



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

MESSAGE

The Forest, Environment and Wildlife Management Department, Government of Sikkim is principally governed by Forest (Conservation) Act, 1980 with Amendments Made in 1988 and such other acts for the conservation of forests, and for matters connected therewith or ancillary or incidental thereto.

In accordance to the rules and regulations of Centre and State Governments, the Forest Environment, & Wildlife Management Department is tasked with maintaining tree forest cover of 47.32 % as per Forest Survey of India report of 2013.

Forest Management units -Joint Forest Management Committee and Eco- Development Committees- are functional units in Sikkim across all the districts and is in line with the approach of modern forestry management for quantitative and qualitative outputs with participatory roles among foresters, committees, and other.

The State Government is committed to conservation and protection of forests, environment and wildlife, and has initiated a number of measures to safeguard the biological resources of the state.

Further, I am pleased to state that the Forest, Environment and Wildlife Management Department, Government of Sikkim is publishing the annual administrative report 2014-2015 for record and circulation of information to public.

Date: 15.03.2016

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Minister
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Annual Administrative Report 2014-2015



Dr. Thomas Chandy, IFS
Principal Secretary –cum- PCCF
Forest, Environment and Wildlife
Management Department
Government of Sikkim

MESSAGE

Sikkim is a part of a bio-diversity hotspot network of the world and is among identified 18 biodiversity provinces in the world. The State's landmass measuring 7096 sq. kms has varied eco-systems from humid tropical valleys to temperate habitat, alpine meadows and trans-Himalayan cold desert. It is a veritable house of rich bio-diversity. The Wildlife Protected Area cover as much as 30.77 % of the State's geographic area of 7096 sq.kms, and is 37.37% of the total recorded forest area, 5841.39 sq.kms of the State. It is the highest and best covered State as far as PA network in the country is concerned.

The State Government is committed to protect and conserve bio-diversity resources by maintaining natural habitats in different biogeographical zones.

In pursuance of the Centre and State Governments' environment related directives and guidelines, the Forest, Environment and Wildlife Management Department, plays a caters pivotal role, and 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 2014-2015 reflects the action activities and measures taken by Forest, Environment and Wildlife Management Department, Government of Sikkim for conservation, protection and expansion of qualitative forestry.

Date: 15.03.2016

Dr. Thomas Chandy, I.F.S
Principal Secretary-cum-PCCF
Forest, Environment and Wildlife Management Department
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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 FEMWD, 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.



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The State Government notified the details of the Khangchendzonga Biosphere Reserve having Area of Core Zone 1784.00 Km², Area of Buffer Zone 835.92 Km² and (c) Area of Transition zone 311.20 Km². The proposed World Heritage site has total area of KBR including Core, Buffer and Transition zone is 931.12 Km².

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 Carrier 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.



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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.

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
TOTAL IFS (GAZETTED)		=30	
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
A.	GAZETTED		= 120
	01	Range Officer	92
	02	Block Officer	70



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	03	Head Forest Guard	153	
	04	Forest Guard	162	
B. NON-GAZETTED			= 477	
TOTAL A+B = 597				
III	SERICULTURE DIRECTORATE			
	01	Principal Director	-	
	02	Additional Director	01	
	03	Deputy Director	01	
	04	Assistant Director	01	
	A. GAZETTED			=03
	01	Sericulture Range Officer	01	
	02	Sericulture Block Officer	01	
	B. NON-GAZETTED			= 02
	TOTAL A+B = 05			

IV	STATISTICAL SERVICE			
	01	Joint Director	-	
	02	Deputy Director	01	
	03	Assistant Director	01	
	A. GAZETTED			= 02
	04	Statistical Officer	06	
	05	Statistical Inspector	01	
	07	Statistical Investigator	-	
	B. NON-GAZETTED			= 07
	TOTAL A+B = 09			
FINANCE AND ACCOUNTS SERVICE				



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

	OTHERS	
01	Principal Scientist	02



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VII	02	Principal Research Officer	01	
	03	Scientist ' B'	01	
	04	Senior Scientist Officer	01	
	05	O.S.D/ASO	01	
	06	Assistant Engineer (Civil)	02	
	07	Assistant Engineer (Environment)	01	
	A. GAZETTED = 08			
	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	



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	23	Mali	17
	24	Driver	58
	25	Pipe Fitter	01
	B. NON-GAZETTED = 187		
	TOTAL (Other A + B)= 195		
VIII	STENOGRAPHER SERVICE		
	01	Principal Private Secretary	-
	02	Senior Private Secretary	01
	03	Private Secretary	02
	A. GAZETTED = 03		
	04	Stenographer	03
	B NON-GAZETTED		
	TOTAL A+B= 06		

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
	GRAND TOTAL = 1966	



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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	REVENUE 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



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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
	TOTAL	5452.39	1643.59	7095.98	100.00

Source : FEWMD AAR, 2009

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

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8	>10000	0	0	0.00
	Total	660	3357	100

Source : FSI Report , 2015.

1.4 Forest Types (Area in Km²)

Forest Types (Area in Km²)		
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
Total	3625.00	100.00

Source : Atlas Forest Types of India, 2011

IMPORTANT RULES OF 2014-2015**Notification No.196/FEWMD Dated. 5.1.2015**

The State Government prohibits the burning of agricultural waste, leaves, litter, paper wastes and garbage 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 15th 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
	Total	92	766.199	143	995.018	114	463.607	56	131.797	405	2356.621



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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
Total	1536.452	74.278	1312.5878	0.000	867.694	0.000	152.649	12.082	3869.382	86.360

Achievement of compensatory afforestation

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

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



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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
Total	5237.77	6.36	9196.59	1210.69	5645.26	183.64	21480.30

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
Total		5923.49	154.24		5302.45	775.28



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 th Mile, Tadong
20	Shri. Rajesh Tamang	Ranipool
22	Shri. Gyalpo Thendup Bhutia	Chandmari, Gangtok
23	Shri. Dhan Bahadur Thapa	Lumsey, 5 th 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



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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)

2014-15

1. NAME OF CIRCLE /DIVISION /DIRECTORATE /OTHER

4 Circles

- Wild life circle -(all forest division)
- Territorial circle -(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 of Forest Department

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

C1 : Preparatory work	0.009
C2 : Forest and Biodiversity Conservation	8.962



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C3 : Ecotourism	5.346
C4: Joint Forest Management	9.647
C5 : Organizational Strengthening	14.965
Physical contingency	13.56
Cost of Price Escalation	3.07
Consultancy Service	5.820
Taxes and duties	0.436
Total Annual Planned allocation 14- 15	65.85 Crore

5. IMPLEMENTED BY CIRCLES /DIVISION /BLOCK /OTHER

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

6. WORK IMPLEMENTED AT

- 4 Districts (East , West , North, South)

7. ACTIVITIES UNDERTAKEN

C1 Preparatory Work:

- Formation of nine DFUs (Forest Division) and issuance of notification for implementing project activities in 4 districts



C2 Forest and Biodiversity Conservation

- Refurnishing of GIS lab at HQ has been done; Software and equipment procured
- One ACF trained (3 months) at NRSC
- Remote Sensing Atlas created.
- One officer trained for three months on GIS
- Flagship Species study for Snow Leopard and Rhododendron continued.
- 20 RO/ BO trained for 15 days at NRSC, Hyderabad
- Maintenance and improvement of 4 propagation nurseries (5 ha) undertaken at Tikjuk & Okhrey (West District), Rayong (South District) , Pangthang (East District).
- RBS survey completed in 150 plots and 2 RBS report published.
- KNP dossier submitted to UNESCO.

C3 Ecotourism

Approval accorded from the Govt. for Marketing at Nampong-Lindok ecotourism zone. First ecotourism festival was organized in the Nampong-Lindok Ecotourism Zone , at Fambanglho Wild life Sanctuary on 28-29 March, 2015

- Guideline for trekking trail survey and development was prepared. Functional Division assigned trek survey
- Technical sanction of Interpretation center at Melli and Bulbuley was accorded
- Technical sanction for renovation and up gradation of FRH at Melli , Dentam and Hilley was accorded
- Exposure trip for stakeholder and frontline forest staff was organized to Periyar Tiger Reserve , Kerala conducted
- Revived Ecotourism Directorate with appropriate structure and function and infrastructure.
- Solid Waste Management study conducted by RMDD
- Trekking routes survey for three routes has been conducted by (Indian Himalayan Center for Adventure & Eco Tourism) IHCAE, Chemchey and report has been once reviewed. IHCAE submitted submitting the revised report for the trekking routes -Uttrey - Chewabhangang, Golitar, Char-dham-Melli-Kitam



C4 Joint Forest Management

- Echostream submitted plan for organizing skill development training for SHG on selected handicrafts
- District level workshops were conducted for all level of forest officials to strengthen JFM/ Ecotourism activities under the project
- EPA completed in 45 JFMCs /EDCs of four districts
- 8.5 Ha JFM Nurseries – Daramdin , Kaluk , Serethang ,in West District, Mamring , Sag bari, in South , Namphrikdhang and Rarang in North and Burthuk, Asam Lingzey in East District , created and maintained
- 900 ha. plantation completed including backlogs of the FY 2013-14.
- Meeting held at PMU at DFO and HQ level for rationalization , reorganization of JFMC
- Ward wise reorganization of JFMC
- Existing JFMCs and EDCs were dissolved; followed by Approval of the revised list of JFMCs and EDCs;

C5 Organizational Strengthening

- 95% work of SBFP building completed
- 1 check post completed
- 2 Boleros, 10 motorcycles and 2 Pick-up Vans procured.
- 11 forest official trained at IFM, Madhya Pradesh.
- 2 ACFs trained at WII
- 18 ROs/ BOs trained in Tamil Nadu Forest Academy, Coimbatore
- Monitoring and evaluation Workshops held in all four districts.

8. PHYSICAL ACHIEVEMENT

C1 Preparatory Work

C2 Forest and Biodiversity Conservation

- GIS Lab upgraded & Topographical and Land Use map updated.
- 3 months course on RS/GIS for ACFs & 2 week course on RS/GIS for RO/BOs conducted at NRSC, Hyderabad, workshop for revision of management plan of PAs conducted by WII.
- Rapid Biodiversity Survey conducted in 150 plots & survey report - I , released by the Hon'ble Chief Minister, Sikkim.



- Dossier for inscription of KNP submitted to UNESCO through GoI.
- Construction of main office building of HZP and Rescue Centre continued
- Maintenance and improvement of 4 propagation nurseries (5 ha) undertaken at Tikjuk & Okhrey (West District), Rayong (South District) , Pangthang (East District).
- Architectural design of Biodiversity Centre finalised at Damthang

C3 Ecotourism

- Three Trekking routes (Uttarey - Chewabhangang, Golitar, Char-dham-Melli-Kitam) surveyed by (IHCAE) & Functional Division assigned trek survey and survey guideline developed.
- Exposure trip to PTR, Kerala conducted for forest officials and community members .
- Ecotourism Festival Organized in the Nampong Lindok Ecotourism Zone, on 28 & 29 March 15, Fambonglho Wildlife Sanctuary
- Approval accorded for marketing of ecotourism activities in Nampong-Lindok ecotourism zone.
- Ecotourism Directorate was revived to implement ecotourism activities and strengthen ecotourism in Sikkim.
- Technical sanction for renovation and up gradation of FRHs at Melli , Dentam and Hilley was accorded.
- Comprehensive study on solid waste management was undertaken by RMDD
- Organised meeting with experts of JPS, Geolab Limited and Louis Berger at Gurgaon to discuss on trek route development
- Survey of wildlife watching area (birds and butterfly) by Sikkim Ornithological Society (SOS) in Kitam, Okhrey, Dzongu and Nampong Lindok ecotourism zones

C4 Joint Forest Management

- Existing JFMCs/EDCs were reorganized resulting in 227 (163 JFMCs + 64 EDCs) in 9 Divisions (4 Territorial, 4 Wildlife and 1 KNP).
- Skill development training on handicrafts based IGA by SHG identified.
- District level workshops were conducted for forest officials to strengthen JFM/ Ecotourism activities under the project
- EPA implemented in 90 JFMCs /EDCs.
- 8.5 ha JFM Nurseries - Daramdin , Kaluk , Serethang ,in West District, Mamring , Sag bari, in South , Namphrikdhang and Ranrang in North and Burthuk, Asam Lingzey in East District , created and maintained



- 900 ha. plantation completed including backlogs of the FY 2013-14.

C5 Organizational Strengthening of Forest Department .

- 2 ACF were deputed to WII to attend 10 month Diploma Course in Wildlife Management.
- ACFs/RO/BOs/FGs attended 2 Weeks Certificate Course on Biodiversity Conservation and Forest Management at IIFM Bhopal.
- Basic training on computer application was conducted for selected Forest Department staff of HO and District.
- Advance level TOT course on computer application for OA, CA and JRF organized at HO.
- State level workshop conducted on rules and regulation of Wildlife Management and Conflict Resolution in Conference Hall of Forest Secretariat
- State level workshop organized on Finalization of Project Log-frame & Identification of Proposals For Mid-term Review (MTR).
- 95% works of construction /renovation and improvement of head quarter office completed
- One checkpost at Gayalsing completed.

a). With particular reference to function 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 the financial and physical term

Financial Achievement : 32.27%

Physical Achievement : 40%

9. Tangible outputs .Plantation , infrastructure , GIS maps, microplan

10. Intangible outputs .Improved environment , greenery , enhanced capacity



KHANGCHENDZONGA NATIONAL PARK-2014-15

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 CIRCLE/DIVISION/BLOCK/OTHER

Khangchendzonga National Park Directorate

5. WORK IMPLEMENTED AT: KHANGCHENDZONGA NATIONAL PARK

6. ACTIVITIES UNDERTAKEN

- 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



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-2014-15

Sl No	Item of Work	Sanctioned Amount (in lakhs)	Achievement	
			Phy	Fin (in lakhs)
1	Construction of dry stone wall to control landslides	7.4	354.7cum	7.4
2	Anti-poaching activities-patrolling to check encroachment, poaching and trespassing	2.00	1	2.00
3	Livestock immunization	0.50	LS	0.5
4	Ex- gratia payment and compensation for crop damage and human injury by wild animals	4.00	LS	4.00
5	Mobilization of rescue team, during himalayan black bear menace	2.00	LS	2.00
6	Training on Bamboo handicrafts under eco-development activity	3.00	LS	3.00
7	Awareness generation programme	1.00	LS	1.00
	Grand Total			19.90

(Rupees Nineteen Lakhs Ninety Thousand) only.



ii) **Physical And Financial Achievements of Khangchendzonga Biosphere Reserve Under “Management Action Plan (MAP) for Conservation and Management of KBR” during FY-2014-15**

Sl.No.	Items of Work	Sanctioned		Achievement	
		Amount (in lakhs)	Phy	Amount (in lakhs)	Phy
1	Beneficiaries Piglets distribution	6.66	180Nos.	6.66	180Nos.
2	Cattle Immunization	1.5	LS	1.5	LS
3	Nature trip	5	LS	5	LS
4	Renovation of Log Huts	8	2Nos.	8	2Nos.
5	Development of Camping Sites	18	3Nos.	18	3Nos.
6	Garbage Management	8	LS	8	LS
7	Construction of Office-cum-quarters for ACF at Mangan	18	1No	18	1No
8	Awareness on Protection of Natural Resources of KBR	3.4	LS	3.4	LS
9	Over-Head Expenses	2.49		2.49	
	Grand-Total	71.05		71.05	

(Rupees Seventy-one Lakhs and five thousand) only.



iii). Physical And Financial Achievements of Khangchendzonga National Park under KNP-FDA during FY-2014-15

SI No	Items	Physical Target (area in ha.)		Financial Target(in Lakhs)	
		Low Altitude(LA)	High Altitude(HA)	Low Altitude(LA)	High Altitude(HA)
1	Aided Natural Regeneration (200 plants/ha)				
	a) Advance work	30	30	3.53	5.19
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	25	10	0.53	0.34
	II year	20	10	0.43	0.34
	III year	30	5	0.64	0.17
	Sub-total	0	0	5.13	6.05
2	Artificial regeneration (1100 plants/ha)				
	a) Advance work	50	20	9.97	6.04
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	20	10	0.72	0.54
	II year	20	10	0.72	0.54
	III year	25	10	0.90	0.54
Sub-total	0	0	12.30	7.65	
3	Bamboo plantation (625 plants/ha)				
	a) Advance work	15	15	1.66	2.51
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	10	10	0.18	0.28
	II year	50	5	0.88	0.14
	III year	35	7	0.62	0.19
Sub-total	0	0	3.34	3.12	
4	Pasture development/ Silvi pasture (400plants/ha)				
	a) Advance work	20	0	2.63	0.00
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	10	0	0.24	0.00
	II year	148	5	3.56	0.18



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	III year	25	5	0.60	0.18
	Sub-total	0	0	7.03	0.37
5	Planting of canes (625 plants/ha)				
	a) Advance work	25	0	3.15	0.00
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	10	0	0.27	0.00
	II year	10	0	0.27	0.00
	III year	0	0	0.00	0.00
	Sub-total	0	0	3.70	0.00
6	Mixed plantation of trees having MFP and Medicinal values (1100 plants/ha)				
	a) Advance work	25	10	5.11	3.08
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	10	5	0.34	0.26
	II year	55	10	1.89	0.51
	III year	45	5	1.54	0.26
	Sub-total	0	0	8.89	4.11
7	Perennial herbs and shrubs (2000plants/ha)				
	a) Advance work	0	10	0.00	3.65
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	0	5	0.00	0.32
	II year	0	10	0.00	0.64
	III year	0	10	0.00	0.64
	Sub-total	0	0	0.00	5.25
8	Artificial Regeneration (Seabuckthorn Plantation)				
	a) Advance work	0	0	0.00	0.00
	b) Creation	0	0	0.00	0.00
	c) Maintenance I year	0	7	0.00	0.44
	II year	0	0	0.00	0.00
	III year	0	0	0.00	0.00
	Sub-total	0	0	0.00	0.44
	Total of works	0	0	40.90	27.39
9	Entry Point Activities				0.00
10	Monitoring & Evaluation				0.52



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11	Overheads				0.00
12	Balance of 2013-14				0.00

9. OTHER ACHIEVEMENT:

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

Sl. No.	Year	No. of Tourists		Total	Revenue (in Rs.)
		Foreigner	Indian		
1.	2014-15	640 Nos.	1454 Nos.	2094 Nos.	15,45,837/-

b. Inscription of Khangchendzonga National Park into the World Heritage Site:

- International Conference on the Natural and Conservation values of KNP was successfully conducted on 14-15 May 2015. Both National and International delegates were present. There was also field visit to western part of KNP.
- During Sept-Oct 2015 there was a Mission Visit from ICOMOS (International Council on Monuments and Sites) and IUCN (International Union for Conservation of Nature) for the evaluation process. The team also had trekking from Yuksam to Dzungri.
- The Nomination Dossier of KNP has been sent to UNESCO headquarter at Paris and panel discussion is going on.
- Skype meeting was conducted on 30th December 2015 with the UNESCO team at NIT, Gangtok.
- Tentatively in May-June Khangchendzonga National Park may be inscribed into the World Heritage List under the mixed criteria i.e natural and cultural. The nomination under this criteria is first of its kind from India.

10. TANGIBLE OUTPUTS

- Established Interpretation Centre at Yuksam in 2015 with the assistance of Centre for Environment and Education, Bangalore.
- Khangchendzonga National Park was also listed in the top 100 Green Global destination in 2015.
- In December 2015, a tranquilizing operation was carried out at Tashiding by the KNP Himalayan Zoological Park and Territorial field staffs. A female Himalayan Black Bear which was wandering in the surrounding areas since few months posing threat to the lives



and the properties of the locals was successfully tranquilised and caged by the team with the co-operation of the locals and brought to Himalayan Zoological Park.

11. KHANGCHENDZONGA - HIGH ALTITUDE NATIONAL PARK

1. Name, Location, Constitution and Extent:

a. Name	Khangchendzonga National Park
b. Declaration No	Sikkim Official Gazette 95
c. Declaration Date	26 th 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
i. 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.

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

11.1 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 Km², out of this, an area of 1784 Km² forming Khangchendzonga National Park and 835.92 Km² 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.

MECHANISM OF PARTICIPATION

1. Management of the Protected Area and Biosphere Reserves with people's participation is an approach, which requires qualitative management among 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 to be carried out in detail with the help of NGOs.
2. 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 are carried out/implemented.



WILDLIFE CIRCLE

1. NAME OF CIRCLE/DIVISION/DIRECTORATE/ OTHER.

Wildlife Circle

2. Functions and Objectives.

- Integrated Development of Wildlife Habitats at Shingba Rhododendron Sanctuary, North Sikkim;
- Integrated Development of Wildlife Habitats at Maenam Wildlife Sanctuary, South Sikkim;
- Integrated Development of Wildlife Habitats at Kitam Bird Sanctuary, South Sikkim;
- Integrated Development of Wildlife Habitats at Pangolakha Wildlife Sanctuary, East Sikkim;
- Integrated Development of Wildlife Habitats at Fambonglho Wildlife Sanctuary, East Sikkim;
- Integrated Development of Wildlife Habitats at Kyongnosla Alpine Wildlife Sanctuary, East Sikkim

3. PLAN AND NON- PLAN ALLOCATIONS.

Plan

4. TITLE OF WORK PROGRAMME/ SCHEME/ OTHER

- Integrated Development of Wildlife Habitats at Shingba Rhododendron Sanctuary, North Sikkim (100% CSS). Activities carried out during the year 2014-15
- Integrated Development of Wildlife Habitats at Maenam Wildlife Sanctuary, South Sikkim (100% CSS). Activities carried out during the year 2014-15
- Integrated Development of Wildlife Habitats at Kitam Bird Sanctuary, South Sikkim (100% CSS) . Activities carried out during the year 2014-15
- Integrated Development of Wildlife Habitats at Pangolakha Wildlife Sanctuary, East Sikkim (100% CSS) . Activities carried out during the year 2014-15
- Integrated Development of Wildlife Habitats at Fambonglho Wildlife Sanctuary, East Sikkim (100% CSS). Activities carried out during the year 2014-15
- Integrated Development of Wildlife Habitats at Kyongnosla Alpine Wildlife Sanctuary, East Sikkim (100% CSS) - Activities carried out during the year 2014-15

5. IMPLEMENTED BY

Wildlife Circle



6. 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

7. 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 Yumthang stream
- Awareness raising and capacity building around the forest fringe villages
- Construction of patrolling hut and camping shed for frontline staff at Namnang (Epcho)
- 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
- 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 at Ray Mendu, Balwani, Thartharay
- Construction of Nature Trails (3km each) from Golitar to Noonthalay Thamdara (above purano Gumpa)
- Maintenance of salt licks at Thansing, Dhanbari
- 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 watchers for 3 months @ 300/-day/person/month within FWLS



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- 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
- Maintenance of salt licks for PWLS
- 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
- Engagement of sanctuary watchers for 4 month at prone areas of FWLS
- Mobilisation of Rescue team for Himalayan Black bear and other activities.
- Training on Bamboo handicrafts
- Awareness programme

7. PHYSICAL ACHIEVEMENTS

a). With particular reference to the Plan Schemes in Financial and Physical terms

i) 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)
	Non-recurring activities			
1	Bench terracing for landslide and avalanche areas for prevention and protection.	1000 cum	500/cum	5.00
Sub- total				5.00
	Recurring activities			
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



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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
Grand Total				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

SI No	Item of Work	Sanctioned		Funds Utilised	
		Quantity	Amount	Quantity	Amount
A	Non- Recurring Activities				
1	Purchase of camera trap	5	125000.00	5	124965.00
2	Construction of patrolling hut and camping shed for frontline staff at Namnang (Epcho)	1 no	600000.00	1 no	599987.00
	Sub Total (A)		725000.00		724952.00
B	Recurring Activities				
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



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4	Anti-poaching and Trap demolition activities	2	200000.00	2	200000.00
5	Awareness programme	2	100000.00	2	99899.00
	Sub Total (B)		844000.00		842708.00
	Total (A)+(B)		1569000.00		1567660.00

(a) **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	Non- Recurring Activities						
1	Habitat improvement with creation of glades/ edges/trails/seed dibling of fruit bearing trees and nectar yielding species etc for increase in avi faunal population, biodiversity and eco tourism at Ray Mendu, Balwani, Thartharay	10	nos	450000.00	10	nos	450000.00
2	Construction of Nature Trails (3km each) from Golitar to Noonthalay Thambara (above purano Gumpa)	6	nos	1200000.00	6	nos	1199920.00
	Sub Total (A)			1650000.00			1649920.00
B	Recurring Activities						
3	Maintenance of salt licks at Thansing, Dhanbari	LS		50000.00	LS		49940.00
4	Strengthening of frontline	LS		200000.00	LS		199997.00



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	staffs (by providing equipment for regular patrolling) 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 Rumek Sumick, Ranka, Sang, Martam	LS		100000.00	LS		70000.00
	Sub Total (B)			1185000.00			1147020.00
	Total (A)+(B)			2835000.00			2796940.00



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

SI No	Item of Work	Sanctioned		Sanctioned	Funds Utilised
		Quantity	Amount	Quantity	
A	Non- Recurring Activities				
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
	Sub Total (A)		875000.00		874212.00
B	Recurring Activities				
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	LS	200000	LS	199785



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	Black bear and other activities.				
8	Training on Bamboo handicrafts	10	300000	10	299985
9	Awareness programme	2	100000	2	99770
	Sub Total (B)		1116000		1115100
	Total (A)+(B)		1991000		1989312

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)
Non recurring activities					
1	Procurement of camera traps	5 Nos.	1.25	5 Nos.	1.25
Recurrent Activities					
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



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7	Forest Fire Protection	1 No.	3.00	1 No.	3.00
8	Livestock Immunization	1 No.	0.50	1 No.	0.50
TOTAL			17.75		17.66367

(a) **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



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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
TOTAL			20.25		19.85256

8. Mention Other Achievement, Innovations. Reforms etc of significant natures Human - animal conflict during the year 2014-15.							
Sl. No.	Date/ Period	Victim & Damages	Address	Reported	Damaged caused by	Action Taken	Remarks
North Sikkim							
1.	19/07/2012	Crop damaged. Domestic goats killed.	Noam & Panam GPU, North Sikkim	By villagers & Panchayats	Black Bear	Paid crop compensation	
East Sikkim							
1.	June, 2012	Crops like paddy, maize, green vegetables, millet damaged.	Middle Sudunglakha, Rhenock, East Sikkim	By villagers	Monkey, Deer, Porcupine.	Paid crop compensation	
2.	22-08-2012	More than 4000 Maize plants damaged	Sakyong Sumick	By villagers	Black Bear	Paid crop compensation	
3.	2014-15	Crops like Ginger, Maize, Millet & vegetables damaged at different fringes of	Thanshing, Kambal, Khesey, Sumick, Sumick-Aritar, East Sikkim	By villagers	Bear, Monkey and Porcupines	Paid crop compensation	



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		FWLS, East Sikkim					
4.	July-Sept. 2013	Maize, Cardamom damage. 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.	
South Sikkim							
1.	June-July, 2013	Maize damaged. Goats killed.	Chuba-Nazitam, Rombang, L/Rombang, Sumbuk, Pallidara	By villagers	Monkey, Small Leopard, Wild Boar,	Paid compensation	
2.	August, 2013	Maize damaged. Goats killed.	Sadam, Mallidara, paanchgarey, Dhanbarey goan, Manpur, Belbotey Goan, Compound Mazitar	By villagers	Monkey, Small Leopard, Wild Boar,	Paid compensation	
3.	Sept., 2013	Goats killed.	Sadam, Kerabari	By villagers	Leopard	Paid crop compensation	
4.	December, 2012	one person injured.	Upper Lingee	By villagers	Black Bear	Provided relief measures as ex-gratia payment	
West Sikkim							
1.	July-Sept. 2013	Maize, Potato, large Cardamom damaged.	All along the fringe villages of Barsey Rhododendron	By villagers, Panchayat, Himal	Black Bear, Porcupines, & monkeys,	60% paid, remaining 40% process under TFC.	



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			Sanctuary (18 major Villages)	Rakshak & EDC members	Wild Boar		
2.	April 2012 - March 2013	16 nos. Goats 8 nos of cows and 2 nos of ox killed.	Begha, Uttarey, Deythang, Hee Patal, Khorong, Ribdi, Tareybhira, Soreng, Dentam, sreebadam	By villagers, Panchayat, himal Rakshak & EDC members	Leopard, Black Bear, Leopard cat		

9. WILDLIFE CIRCLE

Wildlife 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 biodiversity 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.

Sikkim, the 22nd State of India in the north-eastern region lying in the Eastern Himalayas which is part of one of the 18 biodiversity provinces in the world is a bio-diversity “hotspot”. In the landmass of just 7096 Sq.kms, the State has varied eco-systems from humid tropical valleys to temperate montane habitat, alpine meadows and trans-Himalayan cold desert. It is a veritable house of rich bio-diversity and it includes:

Floral wealth:

- Flowering plants: 4458 species of the total 15000 species found in the country.
- Orchids: 527 of the total 1229 species
- Rhododendrons: 41 of the total 90 species



- Ferns : 480 of the total 1200 species
- Lichens : 505 of the total 2302 species
- Primulas : 58 of the total 102 species
- Medicinal Plants: 1800
- Conifers : 9 species
- Oaks : 11 species
- Tree ferns : 8 species

Faunal wealth:

- Mammals : 144 of the total 350 species
- Birds : 552 of the total 1224 species
- Butterflies : 689 species
- Moths : 2000 species
- Fishes : 48 of 2546 species
- Amphibians
(Frogs & Toads) : 33 of the total 197 species
- Reptiles : 35 of the total 408 species

The Tso Lhamu cold desert in North Sikkim supports India's only population of Northern Kiang or Tibetan Wild Ass *Equus Kiang* and also significant population of Tibetan Gazelle *Procapra picticuadata*, the Nayan or Great Tibetan Sheep *Ovis ammon hodgsonii*, besides Bharal or Blue Sheep *Pseudois nayuar* and Snow Leopard, *Panthera uncia*.

In the field of wildlife conservation, the State of Sikkim has made significant progress with the establishment of one National Park, one Biosphere Reserve with the National Park as the Core Zone, seven Wildlife Sanctuaries and one Wildlife Conservation Reserve for the purpose of protection and conservation of wildlife. Details of Wildlife Protected Areas (WPA) are as under:

Sl. No	Name of WPA	Location	Area (Sq.km)	Date of Notification
1.	Khangchendzonga National Park	North-West	1784	August, 1977, May, 1997 (expansion)
2.	Shingba Rhododendron Sanctuary	North	43	25-01-1999



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3.	Fambonglho Sanctuary	Wildlife	East	51.76	02-04-1984
4.	Kyongnosla Sanctuary	Alpine	East	31	05-12-1992
5.	Pangolakha Sanctuary	Wildlife	East	128	25-01-1999
6.	Kitam Bird Sanctuary		South	06	17-06-2006
7.	Maenam Wildlife Sanctuary		South	35.34	25-01-1999
8.	Sling Dong Fairreanum Orchid Conservation Reserve		South	0.06	05-11-2008
9.	Barsey Sanctuary	Rhododendron	West	104	08-07-1996
	Total area			2183.16	

The Wildlife Protected Area covers as much as 30.76 % in terms of geographic area (7096 sq.kms) and 37.37% in terms of total recorded forest area (5841.39 sq.kms) of the State. It is the highest and best covered State in PA network in the country today.

Another heartening aspect of endeavors of the State Government towards protection of plants and animals is the declaration of the wildlife heritages.

- (a) The fine and rare Rhododendron species, *Rhododendron niveum* as the State Tree.
- (b) One of the finest decorative Orchid, *Dendrobium nobile* as the State Flower.
- (c) The cute Cat-Bear, the Red Panda *Ailurus fulgens* found in the temperate bamboo forest as the State Animal and
- (d) The gaudy Blood Pheasant, *Ithaginis cruentus* found in alpine land as the State Bird of Sikkim.

The State Government is committed to protect and conserve bio-diversity including wildlife resources, and it has prioritized these in its agenda for protection, preservation and propagation in *in-situ* as well as *ex-situ* habitats.



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TERRITORIAL (WEST) 2014-2015

1. NAME OF CIRCLE/DIVISION/DIRECTORATE/ OTHER

West Territorial Division.

2. TITLE OF WORK PROGRAMME/SCHEME/OTHER

INTENSIFICATION OF FOREST MANAGEMENT SCHEME (IFMS)

3. FUNCTION/S AND OBJECTIVE

The scheme intends to address the general problems of forest protection

4. PLAN AND NON-PLAN ALLOCATION

PLAN

5. IMPLEMENTED BY CIRCLE/DIVISION/BLOCK/ OTHER IF ANY

West Territorial Division

6. WORK IMPLEMENTED AT

Different Ranges

7. ACTIVITIES UNDERTAKEN

- Fire line maintenance
- Engagement of Firewatchers
- Control burning
- Temporary fire camp
- Awareness Camp

8. PHYSICAL ACHIEVEMENT

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

Sl. No.	Name of work	Phy	Fin (Rs.)
1	Fire line maintenance	75 km	2,99,460
2	Engagement of Firewatcher	10 Nos	2,39,800
3	Control burning	55 km	2,24,720
4	Temporary fire camp	4 Nos	2,00,000
5	Awareness Camp	8 Nos	80,000
Total			1043980

9. Intangible Outputs.

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



TERRITORIAL (WEST) 2014-2015

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. Plan and Non-Plan Allocation.

PLAN

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

West Territorial Division

6. Work implemented at.

Different Ranges

7. Activities undertaken.

- Fire line maintenance
- Engagement of Firewatchers
- Control burning
- Temporary fire camp
- Awareness Camp

8. Intangible Outputs.

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



TERRITORIAL (WEST) 2014-2015

1. Name of Circle/Division/Directorate/ Other

West Territorial Division.

2. Title of work programme/Scheme/Other

13TH 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. Physical achievement

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

Sl. No.	Name of work	Phy	Fin (Rs.)
1	Intelligence fund		100000
Total			100000





TERRITORIAL (NORTH) 2014-15

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

North Territorial Division

2. Title of Work Programme/ Scheme /Other.

13th.Finance Commission

3. Implementation by Circle/Division/Block/Other if any

Division

4. Work implemented at

North District

5. Activities Undertaken .

- Construction of Block Office cum quarter.
- Construction of Dry stone wall fencing.
- Construction of CRSM wall.
- Construction of F.G.quarter.
- Stabilization of Sukngkyong landslide area.

6. Physical Achievement

100%

7. Write up

Rs.6469995/- (Rupees sixty four lakhs sixty nine thousand nine hundred ninety five) has been utilized by North Territorial Division during the current financial year under the said scheme.



NORTH TERRITORIAL DIVISION

1.Name of Circle/Division/Directorate /Other

North Territorial Division.

2.Title of Work Programme/ Scheme /Other

Sikkim Ecology Fund and Environment Cess.

3. Plan and Non-Plan allocations

Non-Plan

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

Division

5. Work implemented at

North District

6. Activities Undertaken .

- Construction of Dry Stone wall fencing
- Bench Terracing work
- Construction of Eco-Trial footpath/Patrolling track
- Creation of ANR (Winter plantation)
- Construction of Muck dumping site
- Construction of Boundary Wall fencing
- Construction of District Forest Office Complex
- Eco stream restoration and conservation work
- Construction of C.C.M. wall

7. Physical Achievement

100%

8. Write up

Rs.2,14,59,426/- (Rupees two crore fourteen lakhs fifty nine thousand four hundred twenty six) only has been utilized by North Territorial Division during the current financial year under the said scheme.



TERRITORIAL (NORTH) 2014-15

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

North Territorial Division.

2. Title of Work Programme/ Scheme /Other

IFMS.

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

6. Physical Achievement

100%





UTILIZATION DIVISION

1 .Name of Circle/Division/Directorate /Other

Utilization Division

2. Title of Work Programme/ Scheme / Other

1. Operational Expenses-Non Plan.
2. Sikkim Ecology Fund & Env. Cess 2014-15

3. Function and Objectives.

Operational Expenses-Non Plan.

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

Sikkim Ecology Fund & Env. Cess 2014-15

- Establishment of Govt. Sawmills at North & West
- District for conversion of timber to be allotted to REDRH beneficiaries
- Up gradation of existing sawmills to facilitate conversion process

4. Plan and Non-Plan allocations.

Non Plan: Rs. 31.75 lakhs.

Plan : Rs. 37.59 Lakhs

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

Division & Range (S/W, N/E)

7. Work implemented at.

Division

- Conversion works at Govt. Sawmill, Chuba, East Sikkim and Govt. Sawmill, Bharikhola, South Sikkim



- Removal of Posing danger trees all over State as forwarded from Territorial Divisions..Rangrang, Mangan, North Sikkim

Division and Ranges

- Legship, West Sikkim
- Bhadikhola, South Sikkim

8. Activities Undertaken

Division

- Removal of Posing danger trees.
- Distribution of Sal Timber to REDRH beneficiaries free of cost

Ranges and Division

- Fencing works at Gov. Sawmill, Bhadikhola, South Sikkim
- Establishment of Govt. Sawmill at Rangrang, Mangan, North Sikkim
- Establishment of Govt. Sawmill at Legship, West Sikkim

9. Physical Achievement..

a) With Particular reference to functions of the Department

Division

- Removal of Posing danger Trees/poles
- Conversion of timber at 2 Nos. sawmill
- Distribution of **2360 cft of Sal Timber to REDRH beneficiaries** free of cost

Division/ Ranges

- 2 Nos. Sawmills at North & West Sikkim established
- Sawmill at Bhadikhola, South Sikkim fully operational & distribution of Sal Timber to REDRH beneficiaries in progress



10. Tangible Outputs

Division

- Total Revenue collection of **Rs. 53,48,329/-** only

Ranges

- 2 nos. Sawmills at North & West Sikkim established

11. Intangible Outputs

Division

- Distribution of **2360 cft of Sal Timber to REDRH beneficiaries** free of cost





PARKS & GARDENS 2014-15

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 (In Lakh).2014-15

PLAN (In Lakh): 63.20

N-PLAN (In Lakh): 143.95

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.

Decoration of venues of all State and National Function



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

- Construction of Poly house, Construction of Chowkidar hut, landscaping & beautification and purchase of tools & implements.

10. Tangible Outputs.

- Productions of ornamental plants & potted flowers around the year.

11. Intangible outputs.

- Improvement of aesthetics of different gardens under Parks & Garden Circle.

12. 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 function 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 and other gardens in and around Gangtok City, Saramsa Garden and Bhanu Udhyan at Singtam etc.

The circle works in coordination with 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 that ultimately not only represent the Forest, Environment. & Wildlife Management Department but State as a whole.



HIMALAYAN ZOOLOGICAL PARK

1. **Circle** : Directorate of KNP/KBR/HZP (Wildlife)
 2. **Division** : Himalayan Zoological Park
 3. **Title of the work programme/Schemes**: I. Sikkim Ecology Fund and Environment CESS
 - A. Maintenance of Himalayan Zoological Park
 - B. Procurement of Animal Feed at Himalayan Zoological Park
(Budget Head- Plan 3435-04.101-61.00.50 Other Charges)
- II. 13th Finance Commission
Construction of Four(4) Chamber Feeding House for Himalayan Black Bear

Sl. No.	Particulars	Physical Target	Financial Target
1.	Construction of Four (4) Chamber Feeding House for Himalayan Black Bear.	1 no.	Rs. 20.00 Lakhs

Functions & Objectives

- To improve the Infrastructure with respect to Animals Enclosure
- To provide the essential supporting instruments for animals.
- To improve the behavioral enrichment of animals
- To provide the qualitative feeds to 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:**
 - I. **Sikkim Ecology Fund and Environment CESS**

Sl. No	Particulars	Physical Target	Financial Target
1.	Maintenance of Himalayan Zoological Park	16 items of work	30.00 Lakhs
2.	Procurement of Animal Feed at Himalayan Zoological Park	1 year	30.00 Lakhs



II. 13th Finance Commission

Sl. No	Particulars	Physical Target	Financial Target
1.	Construction of Four (4) Chamber Feeding House for Himalayan Black Bear.	1 no.	Rs. 20.00 Lakhs

5. **Implementation:** Himalayan Zoological Park, FEWMD
6. **Work Implemented at:** Himalayan Zoological Park, Bulbuley.
7. **Activities undertaken:**

I. Sikkim Ecology Fund and Environment CESS

A. Maintenance of Himalayan Zoological Park

SL. NO	Item of works	Physical in nos.	Financial (in Rs.)
1.	Clearing of jungle in and around the enclosures and road/ footpath in the zoo (twice a Year) of 17 enclosure and road side / footpath	17	2,76,000/-
2	Providing Wooden flooring in the feeding house of different enclosures	10	3,83,000/-
3	Construction of Night Shelter for animals	10	3,28,000/-
4	Procurement of Tree Pruner / Pole Pruner (Telescopic STIHL Germany 25.4 cc)	1	80,000/-
5	Engagement of Safai Karmachari at the public amenities of contractual basis (22 days per month)	1	60,000/-
6	Maintenance & Purchase of HSD for Utility Vehicle (Rescue Vehicle) SK/01/D/3796	1	76,800/-
7	Partition and roofing around the wall with plain sheets (one compartment) at 5th enclosure of Barking Deer	1	4,00,000/-
8	Enrichment of enclosure Clouded Leopard, Common Leopard, Red Panda and Snow Leopard	4	1,60,000/-
9	Improvement of display enclosure of Red Panda by		



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	providing Chain Link fencing for the proper aeration	1	2,00,000/-
10	Procurement of incubator for hatching and grooming of chicks of pheasants	1	2,35,000/-
11	Procurement of inverter (550 watt) for bird enclosure	1	50,000/-
12	Construction of in-built Squeeze cage for carnivores	2	2,50,000/-
13	Installation of CCTV surveillance camera for Red Panda breeding centre	2	1,30,000/-
14	Extraction, conversion and transportation of Dhupi trees that obstructing the enclosure	37	1,11,100/-
15	Half Yearly Vaccination for FMD and other contagious disease	0	1,80,000/-
16	Printing of Entry Tickets for Adults (50 per book)	500	80,000/-
	Total		Rs.30,00,000/-

B. Procurement of Animal Feed at Himalayan Zoological Park

(Budget Head- Plan 3435-04.101-61.00.50 Other Charges)

SL. No	Description	Physical	Rate (Rs lakhs)	Proposal 2014 -15 (Rs in Lakhs)
1	Procurement Animal Feed at Himalayan Zoological Park	65 animals	LS	30.00

8. Physical Achievements:

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

SL. No	Particulars	Physical Achievements
1.	Captive Breeding	7 New births of captive animals occurred during year.
2.	Enclosures	New enclosure-1, 10 night shelter tree pruner-1, incubator-1, inverter-1, installation of CCTV-2, printing of entry tickets, FMD vaccination, repairing of Rescue Vehicle, construction inbuilt squeeze Cage and Cleaning of the Zoo.

b. With particular reference to the Plan/ Schemes in Financial and Physical terms



SL.No	Particulars	Physical Achievements
A.	Maintenance of Himalayan Zoological Park	16 nos. of works undertaken and completed which is serviceable and usable.
B.	Procurement of Animal Feed at Himalayan Zoological Park	The animals' Feed supplied from the financial year 2014-15 (1Year)

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

SL.No.	Particulars	Achievements, Innovations, Reforms etc.
1.	Revenues	Annual Revenue increased from 7.00 Lakhs to 14.00 Lakhs.
2.	Captive Breeding	Successful Breeding of Blue Sheep, Ghoral, Himalayan Palm Civet, Leopard cat and Barking deer.
3.	Fodder Plot	A fodder plot of approx. One (1) Hac area developed by involving the local public to meet the demands of fodder for the captive animals.
4.	Zoo Education	Address on the importance of wildlife and ex-situ conservation to the students and trainees.
5.	Infrastructure	Enrichment of enclosures, night shelter, structural improvement of Feeding house, Construction of new enclosure done.
6.	Trekking Trail	3.79 km length of Eco-Trail constructed for Day Hiking.

10. Tangible Outputs

- a. **Captive Breeding:** Successful Breeding of Blue Sheep-1, Ghoral-1, Himalayan Palm Civet-2, Leopard cat-2 and Barking deer-1.
- b. **Fodder Plot:** 1 Hac. of Fodder Plot Developed
- c. **Revenues:** Increased from 7.00 Lakhs to 14.00 Lakhs

11. Intangible Outputs:

- a. Zoo Education: Students, Trainees from different institutions visited zoo and they had been addressed about the Zoo, Ex-situ-conservation, its role and importance. Apart from these,



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annually 39,653 visitors visited during this financial year and might have enjoyed and acquired knowledge from the zoo.

- b. 3.79 km long trekking trail for Day Trekkers for understanding wild animals, birds and plants.





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STATE LEVEL NODAL AGENCY 2014-15

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

Social Forestry – West Division

2. Functions and Objectives.

National Bamboo Mission

3. Plan and Non- Plan Allocations.

Non-Plan

5. Title of Work Programme/ Scheme/ Other.

Soil Conservation Measures

6. Implemented by Circle / Division/ Block/ Other if any.

Division

7. Work implemented at.

West District

10. Tangible Outputs.

Fodder and shoots used by the villagers

11. Intangible outputs.

Soil Conservation, environment and ecological balance/ landslide treatment etc.

12. Write up.

Bamboo plantation was taken up under National Bamboo Mission funded by Government of India (100%CSS) and it was done in degraded landslide/ barren land.



FOREST FIRE

Fire incidents of 2014-15

Sl.No.	Year	District	No.of incidents	Area damage(Ha)
01	2014-2015	North	7	40
		East	43	113
		West	27	201
		South	26	148
		Total -	103	502





STATE POLLUTION CONTROL BOARD 2014-15

1. Name of Board. State Pollution Control Board
2. Functions and Objectives. Advisory and Regulatory
3. Plan and Non-Plan Allocations. Rs. 15,00,000/-
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 ₂ concentration of major cities (population over 100,000)	<u>Gangtok:</u> 5.2 µg/m ³ (2014) 5.9 µg/m ³ (2015)	
	Mean NO ₂ concentration of major cities	<u>Gangtok:</u> 15.6 µg/m ³ (2014) 16.5 µg/m ³ (2015)	
	Mean PM ₁₀ concentration of major cities	<u>Gangtok:</u> 54.7 µg/m ³ (2014) 60.2 µg/m ³ (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 Two wheeler = 3630 Bus= 346, Trucks = 4713 Tractors = 171, Ambulance = 105	
	Critical areas in terms of air pollution	NIL	
SURFACE WATER BODIES		<u>(Rangit river)</u>	<u>(Teesta river)</u>
	• pH	6.9	6.7
	• dissolved Oxygen mg/l	10.5 mg/l	10.2 mg/l
	• calcium mg/l	18.2 mg/l	16.2 mg/l



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	<ul style="list-style-type: none"> • sodium mg/l • potassium mg/l • nitrate mg/l • phosphate mg/l • B.O.D mg/l • C.O.D mg/l • Air (Temp) • Water (Temp) 	8.5 mg/l 0.6 mg/l 10.5 mg/l 0.4 mg/l 2.5 mg/l 10.5 mg/l 28° C 18° C	10.5 mg/l 0.8 mg/l 12.5 mg/l 0.7 mg/l 2.7 mg/l 12.5 mg/l 26° C 14° C
DRINKING WATER QUALITY	<ul style="list-style-type: none"> • pH • conductivity • B.O.D • Nitrate • Magnesium • Free CO2 • Chloride • Sulphate • Total Hardness • TSS • TDS 	<u>(Ratey Chu)</u> 7.2 18.5 µs 1.1 mg/l 4.5 mg/l 3.1 mg/l 8.4 mg/l 10.5 mg/l 2.4 mg/l 15.3 mg/l 6.7 mg/l 4.3 mg/l	<u>(Salep tank)</u> 7.0 15.5 µs 0.5 mg/l 2.5 mg/l 1.1 mg/l 5.4 mg/l 8.5 mg/l 1.4 mg/l 12.3 mg/l 4.7 mg/l 2.3 mg/l
QUALITY OF LAKES	<ul style="list-style-type: none"> • pH • dissolved Oxygen mg/l • calcium mg/l • sodium mg/l • potassium mg/l • nitrate mg/l • phosphate mg/l • B.O.D mg/l • C.O.D mg/l • Air (Temp) • Water (Temp) 	<u>(Tsongmo lake)</u> 7.3 5.8 mg/l 2.6 mg/l 3.1 mg/l 0.4 mg/l 10.4 mg/l <0.02 mg/l 1.5 mg/l 14 mg/l 20.2 mg/l 10.5 mg/l	<u>(Gurudongmar lake)</u> 6.5 10.5 mg/l 5.6 mg/l 2.1 mg/l 0.2 mg/l 8.4 mg/l 0.01 mg/l 0.95 mg/l 05 mg/l 6.0 mg/l 9.5 mg/



SOUND LEVELS	<ul style="list-style-type: none"> • Industrial Area • Commercial Area • Residential Area • Silence Zone 	<p>(Mazitar, East) Leq. 65.2 dB</p> <p>(M.G. Marg) Leq. 54.3 dB</p> <p>(Dev. Area) Leq. 54.1 dB</p> <p>(White Hall) Leq. 43.2 dB</p>
WASTE MANAGEMENT	<ul style="list-style-type: none"> • Solid Waste generated • E-waste generated • Hazardous waste generated Method of disposal for each type of waste and volume of waste disposed by each method 	<p>50 MT (approx.)</p> <p>30-40 MT</p> <p>35704 Kgs (during 2014)</p> <p>(Disposed at West Bengal Waste Management Ltd.)</p> <p>(2015report awaited)</p>

6. **Tangible Outputs.** Enhancement of Air & Water Quality

7. **Intangible outputs.** Reduction of pollution





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SOCIAL FORESTRY, NORTH DIVISION

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
- 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. 591.20 Ha. during 2014-15

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

Department will be to co-ordinate with the Gram Panchayats/ Sabha to pass the necessary resolutions to make 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 and further development of the assets created during the period.

8. Write up.



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





ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1. Name of Circle/Division/Directorate/Others

Environment & Soil Conservation East Division

2. Title of Work Programme/Scheme/Other

CAMPA APO 2014-15 (Sneha kinetic, TLDP, Rongnichu, LANCO Cat plan)

3. Functions and Objectives

Mitigation of Landslide and Soil erosions with biological and Engineering measures

4. Plan and Non-Plan Allocation

Plan Allocations

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

Environment & Soil Conservation East Division, Forest Department

6. Work implemented at

Assam Lingzey, J.N. Road, 7th mile R.F Chongay, Phusrey R.F. Karponang, Thulo khola Top, Tamzey, Lagyap, Latuk, Alay, Rateychu, Parakha, Shotak, B II, Khamdong, Samdong, Tumin, Ralap, Simik Lingzey, Linkey, Thekabong, Amba, Penlong.

7. Activities Undertaken

Brush wood Check Dam, DRSM, Catch water drain, Bench Tarracing, ccm, Sausage wall under engineering measure and AR, ANR, Medicinal plan plantation, Bamboo plantation, Pasture Development, Broom grass plantation and Seed sowing/dibbling etc.

8. Physical Achievement

100% achieved.

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

Soil Conservation work/Catchment area treatment/Landslide Mitigation

(b). With particular reference to the Plan Schemes in Financial and Physical terms.



Sneha Kinetic -

<u>Engineering</u> - DRSM -	300 cum -	Rs. 5.73 lakhs
Sausage wall -	300 cum -	Rs. 8.88 lakhs
1:4:8 ccm -	300 cum -	Rs.13.99 lakhs
CWD -	250 cum -	Rs.10.00 lakhs
Bally benching works	03 ha.	Rs. .82 lakhs
SMC works	6.50 ha.	Rs. 3.39 lakhs
Contour bonding	5.00 ha.	<u>Rs. 1.99 lakhs</u>

Rs.44.80 lakhs

<u>Biological measures-</u>	AR	10 ha.	Rs. 4.60 lakhs
	ANR	05 ha.	Rs. .96 lakhs
Medicinal pltn.	10 ha.	Rs. 7.23 lakhs	
Small Bamboo plantation	10 ha.	Rs. 3.52 lakhs	
Broom plantation	05 ha.	Rs. .97 lakhs	
Pasture Development works	05 ha.	Rs. .94 lakhs	
Seed sowing/dibbling work	02 ha.	<u>Rs. .51 lakhs</u>	

Rs.18.73 lakhs

TLDP -

<u>Engineering-</u> Sausage wall -	128.6 cum	Rs. 3.60 lakhs
1:4:8 ccm wall -	72 cum	Rs. 3.16 lakhs
Catch water drain -	200 cum	<u>Rs. 7.48 lakhs</u>

Rs.14.24 lakhs



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<u>Biological measures</u> -	AR -	15 ha.	Rs. 5.66 lakhs
	Bamboo Rhizome pltn -	05 ha.	Rs. 2.36 lakhs
	Broom grass pltn -	10 ha.	Rs. 2.12 lakhs
	Pasture Development -	10 ha.	Rs. 1.88 lakhs
	Seed sowing/dibbling work -	05 ha.	<u>Rs. 1.27 lakhs</u>
			Rs.3.29 lakhs

Rongnichhu -

<u>Engineering</u> -	B/W Check Dam 10 nos.		Rs.1.03 lakhs
	DRSM wall	300 cum	Rs. 5.33 lakhs
	Catch water drain	300 cum	Rs. 8.39 laks
	Bench terracing	03 ha.	<u>Rs. 2.54 lakhs</u>
			<u>Rs.17.29 lakhs</u>

Biological measures -

AR	20 ha.	Rs. 7.55 lakhs
ANR	30 ha.	Rs. 6.13 lakhs
Medicinal plant pltn.	<u>10 ha.</u>	<u>Rs. 5.90 lakhs.</u>
	<u>60 ha.</u>	<u>Rs.19.58 lakhs</u>

LANCO -

<u>Engineering</u> -	DRSM wall	350 cum	Rs. 6.21 lakhs
	Sausage wall	350 cum	Rs. 9.78 lakhs
	Catch water drain	200 cum	Rs. 7.48 lakhs
	Bally benching	04 ha	<u>Rs. 1.10 lakhs</u>
			<u>Rs.24.57 lakhs</u>



Biological measures -

AR	10 ha.	Rs. 3.77 lakhs
ANR	10 ha.	Rs. 2.04 lakhs
Small Bamboo Pltn.	05 ha.	Rs. 1.43 lakhs
Broom plantation	20 ha.	Rs. 4.23 lakhs
Pasture Development	05 ha.	Rs. .94 lakhs
Seed sowing/dibbling	03 ha.	Rs. .76 lakhs
Barbed wire fencing	1 km.	<u>Rs. 6.27 lakhs</u>

Rs.19.44 lakhs

9. Mention other Achievement, Innovations. Reforms etc. of significant

State Green Mission, State Green School Programme, World Env. Day & Ten minutes to Earth Programme.

10. Tangible Output

Construction of anti erosion & anti landslide and Catch water drains under engineering measures.

11. Intangible Output. Creation of oxygen for life supports and creating greenery cum wildlife abode by taking up plantation works with variable suitable species.



ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1. Name of Circle/Division/Directorate/Others-

Environment & Soil Conservation East Division.

2. Title of Work Programme/Scheme/Other-

Sacred groves, habitat and biodiversity improvement.

3. Functions and Objectives-

Protection and improvement of biodiversity and sacred groves.

4. Plan and Non-Plan Allocation-

Non- plan allocation under 3435-3-1-1-61.00.50 other charges of Sikkim Ecology Fund & Environment CESS.

5. Implemented by Circle/Division/Block/Other -

Environment & Soil Conservation East Division.

6. Work implemented at-

Baluwakhani Forest colony, 6th mile Tadong, Beering, Namli-Tumlabong, Kalikhola Singtam, Chalamthang and below Singtam (T) Range Office.

7. Activities Undertaken-

Environment, soil conservation, protection and mitigation of landslides for biodiversity conservation.

8. Physical Achievement-100%

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

Protection and mitigation of minor landslide for biodiversity conservation.

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

1. Baluwakhani – 160 cum Rs. 7.00 lakhs



2.	6 th mile Tadong -	456 cum	Rs.20.00 lakhs
3.	Beerling -	68 cum	Rs. 3.00 lakhs
4.	Namli Tumlabong	68 cum	Rs. 3.00 lakhs
5.	Kalikhola Singtam	228 cum	Rs.10.00 lakhs
6.	Range Office (T)		
	Singtam	114 cum	Rs. 5.00 lakhs
<u>DRSM - 7. Chhalamthang -</u>		<u>338 cum</u>	<u>Rs. 6.00 lakhs</u>
		1432 cum	<u>Rs.54.00 lakhs</u>

9. Tangible Output-

Construction of ccm walls & DRSM walls as protection measures and anti landslide mitigation purpose.

10. Intangible Output-

Environment awareness, Natural Regeneration of vegetation

11. Write up-The programmes had been taken up as thoroughly based on the plan and proposals to benefit the people in the society by propagating the anti landslide measures and creating the Natural Regeneration for improvement of biodiversity.



ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1. Name of Circle/Division/Directorate/Others

Environment & Soil Conservation East Division.

2. Title of Work Programme/Scheme/Other

2402-00-001-13-45-01 Salaries (Non-Plan)

3. Functions and Objectives

Payment of salaries and medical expenses.

4. Plan and Non-Plan Allocation

Non-Plan allocations

5. Write up

The salaries of the Divisional staffs has been paid till September 2015 with an amount of Rs.6789291/- and Rs. 3471709/- is balance which is insufficient for payment of Division staff till 31st March 2016.





ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1. Name of Circle/Division/Directorate/Others

Environment & Soil Conservation East Division.

2. Title of Work Programme/Scheme/Other

2402-00-001-13-45-13-45-13 (O.E) Non-Plan

3. Functions and Objectives

To meet up the offices expenses for requirement of running office

4. Plan and Non-Plan Allocation

Non-Plan allocation

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

Environment & Soil Conservation East Division

6. Write up

Against the total allotment of Rs.150000/- an amount of Rs.31908/- has been expended for related purpose by the last of September 2015.



ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1. Name of Circle/Division/Directorate/Others-

Environment & Soil Conservation East Division

2. Title of Work Programme/Scheme/Other

2402-00-001-13-45-13-45-11 (T.E) Non-Plan

3. Functions and Objectives

Payment of travel expenses for field staffs on their field duty and transfer of staffs in the division

4. Plan and Non-Plan Allocation

Non-Plan allocations

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

Environment & Soil Conservation East Division

6. Write up

Against the total allocation of Rs.60000/- an amount of Rs.31065/- has been paid for travelling expenses required by last September 2015.



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ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1. Name of Circle/Division/Directorate/Others

Environment & Soil Conservation East Division

2. Title of Work Programme/Scheme/Other

2402-00-102-13-45-13-45-72 State W/shed

3. Functions and Objectives

Payment of 6 Muster Roll staffs engaged under E&SC, Circle for 2014-15

4. Plan and Non-Plan Allocation

Plan allocations

5. Work implemented at

Environment & Soil Conservation East Division

6. Write up-

Against the total allocation of Rs.456000/- an amount of Rs.202950/- has been paid for monthly M/R payment up to 16th September 2015.



ENVIRONMENT & SOIL CONSERVATION, WEST DIVISION

1. Name of Circle/Division

Environment and Soil Conservation, West Division

2. Title of work program/scheme

Catchment Area Treatment Plan of Rangit-IV HEP (JPCL) in West Sikkim

3. 3-Functions & Objectives

- To treat catchment area of Rangit-IV HEP in West Sikkim

4. Plan & Non-Plan allocations

Plan (State CAMPA)

5. Implemented by Circle/Division-

Environment and Soil Conservation, West Division

6. Work implemented at-

Samthang RF, Chingthang forest & adjoining private holding, Samdong RF & adjoining private holdings, West Sikkim

7. Activities undertaken

- Catchment area treatment
- Maintenance of Afforestation and Pasture Development

8. Physical achievements-

Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
3 rd Year maintenance of Afforestation	Samthang RF	5 ha.	19,655.00
3 rd Year maintenance of Pasture Development	Chingthang pvt. Holding/Goucharan	5 ha.	9,800.00
4 th Year maintenance of Afforestation	Chingthang Forest & adjoining private holdings/ Samdong RF & adjoining private holdings	90 ha.	2,70,000.00



9. Tangible outputs (total of above three work components)

- Catchment area treatment at the project area
- Remuneration of Rs. 2,99,455.00 for labour wages and seedling cost

9. Intangible outputs

Well established plantation contribute quality air, water environment

10. Write up

The above works were carried out as per the approved APO 2014-15 under CAT Plan of Rangit-IV HEP in different areas of West Sikkim.





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ENVIRONMENT & SOIL CONSERVATION, WEST DIVISION

1. **Name of Circle/Division**

Environment and Soil Conservation, West Division

2. **Title of work program/scheme**

Catchment Area Treatment Plan of Jorethang Loop HEP (DANS) in West Sikkim.

3. **Functions & Objectives**

To treat catchment area of Jorethang Loop HEP of West Sikkim.

4. **Plan & Non-Plan allocations-Plan (State CAMPA)**

5. **Implemented by Circle/Division-Environment and Soil Conservation, West Division**

6. **Work implemented at-Hiteybong Khasmal, West Sikkim**

7. **Activities undertaken-Maintenance of Afforestation.**

8. **Physical achievements**

a) with particular reference to function of Deptt.	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	3 rd Year maintenance of Afforestation	Hiteybong Khasmal	6 ha.	23,678.00
b) with particular reference to the plan scheme in physical and financial terms	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	3 rd Year maintenance of Afforestation	Hiteybong Khasmal	6 ha.	23,678.00

9. **Tangible outputs (total of above three work components)**

- Catchment area treatment
- Remuneration of Rs. 23,678.00 for labour wages and seedling cost.



10. Intangible outputs-

Well established plantation contribute quality air, water environment

11. Write up-The above works were carried out as per the approved APO 2014-15 under CAT Plan of Jorethang Loop HEP in Hiteybong Khasmal of West Sikkim.



ENVIRONMENT & SOIL CONSERVATION, WEST DIVISION

1- Name of Circle/Division

Environment and Soil Conservation, West Division

2- Title of work program/scheme

Thirteen Finance Commission

3- Functions & Objectives

To develop Anti-erosion/slope stabilisation works as per the public demands and field conditions in West Sikkim.

4- Plan & Non-Plan allocations

Plan

5- Implemented by Circle/Division

Environment and Soil Conservation, West Division

6- Work implemented at

Rinchenpong/Maneybong Dentam/Yuksom Tashiding/Soreng/Daramdin/Zoom Salghari
Constituencies of West Sikkim.

7- Activities undertaken

Anti-erosion/slope stabilisation works as per the public demands and field conditions

8- Physical achievements

	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
a) with particular reference to function of Deptt.	CCM Works (1:4:8) (in cum)	Rinchenpong/Soreng/Daramdin/Yuksom-Tashiding/Zoom Salghari Constituencies	1470.11 cum	64,75,000.00
	Hand packed sausage/crate wall (in cum)	Rinchenpong/Soreng/Daramdin Constituencies	750.49 cum	21,00,000.00
	Dry Rubble Stone Masonary	Maneybong-Dentam Constituency	915.48 cum	16,00,000.00



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	wall (in cum)			
	Catch water drain (in rmt)	Rinchenpong Constituency	80.21 rmt	3,00,000.00
b) with particular reference to the plan scheme in physical and financial terms	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	CCM Works (I:4:8) (in cum)	Rinchenpong/Soreng/Daramdin/Yukson-Tashiding/Zoom Salghari Constituencies	1470.11 cum	64,75,000.00
	Hand packed sausage/crate wall (in cum)	Rinchenpong/Soreng/Daramdin Constituencies	750.49 cum	21,00,000.00
	Dry Rubble Stone Masonary wall (in cum)	Maneybong-Dentam Constituency	915.48 cum	16,00,000.00
	Catch water drain (in rmt)	Rinchenpong Constituency	80.21 rmt	3,00,000.00

9. Tangible outputs (total of above three work components)

- Slope stabilization, prevention of soil erosion
- Remuneration of Rs. 104.75 lakhs for labour wages/supply of stock/supply of non-stock/mechanical carriage/royalty/labour cess.

10. Intangible outputs

The erosion prone areas treated as per the public demands and field conditions.

11. Write up:

Anti-erosion/slope stabilisation works as per the public demands and field conditions carried out under TFC during 2014-15.



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ENVIRONMENT & SOIL CONSERVATION EAST DIVISION

1- Name of Circle/Division/Directorate/Others

Environment & Soil Conservation East Division

2-Title of Work Programme/Scheme/Other

CAMPA APO 2014-15 (Sneha Kinetic, TLDP, Rongnichu, LANCO Cat Plan)

3-Functions and Objectives

Mitigation of Landslide and Soil erosions with biological and Engineering measures

4-Plan and Non-Plan Allocation

Plan Allocation

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

Environment & Soil Conservation East Division, FEWMD

6-Work implemented at

Assam Lingzey, J.N. Road, 7th mile R.F Chongay, Phusrey R.F. Karponang, Thulo khola Top, Tamzey, Lagyap, Latuk, Alay, Rateychu, Parakha, Shotak, B II, Khamdong, Samdong, Tumin, Ralap, Simik Lingzey, Linkey, Thekabong, Amba, Penlong.

7-Activities Undertaken

Brush wood Check Dam, DRSM, Catch water drain, Bench Tarracing, ccm, Sausage wall under engineering measure and AR, ANR, Medicinal plan plantation, Bamboo plantation, Pasture Development, Broom grass plantation and Seed sowing/dibbling etc.

8-Physical Achievement

100% achieved.

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

Soil Conservation work/Catchment area treatment/Landslide Mitigation performed.

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



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Sneha Kinetic - Engineering DRSM - 300 cum - Rs. 5.73 lakhs

Sausage wall - 300 cum - Rs. 8.88 lakhs

1:4:8 ccm - 300 cum - Rs.13.99 lakhs

CWD - 250 cum -Rs.10.00 lakhs

Bally benching works 03 ha. Rs. .82 lakhs

SMC works 6.50 ha. Rs. 3.39 lakhs

Contour bonding 5.00 ha. Rs. 1.99 lakhs

Rs.44.80 lakhs

Biological measures- AR 10 ha. Rs. 4.60 lakhs

ANR 05 ha. Rs. .96 lakhs

Medicinal pltn. 10 ha. Rs. 7.23 lakhs

Small Bamboo plantation 10 ha. Rs. 3.52 lakhs

Broom plantation 05 ha. Rs. .97 lakhs

Pasture Development works 05 ha. Rs. .94 lakhs

Seed sowing/dibbling work 02 ha. Rs. .51 lakhs

Rs.18.73 lakhs

TLDP - Engineering- Sausage wall - 128.6 cum Rs. 3.60 lakhs

1:4:8 ccm wall - 72 cum Rs. 3.16 lakhs

Catch water drain - 200 cum Rs. 7.48 lakhs

Rs.14.24 lakhs



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<u>Biological measures</u> -	AR -	15 ha.	Rs. 5.66 lakhs
	Bamboo Rhizome pltn -	05 ha.	Rs. 2.36 lakhs
	Broom grass pltn -	10 ha.	Rs. 2.12 lakhs
	Pasture Development -	10 ha.	Rs. 1.88 lakhs
	Seed sowing/dibbling work -	05 ha.	<u>Rs. 1.27 lakhs</u>
			Rs.3.29 lakhs

Rongnichhu -

Engineering -	B/W Check Dam 10 nos.	Rs.1.03 lakhs
	DRSM wall 300 cum	Rs. 5.33 lakhs
	Catch water drain 300 cum	Rs. 8.39 laks
	Bench terracing 03 ha.	<u>Rs. 2.54 lakhs</u>
		<u>Rs.17.29 lakhs</u>

<u>Biological measures</u> -	AR	20 ha.	Rs. 7.55 lakhs
	ANR	30 ha.	Rs. 6.13 lakhs
	Medicinal plant pltn.	10 ha.	<u>Rs. 5.90 lakhs.</u>
		60 ha.	<u>Rs.19.58 lakhs</u>

LANCO - <u>Engineering</u> -	DRSM wall	350 cum	Rs. 6.21 lakhs
	Sausage wall	350 cum	Rs. 9.78 lakhs
	Catch water drain	200 cum	Rs. 7.48 lakhs
	Bally benching	04 ha	<u>Rs. 1.10 lakhs</u>
			<u>Rs.24.57 lakhs</u>



<u>Biological measures -</u>	AR	10 ha.	Rs. 3.77 lakhs
	ANR	10 ha.	Rs. 2.04 lakhs
	Small Bamboo Pltn.	05 ha.	Rs. 1.43 lakhs
	Broom plantation	20 ha.	Rs. 4.23 lakhs
	Pasture Development	05 ha.	Rs. .94 lakhs
	Seed sowing/dibbling	03 ha.	Rs. .76 lakhs
	Barbed wire fencing	1 km.	<u>Rs. 6.27 lakhs</u>
			<u>Rs.19.44 lakhs</u>

9. Mention other Achievement, Innovations. Reforms etc. of significant

Active participation in State Green Mission, State Green School Programme, World Env. Day & Ten minutes to Earth Programme.

10. Tangible Output

- Pasture Development
- Construction of anti erosion & anti landslide and Catch water drains
- Quality engineering measures.
- Quality Environment

11. Intangible Output

- Creation of oxygen for life supports and creating greenery cum wildlife abode by taking up plantation works with variable suitable species.



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ENVIRONMENT & SOIL CONSERVATION, WEST DIVISION

1. Name of Circle/Division

Environment and Soil Conservation, West Division

2. Title of work program/scheme

Thirteen Finance Commission

3. Functions & Objectives

To develop anti-erosion/slope stabilisation works as per the public demands and field conditions in West Sikkim

4. Plan & Non-Plan allocations

Plan

5. Implemented by Circle/Division

Environment and Soil Conservation, West Division

6. Work implemented at

Rinchenpong / Maneybong, Dentam / Yuksom Tashiding / Soreng / Daramdin / Zoom Salghari Constituencies of West Sikkim.

7. Activities undertaken

Anti-erosion/slope stabilisation works as per the public demands and field conditions.

8. Physical achievements

a)with particular reference to function of Deptt.	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	CCM Works (I:4:8) (in cum)	Rinchenpong/Soreng/Daramdin/Yuks on-Tashiding/ Zoom Salghari Constituencies	1470.11 cum	64,75,000.00
	Hand packed sausage/crate wall (in cum)	Rinchenpong/Soreng/Daramdin Constituencies	750.49 cum	21,00,000.00
	Dry Rubble Stone Masonary wall (in cum)	Maneybong-Dentam Constituency	915.48 cum	16,00,000.00
	Catch water drain (in rmt)	Rinchenpong Constituency	80.21 rmt	3,00,000.00



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	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
b)with particular reference to the plan scheme in physical and financial terms	CCM Works (I:4:8) (in cum)	Rinchenpong/Soreng/Daramdin/Yuks on-Tashiding/ Zoom Salghari Constituencies	1470.11 cum	64,75,000.00
	Hand packed sausage/crate wall (in cum)	Rinchenpong/Soreng/Daramdin Constituencies	750.49 cum	21,00,000.00
	Dry Rubble Stone Masonary wall (in cum)	Maneybong-Dentam Constituency	915.48 cum	16,00,000.00
	Catch water drain (in rmt)	Rinchenpong Constituency	80.21 rmt	3,00,000.00

9. Tangible outputs (total of above three work components)

- Soil and Environment conservation
- Remuneration of Rs. 104.75 lakhs for labour wages / supply of stock / supply of non-stock / mechanical carriage/royalty/labour cess.

10. Intangible outputs

The erosion prone areas treated as per the public demands and field conditions.

11. Write up

Anti-erosion/slope stabilisation works as per the public demands and field conditions carried out under TFC during 2014-15.



ENVIRONMENT & SOIL CONSERVATION, WEST DIVISION

1. Name of Circle/Division

Environment and Soil Conservation, West Division

2. Title of work program/scheme

Catchment Area Treatment Plan of Jorethang Loop HEP (DANS) in West Sikkim

3. Functions & Objectives

To treat catchment area of Jorethang Loop HEP in West Sikkim

4. Plan & Non-Plan allocations

Plan (State CAMPA)

5. Implemented by Circle/Division

Environment and Soil Conservation, West Division

6. Work implemented at

Hiteybong Khasmal, West Sikkim

7. Activities undertaken

Maintenance of Afforestation

8. Physical achievements

a) with particular reference to function of Deptt.	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	3 rd Year maintenance of Afforestation	Hiteybong Khasmal	6 ha.	23,678.00
b) with particular reference to the plan scheme in physical and financial terms	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	3 rd Year maintenance of Afforestation	Hiteybong Khasmal	6ha.	23,678.00



9. Tangible outputs (total of above three work components)

Remuneration of Rs. 23,678.00 for labour wages and seedling cost

10. Intangible outputs

The weeding, soil working and mulching at the base of seedlings have helped in the establishment of plantation. A well established plantation will have multiple intangible benefits for environment and human beings in the long run.

11. Write up

The above works were carried out as per the approved APO 2014-15 under CAT Plan of Jorethang Loop HEP in Hiteybong Khasmal of West Sikkim.



ENVIRONMENTAL INFORMATION SYSTEM (ENVIS) CENTRE

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.12.80 lakhs
Vide Sanction No: 11/68/2004 – EI
Dated:10/07/2014 of MoEFCC, GoI

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.sikenvis.nic.in), publication of quarterly newsletters

8. Physical Achievements

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

- Published 500 nos each of quarterly newsletter (three issues)
- Published 2000 nos of PANDA newsletter
- Published 500 nos of Pictorial booklet on Paryavaran Mahotsav 2014
- Published 1000 nos of Eco-Club Handbook for Schools



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

Financial and Physical Achievement of ENVIS Centre 2014-15

SN.	Sanctioned Object Head	Financial Achievement			Physical Achievement Other than 8(a) above
		Amount Sanctioned (in Rs)	Expenditure incurred (in Rs.)	Fin. Achievement In %	
1	Manpower	8,40,240	8,40,240	100 %	3 Persons
2.	Others (Database development, website maintenance, printing of newsletters, contingency, stationery, consumables, AMC, Internet charges, inter-center interaction workshop etc.)	4,00,000	4,00,000	100 %	17 out of 17 ISBEID modules completed; 1366 nos of website updates,
3.	Travel etc.	40,000	40,000	100 %	1 National workshop and 1 regional meeting
Total		12,80,240	12,80,240	100%	

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

- ENVIS Centre Sikkim declared Rank No .1 out of 68 Centres in India
- Preparation of 2nd State of Environment Report for Sikkim initiated

10. Tangible Outputs.

- Published information products like quarterly newsletter, PANDA newsletter, Paryavaran Mahotsav booklet, Eco-Club Handbook etc

11.Intangible outputs.

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

12.Write up

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.



ENVIRONMENT & SOIL CONSERVATION, WEST DIVISION 2014-15

1. Name of Circle/Division

Environment and Soil Conservation, West Division

2. Title of work program/scheme

Catchment Area Treatment Plan of Rangit-IV HEP (JPCL) in West Sikkim

3. Functions & Objectives

To treat catchment area of Rangit-IV HEP in West Sikkim

4. Plan & Non-Plan allocations

Plan (State CAMPA)

5. Implemented by Circle/Division

Environment and Soil Conservation, West Division

6. Work implemented at

Samthang RF, Chingthang forest & adjoining private holding, Samdong RF & adjoining private holdings, West Sikkim

7. Activities undertaken

Maintenance of Afforestation and Pasture Development.

8. Physical achievements

	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
a) with particular reference to function of Deptt.	3 rd Year maintenance of Afforestation	Samthang RF	5 ha.	19,655.00
	3 rd Year maintenance of Pasture Development	Chingthang pvt. Holding/Goucharan	5 ha.	9,800.00
	4 th Year maintenance of Afforestation	Chingthang Forest & adjoining private holdings/ Samdong RF & adjoining private holdings	90 ha.	2,70,000.00
b) with particular reference to the plan	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	3 rd Year maintenance of Afforestation	Samthang RF	5 ha.	19,655.00



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scheme in physical and financial terms	3 rd Year maintenance of Pasture Development	Chingthang pvt. Holding/Goucharan	5 ha.	9,800.00
	4 th Year maintenance of Afforestation	Chingthang Forest & adjoining private holdings/ Samdong RF & adjoining private holdings	90 ha.	2,70,000.00

9. Tangible outputs (total of above three work components)-

- Soil moisture and Environment conservation
- Remuneration of Rs. 2,99,455.00 for labour wages and seedling cost

10. Intangible outputs-

Well established plantation benefits for environment and human beings in the long run.

12-Write up-

The above works were carried out as per the approved APO 2014-15 under CAT Plan of Rangit-IV HEP in different areas of West Sikkim.



1-Name of Circle/Division

Environment and Soil Conservation, West Division

2-Title of work program/scheme

Sikkim Environment Cess and Ecology Fund.

3-Functions & Objectives

- To perform soil and moisture conservation works in West Sikkim.

4-Plan & Non-Plan allocations

Non-Plan

5-Implemented by Circle/Division

Environment and Soil Conservation, West Division

6-Work implemented at

Bermoik Gyalshing/ Yangthang Constituencies of West Sikkim.

7-Activities undertaken

Anti-erosion/slope stabilisation works as per the public demands and field conditions.

8. Physical achievements

a) with particular reference to function of Deptt.	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	P/L Sausage wall	Upper Bermoik	250cum	7,00,000.00
	P/L Catch water drain	Majgaon, Bermoik	250rmt	7,15,000.00
	P/L 1:4:8 CCM wall	Upper Bermoik	50cum	2,20,000.00
	DRSM wall	Neytham	250cum	5,45,000.00
	P/L Sausage wall	Meyong Chingthang	250cum	7,00,000.00
	DRSM wall	Sindrabong	500cum	8,88,000.00
	P/L 1:4:8 CMM wall	Langang	150cum	6,58,000.00
	P/L 1:4:8 CMM wall	Meyong-Chingthang	100cum	4,39,000.00



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	Soil & Moisture Conservation works	Nambu	17.62ha.	8,04,000.00
	Soil & Moisture Conservation works	Begha	14.68ha.	6,70,000.00
b) with particular reference to the plan scheme in physical and financial terms	Work Component	Location	Physical Target Achieved	Financial Target Achieved (Amount in Rs.)
	P/L Sausage wall	Upper Bermoik	250cum	7,00,000.00
	P/L Catch water drain	Majgaon, Bermoik	250rmt	7,15,000.00
	P/L 1:4:8 CCM wall	Upper Bermoik	50cum	2,20,000.00
	DRSM wall	Neytham	250cum	5,45,000.00
	P/L Sausage wall	Meyong Chingthang	250cum	7,00,000.00
	DRSM wall	Sindrabong	500cum	8,88,000.00
	P/L 1:4:8 CMM wall	Langang	150cum	6,58,000.00
	P/L 1:4:8 CMM wall	Meyong-Chingthang	100cum	4,39,000.00
	Soil & Moisture Conservation works	Nambu	17.62ha.	8,04,000.00
	Soil & Moisture Conservation works	Begha	14.68ha.	6,70,000.00

9. Tangible outputs (total of above three work components)

Environment and Soil Conservation of catchment areas

Remuneration of Rs. 63.39 lakhs for labour wages/supply of stock/supply of non-stock/mechanical carriage/royalty/labour cess.



10-Intangible outputs-

The erosion prone areas treated as per the public demands and field conditions.

11-Write up-

Anti-erosion/slope stabilisation works as per the public demands and field conditions carried out under Sikkim Environment Cess and Ecology Fund during 2014-15.



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 being 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.
	TOTAL	3 GOVT. SERICULTURE FARMS	

7. Activities Undertaken

- 26 acres of farm under Sericulture is being maintained in South, East & West Sikkim.
- 117 farmers were imparted training on Sericulture.
- Various rearing tools and appliances were distributed to the beneficiaries.



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- Subsidy /Grand-in-aid were given to 114 Sericulture beneficiaries @ Rs.90,00,000/-for construction of silkworm rearing house.
- 24 nos of Sericulture stakeholders 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 for self employment and sustainability



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

Subsidy/Grant-In-Aid disseminated to the Sericulture beneficiaries (Mulberry & Eri) for the construction of Silkworm Rearing Houses on 31.08.2015 at Sidkyeong Tulku Memorial Hall, Forest Secretariat.

	Mulberry			Eri			
District	No. of Beneficiaries	Rate	Amount	No. of Beneficiaries	Rate	Amount	Amount
District	No. of Beneficiaries	Rate	Amount	No. of Beneficiaries	Rate	Amount	Amount
East	37	90,000/- per beneficiaries	33,85,500/-	21	45,000/- per beneficiaries	9,76,500/-	43,62,000/-
West	30	90,000/- per beneficiaries	27,00,000/-	16	45,000/- per beneficiaries	6,93,000/-	33,93,000/-
South	47	90,000/- per beneficiaries	42,30,000/-	26	45,000/- per beneficiaries	11,70,000/-	54,00,000/-
TOTAL	114	2,70,000/-	1,03,15,500/-	63	1,35,000/-	28,39,500/-	1,31,55,000/-

GRAND TOTAL AMOUNT OF SUBSIDIES PAID TO SERICULTURE BENEFICIARIES OF THREE DISTRICTS: 1,31,55,000/- (Rupees One crore thirty one lakhs fifty five thousand) only.



10. Other Achievement:

1. Cluster Areas Development under Sericulture project

<i>DISTRICTS</i>	<i>CLUSTER AREAS UNDER SERICULTURE PROJECT</i>	<i>SDCs:</i>	<i>VILLAGES COVERING:</i>	<i>UNDER BACs</i>
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



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WEST	5 CLUSTERS	SDC-1(S)	Bayong, Tikpur, Siktam	Sombarey
		SDC-2(S)	Upper & Lower Kamling, Suldung	Sikhip
		SDC-3(S)	Vok, Sikhip, Omchu	-do-
		SDC-4(S)	Meyong, Yangsum Chingthang, Meyong, Berfok	Hee Martam
		SDC-5(S)	Malbasey, Budang, Tharpu	Soreng
TOTAL	15 CLUSTERS	15 SDCs	44+ NO. OF VILLAGES	12 NO. OF BACs

2. FARMERS' TRAINING PROGRAMME HELD FROM 24TH NOVEMBER 2014 ONWARDS AT RORATHANG GOVT. SERICULTURE FARM EAST SIKKIM.

- The training of 1st batch (mulberry sector) started from 24th November to 29th November 2014 comprising of 26 nos. of trainees from East and West districts. The batch included 15 nos. of cluster areas, viz, Salghari Dhungay Pani, Taza, Taza Titribotey, Dahnukey, Amba, Taksang Kaizaley, Mulukey under East District, 11 nos. of cluster areas viz, Beyong, Tikpur, Lower Kamling, Chinthang, Bimirey Yagsumn under West district.
- Likewise, the training of 2nd batch (mulberry sector) started from 1st December to 6th December 2014 comprising of 29 nos. where 09 nos. of cluster areas Yangsum, Berfok, Chingthang, Megyong, Tikpur, Kamling under West district. 11 nos. of cluster areas; Katyang, Lower Bokrong, Lower Katyang, Upper Pamphok under South district. 09 nos. of South district. 09 nos. of the cluster areas, viz, West Pendam Sakhu & West Pendam Saplay under East district.
- The training of 3rd batch (mulberry) started from 8th December to 14th December 2014 comprising of 33 nos. where 12 nos. from the cluster areas, viz, Upper Vok, Lower Vok, Belbotey Sumbuk, Beyong under West district. 11 nos. of the cluster areas viz, Shayamdas Sumbuk (S), Belbotey Sumbuk under South district. 10 nos. of cluster areas viz, Saku, Lower Pacheykhani under East district.



- The training of 4th batch (mulberry) started from 7th January to 12th January 2015 comprising of 29 nos. where 14 nos. of cluster areas viz, Belbotey, Kameray, Sumbuk, Lower Borong under South district. and 15 nos. of the cluster areas viz, Malbasey, Upper Vok, Chingthang under West district.

2. EXPOSURE VISIT OF SERICULTURE FARMERS OF DARJEELING AND KALIMPONG (WEST BENGAL) TO SERICULTURE GOVT. FARMS OF SIKKIM IN THE MONTH OF MARCH 2015.

a. 05/03/15

To enrich the knowledge of Sericulture farmers of Darjeeling and Kalimpong (West Bengal), 30 (thirty) nos. with 03 (three) Extension officers participated in One day Exposure visit programme of sericulture during the year 2015 organized by the Department of Textiles (Sericulture), North Zone, Siliguri. The objective of the exposure visit programme was to make the sericulture farmers of West Bengal known about commercial Bivoltine rearing in Sikkim and to interact with the sericulture farmers of Sikkim and to exchange their ideas amongst them as the programme was fixed on 05/03/15 by the Directorate of Sericulture, FEWMD, Forest Secretariat, Govt. of Sikkim at Rorathang Govt. Sericulture Farm (E) Sikkim.

b. 11/03/15 - 14/03/15.

Similarly, another exposure visit programme was organized by the Department of Textiles (Sericulture) North Zone, Siliguri for the 23 (twenty three) nos. of farmers of Siliguri (West Bengal) along with one escort at the Govt. Sericulture Farms of Mamring (S) Sikkim and Rorathang (E) Sikkim. All logical supports and arrangements of tour programme made by the Directorate of Sericulture, FEWMD, Govt. of Sikkim.

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.

HARC

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 : 12..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 of Fambunglho Wildlife Sanctuary
- Study conducted for ecotourism promotion activities across East district , and accordingly appraised to the authority
- Extensive surveys made across the national laboratories for understanding process NABL accreditation and quality equipments;
- 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



8. Physical Achievement.

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

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

(b). With particular reference to the Plan Schemes in Financial and Physical terms.

Phy.: 22

Fin (In Lakh): 12.00

9. Mention other Achievement, Innovations, Reforms etc. of significant.

Levy on Forest Water taxation

10. Tangible Output.

- Drafted the policies of Natural Water Rules of Forest, Environment and Wildlife Management Department;
- Forest, Environment and Wildlife Management Department received funding to establish Quality Control Laboratory of Silviculture and Research of Forest, Environment and Wildlife Management Department
- Compilation on ecotourism

1. Intangible Output.

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

12. Genesis

Bioresources of Sikkim has immense potential to cater socio-economic uplift of people. It requires extensive studies for remodeling fragmented economy of rural Sikkim. Sikkim Forestry is a principle component to take on socio-economic development of state.

Management and sustainable uses of forests are two headed approach, thus need to prepare criteria and indicators of Forest Management units of Sikkim for efficient uses.

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 for qualitative and quantitative results.



AFFORESTATION UNDER TWENTY POINT WORK

The 20 point programme (TPP) was launched by the Government of India in the year 1975 and was first revised subsequently 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



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28	2010-11	5000	2734.07	54.68	32.50	55.68	105.60
29	2011-12	6000	7454.76	124	39	5033470	129.06%
30	2012-13	7450	9019.23	121.06	48	6027395	125.57
31	2013-14	6160	4805.00	78.00	40.04	31.92	79.72
32	2014-15	6160	4095.30	66.48	40.04	2307116	57.62



ACCOUNTS

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%
12	2014-2015	1115.35	933.74	83.72	Shortfall 16.28%

STATEMENT OF EXPENDITURE DURING LAST FIVE YEARS.

SECTORS	ACTUAL EXPENDITURE						
	STATE PLAN	C.S.S		FCA	NEC	EAP	N- PLAN
		100 %	90:10%				
2010-11		9841					286.7
2011-12	76.06						260.52
2012-13	87.41						335.96
2013-14	87.41						87.41
2014-15	84.55						346.60
Forestry & Wildlife							
2010-11	2851.08	297.82					2477.91



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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
2014-15	2347.97	887.21			75.05	1955.51	3432.63
Ecology & Environment							
2010-11	20.27	24.51					14.62
2011-12	35.34	88.13					-
2012-13	32.93	7.20					258.07
2013-14	0.01						1.20
2014-15	44.95		12.81				3779.23