Kishor Kumar	DM, Baddi	01.04.2012	31.03.2013
7.	Labh Singh Thakur	DM, Dhanotu	24.05.2012	31.03.2013
8.	K.K.Bhalla	DM, Kullu	23.08.2012	31.03.2013
9.	Surjeet Kumar	DM, Chamba	01.08.2012	31.03.2013
10.	L.R.Chauhan	DM (HQ), Shimla	01.04.2012	31.03.2013
11.	Ashok Kumar	DM, Rampur	01.04.2012	31.03.2013
12.	Rajeev Kumar	DM, Nuprur	19.03.2012	31.03.2013
13.	D.D.Aggarwal	DM, Mantaruwala	01.04.2012	31.03.2013
14.	V.P.Sharma	DM, Chopal	01.04.2012	31.03.2013
15.	Vipin Chand Sharma	DM, Mandi	17.03.2012	31.03.2013
16.	Amit Sharma	DM, Solan	27.08.2012	31.03.2013
17.	Hardeep Singh	DM, Nahan	01.09.2012	31.03.2013
18.	H.S.Mankotia	SDM, Baddi	20.02.2012	31.03.2013
19.	Gopal Singh Thakur	HFRI, Shimla	01.03.2012	31.03.2013
20.	Pradeep Bhardwaj	HFRI, Shimla	05.03.2012	31.03.2013
21.	N.P.Bharot	Director, S&T, Shimla	13.01.2012	31.03.2013
22.	R.K.Acharya	Dehradun	1.10.2011	31.03.2013
23.	Inder Kumar	MC, Shimla	3.07.2012	31.03.2013

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
during the year (01.04.2012 to 31.03.2013)**

S.No.	Name of Officer	Subject	Place of Training	Duration of Training
1.	S/Shri/Smt. Avtar Singh, CCF (FP&FC), Bilaspur	Environment Economics and Accounting	Environment Protection Training & Research Institute, Hyderabad	August 27- 31, 2012
2.	P.L.Chauhan, Special Secretary, (PWD)	Art of Interacting with Print and Electronic Media	Xavier Institute of Management, Bhubaneswar	August 27- 31, 2012
3.	Gita Ram Sahibi, CF(Soil)	Art of Interacting with Print and Electronic Media	Xavier Institute of Management, Bhubaneswar	August 27- 31, 2012
4.	R. Lalnunsanga, Director, (South)	GIS: A Decision Tool for Forestry Planning and Management	Indian Institute of Remote Sensing, Dehradun	August 27- 31, 2012

5.	Sameer Rastogi, Director(N), HPSFDC Ltd.	Natural Resource Management and Conflict Resolution	Administrative Staff College, Hyderabad	October 15-19, 2012
6.	Rajesh. J. Ekka, CF (Finance & Plg.)	Natural Resource Management and Conflict Resolution	Administrative Staff College, Hyderabad	October 15-19, 2012
7.	Basu Kaushal, DFO, Dharamshala	Human WL Conflict issues and Mitigation	WII, Dehradun	November 19-23, 2012
8.	Dev Raj Sharma DFO, Bilaspur	Conservation and Development of Medicinal Plants and Benefit sharing with Local Communities	KFRI, Peechi	November 19-23, 2012
9.	Anil Joshi DFO, Mandi	Conservation and Dev. of Medicinal Plants and Benefit sharing with Local Communities	KFRI, Peechi	November 19-23, 2012
10.	Rajesh Sharma, Passport Officer	Conservation and Dev. of Medicinal Plants and Benefit sharing with Local Communities	KFRI, Peechi	November 19-23, 2012
11.	S. D. Sharma ADG(M&E), Dehradun	Development of Clean Dev. Mechanism Projects under Land use, Change and Forestry Theory and Practice and their Relevance to Forestry Sector.	Amitv School of Natural Resources and Sustainable Dev., Noida	November 05-09, 2012
12.	Dr. Lalit Mohan MD, Handicraft & Handlooms, Kasumpti, Shimla	Valuation of Eco- System Services	Amitv School of Natural Resources and Sustainable Dev., Noida	December 03-07, 2012
13.	Abhilash Damodaran, DFO, Renukaji	Valuation of Eco- System Services	Amitv School of Natural Resources and Sustainable Dev., Noida	December 03-07, 2012
14.	H.S. Dogra, Director (N) HPSFDC, D/Shala	Bio-diversity Conservation and Sustainable Livelihood	IBRAD, Kolkata	December 10-14, 2012
15.	Anil Thakur, CF, Bilaspur	Bio-diversity Conservation and Sustainable Livelihood	IBRAD, Kolkata	December 10-14, 2012
16.	V. K. Babu, DFO, Nahan	Bio-diversity Conservation and Sustainable Livelihood	IBRAD, Kolkata	December 10-14, 2012

17.	K.D.Sharma, CF (WP), Central	Prevention, Detection and Investigation of WL Crime	Central Bureau of Investigation Academy, Ghaziabad	December 17-21, 2012
18.	Kirupasankar. M, DFO, Chamba	Prevention, Detection and Investigation of WL Crime	Central Bureau of Investigation Academy, Ghaziabad	December 17-21, 2012
19.	R.S. Patival, DM, Una	Workshop on Ecosystem Service- valuation and Policy Issues	A. P. Forest Academy, Dulapally, Hyderabad	November 1-2, 2012
20.	Ajay Kumar Lal, CCF- cum- EDI, HP, MHWDP, Solan	Environmental Impact Indicators and Valuation Techniques	Administrative Staff College, Hyderabad	January 7-11, 2013
21.	Sanjeeva Pande, APCCF (PFM & FDA)	Environmental Impact Indicators and Valuation Techniques	Administrative Staff College, Hyderabad	January 7-11, 2013
22.	Rakesh Sood, CCF, (WL) South, Shimla	Environmental Impact Indicators and Valuation Techniques	Administrative Staff College, Hyderabad	January 7-11, 2013
23.	S.D. Sharma, DCF, MHWDP, Solan	Total Quality Management	Xavier Institute of Management, Bhubaneswar	January 14-18, 2013
24.	Dr. Suresh Kumar, CCF, WL(N), Dharamshala	Illegal Trade in WL and its Protection Strategies, Intelligence Gathering Anti poaching strategies and the Role of WL Forensics in dealing with WL Crimes	WII, Dehradun	January 14-18, 2013
25.	S.C. Srivastava, MD. Himachal Pradesh Financial Corporation, Shimla	Eco-tourism vis-a-vis Conservation of Forests	Jungle Lodges and Resorts Ltd., Bangalore	Feb. 11-15, 2013
26.	Anil Vaidya, CF(CAT Plan)	Forest Certification Opportunities and Challenges	Indian Institute of Forest Management, Bhopal	February 18-22, 2013
27.	C.B. Pandey, CCF, Rampur	Bio-logical Record keeping Documentation and Bio-diversity valuation Principles	Centre for Forest and Natural Resource Management Studies, Andhra Pradesh	February 11-15, 2013
28.	P. D. Dogra, DFO (WL), Kullu	Bamboo Resource Dev. and Value Addition for Sustained Livelihood	Tripura Forest Dev. and Plantation Corp. Ltd. , Agartala	February 04-08, 2013

29.	Suresh Kumar, CCF (WL) North, Dharamshala	Management of Tropical Forests Issues and Challenges	KFRI, Peechi	January 07-11, 2013
30.	Sanjeeva Pande, APCCF (PFM & FDA)	Forest Certification: Opportunities and Challenges	IIFM, Bhopal	February 18-22, 2013
31.	K.S.Thakur, CF, Shimla	Bio-logical Record Keeping Documentation and Bio-diversity Valuation Principles	Centre for Forest and Natural Resource Management Studies, Andhra Pradesh	February 11-15, 2013

Foreign Training Programme & Mid Career Training Programme

S. No.	Name of Officer	Subject	Place of Training	Duration of Training
1.	S/Shri/Smt. Surinder Kumar CCF (Finance)	Profiling for Regional Learning on Reducing Emission from Deforestation and Degradation	ICIMOD. Kathmandu	28.05.2012 to 31.05.2012
2.	Vineet Kumar, APCCF (Soil & LRM)	Decentralization and Good Governance with a Gender Perspective	Sweden	17.09.2012 to 12.10.2012
3.	Dr. G.S. Goraya, APCCF (Research & Training), Sundernagar	Expert Consultation on Research and Management Priorities for High Altitude Range lands and their Interfaces	Pokhara, Nepal	10.12.2012 and 11.12.2012
4.	Rakesh Sood, CCF(WL) South, Shimla	Launch Workshop for the Preparation of the 2013 Snow Leopard Conservation Forum	Bishkek, Kyrgyz Republic	01.12.2012 to 03.12.2012

List of officer who have attended the Miscellaneous Training Courses

SNo.	Name of Officers	Subject	Place of Training	Duration of Training
1	S/Shri/Smt. Abhilash Damodaran IFS	Joint Training 'Challenges of Forest Conservation and	IGNFA, Dehradun	29 .05. 2012 to 01.06. 2012

	DFO, Renukaji	Rule of Inter-departmental Co-ordination		
2	Ajit Thakur, IFS DFO Suket	Green India Mission & its Imperatives	IGNFA, Dehradun	17.07.2012 to 20.07.2012
3	V.K.Babu, IFS DFO, Nachan	Five Day Seminar on National Security	National Police Academy, Hyderabad	23.07.2012 to 27.07.2012
4	Dev Raj, IFS DFO, Bilaspur	Poverty Alleviation Through Forestry Programme	IGNFA, Dehradun	11.09.2012 to 14.09.2012
5	R. S. Baniyal, IFS CF (WP) North, Palampur	Climate Change and Drought Risk Management	New Delhi	24.09.2012 to 28.09.2012
6	Y. P.Gupta. IFS (WP) South, Solan	Climate Change and Drought Risk Management	New Delhi	24.09.2012 to 28.09.2012
7	L. C.Patiyal, HPFS, DWDO MHWDP, D/shala	Climate Change and Drought Risk Management	New Delhi	24.09.2012 to 28.09.2012
8	Y.P. Gupta. IFS, CF (WP) South, Solan	TQM in Governance	LBSNAA , Mussorie	05.11.2012 to 09.11.2012
9	Rajeev Kumar, IFS CF (PF/IT)	National Workshop on Forest Conservances in the context PFS & FRA	Tai Palace Hotel, Bombay	30.01.2013 and 31.01.2013
10	D.S. Dadwal, HPFS ACF(WL) North, Dharamshala	Wetland meet Organized by ATREE CERC	Alappuzha, Kerala	03.03.2013 to 05.03.2013
11	Devender Chauhan RFO, Spiti	Wetland meet Organized by ATREE CERC	Alappuzha, Kerala	03.03.2013 to 05.03.2013
12	Shobh Ram RFO, Renukaji	Wetland meet Organized by ATREE CERC	Alappuzha, Kerala	03.03.2013 to 05.03.2013
13	G.R. Sahibi, IFS CF (Soil)	Application of Rock Mechanics in Tunnel Construction	Hotel Holiday Home, Shimla	04.03.2013
14	Anil Vaidya, IFS CF(CAT Plan)	Application of Rock Mechanics in Tunnel Construction	Hotel Holiday Home, Shimla	04.03.2013
15	Nagesh Guleria, IFS CF(P&L)	Application of Rock Mechanics in Tunnel Construction	Hotel Holiday Home, Shimla	04.03.2013

16	A.C.Sharma, IFS APCCF (M&E)	Application of Rock Mechanics in Tunnel Construction	Hotel Holiday Home, Shimla	04.03.2013
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7.5 Retirement: The following IFS, HPFS and other officers retired during the year, from the dates mentioned against their names:-

S/Shri/smt.

IFS

1.	R.K.Sood	PCCF (WL) Shimla	31.07.2012
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HPFS

1	J. C.Mandla	DM, Chamba	31.05.2012
2	Amar Singh Thakur	DM, D/Shala	31.05.2012
3	Nand Lal	ACF, Dehra	30.06.2012
4	Sushil Modgil	DFO(HQ), Bilaspur	30.06.2012
5	Narender Lal Negi	ACF, (CAT Plan) Nichar	30.06.2012
6	B.L.Verma	DM, Sawra	31.12.2012
7	Birbal	SDM, Hamirpur	31.12.2012
8	Vinod Kumar Thapa	ACF, Hamirpur	30.09. 2012
9	Prem Dutt Vashist	ACF, Parvati	30.09. 2012
10	R.S.Jaswal	ACF, Una	31.12.2012
11	Din Dyal Verma	ACF, Nahan	Voluntary Retirement on 31.08.2012
12	Kishore Kumar Thakur	DWDO, Mandi	Voluntary Retirement on 31.08 2012
13	S. K. Vashist	DM, Hamirpur	31.01.2013
14	N.S Thakyal	DM, D/Shala	28.02.2013
15	Ram Nath	DFO (WP), Mandi	31.03.2013
16	Ajay Kumar	DFO, Paonta	31. 03.2013

Registrar

1.	Non Singh Negi	O/o PCCF, HP	31.07.2012
2.	Vinod Kumar Sharma	O/o PCCF, HP	28.02.2013

Assistant Engineer

1.	K.K. Sood	O/o CF, Shimla	31.01.2013
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Supdt G-I

1.	Sushil Sharma	O/o CCF (Eco- Tourism)	30.06.2012
2.	Kanta Devi	O/o PCCF, HP	30.06.2012
3.	Puran Chand	O/o CF Mandi	31.08.2012
4.	Shakuntla Vaid	O/o CF (WL), D/Shala	31.10.2012
5.	Pyare Lal Sharma	O/o PCCF, HP	30.11.2012
6.	Rameshwar Singh	O/o CF, Hamirpur	30.04.2012
7.	Pawan Kumar	O/o PCCF, HP	31.01.2013
8.	Chaudhary Ram	O/o CCF (Eco-Tourism)Shimla	30.09.2012

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

Sr. No.	Officers/officials	Retired	Terminated	Suspended	Died	Dismissed
1.	2.	3.	4.	5.	6.	7.
1.	Naib Tehsildar	1	-	-	-	-
2.	Kanungo	3	-	-	-	-
3.	Forest Ranger	35	-	-	-	-
4.	Supdt. G-II	15	-	-	-	-
5.	Deputy Ranger	82	-	3	2	-
6.	Senior Assistant	8	-	-	1	-
7.	Sr. Scale Photographer	1	-	-	-	-
8.	Junior Assistant	-	-	-	1	-
9.	Forest Guard	30	-	5	5	-
10.	Clerk	1	-	-	-	-
11.	Driver	1	-	-	-	-
12.	Daftri	2	-	-	-	-
13.	Jamadar Peon	1	-	-	1	-
14.	Peon	8	-	-	3	-
15.	Mali	6	-	-	-	-
16.	Chowkidar	13	-	1	1	-
17.	Sweeper	1	-	-	1	-
18.	Forest Worker	79	-	2	4	-
19.	Dak Runner	1	-	-	-	-
20.	Animal Attendant	1	-	-	1	-
Total		289	-	11	20	-

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	13107.44	13106.49
	Tribal	633.98	632.99
2.	Wildlife		
	Non-Tribal	361.00	360.99
	Tribal	82.00	82.00
	Total State Sector	14184.42	14182.47
B- CENTRAL SECTOR			
1.	Forestry Programme		
	Non-Tribal	299.28	299.28
	Tribal	-	-
2.	Wildlife		
	Non-Tribal	216.42	216.42
	Tribal	131.03	131.03
	Total Central Sector	646.73	646.73
	Total Forestry & Wildlife (Including Grants-in-aid)	14831.15	14829.20
SOIL CONSERVATION SCHEMES			
A-STATE SECTOR			
1.	Protective Afforestation Soil Conservation & Demonstration		
	Non-Tribal	195.00	195.00
	Tribal	34.32	34.32
2.	Macro-management of Agriculture		

	Supplementation/complementation of State through work plans		
	Non-Tribal	49.00	49.00
	Tribal	-	-
	Total State Sector	278.32	278.32
	B-CENTRAL SECTOR		
	Macro-management of Agriculture Supplementation/complementation of State through work plans		
	Non Tribal	411.16	410.98
	Tribal	-	-
	Total Central Sector	411.16	410.98
	Grand Total Forestry, Wildlife, Soil Conservation & Grants- in- aid	15520.63	15518.50

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 Direction and Administration:

This is a staff oriented ongoing scheme since previous plans to have the management needs identified and administration strengthened. After rationalization of the schemes and to achieve better and effective result, the staff which was earlier charged in concerned schemes now will be charged under this scheme as per approval of the Government.

8.2.2 Forest Research and Training:

With increasing pressure on the forests, applied research in the forestry is gaining significance. Establishment of seed stand, preservation plots and bio-sphere reserves etc. are among the various activities taken up under this scheme.

8.2.3 Forest Conservation and Development:

- a) **Survey and Demarcation:** In order to eliminate chances of illicit felling and incidence of encroachment due to ill defined boundaries, the forests are to be demarcated by fixing boundary pillars. The survey operations as envisaged under this scheme are to be carried out.

- b) ***Forest Protection:*** Protection of forests under the increasing biotic pressure becomes more significant. To ensure this and protecting the forests from fires an effective and adequate infrastructure needs to be developed.
- c) ***Working Plan Organization:*** For scientific forestry and systematic management of the forests, revision and updating of working plans is an important prerequisite to achieve the goal. All efforts are being made to revise the working plans.

8.2.4 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 161 ha. at a cost of Rs. 40.00 lacs during the year.

8.2.5 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 2012-13, an amount of Rs.2212.68 lacs has been utilised on different activities.

8.2.6 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 1081.65 lacs was provided during the year 2012-13 for raising plantations and other works over an area of 3465 ha.

8.2.7 Sanjhi Van Yojna:

The scheme would have long term implications in improving planning and management skills of the communities and staff which would be visited by a process approach. Like in HPFP, under SVY, Joint Forest Management Committees (JFMCs) have been established to institutionalize people's participation in forest management. The commitment and awareness shown by the communities and its people would determine the progress. It would thus need to be monitored against milestones in developing the inherent authority of people's power and its effect on more equitable and sustainable use (conservation) of natural resources in general and forest products in particular. Thus flexibility of approach would be the cornerstone in building the edifice of the scheme. 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 2012-13, a sum of Rs 17.10 lac has been utilized for raising plantation and other activities over an area of 17 ha.

8.2.8 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 2012-13 under report, a sum of Rs. 5.68 lacs was spent for raising chilgoza plantation and other activities over an area of 13 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.35.00 crores has been proposed for the financial year 2012-13. 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 2012-13, a sum of Rs. 3500.16 lac has been spent on plantations and other activities.

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 2012-13, an amount of Rs.3500.29 lacs has been spent on different Works.

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 animals in protected areas to reduce the man animal conflict. During the year, an amount of Rs. 116.00 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. 65.99 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 awareness for wildlife and nature conservation. Equipments like projectors, films, camping Equipments etc. are purchased. An amount of Rs. 216.42 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 2012-13, Rs. 21.32 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 496 ha. besides a large number of other soil conservation works. During the year, inclusive of establishment Rs.229.32 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 Schemes 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. 459.98 lacs has been spent under the scheme for the year 2012-13 during the year.

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 Manali, 1 Rescue & Re-habilitation Centre at Tutikandi, Shimla and 1 Bird Park at Shimla.

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 Additional Principal Chief Conservator of Forests (PAN & Bio-Diversity) and One Divisional Forest Officer (Headquarters), three Chief 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 and Spiti Division at Kaza, 32 wild life Ranges, 67 Blocks and 193 Beats in protected areas. The Zoo & Rescue Division, Shimla existed up to 30.09.2012. 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 Mahatma Gandhi. The 58th 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 Development Corporation Limited 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 200852 m³. Besides 1527898 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 jingles from AIR and DD spot from Doordarshan Kendra, exhibitions, published materials, electronic & print-media etc. During the year one International level exhibition was also arranged. The amount spent on these activities was Rs. 37.74 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 17.34 m³ volume of timber was utilized as raw material by WBI unit Shamshi. 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 2012-13 are tabulated below: -

TABLE: 9

Plantations raised under various schemes

Name of Schemes	Physical Achievement	Area in (ha.)
		Remarks

1. Pasture Improvement	195.65
2. Improvement of Tree Cover Aff.	1634.60
3. Enrichment Planting	1369.63
4. Re-afforestation of Scrub Areas	715.60
5. Re-generation of Chilgoza Pine	12.99
6. 13 th Finance Commission Afforestation	522.00
7. Sanjhi Van Yojna	17.00
8. Soil Conservation State Plan	567.00
9. Backward Area Sub Plan	477.72
10. FDA	1352.25
11. Compensatory Afforestation	1169.87
12. CAT Plan	1333.93
13. Macro Management. (RVP)	615.00
14. NMPB	668.00
15. Assisted Natural Regeneration	29.00
16. National Bamboo Mission	527.00
17. MHWDP, Solan	352.51
18. PD Swan, Una	2444.03
19. Assistance to State for Dev. of Sanctuary	41.00
20. Other schemes	524.55
Total	14569.33

Note:- Grass Tufts planted in 436 ha.

9.8 Forest Based Industry:

There are resin processing units functioning in private sector in Hamirpur Circle particularly in Una Division of Una District and Dehra Division of Kangra District 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:

9.9.1 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 3.8.2009.

9.9.2. The HP State CAMPA comprises the following bodies:

- 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)]

9.9.3 The CAMPA funds constitute all the FCA levies of Catchment Area Treatment (CAT) Plans, Compensatory Afforestation (CA), Rim Plantation, Wild Life Management Plans (WLMPs), Net Present Value (NPV), Soil & Water Conservation Plans (S&WC), Reclamation Plans and/ or any other Plan (s), realized from the user agencies, in compliance to the condition(s) stipulated by MoEF, GoI while according approval for the diversion of Forest Land for non-forestry purposes under Forest Conservation Act (FCA), 1980.

9.9.4 The funds are provided to the field agencies for the execution of works of Catchment Area Treatment (CAT) Plans, Compensatory Afforestation (CA), Rim Plantation, Wild Life Management Plans (WLMPs), Net Present Value (NPV), Soil & Water Conservation Plans (S&WC), Reclamation Plans as per APOs approved by State CAMPA. The works of all the above said sectors, except NPV, are scheme specific and are executed as per approved schemes/plans. Under NPV the activities of Natural Assisted Regeneration, Forest Management and Protection, Infrastructure Development and Bio-diversity Management and Protection etc. are undertaken.

9.9.5 A total amount of Rs.806.15 crore approximately (as on 31.03.2012) is at the credit of Himachal Pradesh State with Ad-hoc CAMPA GoI. As per the Supreme Court orders dated 10th July 2009, the Ad-hoc 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.

9.9.6 Based on the total accumulation of Rs. 806.15 crores in the share of HP State as on 31.03.2012 and also in pursuance to orders of Hon'ble Supreme Court of India, the Ad-hoc CAMPA, GoI released an amount of Rs. 52.40 crore during 2012-13 as legitimate release to the HP State CAMPA.

9.9.7 The HP State CAMPA – Steering Committee has approved following APOs for 2012-13:-

1. CAT Plans	Rs. 26.70 crore
2. NPV	Rs. 19.00 crore
3. CA	Rs. 6.70 crore
4. Rim Plantation	Rs. 5.02 crore
5. WLMPs	Rs. 4.24 crore
6. S&WC Plans	Rs. 0.32 crore
7. Reclamation Plan	Rs. 0.18 crore
Total	Rs. 62.16 crore

The HP State CAMPA has utilized an amount of Rs. 47.24 crore during 2012-13.

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>
2012-13	3182164	369000	3551184
