



## Annual Administrative Report 2013-2014



Tshering Wangdi Lepcha  
Minister  
Forest, Environment and Wildlife  
Management Department  
Government of Sikkim

### Message

The Centre and State Governments are instrumental for formulating policies and programmes for protection and conservation of natural resources for sustainable ecosystem. The rules, regulation, directives and guidelines relating to environment, forests and wildlife are implemented by the FEWMD.

Various innovative initiatives taken up by the State Government to create awareness on environment, wildlife and forests are commendable and have pitchforked the State into national and international recognition.

I am pleased to convey that the State Government's policies have resulted in tangible outputs with significant tree cover, and enhancement of forest cover of 3.5 percent since 1995. Thus, Sikkim is proactive and plays a leading role in terms of environment, forest and wildlife conservation across the country and globally.

Further, I am pleased to state that the Forest, Environment and Wildlife Management Department, Government of Sikkim is publishing the annual administrative report 2013-2014 for record and circulation of information to public.

Date: 15.03.2016

Tshering Wangdi Lepcha  
Minister  
Forest, Environment and Wildlife Management Department  
Government of Sikkim



Dr. Thomas Chandy, I.F.S  
**Principal Secretary -cum- PCCF**  
**Forest, Environment and Wildlife**  
**Management Department**  
**Government of Sikkim**

### **Message**

Sikkim is bestowed with tremendous biodiversity, and its estimated tree cover as per the Forest Survey of India Report 2013 is 5388 square kilometer tree cover. Sikkim is also the best covered state in terms of its Protected Area network having 30.77% in terms of the geographic area of the State, and 37.37% in terms of total recorded forest area of 5841.39 sq.kms. It is the highest and best covered State in PA network in the country today.

As you are aware, Sikkim has 5841.39 square kilometers as recorded forest area, and estimated 5388 square kilometer tree cover in 2013 in Sikkim is a good indicator of quality forest management.

The State Government is committed to protect and conserve bio-diversity resources, and maintaining natural habitats in different biogeographical zones. The Forest, Environment and Wildlife Management Department has initiated several valuable activities for carbon sequestration, improving quality of air, environment, greenery development and such other education programmes to impart quality services.

The annual administrative report of 2013-2014 reflects the activities and measures taken up by Forest, Environment and Wildlife Management Department, Government of Sikkim for conservation, protection and expansion qualitative forests.

Further, I am happy to convey that the Forest, Environment and Wildlife Management Department is publishing the annual administrative report 2013-2014 for record and circulation of information to public.

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## **EXECUTIVE SUMMARY**

The Forest, Environment and Wildlife Management Department is the administrative department for managing the forest areas of Sikkim which has 82.31% of geographical area. The mandate of Forest, Environment and Wildlife Management Department is to conserve, protect, and expansion of forest and environment activities in the state, and contribute to the nation and the world.

There are many sectors in FEWMD, GOS to cater to the different services for conservation, protection and expansion of forestry and allied activities. The department is headed by the Principal Secretary-cum - PCCF of Forest, Environment and Wildlife Management Department of Government of Sikkim .

Flora and Fauna of rare, threatened and endangered species of long and short gestations of Sikkim are conserved and preserved as biobank in Sikkim. Habitat improvement and such other extension activities are worthwhile to record. Sikkim, a part of biodiversity hotspots of Eastern Himalayas, houses many rare, endangered and threatened species , and thus has responsibility to provide ecosystem services to the nation and the world. Many sectors are working for collective results enabling good forestry and its maintenance.

Sikkim has 5841.39 square kilometers recorded forest areas, and estimated 5358 square kilometer tree cover in Sikkim, and is a good indicator of quality forest management as per Forest Survey of India, 2013. The activities of FEWMD, GOS reflects a commitment to protect and conserve bio-diversity resources maintaining natural habitats in different biogeographical zones. The Forest, Environment and Wildlife Management Department, Government of Sikkim initiated several valuable activities for carbon sequestration, improving quality of air, environment, greenery development, and such other education programmes to impart quality services. Furthermore, Sikkim has dedicated 30.77 % of protected Area Network for habitat maintenance, animal corridor and expansion activities for qualitative results.

In addition, Khangchendzonga National Park dossier was submitted to UNESCO for inscription in World Heritage Site. Wildlife and nature Conservation has become worldwide priority sector now-a-days, National Parks and Sanctuaries which act as *sanctum sanctorum* have been commissioned all over the world for better protection and conservation of wildlife. India with the total forest cover of 77.47 million hectares which is 23.57 % of the total land mass of 328.7 million hectares is treasure trove of natural wealth, and is one of the 12 mega bio-diversity countries of the world. There are 606 Protected Areas comprising 96 National Parks and 510 Wildlife Sanctuaries with overlapping of 28 Tiger Reserves and 25 Elephant Reserves covering an area of 15.59 million hectares which make up



about 4.58% of the total geographic area and 22.12% of total forest cover of the country. In addition to this, there are 150 recognized Zoological Parks having around 40,000 wild animals in captivity in the country. The Wildlife (Protection) Act, 1972 is the umbrella legislation for wildlife conservation in the country.

The State Government notified the details of the Khangchendzonga Biosphere Reserve having Area of Core Zone 1784.00 Km<sup>2</sup>, Area of Buffer Zone 835.92 Km<sup>2</sup> and (c) Area of Transition zone 311.20 Km<sup>2</sup>. The proposed World Heritage site has total area of KBR including Core, Buffer and Transition zone is 931.12 Km<sup>2</sup>.

The State Government has put forward many plans for the efficient uses of natural resources. In regard thereto, many schemes, planning and such measures like Forest Plus Project initiated for Sikkim Landscape. Survey, up-gradation and trainings, workshop, scientific methodologies are the tools of Forest, Environment and Wildlife Management Department for qualitative results estimation. Some of ancillaries activities carried by FEWMD, GOS are Distribution of Sal Timber to REDRH beneficiaries, Habitat characterization, sensitization programme, Ex-gratia payment and compensation for crop damage and human injury by wild animals, Mobilization of rescue team, Problem mitigation for wild animals in suburban areas, Awareness programme, establishment of Interpretation Centre, technical civil works, research and analysis, trainings, awareness programme, workshops, conferences, and such other.

In the line of above, FEWMD is adopting new methods and approaches with new ideas evolved through management, research and development for catering qualitative results on biodiversity. As FEWMD, GOS is a dedicated department for the conservation of forests, wildlife and environment and for matters connected therewith or ancillary or incidental thereto.



**A BRIEF WRITE UP ABOUT ADMINISTRATION SECTION OF FOREST, ENVIRONMENT & WILDLIFE MANAGEMENT DEPARTMENT FOR THE REPORTING YEAR 2013-2014**

In the Administration Highrarke, the Department is headed by Principal Secretary-cum-PCCF and assisted by the officers of the rank of Special Secretary (IAS), Joint Secretary, Deputy Secretary & Under Secretary. They are supported by Office Superintendents, Head Assistants, Upper Division Clerks, Lower Division Clerks and other numerous Group 'D' Staff . The Administration Section mainly deals with the matters pertaining to general and personal administration. Under the General Administration functions like management of Estate (entire compound Forest Secretariat, Deorali) , Movable and Immovable Assets of the department, like buildings, furniture and fixture, Vehicles, etc.. To coordinate with the sectional heads of circles and divisions with regard to matters of general administrative nature, daily attendance, causal leave account, communicate various directions and activities of the department as well as notifications, circulars and office orders issued by the government in time to time.

Under the personal administration the functions like maintenance of various records of officers and staff of the department. The personal files of the members of Sikkim State Subordinate Forest Service, Sikkim State Subordinate Ministerial & Executive Service, Sikkim State Subordinate Accounts Service and other unorganized isolated services like Sericulture, State Pollution Control Board (SPCB), ENVIS, State Bio-diversity Board(SBB), etc. functioning under the Sikkim Forest, Environment & Wildlife Management Department.

The other personnel management such as maintenance and updating of Sikkim State Subordinate Forest Service (Cadre) rules, Recruitment and training of new members (Range Officer, Block Officer, Head Forest Guard and Forest Guard) under Sikkim Forest Subordinate Service. The posting of the new recruits as well as the transfer and posting of other senior members of the said service is undertaken by the Administrative Section. The Maintenance of leave account, grant of Annual Increment, Leave Encashment, Advancement Grade/Assured Career Progression (ACP), Promotions and Retirement of all group 'C' and 'D' employees of the department is also done by the same section.

The disciplinary action is also taken under The Sikkim State Subordinate Forest Service (Discipline and Appeal) Rules, 2006, for the members of the Sikkim State Subordinate Forest Service and The Sikkim Government Servants' (Discipline & Appeal) rules, 1985, for the members of the other subordinate (organised / isolated) services in the department. The all cases pertaining to administrative nature under Right To Information Act, 2005 (RTI) is also dealt by the Administrative Section in coordination with the Nodal SPIO of the department. In addition to that a personal detail of



the individual gazetted officers' of the department is also maintained in their part files for their record and reference.

Among the important achievement of the department the administrative section was successful to screen out 235 various categories of temporary employees (Muster Roll, Adhoc, Work-charged, etc.) under group 'C' and 'D' and submit the proposal to the government for their regularization, who had put in more than 15 years of temporary service.

The total work force of the department with their category is at Annex-I.



Detail of Total work force of the department during Reporting year: 2013-14

SL. No	IFS CADRE	DESIGNATION	IN POSITION
I	01	PCCF-cum-principal Secretary	01
	05	Chief Conservator of Forest	01
	06	Conservator of Forest	04
	09	Divisional Forest Officer	02
	04	On Central Deputation	10
	03	On State Deputation	06
<b>TOTAL IFS (GAZETTED)</b>		<b>=30</b>	
SFS CADRE			
II	01	Principal Director	01
	02	Director	01
	03	Additional Director	-
	04	Joint Director	04
	05	Divisional Forest Officer	42
	06	Assistant Conservator	72
<b>A.</b>	<b>GAZETTED</b>		<b>= 120</b>
	01	Range Officer	92
	02	Block Officer	70
	03	Head Forest Guard	153
	04	Forest Guard	162
	<b>B. NON-GAZETTED</b>		<b>= 477</b>
<b>TOTAL A+B</b>			<b>= 597</b>
SERICULTURE DIRECTORATE			





III	01	Principal Director	-
	02	Additional Director	01
	03	Deputy Director	01
	04	Assistant Director	01
	<b>A. GAZETTED</b>		<b>=03</b>
	01	Sericulture Range Officer	01
	02	Sericulture Block Officer	01
	<b>B. NON-GAZETTED</b>		<b>= 02</b>
<b>TOTAL A+B = 05</b>			

IV	STATISTICAL SERVICE		
	01	Joint Director	-
	02	Deputy Director	01
	03	Assistant Director	01
	<b>A. GAZETTED</b>		<b>= 02</b>
	04	Statistical Officer	06
	05	Statistical Inspector	01
	07	Statistical Investigator	-
	<b>B. NON-GAZETTED</b>		<b>= 07</b>
	<b>TOTAL A+B = 09</b>		
V	FINANCE AND ACCOUNTS SERVICE		
	01	Additional Director	01
	02	Chief Accounts Officer	01
	03	Sr. Accounts Officer	01
<b>A. GAZETTED</b>		<b>= 03</b>	



	04	Senior Accountant	05
	05	Accountant	16
	06	Junior Accountant	08
	07	Accounts clerk	02
	<b>B. NON-GAZTTED</b>		<b>= 31</b>
	<b>TOTAL A+B = 34</b>		
	STATE CIVIL SERVICE		
VI	01	Additional Secretary	01
	02	Deputy Secretary	01
	03	Under Secretary	01
	<b>A. GAZETTED</b>		<b>= 03</b>
	05	Office Superintendent	03
	06	Head Assistant	08
	07	Upper Division Clerk	33
	08	Lower Division Clerk	52
	<b>C. NON-GAZETTED</b>		<b>= 96</b>
	<b>TOTAL A+B = 99</b>		

	OTHERS		
	01	Principal Scientist	02
	02	Principal Research Officer	01
	03	Scientist ' B'	01
	04	Senior Scientist Officer	01
	05	O.S.D/ASO	01
	06	Assistant Engineer	02



VII		(Civil)	
	07	Assistant Engineer (Environment)	01
<b>A. GAZETTED</b>		<b>= 08</b>	
	08	Senior Technical Assistant	03
	09	Cartographer	01
	10	Surveyor	01
	11	Assistant Engineer (Civil)	01
	12	Draughtsman	03
	13	Tracer	02
	14	Junior Engineer (Civil)	01
	15	Tally Clerk	01
	16	Sub-Inspector Wireless	01
	17	Supervisor	04
	18	Junior Lab Assistant	01
	19	Bearer	01
	20	Chowkidar	25
	21	Cook	-
	22	Peon	66
	23	Mali	17
	24	Driver	58
	25	Pipe Fitter	01
<b>B. NON-GAZETTED</b>		<b>= 187</b>	
<b>TOTAL (Other A + B)=</b>			<b>195</b>



STENOGRAPHER SERVICE			
VIII	01	Principal Private Secretary	-
	02	Senior Private Secretary	01
	03	Private Secretary	02
	<b>A. GAZETTED = 03</b>		
	04	Stenographer	03
	<b>B NON-GAZETTED</b>		
	<b>TOTAL A+B= 06</b>		

**ABSTRACT:**

SL.NO	PARTICULARS	IN POSITION
1	TOTAL GAZETTED OFFICERS	170
2	TOTAL NON-GAZETTED EMPLOYEES	1038
3	WORK-CHARGED EMPLOYEES	11
4	TOTAL MUSTER ROLL EMPLOYEES	747
	<b>GRAND TOTAL = 1966</b>	



STATISTICS OF SIKKIM FORESTRY

1.0 Land Use Pattern

Land Use	Area in '000 ha	Percentage
Total Geographical Area	710	
Reporting area for land utilization	693	100
Forests	584	84.31
Not available for cultivation	11	1.54
Permanent pastures and other grazing lands	0	0
Land under Misc. Tree crops and grooves	8	1.13
Culturable wasteland	3	0.48
Fallow lands other than current fallows	4	0.65
Current fallows	4	0.65
Net area sown	77	11.17

Source : Land use Statistics , Ministry of Agriculture, GOI, 2012-13

1.1 Area Statistics Of Sikkim (In Sq Kms)

Sl. No.	CLASS	RESERVE FOREST	RE VENUE BLOCK	TOTAL	%OF TOTAL
1	CROP LAND (TERRACED/SEMI TERRACED)	0.00	604.85	604.85	8.52
2	FALLOW/SCRUB IN REVENUE BLOCKS	0.00	155.69	155.69	2.19
3	SAL DENSE FOREST	5.30	0.77	6.07	0.09
4	SAL OPEN FOREST	15.93	1.54	70.47	0.25
5	SAL DEGRADED FOREST	3.32	0.71	4.03	0.06
6	MIXED DENSE FOREST	464.46	138.88	603.34	8.50
7	MIXED OPEN FOREST	433.37	333.38	766.75	10.81
8	MIXED DEGRADED FOREST	194.56	235.06	429.62	6.05
9	DENSE CONIFER FOREST	351.94	16.14	368.08	5.19
10	OPEN CONIFER FOREST	340.63	21.55	362.18	5.10
11	DEGRADED CONIFER FOREST	156.89	16.30	173.19	2.44
12	OAK - RHODODENDRON FOREST	100.34	26.24	126.58	1.78
13	SCRUBS IN RESERVE FOREST	101.87	0.00	101.87	1.44



14	FOREST BLANKS	90.56	0.00	90.56	1.28
15	ALPINE SCRUB	611.44	27.72	639.16	9.01
16	ALPINE PASTURES	431.32	0.00	431.32	6.08
17	ALPINE BARREN	815.80	2.35	818.15	11.53
18	SNOW	1018.23	5.41	1023.64	14.43
19	GLACIERS	208.23	0.00	208.23	2.93
20	LAKES	32.30	0.70	33.00	0.47
21	RIVERS/MAJORS STREAMS	31.81	32.50	64.31	0.91
22	DRY RIVER BEDS	31.49	9.10	40.59	0.57
23	BUILT-UP AREA	0.30	3.24	3.54	0.05
24	LAND SLIDE AREAS	5.37	5.16	10.53	0.15
25	MISCELLANEOUS	6.93	6.30	13.23	0.19
	<b>TOTAL</b>	<b>5452.39</b>	<b>1643.59</b>	<b>7095.98</b>	<b>100.00</b>

### 1.2 Forest Cover within Green Wash

Forest Cover within Green Wash	
Very Dense Forest	390 sq km
Moderately Dense Forest	1,323 sq km
Open Forest	252 sq km
<b>Sub-Total</b>	
Forest Cover Outside Green Wash	
Very Dense Forest	110 sq km
Moderately Dense Forest	837 sq km
Open Forest	445 sq km
<b>Sub-Total</b>	1,392 sq km
<b>Total Forest Cover</b>	3,357 sq km
<b>Tree Cover</b>	35 sq km
<b>Total Forest and Tree Cover</b>	3,392 sq km
<b>Per capita forest and Tree Cover</b>	0.556 ha
<b>Of State's Geographical Area</b>	47.80%
<b>Of India's Forest and Tree Cover</b>	0.43%

Source : FSI Report , 2015.

### 1.3 Forest Cover Informatics in Different Patch Size Class

Sl. No	Patch Size Range in (sq km)	No. of Patches	Area(sq. km)	%age
1	<=0.01 <=1.0	647	41	1.22
2	>1.0 <=10	10	23	0.68
3	>10 <=100	2	109	3.24
4	>100 <=500	0	0	0.00
5	>500 <=1000	0	0	0.00
6	>1000 <=5000	1	3184	94.86



7	>5000 <=10000	0	0	0.00
8	>10000	0	0	0.00
	<b>Total</b>	<b>660</b>	<b>3357</b>	<b>100</b>

Source : FSI Report , 2015.

#### 1.4 Forest Types ( Area in Km<sup>2</sup>)

Forest Types ( Area in Km <sup>2</sup> )		
Forest Type	Area	Percent
3C/C1a (i) East Himalayan Sal	40.29	1.11
3C/C3b East Himalayan Moist Mixed Deciduous Forest	146.44	4.04
8B/C1 East Himalayan Subtropical Wet Hill Forest	911.89	25.15
11B/C1b Buk Oak Forest	898.17	24.78
12/C3a East Himalayan Mixed Coniferous Forest	232.63	6.42
12/ DS1 Montane Bamboo Brakes	1.05	0.03
14/ C2 East Himalayan Sub-Alpine Birch/ Fir Forest	978.63	27.00
15/C1 Birch Rhododendron Scrub	139.63	3.85
15/ E1 Dwarf Rhododendron Scrub	55.38	1.53
15/ E2 Dwarf Juniper Scrub	149.08	4.11
Plantation / TOF	71.81	1.98
<b>Total</b>	<b>3625.00</b>	<b>100.00</b>

Source : Atlas Forest Types of India, 2011

### IMPORTANT RULES OF 2013-2014

- **Notification vide 187/ FEWMD dated 19.12.2014**

The State Government prohibits the manufacture, sale and use or bursting of all types of firecracker including any sound emitting or illuminating type of firecrackers within the State of Sikkim.



### FOREST CONSERVATION (FC) CELL

Forest Conservation (FC) Cell, a separate working unit headed by the Nodal Officer, is dealing the forest land diversion cases with the inception of Forest (Conservation) Act 1980. This is a unique piece of legislation, enacted by the Parliament in the year 1980, and came into force in the State of Sikkim with the subsequent Rules and Guidelines framed by the Govt of India from time to time.

The Govt of India launched the on-line submission of Proposals in the web site portal “On-Line Submission & Monitoring of Forest Clearance Cases” designed by the Ministry of Environment Forests & Climate Change, New Delhi and made it mandatory with effect from 15<sup>th</sup> August 2014. Accordingly, the proposals are being received through the on-line as well as in off-line mode also and processed at each level of authority procedurally, and monitored simultaneously till the forest clearance are granted on case to case basis.

Since 1980, the Act has facilitated various developmental activities like construction of power projects, irrigation project roads, railway lines, school, hospitals, rural electrification, telecommunication, drinking water facilities, mining and others etc in forest lands and checked the indiscriminate diversion of pristine forest areas. The followings are the achievements made by the FC Cell till the year under Report:-

### **ACHIEVEMENT UNDER FOREST (CONSERVATION) ACT, 1980**

Sl No	Category of approved cases	North		East		South		West		Total	
		No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1	Defence	10	197.287	9	416.05	0	0	1	0.591	20	613.928
2	Drinking Water	0	0	15	2.6084	16	21.003	4	4.075	35	27.6864
3	Hydel	12	122.77	15	241.7157	5	138.295	5	46.241	37	549.0217
4	Irrigation	0	0	1	3.21	3	0.88	1	0.35	5	4.44
5	Mining	1	0.0464	1	0.6176	0	0	0	0	2	0.664
6	Others	28	19.172	49	65.864	29	112.217	13	11.286	119	208.539
7	Road	37	400.123	38	198.287	45	55.987	27	28.489	147	682.886
8	School	0	0	2	1.862	1	0.06	0	0	3	1.922
9	Transmission	4	26.8003	13	64.8031	15	135.165	5	40.765	37	267.5334
	<b>Total</b>	<b>92</b>	<b>766.199</b>	<b>143</b>	<b>995.018</b>	<b>114</b>	<b>463.607</b>	<b>56</b>	<b>131.797</b>	<b>405</b>	<b>2356.621</b>





Category	Stipulation of Compensatory Afforestation									
	North		East		South		West		Total	
	In FL	In NFL	In FL	In NFL	In FL	In NFL	In FL	In NFL	In FL	In NFL
Defence	430.500	67.000	419.578	0.000	0.000	0.000	0.000	0.000	850.078	67.000
Drinking Water	0.000	0.000	6.251	0.000	32.910	0.000	4.020	0.000	43.181	0.000
Hydel	223.670	2.262	412.731	0.000	358.500	0.000	82.496	7.782	1077.397	10.044
Irrigation	0.000	0.000	6.500	0.000	0.600	0.000	0.000	0.000	7.100	0.000
Mining	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000
Others	15.340	5.016	72.203	0.000	70.402	0.000	13.707	1.800	171.652	6.816
Road	818.442	0.000	236.842	0.000	82.720	0.000	50.443	0.000	1188.447	0.000
School	0.000	0.000	2.513	0.000	0.120	0.000	0.000	0.000	2.633	0.000
Transmission	47.500	0.000	155.971	0.000	322.441	0.000	1.983	2.500	527.895	2.500
<b>Total</b>	<b>1536.452</b>	<b>74.278</b>	<b>1312.5878</b>	<b>0.000</b>	<b>867.694</b>	<b>0.000</b>	<b>152.649</b>	<b>12.082</b>	<b>3869.382</b>	<b>86.360</b>

#### Achievement of compensatory afforestation

Sl. no.	Name of scheme	Year	Area (In Ha.)	Amount (In lakhs)
1	Compensatory Afforestation (1 to 64) (Creation works)	2010-11	339.30	237.60
2	Compensatory Afforestation (65 to 70) (Creation and Maintenance works)	2011-12	212.08	474.14
3	Compensatory Afforestation (71 to 106) (Creation and Maintenance works)	2012-13	351.41	362.80
4	Compensatory Afforestation (107 to 111) (Creation and Maintenance works)	2013-14	158.00	253.76
5	Compensatory Afforestation (112 to 138) (Creation and Maintenance works)	2014-15	308.66	90.94
	<b>Total</b>		<b>1369.45</b>	<b>1419.24</b>

#### COMPENSATORY LEVIES REALISED IN LIEU OF FOREST LAND DIVERTED UNDER THE FC Act 1980

Year	CA	Penal CA	NPV	WL/BCMP	CAT	SC & FP	Total
2006-07	334.34	0.00	594.58	58.05	173.16	0.00	1160.13



2007-08	1687.84	0.00	1560.78	50.48	136.96	0.00	3436.06
2008-09	653.61	0.00	1634.66	72.02	118.90	0.00	2479.19
2009-10	1086.60	6.36	1983.73	578.92	925.18	183.53	4764.33
2010-11	713.15	0.00	1736.86	164.73	1448.85	0.00	4063.59
2011-12	205.33	0.00	382.40	283.99	1113.25	0.00	1984.97
2012-13	235.70	0.00	379.85	2.50	1500.18	0.00	2118.22
2013-14	95.43	0.00	154.10	0.00	0.00	0.00	249.53
2014-15	206.42	0.0	737.73	0.0	0.0	00.11	946.26
<b>Total</b>	<b>5237.77</b>	<b>6.36</b>	<b>9196.59</b>	<b>1210.69</b>	<b>5645.26</b>	<b>183.64</b>	<b>21480.30</b>

In addition to the above, the FC Cell is looking after the implementation of State-CAMPA activities also in accordance with the Guidelines notified by the State Govt vide Notification No.107/Home/GoS dated 12-08-2009. This mechanism was adopted for putting in place the funding mechanism for enhancing the forest and tree cover by utilizing the funds released by the Ad Hoc CAMPA, Ministry of Environment Forests & Climate Change, Govt of India. The details of funds released by the Ad Hoc CAMPA and utilized thereafter are as follows:

#### RECEIPT AND UTILIZATION OF FUND UNDER STATE-CAMPA

(Amount in lakhs)

Year	Opening Balance	Fund released by Adhoc CAMPA	Interest accrued	Total	Expenditure incurred	Closing Balance
2009-2010	nil	800.92	14.89	815.81	443.11	372.70
2010-2011	372.70	1023.34	23.43	1419.47	1334.81	84.66
2011-2012	84.66	904.00	19.88	1008.54	1007.56	0.98
2012-2013	0.98	875.23	20.54	896.75	545.30	351.45
2013-2014	351.45	950.00	31.95	1333.40	939.97	393.43
2014-2015	393.43	1370.00	43.55	1806.98	1031.70	775.28
<b>Total</b>		<b>5923.49</b>	<b>154.24</b>		<b>5302.45</b>	<b>775.28</b>



**Total Volume of Timber (Sal beam of size 4"x3") distributed to REDRH/CMRHM Beneficiaries from Govt. Sawmill, under Utilisation Division**

Sl. No.	Name of GVK	District	Date of release	Released from	Quantity (in cft)	Remarks
1	Martam GVK	East	9/10/2013	Govt. Sawmill, Chuba, East Sikkim	340	FY 2013-14
2	Passingdong GVK	North	11/8/2013	Govt. Sawmill, Chuba, East Sikkim	240	
3	Khamdong GVK	East	2/19/2014	Govt. Sawmill, Chuba, East Sikkim	400	

**LIST OF TIMBER SALE AGENT**

EAST DISTRICT		
Sl.No.	Name of Sale Agent	Location
1	Shri. I.B.Pradhan	Nam Nang, Gangtok
2	Shri. Ongay Bhutia	Development Area, Gangtok
3	Shri. Man Kr. Chettri	Nam Nang, Gangtok
4	Shri. B.K. Agarwal	Singtam, East Sikkim
5	Shri. Gyatso Sherpa	Dara Gaon, Tadong
6	Smt. Deo Kumari Gurung	Burtuk, Gangtok
7	Shri. Pradeep Chettri	Burtuk, Gangtok
8	Shri. Upendra Sharma	Tenzing & Tenzing, Gangtok
9	Shri. Tashi Lendup Bhutia	Balwakhani Gangtok
10	Shri. Passang Sherpa	Tenzing & Tenzing, Gangtok
11	Smt. Pratima Singh	D.P.H. Gangtok
12	Shri. Nima Tshering Bhutia	Sichey, Gangtok
13	Shri. Sharvan Sharma	Nam Nang, Gangtok
14	Shri. J.K. Sharma	Tibet Road, Gangtok
15	Shri. Nirmal Kumar Pradhan	Nam Nang, Gangtok
16	Shri. Bijay Kumar Sharma	Tibet Road, Gangtok
17	Smt. Sunita Devi Sharma	Tibet Road, Gangtok
18	Shri. P.D. Denzongpa	Indira Bye Pass, Gangtok
19	Shri. Ongyal Sherpa	6 <sup>th</sup> Mile, Tadong
20	Shri. Rajesh Tamang	Ranipool
22	Shri. Gyalpo Thendup Bhutia	Chandmari, Gangtok



23	Shri. Dhan Bahadur Thapa	Lumsey, 5 <sup>th</sup> Mile, Gangtok
24	Shri. Sanjay Agarwal	Singtam
25	Shri. Kiran Gurung	Pakyong, East Sikkim
26	Shri. R.B.Gurung	Pakyong
27	Shri. K.B. Chettri	Pakyong
28	Shri. Tarabir Rai	Rorathang, East Sikkim
29	Shri. Babu Ram Chettri	Rhenock Bazar
30	Shri. Mingma Dorjee Sherpa	Upper Sumin
31	Smt. Krishna Devi Gurung	Rangpo
32	Shri. Pem Tseten Bhutia	Middle Tadong
33	Shri. Dawa Tashi Lepcha	Bye Road, Gangtok
34	Smt. Indra Maya Rai	Lumsey, Gangtok

### SOUTH DISTRICT

Sl.No	Name of Timber Sale Agent	Location
1	Shri. Tashi Namgyal Sherpa	Namchi Bazar
2	Shri. Ganga Ram Rai	Mamring South Sikkim
3	Shri. Kabir Man Rai	Ghupisey, Namchi

### NORTH DISTRICT

Sl.No	Name of Timber Sale Agent	Location
1	Smt. Pichemoo Lepcha	Mangan

### WEST DISTRICT

Sl.No.	Name of Timber Sale Agent	Location
1	Shri. Birkha Singh Subba	Upper Thambong
2	Shri. U.N.Tiwari	Kyongsha, Gyalzing
3	Smt. Karma Dome Limboo	Gyalzing



## STATE BIODIVERSITY CONSERVATION & FOREST MANAGEMENT PROJECT

(Assisted by Japan International Corporation Agency, EAP)

2013-14

### 1. Name of Circle /Division /Directorate /Other -

#### 4 circles

- Wild life circles - ( all forest division)
- Territorial circles - ( all forest division)
- KNP
- Working Plan

### 2. Title of Work Program /Scheme -

JICA assisted Sikkim Biodiversity Conservation and Forest Management Project (SBFP)

### 3. Function and Objective -

#### Function

- Preparatory work
- Forest and Biodiversity Conservation
- Ecotourism
- Joint Forest Management
- Organizational strengthening

#### Objective

- to strengthen biodiversity conservation activities and forest management capacity including organizational strengthening of the forest department, and
- to improve livelihood for the local people by promoting sustainable biodiversity conservation

### 4. Plan and non plan allocation in Cr Rs.-

1. C1 : Preparatory work	0.045
2. C2 : Forest and Biodiversity Conservation	3.529
3. C3 : Ecotourism	1.518
4. C4: Joint Forest Management	5.993
5. C5 Organizational Strengthening of Forest Department -	11.0849
6. Physical contingency	0.5059
7. Earthquake repair	14.393



8. Salary of staff	0.4243
9. Consultancy Service	4.448

**5. Total Annual Planned allocation** **13-14** **41.94**

**6. Implemented by circles /Division /Block /Other if any -**

Project being implemented in 9 following divisions

1. East (T)
2. East (WL)
3. West (T)
4. West (WL)
5. South (T)
6. South (WL)
7. North (T)
8. North (WL)
9. KNP
10. Working Plan

**7. Work implemented at**

4 Districts (East , West , North , South )

**8. Activities undertaken -**

**C1 Preparatory Work-**

1. Appointment of 1 no. of Office Assistant and 1 Safai Karmachari under PMU done on contractual basis
2. Photocopy and Printing
3. Fourth Annual Plan of Operation (APO) was prepared for the fiscal year 2013-2014 of SBF

**C2 Forest and Biodiversity Conservation -**

1. Forest compartment maps, forest type, beat, reserved forest, block and range data were converted from Indo-Nepal projection to WGS 84 UTM 45N projection and exported to Geo-database. Correction of data in 1:50,000 from 1:25,000 scale for the layers like drainage, state district boundary etc. were also completed.
2. Contour digitization of Barsey Wildlife sanctuary from 1:25000 toposheet done and maps were also created for the same.



3. TIN, Digital Elevation Model (DEM), Slope, Multiple buffer zone maps with the interval of 25, 50, 100, 150, 300m maps were generated for Barsey Wildlife Sanctuary using toposheet 40m contours.
4. Outer boundary of Sikkim was digitized from 1: 50000 scale SOI toposheet.
5. Normalized Difference Vegetation Index (NDVI) model built on Erdas 11.
6. Normalization process of LISS IV data was done.
7. Foot trails map of Golitar, Yuksom-Dzongri, Rabong-Maenam and Sang made from data collected by Survey Expert, SBFP.
8. Creation of 90 JFMC villages point of SEVs and IIV from SOI toposheet 1:50,000 scale and layout was also created for the same in Arc GIS 10 software.
9. Ecotourism zone thematic maps were generated for all 11 ecotourism zones with information like latitude, longitude, elevation, and distance from Gangtok.
10. Existing 23 trekking trails of Sikkim were digitized from SOI toposheet.
11. Correction of river, drainage of whole Sikkim on 1:50000 scale toposheet done.
12. Layer created and Foot trails map of RBSs Golitar-Teen-jurey, Sang- Teen-jurey, Yuksom-Dzongri, Rabong-Maenam, and Tholung-Kishong generated from data collected by survey team, SBFP.
13. Layer created and two maps were produced for proposed sampling path (SBFP) and trekking trails of Rapid Biodiversity Survey.
14. Layer created and prepared map of "Proposed Rapid Biodiversity Survey trails overlaid on trekking trails of Sikkim".
15. Important land marks and boundaries demarcation and maps prepared for 70 JFMC/EDC
16. Layer created and prepared distribution Map of Rhododendron niveum in Sikkim.
17. Layer created and prepared (1x1) km grid map and digital elevation model map of Panch Pokhri conservation area for Musk Deer.
18. Prepared Composite map of all SBFP component.
19. 41 cluster village points layer created and map prepared using SoIToposheet 1:50,000.
20. Prepared detail map of Okhrey, Nampong - Lingdok, Khecheopalri, Lingee-Payong, Uttarey, Lachen, Lachung, Dzongu, Heehaon, East Pendam and Kitam Ecotourism Zone.
21. Layer created and prepared detail map of Barfung Retreat, Kewzing.
22. Prepared composite map of 11 Ecotourism Villages/Zones and Rapid Biodiversity transit surveyed.
23. Layer created and prepared map of trekking trails of Sikkim proposed by Tourism Deptt.
24. Layer created and prepared map of trekking trails of Sikkim proposed in MoD of SBFP.



25. Prepared composite map of trekking trails of Sikkim proposed by Tourism Deptt. and MoD of SBFP.
26. Layer created and prepared 4 maps of wildlife sighting areas based on Rapid Biodiversity Surveys conducted so far.
27. Layer created and prepared map of ecotourism zones under SBFP with IBAs in Sikkim.
28. Layer created and prepared map showing places for tourist interest, Interpretation centre, famous tourist spots and Village tourism (Home stays) in Sikkim.
29. Trekking trail map from Hanuman tok to All India Radio Station around the zoological park, Gangtok prepared.
30. **132** maps for Updated Topographical, Landuse & Forest Resource Atlas prepared.
31. Layer created and prepared map of towns and Bazar, roads, sub divisional magistrate location point from 1:50,000 scale toposheet
32. 6 days Operational Training on RS/GIS held for 29 frontline Forest Officials on topographical map reading at Gangtok from 25.11.13 to 30.11.13
33. 50 Plots were surveyed
34. Researchers participated in a workshop on “Field Survey Techniques” organized by WWF-India and FEWMD, Govt. of Sikkim from 20-25 January 2014.
35. Musk deer study initiated in the field
36. Collaboration initiated with WWF- India Gangtok for Red Panda study
37. Working Plan Division under DFEWM was proposed to device plan for survey and conduct the same.
38. Draft management plan of Kitam Wildlife Sanctuary and Maenam Wildlife Sanctuary were reviewed.
39. Rapid Biodiversity Survey Report I & II revised
40. Maintenance works continued in 4 propagation nurseries.
41. Inauguration of plan conservatory done
42. On the basis of the planning and designing and Bill of Quantities (BoQ) submitted by architect, the tender procedure for construction of Administrative building and Rescue centre at HZP was completed. The work is under progress.

### **C3 Ecotourism -**

1. Ecotourism Policy campaigning was initiated.
2. A campaign on Sikkim Ecotourism Policy was organised at the Conference Hall of Tourism and Civil Aviation Dept on 25th Feb 2014. Heads of various Departments, representatives of local tourism bodies like TASS, SAATO, SHRA, NGOs and other





3. Another ecotourism zone 'East Pendam' was included in 2013 and 11 ecotourism zones were approved by the cabinet on 21.09.13. Circulars to this effect were sent to officials of Forest Department and other related departments in December 2013
4. A Five-Year draft Domestic Marketing Strategy for ecotourism was prepared with technical assistance from National Ecotourism Marketing Specialist
5. Draft International Ecotourism Marketing Strategy was prepared by International ecotourism marketing specialist
6. Stakeholders from Okherey & Passey participated in the Winter Carnival on 22nd-24th Dec 2013 organized by Tourism & Civil Aviation Department, Government of Sikkim. The team performed Nepali traditional dance with an objective to promote the 11 ecotourism zones.
7. Stakeholders from Okherey and Nampong-Lingdok participated in the Jorethang and Rorathang Mela 2014.
8. The EMC team participated in the Janta Mela organized in four districts of Sikkim.
9. The local stakeholders and school children participated in the Winter Camp 2014 organised by Sikkim United Tourism Organization from 07th-12th Jan 2014.
10. Undertook Promotion of the Nampong-Lingdok zone through travel writer Mr. Gautam Singh.
11. Database of international and international travel agents created.
12. Indian Himalayan Institute of Adventure & Ecotourism, Chemchey was engaged for conducting detailed survey to assess the conditions of existing trek routes and to identify new trek routes of international standards in Sikkim. The trails to be taken up in the phase I is a) Sang-Tinjuray b) Maenam to Panch Pokheri and c) Barsey - Chewabanjyang
13. One day reconnaissance survey of the trekking/nature trail from Hanuman Tok to All India Radio Station was conducted.
14. Sikkim Ornithological Society (SOS) and Bombay Natural History Society (BNHS) contacted for survey and selection of Bird and Wildlife watching areas in Sikkim covering the 11 ecotourism zones
15. Bird guiding books "Birds of the Indian Sub-continent" purchased for distribution to the stakeholders of the 11 ecotourism zones.
16. Location for 7 interpretation centres approved by the Government. They are Bulbuley, Kyongnosla, Yuksom, Hilley, Namprikdang, Lingee& Melli.
17. Preliminary drawings completed for the Interpretation centre of Bulbuley.
18. M/S PAN Architecture and M/S IDEA consultancy submitted preliminary drawings for FRHs at Yuksom and Dentam both in West Sikkim.



19. Draft Management Plan of the Interpretation Centre, Bulbuley prepared.
20. EMC assisted the Gala Musical Evening program at Mannan Bhawan
21. EMC published an advertisement on the development and achievement of SBFP on the occasion of 30th Anniversary of Himali Purba Sandesh
22. EMC publicized about ecotourism activities of SBFP at the 18th State Open Table Tennis Championship at Indoor Gymnasium Hall, Gangtok from 12th-15th Sept 2013.
23. EMC conducted three days follow-up training on interpretation guiding from 10-12 April 2013 at Dzongu, North District for the 9 youths/stakeholders from Leek, Sakyong, Tingvong, and Hee- Gaythang villages
24. EMC with assistance from International and National Ecotourism Marketing Consultants conducted three days follow-up training on interpretation guiding from 16-18 May 2013 at Dzongu, North District
25. 31 stakeholders from Nampong-Lingdok, Okhrey and Kitam participated in World Tourism Day on 29<sup>th</sup> September, 2013 at Chintan Bhawan, Gangtok.
26. Workshop on "Ecotourism for Sustainable management of natural resources – Livelihood, JFM and Biodiversity" was organized at Melli Dara, South Sikkim on November 17<sup>th</sup> 2013.
27. Workshop on Ecotourism at Passey, South Sikkim was held
28. EMC conducted three days follow-up training on interpretive guiding from 5-7 December 2013 at Nampok-Lingdok, East District for the ecotourism stakeholders including the Ecotourism Development Committee
29. EMC organised one day Workshop on Ecotourism at Lower Tumin
30. EMC participated in the Winter Carnival, 2013 held at Gangtok from 22<sup>nd</sup>-24<sup>th</sup> December, 2013

#### **C4 Joint Forest Management –**

1. Final study report submitted and referred to DHH, Gangtok for validation
2. District Level Workshops on Joint Forest Management for Awareness on project activities and review of Micro plans were conducted
3. A workshop was organized on 20 June 2013, at Forest Conference Hall, Gangtok by the PMU to review the progress of JFM and creating better coordination of JFM activities, understanding on JFM and its implementation strategies/action plans in Sikkim,
4. State level workshop on "JFM for sustainable management of natural resources-Livelihood: Ecotourism: Biodiversity" on 30<sup>th</sup> September covering 600 participants
5. Selection of 45 JFMCs/EDCs/SEVs (3rd batch of villages) based on identified criteria were initiated



6. Revision of the micro plans with the consultation of JFMC/EDC continued for 45 Spread Effect villages (2<sup>nd</sup> batch of villages) during the quarter. PMU continued its activities for the regularization of Annual General Meeting of JFMC/EDC as well Executive Committee meeting and record keeping
7. Maintenance and use of the assets developed under EPA continued in 45 Initial Intervention Villages/IIVs (I batch of villages) by respective JFMCs/EDCs in all the districts
8. 0.8 ha nurseries at 8 locations maintained
9. In-house discussion held to prepare concept note. ToR was prepared for action research study of sustainable forest management
10. Maintenance work of 100 ha plantation area (created during 2012-13) at religious places was carried out
11. 100 ha. plantation were carried out in monasteries and other religious areas including 1<sup>st</sup> year maintenance
12. Field visit was conducted and need based business plan of IGAs were developed by Deputy Team Leader and Training Coordinator along with Community Organizers during the quarter. 06 SHGs of three Ranges in North District were covered.
13. Training undertaken on Ecotourism

#### **C5 Organizational Strengthening -**

1. Construction of Office Building at Deorali, Gangtok continued
2. 80% of the construction work of range office/block office completed
3. Maintenance of vehicles and motorcycles done
4. Organized 5 days Training on Sustainable Forest Management by IIFM at Forest Conference Hall, Gangtok to 29 participants w.e.f 18/11/2013 to 22/11/2013
5. Annual Review Meeting, Coordination Meeting of PMU & PMC conducted
6. Fifth HPSC meeting was held on 26<sup>th</sup> July 2013 at New Secretariat, Manan Bhawan, Conference Hall, Development Area, Gangtok. Meeting of Executive Body held on 23<sup>rd</sup> October 2013
7. Third, Fourth and Fifth Governing Body meeting was held on 6<sup>th</sup> June 2013, 31<sup>st</sup> July 2013 and 29<sup>th</sup> October, 2013

#### **9. Physical Achievement**

##### **-C1 Preparatory Work -**

1. Appointment of one office assistant and safai Karmachari



2. APO -13-14 prepared and approved

**-C2 Forest and Biodiversity Conservation -**

1. Existing 23 trekking trails of Sikkim were digitized
2. Composite maps of 11 Ecotourism zones created
3. 132 maps for updated topographical , landuse and forest resource atlas prepared
4. Training of 29 Front line staff on topological map reading
5. Rapid Biodiversity Survey completed in 50 plots
6. Reconnaissance survey conducted for flagship species namely Rhododendron , Redpanda, Musk Deer
7. Draft management plan of Kitam, Meanam WLS
8. Proposal of research of the three flagship species finalized
9. Collaboration made with WII for musk deer study ,WWF for red panda study and GB Pant Institute of Himalayan Studies for Rhododendran study
10. Draft Management plan of Kitam WLS was reviewed
11. Maintenance of 4 propagation nurseries
12. Site survey of bio diversity of the proposed site was conducted , 32 tree species , 10 shrub species, 18 herbs and orchids, 14 fern and fern alliance, 5 climber species was inventoried
13. Architectural design of the Sikkim Biodiversity Centre was developed

**C3 Ecotourism -**

1. Sikkim ecotourism policy was translated in Nepali
2. East Pandem and Nampok - Lingdok was approved , 11 ecotourism zone approved
3. Five year domestic marketing strategy was prepared
4. International ecotourism marketing strategy was drafted
5. Participated in Jorethang and Rorathang Mela
6. Design Development and Maintenance of Ecotourism website initiated in consultation with M/S Vandeeep Technology, agreement signed
7. Collaboration with ICHAE , Chamchey, South Sikkim for development of trekking routes
8. SOS (Sikkim Ornithological Society ) and BNHS( Bombay Natural History Society ) contacted for survey and selection of Bird and Wildlife watching areas in Sikkim
9. Location of 7 interpretation center approved. Drawing for interpretation center at Bulbuley was completed
10. PAN Architect and M/S IDEA consultancy submitted preliminary drawing of FRH (Forest Rest House) at Yuksom and Dentam



11. Solid waste management study was initiated in collaboration with RMDD , Govt. of Sikkim

12. 4 training conducted , EMC also facilitated 3 state level workshops and several festivals

**C4 Joint Forest Management -**

1. Final study report submitted and referred to DHH for validation
2. District level workshop on JFM , state level project coordination workshop was conducted
3. Selection on 3<sup>rd</sup> batch of 45 JFMCs done
4. Maintenance of nurseries at 6 location covering 06 ha area done
5. 100 ha plantation at religious places took place
6. Need based business plan was developed in 6 SHGs
7. Revised microplan in 45 villages completed
8. Maintenance of 225 Ha plantation
9. Nurseries established at 6 location covering 6 ha area

**C5 Organizational Strengthening of Forest Department -**

1. 65% work of SBFO building completed
2. Construction of 6 block offices, 5 range offices, 3 check post completed
3. Training of official conducted
4. Induction course of ACFs conducted
5. 5 days training at IIFM conducted for 29 participants
6. Annual PMU - PMC coordination meeting, HPSC meeting , GB , EC meeting completed
7. 7 days training on account and administration for 17 staff of PMU was conducted

**10. Physical Achievement -**

**a) With Particular reference to functions of the Department -**

All the above activities are being implemented by Forest Environment and Wildlife Management Department (FEWMD)

**b) With Particular reference to the Plan schemes in Financial and Physical terms-**

Financial Progress : 43.93%

Physical Progress : 50%

**11. Tangible Outputs**

Plantation , infrastructure , GIS maps, microplan

**12. Intangible outputs**

Improved environment , greenery , enhanced capacity



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KHANGCHENDZONGA NATIONAL PARK- 2013-2014

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1. Name of Circle/Division/Directorate /Other  
**Khangchendzonga National Park**
2. Function and Objectives
  - **Integrated Development of Wildlife Habitats;**
  - **Management Action Plan (MAP) for Conservation and Management of KBR**
3. Title of Work Programme/ Scheme /Other
  - **Integrated Development of Wildlife Habitats;**
  - **Management Action Plan (MAP) for Conservation and Management of KBR**
4. Implementation by  
**Khangchendzonga National Park Directorate**
5. Work implemented at  
**Khangchendzonga National Park**





## **6. Activities Undertaken**

- Camera trap
- Landslide control measure by construction of sausage wall
- Anti-poaching activities-patrolling to check encroachment, poaching and trespassing
- Control and management of feral dogs
- Expedition and patrolling
- Maintenance of Trekking Trail
- Ex- gratia payment and compensation damage and human injury and death
- Posters, brochures, pamphlets and signage and maintenance
- Mobilization of rescue team, during himalayan black bear menace
- Awareness on Protection of Natural Resources of KBR
- Distribution of Low fuel wood (Pressure Cooker)
- Maintenance of 2nd year bamboo plantation
- Maintenance of 2nd year fruit and fodder plantation
- Maintenance of Trekking Trails
- Crate wall /Dry stone wall at Landslide areas for protection of the areas
- Patrolling & Surveillance
- Soil & Moisture conservation
- Entry Point Activities
- Awareness raising
- Micro-planning
- Fencing
- Monitoring & Evaluation

## **7. Physical Achievement**

- a) With particular reference to the Plan Schemes in the financial and physical term



I. Physical and Financial Achievements of Khangchendzonga (High Altitude) National Park under "Integrated Development of Wildlife Habitats" during FY-2013-14

Sl. No	Item of Works	Sanctioned	Achievement	
		Amount (in lakhs)	Phy	Fin (in lakhs)
1	Habitat improvement	5.4	10 ha	5.4
2	Camera trap	1.4	4 nos.	1.4
3	Landslide control measure by construction of sausage wall	2	2km	2
4	Anti-poaching activities-patrolling to check encroachment, poaching and tress-passing	3.00	3nos	3.00
5	Control and management of ferral dogs	0.5	1	0.5
6	Expedition and patrolling	3.00	3 nos	3.00
7	Maintenance of Trekking Trail	3.00	6km	3.00
8	Ex- gratia payment and compensation damage and human injury and death	3.00	LS	3.00
9	Posters, brochures, pamphlets and signage and maintenance	0.5	LS	0.5
10	Mobilization of rescue team, during himalayan black bear menace	3.00	LS	3.00
	<b>Grand Total</b>			<b>24.82</b>

(Rupees Twenty Four Lakhs Eight two thousand) only





II. Physical and Financial Achievements of Khangchendzonga Biosphere Reserve under “Management Action Plan (MAP) for Conservation and Management of KBR” during FY-2013-14

S. N	Items of Work	Sanctioned		Achievement	
		Fi. (in lakhs)	Phy	Fin.(in lakhs)	Phy
1	Beneficiaries distribution of Storage Water Tank(1000 lits)	3.00	60Nos	3.00	60Nos
2	Distribution of Electric Rice Cooker	2.25	90Nos	2.25	90Nos
3	Construction of Crematorium and Waiting Shed	20.00	8Nos	20.00	8Nos
4	Distribution of Solar Lamps	6	120Nos	6	120Nos
5	Maintenance of walking trail	8	4km	8	4km
6	Log Bridge	4	2Nos	4	2Nos
7	Repair of loghouse at Neytham	5	1 No.	5	1 No.
8	Distribution of Low fuel wood (Pressure Cooker)	2.4	120Nos	2.4	120Nos
9	Maintenance of 2nd year bamboo plantation	7.68	60ha	7.68	60ha
10	Maintenance of 2nd year fruit and fodder plantation	7.57	60ha	7.57	60ha
11	Maintanance of Trekking Trails	9	9km	9	9km
12	Crate wall /Dry stone wall at Land slide areas for protection of the areas	14.82	2km	14.82	2
13	Patrolling & Surveillance	6	LS	6	LS
14	Awareness on Protection of Natural Resources of KBR	1.7	LS	1.7	LS
15	Over-Head Expenses	2.58		2.58	
	<b>Grand-Total</b>	<b>100</b>		<b>100</b>	



III. Physical and Financial Achievements of Khangchendzonga under KNP-FDA during FY-2013 14

Sl No	Items	Physical Target (area in ha.)		Financial Target(in Lakhs)	
		Low Altitude(LA)	High Altitude (HA)	Low Altitude (LA)	High Altitude(HA)
<b>Aided Natural Regeneration (200 plants/ha)</b>					
1	a) Advance work	0	0	0	0
	b) Creation	25	10	1.96	1.14
	c) Maintenance I year	20	10	0.43	0.34
	II year	30	5	0.64	0.17
	III year	50	0	1.07	0.00
	<b>Sub-total</b>	<b>25</b>	<b>10</b>	<b>4.09</b>	<b>1.65</b>
<b>Artificial regeneration (1100 plants/ha)</b>					
2	a) Advance work	0	0	0	0
	b) Creation	20	10	2.98	2.21
	c) Maintenance I year	20	10	0.72	0.54
	II year	25	10	0.90	0.54
	III year	50	0	1.79	0.00
	<b>Sub-total</b>	<b>20</b>	<b>10</b>	<b>6.39</b>	<b>3.28</b>
<b>Bamboo plantation (625 plants/ha)</b>					
3	a) Advance work	0	0	0.00	0.00
	b) Creation	10	10	0.84	1.21
	c) Maintenance I year	50	5	0.88	0.14
	II year	35	7	0.62	0.19
	III year	50	0	0.88	0.00
	<b>Sub-total</b>	<b>10</b>	<b>10</b>	<b>3.22</b>	<b>1.55</b>
4	<b>Pasture development / Silvi pasture (400plants/ha)</b>				



	a) Advance work	0	0	0.00	0.00
	b) Creation	10	0	0.92	0.00
	c) Maintenance I year	148	5	3.56	0.18
	II year	25	5	0.60	0.18
	III year	50	0	1.20	0.00
	<b>Sub-total</b>	<b>10</b>	<b>0</b>	<b>6.29</b>	<b>0.37</b>
<b>5</b>	<b>Planting of canes (625 plants/ha)</b>				
	a) Advance work	0	0	0.00	0
	b) Creation	10	0	0.88	0
	c) Maintenance I year	10	0	0.27	0
	II year	0	0	0.00	0
	III year	50	0	1.36	0
	<b>Sub-total</b>	<b>10</b>	<b>0</b>	<b>2.25</b>	<b>0</b>
<b>6</b>	<b>Mixed plantation of trees having MFP and Medicinal values (1100 plants/ha)</b>				
	a) Advance work	0	0	0.00	0.00
	b) Creation	10	5	1.48	1.11
	c) Maintenance I year	55	10	1.89	0.51
	II year	45	5	1.54	0.26
	III year	50	0	1.72	0.00
	<b>Sub-total</b>	<b>10</b>	<b>5</b>	<b>6.63</b>	<b>1.88</b>
	<b>Perennial herbs and shrubs (2000plants/ha)</b>				
	a) Advance work	0	0	0.00	0.00
	b) Creation	0	5	0.00	1.30
	c) Maintenance I year	0	10	0.00	0.64
	II year	0	10	0.00	0.64
	III year	0	0	0.00	0.00
	<b>Sub-total</b>	<b>0</b>	<b>5</b>	<b>0.00</b>	<b>2.58</b>
<b>8</b>	<b>Artificial Regeneration (Seabuckthorn Plantation)</b>				
	a) Advance work	0	0	0.00	0.00



	b) Creation	0	7	0.00	1.39
	c) Maintenance I year	0	0	0.00	0.00
	II year	0	0	0.00	0.00
	III year	0	0	0.00	0.00
	<b>Sub-total</b>	<b>0</b>	<b>7</b>	<b>0.00</b>	<b>1.39</b>
	<b>Total of works</b>	<b>85</b>	<b>47</b>	<b>29.15</b>	<b>12.70</b>
9	Soil & Moisture conservation			<b>0.00</b>	<b>0.00</b>
10	Entry Point Activities			<b>0.00</b>	<b>0.00</b>
11	Awareness raising			<b>0.29</b>	<b>0.13</b>
12	Micro-planning			<b>0.00</b>	<b>0.00</b>
13	Fencing			<b>0.00</b>	<b>0.00</b>
14	Monitoring & Evaluation			<b>0.00</b>	<b>0.00</b>
15	Overheads			<b>2.22</b>	<b>0.89</b>
16	Balance of 2012-13			<b>0.00</b>	<b>0.00</b>
	<b>Total of High + Low</b>		<b>132</b>		<b>45.38</b>

**8. Other achievement, innovation reforms:**

Statement of revenue collection and number of tourist inflow in KNP:

Sl. No.	Year	No. of Tourists		Total	Revenue (in Rs.)
		Foreigner	Indian		
1.	2013-14	852 Nos.	1375 Nos.	2227 Nos.	17,36,994/-



## **9. Khangchendzonga - High Altitude National Park**

### **9.1 . Name, Location, Constitution and Extent:**

- a. Name**-Khangchendzonga National Park
  - b. Declaration No** -Sikkim Official Gazette 95
  - c. Declaration Date**-26<sup>th</sup> August 1977 with an initial area 850 sq.kms
  - d. Area**-Extended to 1784.00 sq km. Vide Not. No. 1/KNP/WL/F27 dated 19.05.1997
  - e. Altitude**-1220m – 8586 m
  - f. Nearest Town**-Mangan & Chungthang in North District & Gyalsing in West Districts of Sikkim
  - g. Road Head**-Chungthang, Lachen, Thangu, Lingya-Beh in North, Bermeli-Phamtam in South and Yuksom, Tashiding-Labdang, Uttarey in West Sikkim.
  - h. Range**-Chungthang, Dzongu and Yuksam
- Sub-Divisions**-KNP Sub-Division North and KNP Sub-Division West

The Khangchendzonga National Park occupies as much as 25.14 percent of the total geographical area of the State of Sikkim. The major portion of the Park lies in the North District and 1/3 area lies in West district. The major portion of the National Park comprises of Glaciers, mountains and lakes. There are about 18 Glaciers and prominent amongst them are, South Lhonak, Langbu, Changsang, Hidden, Tent and Nepal Gap Glacier, Tongshiong, Talung, Onglakthang, East Rathong, Zumthul Phuk and the largest among all is Zemu Glacier. Besides, over 17 crystal clear and placid lakes, the Khangchendzonga National Park is blessed with more than 19 mountain peaks and they boast some of the most magnificent scenery of snow clad in the world. It is place of beauty, charm, peace and remote from the main streams of events. Amongst all the peaks, the most glamorous, magnificent, panoramic and predominant peak is the Mount Khangchendzonga (8586m.), world's third highest peak, which literally narrates the Guardian Deity of Sikkim, along with the other peaks namely: in the middle flank is the beautiful Mount Narsing (5825 m.), Mount. Pandim (6691m.) Mount Kuber on the Southern side, the Twin (7350 m.), Nepal Peak (7150 m.), Tent Peak (7365 m.) etc. These lofty peaks, totally or partly have occupied the Khangchendzonga National Park and has influenced the climate of the region and rendered a conducive environment for divers bio-resources including, valuable, rare



and endangered species of flora, fauna and avi-fauna. Besides various fauna and avi-fauna, the Park is also the store-house of medicinal plants and other valuable floras.

There are programmes and activities which are being undertaken by the State Forest Department through a Centrally Sponsored Scheme “**Integrated Development of Wildlife Habitats (IDWH)**”, MoEF & CC, Government of India to improve the Park from different means of management, viz.

- Afforestation activities
- Intensification of management and protection of natural resources of the National Park
- Habitat improvement works and immunization of livestock of fringe villages
- Soil and Moisture Conservation works
- Awareness generation and nature education activities
- Health camps for populace of fringe villages
- Construction and creation of amenities for frontline forest staff.
- Research and monitoring works.
- Management of regulated Eco-tourism
- Social welfare activities for sustainable development of buffer villagers
- Conservation and documentation of Natural resources of the Park, etc.

## **9.2 KHANGCHENDZONGA BIOSPHERE RESERVE:**

The boundaries of Khangchendzonga Biosphere Reserve and National Park were amended as suggested by the Survey of India; and whereas since the Khangchendzonga Biosphere Reserve is located in a trans-boundary Himalayan range, the western and the north-west boundary taken is India – Nepal and India – China international boundary and for the remaining areas, Reserve Forest line, as per Topo-sheets (Survey of India) and prominent structures, natural boundaries, like streams, rivers, ridges, peaks and mountains etc. have been taken as the boundary line of the Biosphere Reserve; and whereas the last notification of the year 2000, the total area of the Biosphere Reserve was 2619.92 Km<sup>2</sup>, out of this, an area of 1784 Km<sup>2</sup> forming Khangchendzonga National Park and 835.92 Km<sup>2</sup> around this Park comprises the buffer zones, respectively; Now therefore, in order to cover all the fringe villages which have direct or indirect dependency on the adjoining buffer zones for the effective management of the KBR, participation of the people is a must, by involving them from the forest fringe villages in various forestry activities, including, seasonal works, eco-tourism, protection and conservation of natural resources, which may bring the sense of ownership among the people. As well, in majority of the places within these areas the private lands and forest lands are so closely positioned, i.e. almost intermixing, thus, the chances of encroachment of forest areas are extremely



high. Consequently, the management of the Biosphere Reserve with a limited and handful of forest frontline staff would become quite difficult without involving the people of the fringe villages. Therefore, by declaring a transition zone, the concept of co-existence of nature and human being while respecting the needs of each other would be fulfilled, in view of above facts and figures the State Government is hereby please to notify the details of the Khangchendzonga Biosphere Reserve.

### **9.3 Mechanism of participation:**

Management of the Protected Area and Biosphere Reserves with people's participation is an approach, which requires changes in the mindset of the officials, field level functionaries and people participating in joint bio-resource management concept. The constitution of the Eco-development committees was a mandatory requirement as per the FDA guidelines issued by NAEB, MOEF, Government of India. After constitution of Eco-development committees with wide mass base, micro planning exercise with PRA tools of each EDC was carried out in detail with the help of NGOs. All the field activities sanctioned under the CSS of KNP/KBR are carried out/implemented through the Eco-development Committees. There are still some, left out villages which are to be brought under EDC network in the near futures. At present, there are 21 EDCs of the KNP through which all the field activities sanctioned under the CSS of KNP/KBR carried out/ implemented.



## WILDLIFE CIRCLE

1. Name of Circle: Wildlife Circle
2. Functions and Objectives
  - Development of Wildlife Sanctuaries
  - Integrated Development of Wildlife Habitats
3. Title of Work Programme/ Scheme/ Other :  
Integrated Development of Wildlife Habitats
4. Implemented by Circle / Division/ Block/ Other :

### Wildlife Circle

5. Work implemented at:  
National Afforestation Program under Wildlife Sector. Activities carried out under Wildlife FDA during the year 2014-15

- |                             |               |
|-----------------------------|---------------|
| 1. Under North Wildlife FDA | High Altitude |
| 2. Under East Wildlife FDA  | High Altitude |
| 3. Under East Wildlife FDA  | Low Altitude  |
| 4. Under South Wildlife FDA | Low altitude  |
| 5. Under West Wildlife FDA  | Low altitude  |
| 6. Under West Wildlife FDA  | High Altitude |



6. Activities Undertaken





- Bench terracing for landslide and avalanche areas for prevention and protection.
- Habitat characterization for Shingba Rhododendron Sanctuary
- Creation of fire line inside the sanctuary
- Anti-poaching and camp demolition operations
- Engagement of four watchers inside the sanctuary for 4 months
- Maintenance of log bridge over Pom and Yumthanf stream
- Awareness raising and capacity building around the forest fringe villages
- Construction of patrolling hut and camping shed for frontline staff
- Training on Bamboo handicrafts
- Mobilisation of Rescue team for Himalayan Black bear and other activities.
- Engagement of sanctuary watchers for 4 month
- Anti-poaching and Trap demolition activities
- Awareness programme
- Habitat improvement with creation of glades/edges/trails/seed dibbling of fruit bearing trees and nectar yielding species etc for increase in avi faunal population, biodiversity and eco tourism
- Construction of Nature Trails
- Maintenance of salt licks
- Strengthening of frontline staffs ( by providing equipment for regular patrolling) in & around FWLS
- Mobilisation of Rescue team for Himalayan Black bear and other activities.
- Engagement of sanctuary for 5 sanctuary fire watchersfor 3 months @ 300/-day/person/month within FWLS
- Compensation and relief measures for crop damages by wild animals and ex-gratia payment for domestic animal kills by Wild animals at fringe villages of FWLS
- Problem mitigation for wild animals in urban areas Rumek sumick, Ranka, Sang, Martam
- Construction of Trekkers and patrolling hut inside the sanctuary at Phedi
- Purchase of camera trap for PWLS
- Development of water holes at Sunguray Tar and Ganek at Sunguray Tar and Ganek
- Construction of nature trails for patrolling by frontline staffs at Bich Kharka
- Surface and underground recharge of Maenam Wildlife Sanctuary with elaborate soil and moisture conservation techniques and Bangay Dara (Ravangla)



- Construction of water harvesting structures for wildlife in water scarcity areas. Paanch Bala Chowk, Gufadara, Pokhari Kharka, Khop
- Procurement of camera traps
- Training on making of holy bands
- Ex-gratia payments for crop damages and injury to human by wildlife
- Forest fire protection at Mahajan Kharka
- Preparation designing and installation of signage and publicity materials displaying Sanctuary code and other information at Forest Checkpost N27°18'44.1" E088°21'54.5"
- Livestock immunization at fringe villages of Maenam Wildlife Sanctuary at Borong Gumpa N27°21'24.0" E 88°20'42.5"
- Maintenance and repairing of previously constructed water reservoir tanks and underground polypipes and extension of waterholes
- Ex-gratia payment for crop damages and human injury by wildlife
- Maintenance of entry gates of Kitam Bird Sanctuary in Manpur and Harrabotey
- Maintenance of nature trails
- Forest Fire Protection
- Livestock Immunization

## 8 Physical Achievements

### a) Physical & financial targets and achievements of schemes

**Physical & financial targets and achievements of schemes implemented by the Wildlife Sector during the year 2014-15 are as under:**

#### A. Development of Wildlife Sanctuaries

##### 1. Under North Wildlife Division:

**Scheme:** Integrated Development of Wildlife Habitats at Shingba Rhododendron Sanctuary, North Sikkim (100% CSS). Activities carried out during the year 2014-15.



Sl. No.	Item of work	Quantity	Rate/unit (in lakh)	Amount (in lakhs)
	<b>Non-recurring activities</b>			
1	Bench terracing for landslide and avalanche areas for prevention and protection.	1000 cum	500/cum	5.00
Sub- total				5.00
	<b>Recurring activities</b>			
2	Habitat characterization for Shingba Rhododendron Sanctuary	43 Sq.km	0.10	4.30
3	Creation of fire line inside the sanctuary	3 km	1.00	3.00
4	Anti-poaching and camp demolition operations	2 camp	1.00	2.00
5	Engagement of four watchers inside the sanctuary for 4 months	4 no	300/md	1.44
6	Maintenance of log bridge over Pom and Yumthanf stream	2no	2.00	4.00
8	Awareness raising and capacity building around the forest fringe villages	2 no	0.50	1.00
<b>Grand Total</b>				20.74

**2. Under East Wildlife Division**

(a) **Scheme:** Integrated Development of Wildlife Habitats at Kyongnosla Alpine Wildlife Sanctuary, East Sikkim (100% CSS) - Activities carried out during the year 2014-15

Sl No	Item of Work	Sanctioned		Funds Utilised	
		Quantity	Amount	Quantity	Amount
A	<b>Non- Recurring Activities</b>				
1	Purchase of	5	125000.00	5	124965.00



	camera trap				
2	Construction of patrolling hut and camping shed for frontline staff at Namnang (Epcho)	1 no	600000.00	1 no	599987.00
	<b>Sub Total (A)</b>		<b>725000.00</b>		<b>724952.00</b>
B	<b>Recurring Activities</b>				
1	Training on Bamboo handicrafts	10 nos	300000.00	10 nos	298955.00
2	Mobilisation of Rescue team for Himalayan Black bear and other activities.	2	100000.00	2	99974.00
3	Engagement of sanctuary watchers for 4 month	4 nos for 4 months	144000.00	4 nos for 4 months	143880.00
4	Anti-poaching and Trap demolition activities	2	200000.00	2	200000.00
5	Awareness programme	2	100000.00	2	99899.00
	<b>Sub Total (B)</b>		<b>844000.00</b>		<b>842708.00</b>
	<b>Total (A)+(B)</b>		<b>1569000.00</b>		<b>1567660.00</b>



**(b) Scheme:** Integrated Development of Wildlife Habitats at Fambonglho Wildlife Sanctuary, East Sikkim (100% CSS). Activities carried out during the year 2014-15

SI No	Item of Work	Sanctioned				Funds Utilised	
		Quantity		Amount	Quantity		
A	<b>Non- Recurring Activities</b>						
1	Habitat improvement with creation of glades/edges/trails/s seed dibbling of fruit bearing trees and nectar yielding species etc for increase in avifaunal population, biodiversity and ecotourism at Ray Mendu, Balwani, Thartharay	10	nos	450000.00	10	nos	450000.00
2	Construction of Nature Trails ( 3km each) from Golitar to Noonthalay Tham dara (above purano Gumpa)	6	nos	1200000.00	6	nos	1199920.00
	<b>Sub Total (A)</b>			<b>1650000.00</b>			<b>1649920.00</b>
B	<b>Recurring Activities</b>						
3	Maintenance of salt licks at Thansing, Dhanbari	LS		50000.00	LS		49940.00
4	Strengthening of frontline staffs ( by providing equipment for regular patrolling)	LS		200000.00	LS		199997.00



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	in & around FWLS						
5	Mobilisation of Rescue team for Himalayan Black bear and other activities.	LS		200000.00	LS		199258.00
6	Engagement of sanctuary for 5 sanctuary fire watchers for 3 months @ 300/-day/person/month within FWLS	5 nos for 3 month		135000.00	5 nos for 3 month		134827.00
7	Compensation and relief measures for crop damages by wild animals and ex-gratia payment for domestic animal kills by Wild animals at fringe villages of FWLS	LS		300000.00	LS		300000.00
8	Awareness programme	4 nos		200000.00	4 nos		192998.00
9	Problem mitigation for wild animals in urban areas Rumeck sumick, Ranka, Sang, Martam	LS		100000.00	LS		70000.00
	<b>Sub Total (B)</b>			<b>1185000.00</b>			<b>1147020.00</b>
	<b>Total (A)+(B)</b>			<b>2835000.00</b>			<b>2796940.00</b>



(c) **Scheme:** Integrated Development of Wildlife Habitats at Pangolakha Wildlife Sanctuary, East Sikkim (100% CSS) . Activities carried out during the year 2014-15

SI N o	Item of Work	Sanctioned		Sanctioned	Funds Utilised
		Quantity	Amount	Quantity	
A	<b>Non- Recurring Activities</b>				
1	Construction of Trekkers and patrolling hut inside the sanctuary at Phedi	1 no	600000.00	1 no	599735
2	Purchase of camera trap for PWLS	5 no	125000.00	5 no	124965
3	Development of water holes at Sunguray Tar and Ganek at Sunguray Tar and Ganek	2 no	150000.00	2 no	149512
	<b>Sub Total (A)</b>		<b>875000.00</b>		<b>874212.00</b>
B	<b>Recurring Activities</b>				
4	Maintenance of salt licks for PWLS	LS	100000	LS	99560
5	Compensation and relief measures for crop damages by wild animals and ex-gratia payment for domestic animal kills by Wild animals at fringe villages of PWLS	LS	200000	LS	200000
6	Engagement of sanctuary watchers for 4 month at prone areas of FWLS	6	216000	6	216000
7	Mobilisation of Rescue team for Himalayan Black bear and other activities.	LS	200000	LS	199785
8	Training on Bamboo handicrafts	10	300000	10	299985
9	Awareness programme	2	100000	2	99770
	<b>Sub Total (B)</b>		<b>1116000</b>		<b>1115100</b>
	<b>Total (A)+(B)</b>		<b>1991000</b>		<b>1989312</b>



3. South Wildlife Division

(a) **Scheme:** Integrated Development of Wildlife Habitats at Kitam Bird Sanctuary, South Sikkim (100% CSS) . Activities carried out during the year 2014-15

Sl. No.	Items of Works	Target		Expenditure	
		QTY.	Amount (in lakhs)	QTY.	Amount (in lakhs)
<b>Non recurring activities</b>					
1	Procurement of camera traps	5 Nos.	1.25	5 Nos.	1.25
<b>Recurrent Activities</b>					
2	Maintenance and repairing of previously constructed water reservoir tanks and underground polypipes and extension of waterholes	2 Unit	4.00	2 Unit	3.95956
4	Ex-gratia payment for crop damages and human injury by wildlife	1 No.	4.00	1 No.	4.00
5	Maintenance of entry gates of Kitam Bird Sanctuary in Manpur and Harrabotey	2 Nos.	3.00	2 Nos.	2.95411
6	Maintenance of nature trails	2 No.	2.00	2 No.	2.00
7	Forest Fire Protection	1 No.	3.00	1 No.	3.00
8	Livestock Immunization	1 No.	0.50	1 No.	0.50
<b>TOTAL</b>			<b>17.75</b>		<b>17.66367</b>

(b) **Scheme:** Integrated Development of Wildlife Habitats at Maenam Wildlife Sanctuary, South Sikkim (100% CSS). Activities carried out during the year 2014-15

Sl. No.	Items of Works	target		Expenditure	
		QTY	Amount (in lakhs)	QTY.	Amount (in lakhs)





Non recurring activities					
1	Plantation of small bamboo and dibbling of fruit bearing species for habitat improvement at Thulo Bajrathe.	1 No.	3.00	1 No.	2.99775
2	Construction of nature trails for patrolling by frontline staffs at Bich Kharka	1 Km	4.00	1 Km	3.87274
3	Surface and underground recharge of Maenam Wildlife Sanctuary with elaborate soil and moisture conservation techniques and Bangay Dara (Ravangla)	5 Ha	3.50	5 Ha	3.44375
4	Construction of water harvesting structures for wildlife in water scarcity areas. Paanch Bala Chowk, Gufadara, Pokhari Kharka, Khop	4 Nos.	1.00	4 Nos.	0.96024
Recurring activities					
5	Procurement of camera traps	5 Nos.	1.25	5 Nos.	1.25
6	Training on making of holy bands	20 person	2.00	20 person	1.8965
7	Ex-gratia payments for crop damages and injury to human by wildlife	1 No.	2.00	1 No.	2
8	Forest fire protection at Mahajan Kharka	1 Nos.	2.00	1 Nos.	1.9906
9	Preparation designing and installation of signage and publicity materials displaying Sanctuary code and other information at Forest Checkpost N27°18'44.1" E088°21'54.5"	1 No.	1.00	1 No.	0.98733
10	Livestock immunization at fringe villages of Maenam Wildlife Sanctuary at Borong Gumpa N27°21'24.0" E 88°20'42.5"	1 Nos.	0.50	1 Nos.	0.45365
	<b>TOTAL</b>		<b>20.25</b>		<b>19.85256</b>



8. Other Achievement:

Human - animal conflict during the year 2013-14

Date/ Period	Victim & Damages	Address	Reported	Damaged caused by	Action Taken
July-Sept. 2013	Maize, Cardamom damaged. 12 nos. Goats killed .	Sumick, Dhandari, Tumin Namrang, Thanshing, Singbel	By villagers, Panchayat & EDC members	Black Bear, Porcupines, Leopard & monkeys	80% paid, remaining 20% process under TFC.
June-July, 2013	Maize damaged. Goats killed.	Chuba-Nazitam, Rombang,L/Rombang, Sumbuk, Pallidara	By villagers	Monkey, Small Leopard, Wild Boar,	Paid compensatio n
August, 2013	Maize damaged. Goats killed.	Sadam, Mallidara, paanchgarey, Dhanbarey goan, Manpur, Belbotey Goan, Compound Mazitar	By villagers	Monkey, Small Leopard, Wild Boar,	Paid compensatio n
Sept., 2013	Goats killed,	Sadam, Kerabari	By villagers	Leopard	Paid crop compensatio n
July-Sept. 2013	Huge amount of crops like Maize, Potato, large Cardamom damaged.	All along the fringe villages of Barsey Rhododendron Sanctuary (18 major Villages)	By villagers, Panchayat, Himal Rakshak & EDC members	Black Bear, Porcupines, & monkeys, Wild Boar	60% paid, remaining 40% process under TFC.
April 2012 – March 2013	16 nos. Goats, 8 nos of cows and 2 nos of ox killed.	Begha, Uttarey, Deythang, Hee Patal, Khorong, Ribdi, Tareybhiri, Soreng, Dentam, sreebadam	By villagers, Panchayat, himal Rakshak & EDC members	Leopard, Black Bear, Leopard cat	



TERRITORIAL (WEST)-2013-2014

1. Name of Circle/Division/Directorate/ Other

West Territorial Division.

2. Title of work programme/Scheme/Other

INTENSIFICATION OF FOREST MANAGEMENT SCHEME (IFMS)

3. Functions and objective-

The scheme intends to address the general problems of forest protection

4. Implemented by Division :

West Territorial Division

5. Work implemented at-

Different Ranges

6. Activities undertaken-

1. Fire line maintenance;
2. Engagement of Firewatchers;
3. Control burning;
4. Temporary fire camp;
5. Water storage tank;
6. Awareness Camp;
7. Upgradation of FG Quarter & Check Post

Physical achievement

Sl. No.	Name of work	Phy	Fin (Rs.)
1	Fire line maintenance	50 km	1,99,900
2	Engagement of Firewatcher	12 nos	2, 87,960
3	Control burning	70 km	1,93,705
4	Temporary fire camp	3 Nos	1,49,832
5	Water storage tank.	1 no	3,82,836
6	Awareness Camp	10 Nos	1,00,000
7	Upgradation of FG Quarter & Check Post	2 nos	5,57,182
Total			1871415



**Tangible Outputs-**

- Strengthening of Infrastructure like FG quarter, check posts, water storage tank

**Intangible Outputs-**

- Effective Control and Management of Forest Fire to a large extent





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TERRITORIAL (WEST)- 2013-2014

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**1-Name of Circle/Division/Directorate/ Other-**

West Territorial Division

**2-Title of work programme/Scheme/Other-**

13<sup>TH</sup> FINANCE COMMISSION

**3-Functions and objective-**

To provide the wherewithal for preservation, so as to halt and reverse past declines in the quantum and quality of area under forest

**4-Plan and Non-Plan Allocation**

PLAN

**5-Implemented by Circle/Division/Block/ Other if any-**

Division

**6-Work implemented at**

Different Ranges

**7-Activities undertaken-**

- Repair of DFO/FG quarters
- Celebration of Paryavaran Mahotsav & Ten minutes to earth
- Legal matters

**8. Physical achievement-**

With particulars reference to the Plan Schemes in financial & physical terms

Sl. No.	Name of work	Phy	Fin (Rs.)
1	Repair of FG quarter, Tashiding	1 no	1,83.860
2	Repair of FG quarter, Soreng	1 No	1,85.926



3	Legal matters		23,895
4	Repair of DFO quarter	1No	1,84,800
5	Celebration of Paryavaran Mahotsav under Yuksam Range		20,000
6	Ten minutes to earth under Dentam Range		12,250
7	Ten minutes to earth under Soreng Range		5,000
8	Ten minutes to earth under Sombaria Range		22,350
9	Paryavaran Mahotsav & Ten minutes to earth under Gyalshing Range		30,000
Total			113495

**Tangible Output/s:**

Strengthening of Infrastructure like DFO/FG quarter

**Intangible Output/s:**

General awareness regarding environment created through celebration of Paryavaran Mahotsav & Ten minutes to earth.





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**TERRITORIAL (NORTH)- 2013-14**

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**1-Name of Circle/Division/Directorate /Other**

North Territorial Division

**2-Title of Work Programme/ Scheme /Other**

13<sup>th</sup> Finance Commission

**3-Implementation by Circle/Division/Block/Other if any -**

Division

**4-Work implemented at**

North District

**5-Activities Undertaken -**

1. Construction of forest guard quarter.
- 2.Minor upgradation of quarters

**8-Physical Achievement -100%**

**With Particular reference to the Plan schemes in Financial and Physical terms-**

Rupees Fourteen lakhs was utilized by North Territorial Division during the current financial year under the said scheme.



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**TERRITORIAL (NORTH)- 2013-14**

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**1-Name of Circle/Division/Directorate /Other :**

North Territorial Division.

**2-Title of Work Programme/ Scheme :**

Intensification of Forest Management Scheme

**3-Implementation by Circle/Division/Block/Other if any**

Division

**4-Work implemented at**

North District

**5. Activities Undertaken**

- Fireline maintenance
- Engagement of Firewatcher
- Control Burning
- Temporary fire camp
- Construction of water storage Tank
- Awareness Camp
- Upgradation of Forest Checkpost
- Upgradation of Kitchen of Forest rest house
- Upgradation of Forest transit camp

**6-Physical Achievement -100%**

**-With Particular reference to the Plan schemes in Financial and Physical terms-**

Rs.21, 91,000/- (Rupees twenty one lakhs ninety one thousand) was utilized by North Territorial Division during the current financial year under the said scheme.





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UTILIZATION DIVISION- 2013-14

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1. Name of Circle/Division/Directorate /Other

Utilization Division

2. Title of Work Programme/ Scheme /Other-

Operational Expenses-Non Plan

3. Function and Objectives-

- Revenue collection from selling sawn timber, import fees, etc.
- Operation of Govt. Sawmill, Chuba, East Sikkim.
- Strengthening of Govt. Sawmill, Chuba, East Sikkim.
- Salvaging of trees & poles posing danger.
- Distribution of Sal Timber to REDRH beneficiaries free of cost.

4. Plan and Non-Plan allocations-

Non Plan-Plan: Rs. 31.75 lakhs

5. Implementation by Circle/Division/Block/Other if any-

Division

6. Work implemented at-

- Conversion & Up gradation works at Govt. Sawmill, Chuba, East Sikkim.
- Removal of Posing danger trees all over State as forwarded from Territorial Divisions.

7. Activities Undertaken-

- Removal of Posing danger trees.
- Reinstallation of Saw Machine.
- Strengthening of New Shed & Stocking Yard.
- Repair of Electricity connection at Sawmill.
- Distribution of Sal Timber to REDRH beneficiaries.

8-Physical Achievement-

a)-With Particular reference to functions of the Department-

- Removal of Posing danger trees/poles
- Conversion of timber at Sawmill
- Distribution of 980 cft of Sal Timber to REDRH beneficiaries free of cost

b)-With Particular reference to the Plan schemes in Financial and Physical terms-



- Total Revenue collection of Rs. 55,88,702/- only from selling sawn timber, import fees, etc.

**8. Tangible Outputs-**

- Total Revenue collection of Rs.55,88,702/- only.
- Distribution of 980 cft of Sal Timber to REDRH beneficiaries free of cost.

**10. Intangible outputs**

Quality Forestry products to beneficiaries





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PARKS & GARDENS CIRCLE-2013-14

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**1. Name of Circle/Division/Directorate /Other-**

Parks & Garden Circle

**2. Function and Objectives-**

- Landscaping and beautification
- Decoration of Venues for All State and National Function.

**3. Plan and Non-Plan allocations-2013-14**

PLAN (In Lakh)- 49.40

NON-PLAN (In Lakh)---128.73

**4. Title of Work Programme/ Scheme /Other-**

Construction of Poly house, Construction of Chowkidar hut, landscaping & beautification and purchase of tools & implements under Sikkim Ecology Cess Fund & Environment Cess Fund

**5-Implementation by Circle/Division/Block/Other if any-**

Parks & Garden Circle

**6-Work implemented at-**

P.T. Namgyal (Ridge Park & Millennium Garden)

**7-Activities Undertaken-**

Construction of Poly house, Construction of Chowkidar hut, landscaping & beautification and purchase of tools & implements under Sikkim Ecology Cess Fund & Environment Cess Fund

**8-Physical Achievement-**

3 Nos.

**a)-With Particular reference to functions of the Department-**

- Landscaping and beautification
- Decoration of venues of all State and National Functions

**b)-With Particular reference to the Plan schemes in Financial and Physical terms-**

- Decoration of venues of all State and National Function- Rs. 25.00 lakhs.

**9. Other Achievement, Innovations, Reforms etc of significant natures**

Construction of Poly house, Construction of Chowkidar hut, landscaping & beautification



**9. Tangible Outputs-**

- Landscaping & beautification
- Productions of ornamental plants & potted flowers around the year

**10. Intangible outputs**

Improvement of aesthetics of different gardens under Parks & Garden Circle

**11. Parks & Garden Circle**

One of the integral circle of the Department with mandate to decorate the venues, construction of welcome gates etc. for National and State functions apart from maintenance of Government assets such as Rajbhawan Garden, Office-cum-Residence of Hon'ble Governor of Sikkim, Mintokgang Garden, the official residence of Hon'ble Chief Minister of Sikkim, gardens in and around Gangtok City, Saramsa Garden and Bhanu Udhyan at Singtam etc.

The circle works in coordination with the other State Departments mainly with the Home Department (Protocol section) and caters to the various departmental functions apart from the maintenance of Government assets of different Gardens in and around Gangtok. Parks and Gardens Circle also undertakes the landscaping and beautification works as and when required for the improvement of the aesthetics of the area. The circle is one of the circles with good work force both for maintenance of gardens and decoration of venues. Many times the circle has to cater consecutively more than three to four events therefore, a mobile team is always alert for decoration/construction of welcome gates which ultimately not only represent the Forest, Environment and Wildlife Management Department but State as a whole.





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HIMALAYAN ZOOLOGICAL PARK

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1. **Circle** : Directorate of Himalayan Zoological Park  
**Division** : Himalayan Zoological Park
2. **Title of the work programme/Schemes:**  
**I. 13<sup>th</sup> Finance Commission**

Sl.No.	Items of Works	Physical Achievement
01.	Construction of Porcupine Den	1 nos
02.	Feeding House of Porcupine	1 nos
03.	Part Roofing of Pheasant Enclosure	1 nos
04.	Squeeze for Carnivores & Herbivores	4 nos
05.	Repairing of Old Enclosure & one New Enclosure for rescued wild animals	2 nos

**II. 50:50 CSS (CZA: State Government)**

Sl.No.	Items of Works	Physical Achievement
01.	Zoo Interpretation Sinages	20 nos
02.	Construction of Footpath to New & Old Enclosures	0.412 km
03.	Disaster Mitigation- Construction of Dry Stone Wall.	1 nos
04.	Purchase of Squeeze Cages	2 nos

3. **Functions & Objectives:**

- To improve the Infrastructure with respect to the Animals Enclosure
- To provide the essential supporting instruments for the animals
- To improve the behavioural enrichment of the animals
- To provide the qualitative feeds to the captive animals
- To improve the animals' health and numerical strength of the animals through the captive breeding
- Conservation of endangered species of Himalayan fauna



- To educate the students and publics on the importance of wild animals and need of its conservation

**4. Plan and Non-Plan Allocation:**

Sl.No.	Schemes	Items of Works	Financial Achievement (Rs in Lakhs)
01.	50:50 CSS (CZA: State Government)	1. Zoo Interpretation Sinages	5.00
		2. Construction of Footpath to New & Old Enclosures	5.00
		3. Disaster Mitigation- Construction of Dry Stone Wall.	1.00
		4. Purchase of Squeeze Cages	1.00
<b>Total Rs</b>			<b>12.00</b>
02.	13 <sup>th</sup> Finance Commission	1. Construction of Porcupine Den	2.04
		2. Feeding House of Porcupine	3.07
		3. Part Roofing of Pheasant Enclosure	3.65
		4. Squeeze for Carnivores & Herbivores	2.00
		5. Repairing of Old Enclosure & one New Enclosure for rescued wild animals	6.00
<b>Total Rs</b>			<b>16.76</b>

**5. Implementation:**

Himalayan Zoological Park, FEWMD

**6. Work Implemented at**

Himalayan Zoological Park, Bulbuley.

**7. Activities undertaken**

**I. 50:50 CSS (CZA: State Government)**

Sl.No.	Items of Works	Physical Achievement	Financial Achievement (Rs in Lakhs)
1.	Zoo Interpretation Sinages	20 nos	5.00



2.	Construction of Footpath to New & Old Enclosures	0.412 km	5.00
3.	Disaster Mitigation- Construction of Dry Stone Wall.	1 nos	1.00
4.	Purchase of Squeeze Cages	2 nos	1.00

## II. 13<sup>th</sup> Finance Commission

Sl. No.	Items of Works	Physical Achievement	Financial Achievement (Rs in Lakhs)
1.	Construction of Porcupine Den	1 nos	2.04
2.	Feeding House of Porcupine	1 nos	3.07
3.	Part Roofing of Pheasant Enclosure	1 nos	3.65
4.	Squeeze for Carnivores & Herbivores	4 nos	2.00
5.	Repairing of Old Enclosure & one New Enclosure for rescued wild animals	2 nos	6.00

### 8. Physical Achievements:

#### a. With Particular reference to the functions of the department:

SL. No.	Particulars	Physical Achievements
1.	Captive Breeding	2-New births of captive animals occurred during year.
2.	Enclosures	Repairing of Old Enclosure & one New Enclosure for rescued wild animals-2, Construction of Porcupine Den, Part Roofing of Pheasant Enclosure, Feeding House of Porcupine.
3.	Immunization	Peripheral immunization for Foot and Mouth Diseases twice a year.



9. Mention Other achievements, Innovations, Reforms etc. of significant nature:

SL.No.	Particulars	Achievements, Innovations, Reforms etc.
1.	Revenues	Annual Revenue increased from 6.00 Lakhs to 7.00 Lakhs.
2.	Captive Breeding	Successful Breeding of Red Panda and Ghoral.
4.	Zoo Education	Address on the importance of wildlife and ex-situ conservation to the students, visitors and trainees.
5.	Infrastructure	Construction of Porcupine Den-1, Feeding House of Porcupine-1, Part Roofing of Pheasant Enclosure1, Squeeze for Carnivores & Herbivores-4, Repairing of Old Enclosure & one New Enclosure for rescued wild animals, Zoo Interpretation Sinages-20,Squeeze Cages-2.

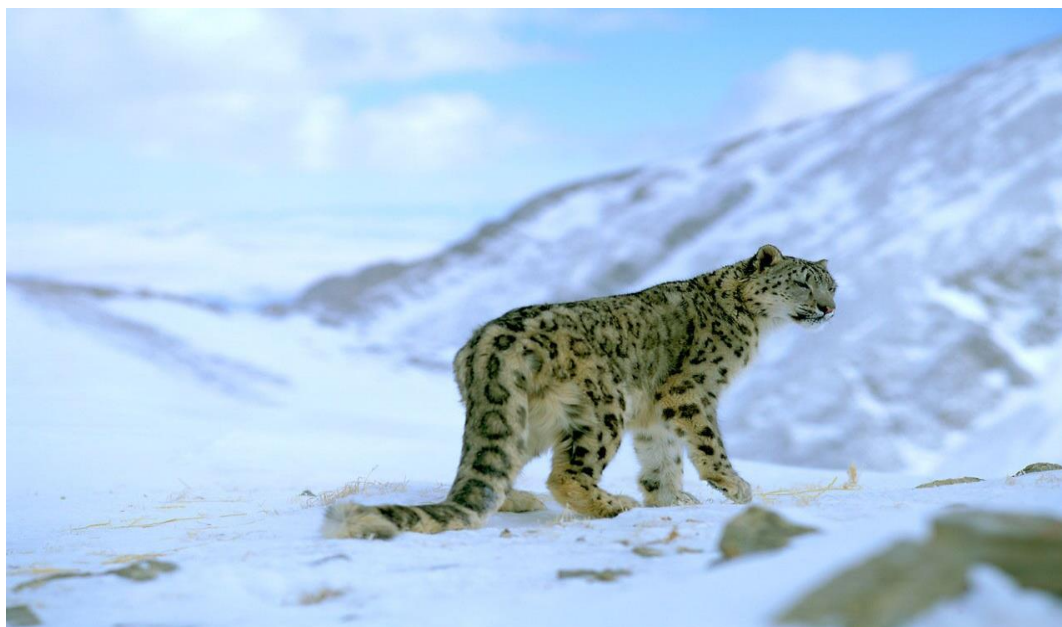
10. Tangible Outputs:

a. **Captive Breeding:** Successful Breeding of Red panda-1, Ghoral-1.

b. **Revenue:** Increased from 6.00 Lakhs to 7.00 Lakhs

11. Intangible Outputs:

a. Zoo Education: School, Trainees from different institutions visited zoo for understanding Zoo, Ex-situ-conservation, its role and importance.







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STATE LEVEL NODAL AGENCY - 2013-14

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**1. Name of Circle/ Division/ Directorate/ Other**

State Level Nodal Agency (SLNA)

**2. Functions and Objectives**

Soil & Water Conservation Measures

**3. Plan and Non- Plan Allocations**

CSS (90:10)

**4. Title of Work Programme/ Scheme/ Other**

Integrated Watershed Management Programme(IWMP)

**5. Implemented by**

Social Forestry

**6. Work implemented at**

All four Districts

**7. Activities Undertaken**

Soil & Moisture Conservation, Capacity Building, Production System, Micro Enterprise, Livelihood etc.

**8. Physical Achievements**

37343 ha. (2013-14)

**9. Tangible Outputs**

Distribution of Piglet, Vamaraja Poultry Chicks, Construction of foot bridge, Plantation

**10. Intangible outputs**

Protection of soil erosion, greenery, conservation of water, livelihood upliftment

**11. Integrated Watershed Management Programme (IWDP)-** is a programme of the Department of Land Resources with an objective of optimum use of resources, sustainable outcomes and integrated planning. The scheme was launched during 2009-10. The programme is being implemented as per Common Guidelines for Watershed Development Projects 2011. The main objectives of the IWMP are prevention of soil erosion, regeneration of natural vegetation, rain water harvesting and recharging of the ground water table.

The project is funded by Ministry of Rural Development, Government of India on 90:10 (Centre: State) share basis. There are total 15 projects sanctioned for the State of Sikkim out of which 11 projects are in the implementation stage, and work for 4 projects are in planning stage. The project is implemented as per the guidelines of Govt. of India in 3 phases viz, Preparatory, Work &



Consolidation phase. There are 5 projects in East District, 2 Projects in North District, 5 projects in South District and 3 projects in West District taken up.



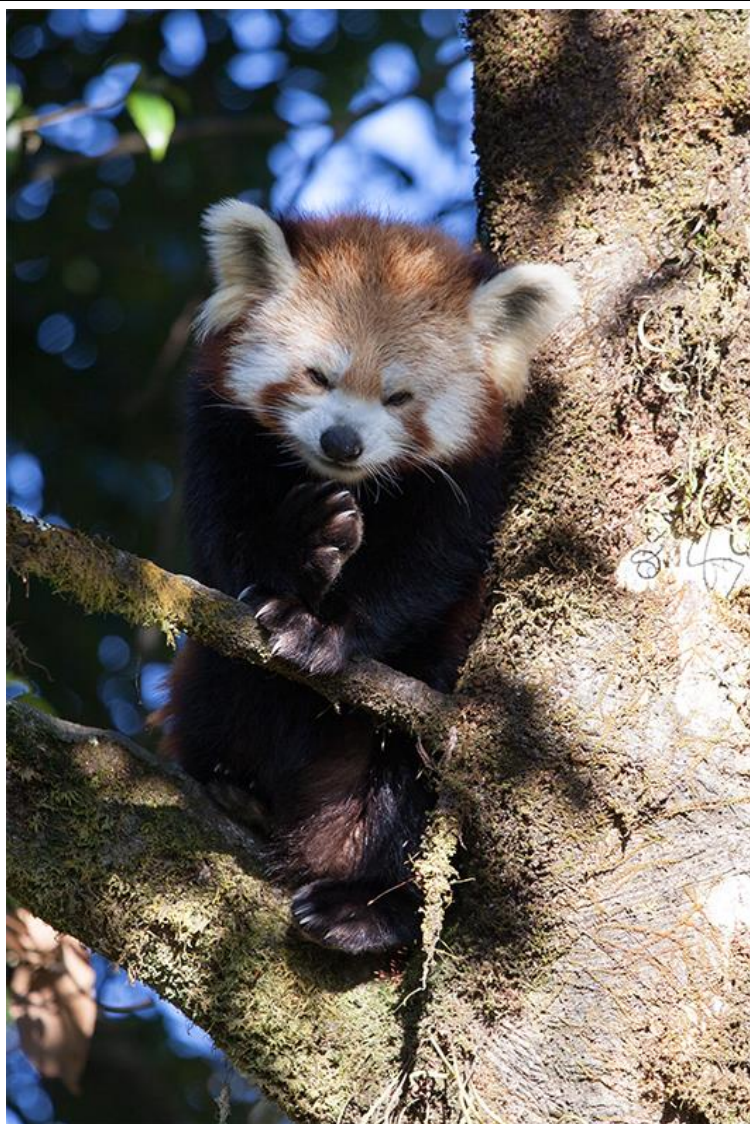
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FOREST FIRE

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Fire incidents during 2013-14.

Sl.No.	Year	District	No.of incidents	Area damage(Ha)
01	2013-2014	North	5	35
		East	25	178
		West	35	385
		South	15	283
		<b>Total</b>	<b>80</b>	<b>881</b>





STATE POLLUTION CONTROL BOARD- 2013-14

1. Name of Board : State Pollution Control Board
2. Functions and Objectives Advisory and Regulatory
3. Plan and Non-Plan Allocations Rs. 9,08,430/-
4. Title of Work Programme/Scheme/Other Nil
5. Pollution and Prevention Status of Sikkim

Theme	Data Required	Units
AMBIENT AIR QUALITY IN MAJOR CITIES	Mean SO <sub>2</sub> concentration of major cities (population over 100,000)	<u>Gangtok:</u> 5.2 µg/m <sup>3</sup> (2014) 5.9 µg/m <sup>3</sup> (2015)
	Mean NO <sub>2</sub> concentration of major cities	<u>Gangtok:</u> 15.6 µg/m <sup>3</sup> (2014) 16.5 µg/m <sup>3</sup> (2015)
	Mean PM <sub>10</sub> concentration of major cities	<u>Gangtok:</u> 54.7 µg/m <sup>3</sup> (2014) 60.2 µg/m <sup>3</sup> (2015)
	Annual Growth in registered factories	Upto 2011 = 36 nos. to 75 - (39 increased) 2012 = 75 nos. to 84 - (09 increased) 2013 = 84 nos. to 92 - (08 increased) 2014 = 92 nos. to 98 - (06 increased) 2015 = 98 nos. to 102 - (04 increased)
	Annual increase in number of vehicles	Total no. vehicle = 46205 Tot. diesel vehicle = 11209 Tot. petrol vehicle = 34996



		<p>Two wheeler = 3630</p> <p>Bus= 346, Trucks = 4713</p> <p>Tractors = 171, Ambulance = 105</p>	
	Critical areas in terms of air pollution	NIL	
SURFACE WATER BODIES	<ul style="list-style-type: none"> <li>• pH</li> <li>• dissolved Oxygen mg/l</li> <li>• calcium mg/l</li> <li>• sodium mg/l</li> <li>• potassium mg/l</li> <li>• nitrate mg/l</li> <li>• phosphate mg/l</li> <li>• B.O.D mg/l</li> <li>• C.O.D mg/l</li> <li>• Air (Temp)</li> <li>• Water (Temp)</li> </ul>	<u>(Rangit river)</u>	<u>(Teesta river)</u>
		<p>6.9</p> <p>10.5 mg/l</p> <p>18.2 mg/l</p> <p>8.5 mg/l</p> <p>0.6 mg/l</p> <p>10.5 mg/l</p> <p>0.4 mg/l</p> <p>2.5 mg/l</p> <p>10.5 mg/l</p> <p>28<sup>0</sup> C</p> <p>18<sup>0</sup> C</p>	<p>6.7</p> <p>10.2 mg/l</p> <p>16.2 mg/l</p> <p>10.5 mg/l</p> <p>0.8 mg/l</p> <p>12.5 mg/l</p> <p>0.7 mg/l</p> <p>2.7 mg/l</p> <p>12.5 mg/l</p> <p>26<sup>0</sup> C</p> <p>14<sup>0</sup> C</p>
DRINKING WATER QUALITY	<ul style="list-style-type: none"> <li>• pH</li> <li>• conductivity</li> <li>• B.O.D</li> <li>• Nitrate</li> <li>• Magnesium</li> <li>• Free CO2</li> <li>• Chloride</li> </ul>	<u>(Ratey Chu)</u>	<u>(Salep tank)</u>
		<p>7.2</p> <p>18.5 µs</p> <p>1.1 mg/l</p> <p>4.5 mg/l</p>	<p>7.0</p> <p>15.5 µs</p> <p>0.5 mg/l</p> <p>2.5 mg/l</p>



	<ul style="list-style-type: none"> <li>• Sulphate</li> <li>• Total Hardness</li> <li>• TSS</li> <li>• TDS</li> </ul>	<p>3.1 mg/l</p> <p>8.4 mg/l</p> <p>10.5 mg/l</p> <p>2.4 mg/l</p> <p>15.3 mg/l</p> <p>6.7 mg/l</p> <p>4.3 mg/l</p>	<p>1.1 mg/l</p> <p>5.4 mg/l</p> <p>8.5 mg/l</p> <p>1.4 mg/l</p> <p>12.3 mg/l</p> <p>4.7 mg/l</p> <p>2.3 mg/l</p>
QUALITY OF LAKES	<ul style="list-style-type: none"> <li>• pH</li> <li>• dissolved Oxygen mg/l</li> <li>• calcium mg/l</li> <li>• sodium mg/l</li> <li>• potassium mg/l</li> <li>• nitrate mg/l</li> <li>• phosphate mg/l</li> <li>• B.O.D mg/l</li> <li>• C.O.D mg/l</li> <li>• Air (Temp)</li> <li>• Water (Temp)</li> </ul>	<p><u>(Tsongmo lake)</u></p> <p>7.3</p> <p>5.8 mg/l</p> <p>2.6 mg/l</p> <p>3.1 mg/l</p> <p>0.4 mg/l</p> <p>10.4 mg/l</p> <p>&lt;0.02 mg/l</p> <p>1.5 mg/l</p> <p>14 mg/l</p> <p>20.2 mg/l</p> <p>10.5 mg/l</p>	<p><u>(Gurudongmar lake)</u></p> <p>6.5</p> <p>10.5 mg/l</p> <p>5.6 mg/l</p> <p>2.1 mg/l</p> <p>0.2 mg/l</p> <p>8.4 mg/l</p> <p>0.01 mg/l</p> <p>0.95 mg/l</p> <p>05 mg/l</p> <p>6.0 mg/l</p> <p>9.5 mg/</p>
SOUND LEVELS	<ul style="list-style-type: none"> <li>• Industrial Area</li> <li>• Commercial Area</li> <li>• Residential Area</li> </ul>	<p>(Mazitar, East) Leq. 65.2 dB</p> <p>(M.G. Marg) Leq. 54.3 dB</p>	



	<ul style="list-style-type: none"><li>• Silence Zone</li></ul>	(Dev. Area) Leq. 54.1 dB  (White Hall) Leq. 43.2 dB
<b>WASTE MAMAGEMENT</b>	<ul style="list-style-type: none"><li>• Solid Waste generated</li><li>• E-waste generated</li><li>• Hazardous waste generated Method of disposal for each type of waste and volume of waste disposed by each method</li></ul>	50 MT (approx.)  30-40 MT  35704 Kgs (during 2014)  (Disposed at West Bengal Waste Management Ltd.)  (2015report awaited)

#### 6. Physical Achievements

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- a) **With particular reference to functions of Department** 100%
7. **Tangible Outputs** Enhancement of Air & Water Quality
8. **Intangible outputs** Reduction of pollution

#### 9. STATE POLLUTION CONTROL BOARD-SIKKIM

The State Pollution Control Board-Sikkim has been constituted under the provision of Section 4 of water (Prevention & Control of Pollution) Act, 1974, the main functions of the State Pollution Control Board is to act as an Advisory Body to the State Government on matter concerning to the prevention, control or abatement of pollution and to implement Acts & Rules pertaining to protection of Environmental pollution.

The State Pollution Control Board has been entrusted with the implementation of following Acts & Rules:

1. Water (Prevention & Control of Pollution) Act, 1974
2. Water (Prevention & Control of Pollution) Cess Act, 1977
3. Air (Prevention & Control of Pollution) Act, 1981
4. The Environment (Protection) Act, 1986
5. Hazardous Waste (Management & Handling) Rules, 1989



6. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
7. Public Liability Insurance Act, 1991
8. Bio-Medical Waste (Management & Handling) Rules, 1998
9. The Recycled Plastic Manufacture and Usage Rules, 1999
10. Environment (Protection) (Second Amendment) Rules, 1999 regarding standard of fire works
11. Noise Pollution (Regulation and control) Rules, 2000
12. The Municipal Solid Waste (Management & Handling) Rules, 2000
13. Ozone Depleting Substances (Regulation & Control) Rules, 2000
14. E-waste Management & Handling Rules, 2013

The State Pollution Control Board-Sikkim has taken various initiatives and created baseline information on the matters pertaining to both water & Air pollution and also noise pollution. Besides these, the State Board has been engaged in generating awareness amongst all sections of the society on the ill effects of pollution and how to prevent it.

The main achievements of the Boards are as follows:

1. Generation of baseline data on the quality of rivers, lakes, jhoras and potable drinking water of Sikkim.
2. Establishment of 14 Water Quality Monitoring Stations (09 in river Testa and 05 in river Rangit) under the National Water Monitoring Programme (NWMP).
3. Setting up of two Air Quality Monitoring Stations at Gangtok (Hospital point & White Hall Complex) under National Air Monitoring Programme (NAMP).
4. The Board is under process for establishment of seven new Air Quality Monitoring Stations under NAMP in Chungthang, Mangan, Pelling, Namchi, Raangla, Rangpo & Singtam.
5. The Board has recently appointed 7 Project Assistants and 14 Field Assistants to the man these stations.
6. The Board is also the Nodal Agency for organizing Paryavaran Mahotsav (June 15<sup>th</sup> to 30<sup>th</sup> June) in the State of Sikkim.
7. The Board has conducted Public hearing for several developmental activities in the state.
8. The Board has been granting consents to new industrial units for establishment and operation of the same.
9. The Board has been carrying out regular monitoring of industries and factories in the State of Sikkim.
10. The Board has been carrying out noise pollution in the different festive occasions.





11. The Board has been providing grants to different registered NGO's for carrying out environment awareness programmes.
12. The Board has been distributing dustbins to different institutions, religious places, tourist destinations and commercial areas for proper management of solid waste.
13. The Board is actively involved in Swachh Bharat Mission and is providing every possible help to make the programme successful.
14. The Board has been continuously monitoring hydro-electric projects.
15. The Board has prepared resource materials, produced film on environment protection, solid waste management, environmental songs and has organized several street plays through the local artists to generate awareness on environment protection.
16. The Board has signed an agreement with West Bengal Pollution Control for utilizing the Common Hazardous Waste Management Facility of M/s West Bengal Waste Management Facility situated at Haldia, West Bengal for scientific management of hazardous waste generated by pharmaceuticals and other industries of Sikkim.
17. Ban on burning of waste, leaf litters, twig and branches have been notified by the State Government.
18. Ban on manufacture, sale, use and bursting of fire crackers have been notified.
19. The whole of the State has been notified as Air Pollution Control Area.
20. The Board has conducted public hearings for 18 hydro-electric projects and has prepared and submitted Reports.
21. The Board has been strictly monitoring the compliance of the conditions stipulated in the consents.
22. The Board has proposed to construct "Parivesh Bhawan" (an administrative-cum-laboratory building) which has been approved by State Government.
23. The other ongoing projects are on continuous basis.



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ENVIS - 2013-14

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**1. Name of Circle/Division/Other.**

Environmental Information System (ENVIS) Centre

**2. Functions and Objectives.**

To collect, collate, store in retrieval system and disseminate data and information on "Status of Environment and its Related Issues"

**3. Plan and Non -Plan Allocations.**

Plan (100 % CSS) - Rs.11.48 lakhs

Vide Sanction No: 11/68/2004 - EI

Dated:20/08/2013 of MoEFCC, Gol

**4. Title of work programme/scheme/other.**

Environmental Information System on Status of Environment and its Related Issues

**5. Implemented by Circle/Division/Block/Other if any.**

ENVIS Centre

**6. Work implemented at.**

Sikkim State

**7. Activities Undertaken.**

Indian State-level Basic Environmental Information Database (ISBEID) development, website maintenance (www.sikennis.nic.in), publication of quarterly newsletters

**8. Physical Achievements**

**(a). With particular reference to functions of the Department.**

- Published 300 nos each of quarterly newsletter (three issues)
- Published 1000 nos of PANDA newsletter
- Published 300 nos of Pictorial booklet on Paryavaran Mahotsav 2013
- Published 200 nos of awareness booklet on Biodiversity Conservation



(b) With particular reference to the plan schemes in Financial and Physical terms

Financial and Physical Achievement of ENVIS Centre 2013-14

Sanctioned Object Head	Financial Achievement			Physical Achievement Other than 8(a) above
	Amount Sanctioned (in Rs)	Expenditure incurred (in Rs.)	Fin. Achievement In %	
Manpower	7,68,000	7,68,000	100 %	3 Persons
Others (Database development, website maintenance, printing of newsletters, contingency, stationery, consumables, AMC, Internet charges, inter-center interaction workshop etc.)	3,40,000	3,40,000	100 %	10 out of 17 ISBEID modules completed; 1098 nos of website updates,
Travel etc.	40,000	40,000	100 %	1 National workshop at Bhopal and 1 regional meeting at Guwahati
	<b>11,48,000</b>	<b>11,48,000</b>	<b>100 %</b>	

12. Mention other Achievement, Innovations, Reforms etc of significant natures

- ENVIS Centre Sikkim designated as GURU Centre by MoEFCC, GoI for creative usage and content re-organization of CMS driven website



- Quarterly newsletter publication started

### **10. Tangible Outputs**

Published information products like quarterly newsletter, PANDA newsletter, Paryavaran Mahotsav booklet etc

### **13. Intangible outputs**

Environment awareness activity at 766 school eco-cubs, environment information through online/ website media

### **14. ENVIS**

.ENVIS is a decentralized system with a network of distributed subject oriented Centers ensuring integration of national efforts in environmental information collection, collation, storage, retrieval and dissemination to all concerned.

Realizing the importance of Environmental Information, the Government of India, in December, 1982, established an Environmental Information System (ENVIS) as a plan programme. The focus of ENVIS since inception has been on providing environmental information to decision makers, policy planners, scientists and engineers, research workers, etc. all over the country. Presently the ENVIS network consists of Focal Point at the Ministry of Environment, Forests and Climate Change and ENVIS Centers setup in different organizations/establishments in the country in selected areas of environment.

#### **Objectives of ENVIS Centers**

##### **Long-term objectives**

- To build up a repository and dissemination centre in Environmental Science and Engineering;
- To gear up the modern technologies of acquisition, processing, storage, retrieval and dissemination of information of environmental nature; and
- To support and promote research, development and innovation in environmental information technology.

##### **Short-term objectives**



- To provide national environmental information service relevant to present needs and capable of development to meet the future needs of the users, originators, processors and disseminators of information
- To build up storage, retrieval and dissemination capabilities with the ultimate objectives of disseminating information speedily to the users;
- To promote, national and international cooperation and liaison for exchange of environment related information;
- To promote, support and assist education and personnel training programmes designed to enhance environmental information processing and utilization capabilities;
- To promote exchange of information amongst developing countries.

#### **Responsibilities of ENVIS Centers**

- Building up a good collection of books, reports and journals in the particular subject area of environment;
- Establishment of linkages with all information sources in the particular subject area of environment;
- Responding to user queries;
- Establishment of a data bank on some selected parameters relating to the subject area;
- Coordination with the Focal Point for supplying relevant, adequate and timely information to the users;
- Helping the Focal Point in gradually up an inventory of information material available at the Centre; identification of information gaps in the specified subject areas and action to fill these gaps;
- Bringing out newsletters/publications in their subject area for wide dissemination.



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NON TIMBER FOREST PRODUCE- 2013-14

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**1. Name of Circle/Division/Directorate /Other**

Non Timber Forest Produce Directorate

**2. Function and Objectives**

- To Implement of Central Sector Scheme funded by National Medicinal Plants Board.
- The objectives are to promote and conserve important medicinal plants and biodiversity in their natural habitat through natural regeneration.

**3. Plan and Non-Plan allocations**

Central Sector Scheme

**4. Title of Work Programme/ Scheme /Other**

*In-situ* conservation of rich medicinal plants resource areas in the natural habitat and establishment of Medicinal Conservation Area of High Altitude medicinal plants species” Project No. CONS/SK-01/2013.

**5. Implementation by Circle/Division/Block/Other if any .**

Division

**6. Work implemented at .**

North: In-situ -400 Ha MPCA at Lasher Valley, Lachen RF

East : In-situ -100 Ha MPCA at Tamzey RF

South: In-situ-250 Ha MPCA at Mamring RF

West: In situ -50 Ha MPCA at Sipsu RF

**7. Activities Undertaken .**

Activities conducted are boundary demarcation, floristic survey of medicinal plants by experts from TMI, India, Pre-CAMP and Post Camp exercises.

**8. Physical Achievement .**

Establishment of Medicinal Plants Conservation Area.

**a).With Particular reference to the Plan schemes in Financial and Physical terms**

Physical - 800 Ha

Financial- Rs. 18.77 lakhs

**9. Mention Other Achievement, Innovations, Reforms etc of significant natures .**

Organized ‘Conservation Assessment & Management Prioritization; Workshop (Camp Workshop) in order to assess the threat status of important medicinal plants found in Sikkim Himalayas.



**10. Tangible Outputs .**

Establishment of 800 Ha. Medicinal Plants Conservation Area in all the four Districts of Sikkim.

**11. Intangible outputs**

Protection and Conservation of high valued important medicinal plants.



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NON TIMBER FOREST PRODUCE- 2013-14

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**1. Name of Circle/Division/Directorate /Other .**

Non Timber Forest Produce Directorate

**2.Function and Objectives.**

Implementation of Central Sector Scheme funded by National Medicinal Plants Board. The objective is to conserve and promote qualitative and quantitative aspects of high valued medicinal plants.

**3.Plan and Non-Plan allocations .**

Central Sector Scheme

**4.Title of Work Programme/ Scheme /Other .**

Conservation, Development and sustainable Management of High Altitude selected Rare, Endangered & Threatened (RET) species of medicinal plants ( trees, shrubs and herbs) in temperate, Sub-Alpine and Alpine Forests”

**5.Implementation by Circle/Division/Block/Other if any .**

Division

**6.Work implemented at .**

**North**

Deothang, Yumisamdong, Kalep- 45 Ha

**East**

Gnathang – 25Ha

**South**

Sada-Phamtam RF, Ralang RF - 33 Ha

**West**

Gyalchey RF - 21 Ha

**7.Activities Undertaken .**

- Plantation of Perennial Herbs and Shrubs having medicinal values in Alpine Forest
- Mixed Plantation of trees having medicinal values in Alpine and Sub-Alpine Forest

**8.Physical Achievement .**

North : 45 Ha

East: 25 Ha

South : 33Ha

West: 21 Ha





a).With Particular reference to the Plan schemes in Financial and Physical terms.

Physical : 124 Ha

Financial : Lakhs

**9. Mention Other Achievement, Innovations, Reforms etc of significant natures .**

- Regeneration through Ex-situ Conservation of Rare, Endangered and Threatened spp. Of herbs, shrubs and trees having high medicinal and aromatic value.

**10.Tangible Outputs**

Regeneration and Conservation

**11.Intangible outputs**

- Conservation of bio-diversity
- Conservation and promotion of highly valued medicinal and aromatic potential through artificial regeneration.



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SOCIAL FORESTRY, NORTH DIVISION -2013-14

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**1. Name of Circle/Division/ Directorate /Other.**

Social Forestry, North Division

**2. Title of Work Programme/Scheme / Other.**

Integrated Watershed Management Programme (IWMP-I), North

**3. Function and Objective**

- To promote the economic development of the village community which is directly or indirectly dependent of the watershed, encourage restoration of ecological balance in the village and
- To improve the economic and social condition of the resource-poor and the disadvantaged sections of the watershed Community such as the asset less and the women.

**4. Plan and Non Plan Allocation**

Centrally Sponsored Scheme (CSS)

**5. Implemented by Circle / Division / Block / Other if any**

Division

**6. Work implemented at**

Dzongu, North Sikkim

**7. Activities undertaken**

Watershed Works and Capacity Building Programme

**8. Physical Achievement**

880 Ha. during 2013-14

591.20 Ha. during 2014-15

**(a). With particular reference to function of the Department**

Department shall co-ordinate with the Gram Panchayats/ sabha to pass the necessary resolutions for public contributions, conduct participatory Rural Appraisal (PRA) exercises to prepare the development plans for each watershed, undertake community organization and training for the village communities, provide technical guidance and supervision of watershed development activities, manage project implementation, inspect and authenticate project accounts, undertake action research to adapt low cost technologies & validate, and build upon indigenous technical knowledge, monitor and review the overall project implementation and set up institutional arrangements for post project operation and maintenance.



### **9. IWMP-I Dzongu**

The project IWMP-I, Dzongu, North Sikkim was accorded sanction on 10<sup>th</sup> November 2009. The project comprises of 10 Micro watersheds with geographical area spread over in 11167 hectares. The area sanctioned for treatment of 6500 hectares with financial outlay Rs. 975 lakhs. The sanctioned period of the project is four years i.e. from 2009-10 to 2013-14.





## SERICULTURE

### 1.Name of Circle/Division/Directorate /Other

Sericulture Directorate.

### 2.Title of Work Programme/ Scheme /Other

Catalytic Development Programme (CDP)

### 3.Function and Objectives

Sericulture scheme aims to uplift the marginal farmers economically through self employment. The main function of Directorate of Sericulture is to deal with various sericultur developmental activities taken up by the State Government and Central Silk Board(CDB).

### 4. Implementation by Circle/Division/Block/Other if any .

Directorate of Sericulture.

### 5. Work implemented at

East, South & West District of Sikkim.

SL. NO.	DISTRICTS	GOVT. SERICULTURE FARMS	AREA COVERAGE OF RESPECTIVE SERICULTURE FARMS
1.	EAST	RORATHANG GOVT. SERICULTURE FARM	23 Acres.
2.	WEST	NAGDHARA GOVT. SERICULTURE FARM	3 Acres.
3.	SOUTH	MAMRING GOVT. SERICULTURE FARM	10.5 Acres.
	<b>TOTAL</b>	<b>3 GOVT. SERICULTURE FARMS</b>	



## 7. Activities Undertaken

1. 26 acres of farm under Sericulture maintained in South, East & West Sikkim.
2. 117 farmers were imparted training on Sericulture.
3. Various rearing tools and appliances were distributed to beneficiaries.
4. Subsidy /Grand-in-aid were given to 114 Sericulture beneficiaries @ Rs.90,00,000/-for construction of silkworm rearing house.
5. 24 nos. of Sericulture stakeholder from three districts sent to Karnataka and Tamilnadu for training and exposure trip.

## 8. Physical Achievement

### a).With Particular reference to functions of the Department .

1. 110 Silkworm rearing houses (SRHS) constructed in 2011-12 under Mulberry sector.
2. 55 no.of construction of Eri Silkworm rearing house.
3. Plantation and development of Eri food farm.Aiming towards a self employment and thus self sustainable society.

### b) . With Particular reference to the Plan schemes in Financial and Physical terms

Centrally Sponsored Scheme Catalytic Development Programme (CDP)-2013-14

Sl. No	Particulars of work / activities etc.	Unit cost(Rs)	Physical target	Financial target(Rs.in lakhs)	Achievement		Performance Report
					Physical	Financial (Rs.in Lakhs)	
A.	<b>Mulberry Sector:</b>						
1.	Plantation & Development of silkworm food plant	7200	55	3.96	55	3.96	Good
2.	Supply of Quality disinfectant	2400	55	1.32	55	1.32	
	<b>Total</b>			<b>5.28</b>		<b>5.28</b>	
B	<b>Eri Sector</b>						
1	Plantation and development of silkworm food plant & start up tools	800	50	4.00	50	4.00	Good



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c	<b>Muga Sector</b>						
1	Plantation and development of silkworm food plant & start up tools	13275	40	5.31	40	5.31	Good
D	Post Cocoon Sector:						
1	Quality link price support system			18.00		18.00	
2	Master Reeler Assistance	1.25	1	1.25	1	1.25	
	<b>Total</b>			<b>19.25</b>		<b>19.25</b>	
E	Support System						
1	Beneficiary Impowerment Programme	2900	250	7.25	250	7.25	
2	Printing and Publicity Programme	--	--	4.50	--	4.50	
	<b>Total</b>			<b>11.75</b>		<b>11.75</b>	
	<b>Grant Total:</b>			<b>45.59</b>		<b>45.59</b>	



**9. Mention Other Achievement, Innovations, Reforms etc of significant natures**

**1. Cluster Areas De velopments**

<b>DISTRICT S</b>	<b>CLUSTER AREAS UNDER SERICULTURE PROJECT</b>	<b>SDCs:</b>	<b>VILLAGES COVERING:</b>	<b>UNDER BACs</b>
EAST	5 CLUSTERS	SDC- 1(E)	Amba &Taza	Rhenock
		SDC-2(E)	Tarethang, Kaizalay	-do-
		SDC-3(E)	Mulukay, Salghari, Tarpin, Makangaon	-do-
		SDC-4(E)	Pachekhani, Padamchey, Rorathang	Pakyong
		SDC-5(E)	Mamzay, Sakhu, Saplay, Bhurung	Duga
SOUTH	5 CLUSTERS	SDC-1(W)	Karek, Jholongay, Maneydara	Namthang
		SDC-2(W)	Kateng, Pampok, Bikmat, Bul Singtam	-do- Namchi
		SDC-3(W)	Polok, Borong	Ravangla
		SDC-4(W)	Polok, Samsaybong, Chesopani	Jorethang
		SDC-5(W)	Sumbuk & nearby villages	Melli
WEST	5 CLUSTERS	SDC-1(S)	Bayong, Tikpur, Siktam	Sombarey
		SDC-2(S)	Upper & Lower Kamling,	Sikhip



			Suldung	
		SDC-3(S)	Vok, Sikhip, Omchu	-do-
		SDC-4(S)	Meyong, Yangsum Chingthang, Meyong, Berfok	Hee Martam
		SDC-5(S)	Malbasey, Budang, Tharpu	Soreng
<b>TOTAL</b>	<b>15 CLUSTERS</b>	<b>15 SDCs</b>	<b>44+ NO. OF VILLAGES</b>	<b>12 NO. OF BACs</b>

#### 10. Sericulture:

##### The Salient Features:

- ❖ Sericulture at primary level is agro-farming rural activities.
- ❖ It is one step forward to scientific management of farm land, towards utilising their small landholding, for multiple cropping to harvest additional crops for subsidiary/additional income.
- ❖ Sericulture is support to improve the family economy, through avocation of scientific methodology unto own agriculture farmland thus, increases productivity, after availing necessary support under the scheme.
- ❖ Sericulture is almost new origin, and stands for generation of family income through self-employment.
- ❖ Sericulture is combination of art and science, need to get involved learning with interest and accomplishment.
- ❖ Sericulture is passionate professions and extra flavour in agrarian life.

The Sericulture scheme is embodiment of targeted yield oriented subject of entrepreneurship to begin with the main objectives to create employment and monetary benefit in the identified locations under the designated cluster organisations within following norms:

1. Stakeholders under the category of general facility should come/selected from the agriculture/ farmer class.





2. Plantation and development of silkworm food plants,(mulberry and kutmero) should be developed in the edges and slopes of agriculture land, with specified distance and number in single plot (distance 10'x10' total 500 Nos.) at maximum.
3. Plantation specified should fulfill certain quality norms to ensure quality and quantity production thereby adopting certain technique demonstrated time to time. Payment of assistance shall be on pro- rata basis.
4. Upon the revision of plantation cost in three sectors there is additional provision of supports on special category, those performing better with encouraging results as under.
  - a). Target of silkworm rearing of one farmer after 3rd year should be minimum 100 to 150 dfls./ batch (crop), with cocoon output target of 50 to 75 kg/batch (crop). Yearly three (3) batch/crops are mandatory with cocoon target of 150 kg to 225 kg cocoon from each family.
  - b) Monetary income for one family after 3rd year onwards is calculated to Rs.45,000/- to 67,000/- per year, out of the 100 manday self-generated employment.

The above 100 manday generated in pre-cocoon sector cause further employment to generate 100 or more manday in post cocoon sectors till finishing of silk fabrics. Thus, pre-cocoon success could be considered double success.



## **HARC**

### **1-Name of Circle/Division/Directorate/Others**

High Altitude Research Centre

### **2-Title of Work Programme/Scheme/Other**

Research and Development Activities

### **3-Functions and Objectives**

- To perform research and Development activities for qualitative and quantitative results;
- To analysis data of Natural resources for resource mobilization;
- Revenue generation
- Advisory roles to the Government on research and development, and policies

### **4-Plan and Non-Plan Allocation**

Plan : 10.00 Lakhs

### **5-Implemented by Circle/Division/Block/Other if any-**

HARC

### **6-Work implemented at-**

Sikkim State

### **7-Activities Undertaken-**

- Habitat study of Forest Fringed villages and forest areas;
- Extensive surveys made across the national laboratories for understanding process NABL accreditation and quality equipments and trainings;
- Attended meetings regarding Quality Control Laboratory establishment at New Delhi;
- Concept of Low-cost eco-huts developed for promotion of ecotourism;
- Inventory of biological resources ;
- Compilation and Publication



## **8-Physical Achievement**

### **(a)-With particular reference to functions of the Department-**

- Survey
- Ecotourism principles development at the forest fringed villages
- Research and development on bioresources

### **(b)-With particular reference to the Plan Schemes in Financial and Physical terms**

Phy: 20

Fin ( In Lakh): 10.00

## **9-Mention other Achievement, Innovations. Reforms etc. of significant-Drafted**

Comprehensive Scientific Management Plan for Forest, Environment and Wildlife Management plan as desired by competent authority

## **10-Tangible Output-**

1. Forest, Environment and Wildlife Management Department received funding to establish Quality Control Laboratory of Silviculture and Research of Forest, Environment and Wildlife Management Department
2. Compilation on ecotourism, bioresources of Sikkim

## **11-Intangible Output-**

- Awareness on research and development
- Awareness on bioresources active principles and components

## **12-Write up-**

Forest having components of biological resources, and natural resources has pragmatic approach for catering scientific values. Climate Change and sustainable uses of resources are moving parallel with anthropogenic pressure. Thus, strengthening Research and development, and generation of inputs of right approaches shall be equally significant for qualitative forest management .



The Forest, Environment and Wildlife Management Department empowered with manpower having vast understanding resources at the different sectors . The information of Forest Survey of India report 2013 is itself self-explanatory.

The Forest, Environment and Wildlife Management Department is dedicated department to conserve , protect forest areas, resources , and to mobilize the resources for sustainable uses. In the line of this, Research and Development activities are in action in Sikkim for qualitative and quantitative outputs.



**AFFORESTATION UNDER TWENTY POINT WORK 2013-2014**

The 20 point programme (TPP) was launched by the Government of India in the year 1975 and was first revised in 1982, 1986 and recently in 2006-07 with a view of setting up effective monitoring system and thus strengthening the planning & implementation machinery. The restructured TPP -2006 consists of 20 Point & 66 monitorable items where under point No.15 pertains to Environment Protection & Afforestation and covers all the plantation works carried out under different programmes & schemes. Though the primary responsibility of monitoring the individual programme/scheme lies with the Central Ministry / State Government, the Ministry of Statistics & Programme Implementation, will monitor the programme in totality.

15 a - Area covered under plantation (Government land)					15 b- Seedling planted (Private land). (in lakhs)		
Sl.No	Year	Target	Achievement (ha)	% Ach.	Target	Achievement	% Ach.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11	1993-94		5786.70			9.64	
12	1994-95		6900.00			11.50	
13	1995-96		7189.50			11.99	
14	1996-97		7500.00			12.50	
15	1997-98		6356.56			13.05	
16	1998-90		7537.00			2.50	
17	1999-00		6923.00			20.91	
18	2000-01		8048.00			15.15	
19	2001-02	12000	6217.00	51.81	22	12.42	56.45
20	2002-03	7500	3696.00	49.28	22	14.73	66.95
21	2003-04	7500	6125.19	81.67	22	8.66	39.36
22	2004-05	8000	6191.00	77.39	22	10.32	46.91
23	2005-06	12000	8012.87	66.77	15	6.13	40.86
24	2006-07	15000	3550.26	23.66	15	9.75	65.00
25	2007-08*	12000	3456.73	28.80	*78	30.84	39.54
26	2008-09	12000	3862.37	32.2	78	23.04	29.55
27	2009-10	25000	8006.85	32.02	162.50	48.61	29.54
28	2010-11	5000	2734.07	54.68	32.50	55.68	105.60



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29	<b>2011-12</b>	6000	7454.76	124	39	5033470	129.06%
30	<b>2012-13</b>	7450	9019.23	121.06	48	6027395	125.57
31	<b>2013-14</b>	6160	4805.00	78.00	40.04	31.92	79.72



**ACCOUNTS-2013-2014**

**STATEMENT OF REVENUES REALISED DURING LAST TWELVE YEARS**

Sl.No.	Financial Year	Estimated ( in lakhs)	Realised (in lakhs)	Percentage	Remarks
1	2003-2004	550.00	723.40	131.53	Excess 31.53 %
2	2004-2005	550.00	787.45	143.17	Excess 43.17 %
3	2005-2006	700.00	817.66	11.81	Excess 16.81 %
4	2006-2007	800.00	802.00	100.25	Excess 0.25%
5	2007-2008	700.50	800.26	114.24	Excess 14.24%
6	2008-2009	800.00	848.09	106.01	Excess 6.01%
7	2009-2010	1000.00	879.00	87.90	Shortfall 12.1%
8	2010-2011	1100.00	1115.17	101.37	Excess 1.37%
9	2011-2012	1100.00	1253.05	13.90	Excess 13.90%
10	2012-2013	1348.00	919.98	68.25	Shortfall 32%
11	2013-2014	1450.00	1066.68	73.56	Shortfall 26.44%

**STATEMENT OF EXPENDITURE DURING LAST FIVE YEARS.**

SECTORS	ACTUAL EXPENDITURE						
	STATE PLAN	C.S.S		FCA	NEC	EAP	N-PLAN
		100 %	90:10%				
<b>Soil and water conservation</b>							
2010-11		9841					286.7
2011-12	76.06						260.52
2012-13	87.41						335.96
2013-14	87.41						87.41
<b>Forestry &amp; Wildlife</b>							
2010-11	2851.08	297.82					2477.91
2011-12	3145.57	177.38		501.49	88.13		2396.65
2012-13	1839.73	258.28			47.90	1062.56	3217.39
2013-14	1311.20	258.28	7.20		47.90		2624.08
<b>Ecology &amp; Environment</b>							
2010-11	20.27	24.51					14.62
2011-12	35.34	88.13					-



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<b>2012-13</b>	32.93	7.20					258.07
<b>2013-14</b>	0.01						1.20