





Government of India Ministry of Environment, Forest& Climate Change (EI Division)

2016-17

Annual Progress Report





Hosted by

Forests, Environment & Wildlife Management Department Government of Sikkim Gangtok

ENVIS CENTER SIKKIM

On Status of Environment & Related Issues

(STATE GOVERNMENT CENTER)





Government of India Ministry of Environment, Forests& Climate Change (EI Division)



ANNUAL PROGRESS REPORT 2016-17

(1stApril 2016 – 31stMarch 2017)

OF

ENVIS CENTER SIKKIM

On Status of Environment & Related Issues

(STATE GOVERNMENT CENTER)



Hosted by
Forests, Environment & Wildlife Management Department
Government of Sikkim
Deorali, Gangtok – 737101

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Government of India Ministry of Environment, Forest & Climate Change (EI Division)

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Annual Progress Report 2016-17 on Activities of Sikkim State ENVIS Centre

1.	Name of Host Organization:	Forests, Environment and Wildlife Management Department, Government of Sikkim, Gangtok			
2.	Assigned Subject Area:	On Status of Environment & its Rela	ted Issues		
3.	Date/Month/Year of establishment of ENVIS Centre:	MoU dated 23/03/2002 Established vide letter No: 13(1)/WB/2002 – ENVIS dated: 25/06/2002.			
4	Name and designation of ENVIS Coordinator (2015-16):	B. B. Gurung, Additional Director (Planning/ Environment & Soil Conservation)			
5.	Has the Host Organization constituted an Advisory Committee for guiding the activities of the Centre?	Yes			
	Composition of the Advisory Committee:	1. Dr. Thomas Chandy, IFS PCCF-cum Pr. Secretary	Chairperson		
	(Select YES or NO: if YES kindly fill the right column space; if NO kindly leave it blank)	2. Shri C.S. Rao, IFS CCF (T/HQ)	Member		
	○ YES ○ NO	3. Shri J.B. Subba, IFS Director (KNP/KBR)	Member		
		4. Dr. Gopal Pradhan Pr. Scientist (SPCB)	Member		
		5. Shri. D. T. Bhutia Addl. Director (TT), DST&CC	Member		
		6. Shri B.B. Gurung Addl. Director (P/ E&SC)-cum- Programme Coordinator (ENVIS)	Member Secretary		

Office Order Constituting Advisory Committee for ENVIS Centre Sikkim



GOVERNMENT OF SIKKIM DEPARTMENT OF FOREST, ENVIRONMENT & WILDLIFE MANAGEMENT FOREST SECRETARIAT, DEORALI, GANGTOK 737102

No. 1119 /ADM/FEWMD

Dated: 21/03/2015

OFFICE ORDER

Consequent upon the approval of the Competent Authority, an Advisory Committee comprising of the following officers is hereby constituted for necessary guidance and review of the activities of the ENVIS Centre on Status of Environment & Its Related Issues hosted by the Forest, Environment and Wildlife Management Department, Government of Sikkim;

1.	Dr. Thomas Chandy, IFS	PCCF-cum Pr. Secretary	Chairperson
2.	Shri C.S. Rao, IFS	CCF (T/HQ)	Member
3.	Shri J.B. Subba, IFS	Director (KNP/KBR)	Member
4.	Dr. Gopal Pradhan	Pr. Scientist (SPCB)	Member
5.	Shri. D. T. Bhutia	Additional Director (TT), DST&CC	Member
6.	Shri B.B. Gurung	Joint Director (E&SC)	Member Secretary

The above Advisory Committee shall meet at least twice in a year for oversight/review of the activities of the ENVIS Centre including carrying out peer review of its information/ knowledge products, and also formulate Annual Plan of Activities for relevant prospective year.

Sd/

(Dr. Thomas Chandy) IFS PCCF-cum-Principal Secretary

Forest, Environment & Wildlife Management Department

Memo No4702-4711 /ADM/FEWMD

Dated: 21/03/2015

Copy to:

- 1) All the officers concerned above
- 2) Principal Secretary to HCM
- 3) Assistant Director, MoEF (El Division), Government of India
- 4) PS to Hon'ble Minister, FEWMD
- 5) PS to Chief Secretary
- -6) File
- 7) Guard File

Deputy Secretary to the Government

Forest, Environment & Wildlife Management Department

Name	Position held	Qualification	Joining	Joining		2016-17	
		and Experience	Date in ENVIS Centre	Date in current position	Leaving Date (if applicable)		ents drawn Rs.) Annual
Mr. Rajen Pradhan	Sr. Programme Officer	B. Tech (Computer Sc.) with ten years experience in environment information technology	17/04/2006	20/03/2009	-	31,890/-	3,82,680/-
Mr. Laxuman Darnal	Information Officer cum Programme Assistant	PG (Diploma) in Computer Sc. with ten years experience in ENVIS	18/08/2006	20/03/2009	-	26,635/-	3,19,620/
Ms. Renu Gurung	IT Assistant	BA Graduate with Diploma in computer applications	16/09/2011	1/04/2013	-	21,542/-	2,58,504/
Ms. Tulsha Gurung	Data Entry Operator (Additional manpower attached to ENVIS by the host department)	Cl XII pass with Diploma in computer application	02/12/2013	02/12/2013	-	8,500/-	1,02,000/ Supported by the host department for 2015-1

7	Mandate of the Host Organization	Mandate of the ENVIS Centre
	The primary mandate of the host	To collect, collate, store in retrieval system and
	department is protection &	disseminate data and information on "Status of
	conservation of Forests, Environment	Environment & Related Issues"
	& Wildlife in the State.	

8. Databases:

8.1. Catalogue of Non-numeric Databases compiled by the ENVIS Centre till date:

No C	Descripti	Date to	Ctatus -fil. 1 .	Commercial	01!
Name of Database	Description (in brief)	Data type (descriptive/	Status of Updation/ Periodicity/ Data	Source(s) of data	Online Availability
Database	(in briej)	graphical/	Points Compiled		(Whether
		geospatial/	(including		uploaded on
		etc.)	date/month/year of		ENVIS
		ен.)	last data point)		Website)
Agriculture	Opportunities and	Descriptive	2015	Food Security	Yes
	Challenges, Agro-			and Agriculture	
	biodiversity of Sikkim Himalaya, Sikkim organic			Development Department,	
	Mission, Soil Health Card			journals,	
	Scheme Scheme			Govt.	
				publications	
Pollution	Air, water, noise, solid waste	Descriptive	Monthly up to 2016	SPCB	Yes
Biodiversity	Comprehensive database	Descriptive,	Book published in	Govt publication	Yes
	on floral and faunal diversity of Sikkim	geospatial	2012, updated up to 2017		
Climate	Daily weather data of	Descriptive,	Book published in	Govt publication	Yes
Change in	Gangtok, district wise	geospatial	2012, data updated		
Sikkim	rainfall, monthly met data		up to 2017		
	, climate synthesis report, Comprehensive study				
	report on in-depth				
	research by several				
	scholars				
Demography	Analysis on Population study of Sikkim	Descriptive, graphical	2011 Census	Census of India	Yes
Disaster	History of Earthquakes,	Descriptive	2017	Disaster	Yes
	landslides, forest fires			Management	
				Department, Newspapers	
Ecotourism	Policy, trek, permits and	Descriptive	2017	Forest deptt	Yes
	fees, ecological study,	r r			
	festivals.				
Energy	Electricity and energy	Descriptive	Annual up to 2015	Power and	Yes
Environment	consumption EIA, EMP, SoE report,	Descriptive	2017	Energy Deptt Forest deptt	Yes
LIIVIIOIIIIICIII	carrying capacity study	Descriptive	2017	1 orest depti	169
	report, ECs, etc.				
Forest	Forest types, SFRs,	Descriptive	2016	FSI, State Forest	Yes
Resources	JFMCs, EDCs	Б	2016	deptt	¥7
Land and	Watershed, Wetlands,	Descriptive	2016	SAC, ISRO,	Yes
Water Resources	Wasteland, Rivers, landslide and soil			Journals, Forest deptt	
Resources	treatment, water quality of			1 orest depti	
	river Ratey Chu – Source				
	of Gangtok				
Wildlife	PAs, KNP, eco-sensitive	Descriptive	2016	Forest deptt	Yes
	and conservation zones,				
	Management Plans, Nomination dossier of				
	KNP for world heritage				
	site, compensation				
	guidelines				
Soils and	Geology and Mineral	Descriptive	2016	Mines Minerals	Yes
Minerals	Resources of Sikkim,			and Geology	

Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/month/year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
	Mineral reserves in Sikkim, Soil resources			Deptt	
Sericulture	Mulberry, muga and eri culture practices in Sikkim	Descriptive	2016	Forest deptt	Yes

8.2. Catalogue of Numeric and Time-series Databases compiled by the Centre till date:

Name of	Description	Time Period (Starting	Source(s) of data	Online
Database			Source(s) of data	
Database	(in brief)	year- Ending year)		Availability
		and Periodicity		(Whether
		(annual/monthly/		uploaded on
		other)		ENVIS Website)
Agriculture	Area, Production and	Annual	Food Security &	Yes
	Productivity of Rice,	(2003-04 to	Agriculture Development	
	Wheat, Maize, Finger	2014-15)	Deptt	
	Millet, Barley,			
	Buckwheat, Pulses,			
Air Quality of	Oilseeds SPM, SOx, NOx	Annual, Monthly,	SPCB	Yes
Gangtok	SPM, SOX, NOX		SPCB	res
River Water	pH, BOD, T Coliform etc	Daily (2016) Monthly (2011, 2012,	SPCB	No
Quality	pri, BOD, i Comorni etc	2013, 2014, 2015)	SPCB	NO
Biodiversity	Statistics on species	Annual up to 2016	Forest deptt	Yes
•	availability	•	Potest depti	Tes
Climate	Temperature, rainfall etc	Monthly, Annual	IMD	Yes
		1996-2016		
Demography	Demography statistics	2001, 2011	Census of India	Yes
Earthquakes	History of Earthquakes	1839 -2015	Disaster Management Deptt	Yes
Forest Fire Cases	Forest fire cases in	2004 - 2017	Forest deptt	Yes
	Sikkim		-	
Electricity	Category wise	Annual, 2008-09 to	Power & energy deptt	Yes
Consumption	consumption	2014-15		
Energy	Per capita consumption,	Annual	Power & energy deptt	Yes
Consumption	Power from National grid,	2002-03 to		
	hydel power generation	2014-15		
Forest Statistics	Forest cover statistics of	1987 to 2015	FSI	Yes
	Sikkim			
Wetlands of	Altitude wise no of lakes	2003 and 2011	SAC, ISRO, Ahmedabad	Yes
Sikkim	and area			
Mineral Reserves	Status of mineral	Annual, 2016	Mines, Mineral and	Yes
in Sikkim	development in Sikkim		Geology Deptt	
Protected Areas of	Profile of Wildlife	2017	Forest deptt	Yes
Sikkim	sanctuaries and National Park			
Disaster	History of Earthquakes,	2017	Disaster Mgmt Deptt.	Yes
	landslides, forest fires		Newspapers	
Ecotourism	Policy, trek, permits and	2017	Forest deptt	Yes
	fees, ecological study		-	
Energy	Electricity and energy	Annual up to 2016	Power and Energy Deptt	Yes
	consumption			

8.3. New Databases developed during the Financial Year (2016-17)

8.3.1. Non-numeric Databases:

		_			
Name of	Description	Data type	Status of Updation/	Source(s) of	
Database	(in brief)	(descriptive/	Periodicity/ Data	data	Availability
		graphical/	Points Compiled		(Whether
		geospatial/	(including		uploaded on
		etc.)	date/month/year of		ENVIS
			last data point)		Website)
Biodiversity	Fishes, Lizards, Snakes, Birds,	Descriptive	2016	Govt	Yes
	Butterflies, Bees, Carnivorous			publication	
	animals of KBR, Amphibians,				
	Insects and Beetle diversity				
Pollution	Water Quality of Rivers	Descriptive	2016	Forest Deptt	Yes
	Industrial Air Quality	Descriptive	2016	SPCB	Yes
	Air Quality of Major Towns	Descriptive	2017	SPCB	Yes
	Hazardous Waste of Sikkim	Descriptive	2017	SPCB	Yes
	Consent Forms	Descriptive	2017	SPCB	Yes
	Noise Pollution	Descriptive	2017	SPCB	Yes
KNP	Inscription of Khangchendzonga	Descriptive	2016	Forest Deptt	Yes
	National Park as World Heritage				
	Site				
Ecotourism	Ecotourism zones of Sikkim	Descriptive	2017	Forest Deptt	Yes
	Organizational manual	Descriptive	2017	Forest Deptt	Yes
Solid Waste	Management Rules, Municipal	Descriptive	2016	Forest Deptt	Yes
	Bodies and Nagar Panchayat				
ORS	Online Research Permit System	Descriptive	2016	Forest Deptt	Yes
Wildlife	Human Animal Conflict	Descriptive	2016	Forest Deptt	Yes
Disaster	Dzongu Landslide	Descriptive	2016	Forest Deptt	Yes
Forestry	Heritage Trees of Sikkim	Descriptive	2016	Forest Deptt	Yes

8.3.2. Numeric and Time-series Databases:

Name of Database	Description (in brief)	Time Period (Starting year- Ending year) and Periodicity	Source(s) of data	Online Availability (Whether
		(annual/ monthly/ other)		uploaded on ENVIS Website)
Pollution	Industrial Air Pollution	Monthly 2015	SPCB	Yes
	Air Quality of Major Towns	2016	SPCB	Yes
	Water Quality of Rivers	2010-2015	SPCB	Yes
	Hazardous Waste	2015-2017	SPCB	Yes
	Noise Pollution	2014, 2015, 2016	SPCB	Yes
Agriculture	Area, Production and Productivity of Major Crops	2003-04 to 2014-15	Food Security & Agriculture Dev. Deptt	Yes
River Water Quality	pH, BOD, T Coliform etc	Monthly	SPCB	No
Climate data	Daily weather report and four days forecast of Gangtok town	Daily basis	IMD	Yes
Rainfall	District wise rainfall data	2009-2014	IMD	Yes
Forestry	53 Heritage Trees of Sikkim	2016	Forest Deptt	Yes

8.4. Status of data entry in **ISBEID**: (For State/UT ENVIS Centres) – As in ANNEX.

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the Financial Year (2016-17):

Cover snapshot	Quarter/ Volume/ Issue/ Theme		URL of the PDF file in
	Main Antialas	printed and	ENVIS website
	Main Articles	circulated	
PANDA	2016 Special Newsletter edition title <i>PANDA Vo. 8</i> 56 pages bi-lingual special edition	1500 nos Supported by	http://sikenvis.nic.in/ WriteReadData/Public ation/Panda%20Vol% 208%20Final%202016
	highlights scientific research articles, write-ups, observations and notes on flora, fauna, ecotourism, wildlife, climate	host organization	<u>.pdf</u>
T S to A management	change and other important environment issues over the year 2015-16 of Sikkim	Released by the Hon'ble Chief Minister of	
	State. The newsletter is a compilation of articles received from foresters, environmentalists, scientists, scholars, students and volunteers.	Sikkim on June 5, 2016	
Stakens ENVIS Incularitar	1 st Qtr (Apr-Jun) Vol. 9, Issue 1 Paryavaran Mahotsav 2016, Heritage Trees of Sikkim, WIPRO's Earthian	500 nos.	http://sikenvis.nic.in/ WriteReadData/Public ation/ENVIS%20New sletter%202016-
Further Management (1966) Standard Management (1966) Sta	School Programme, Ban on Styrofoam, Ban on Packages Drinking Water Bottles		17%20Vol%209%20Is sue%201%20(Apr- Jun).pdf
	in Government Functions and meetings		
Sidden Sidden ENVIS ENVIS	2 nd Qtr (Jul-Sep) Vol. 9, Issue 2 KNP inscribed as UNESCO's World	500 nos.	http://sikenvis.nic.in/ WriteReadData/Public ation/ENVIS%20New
Shapphedoppi Tational First State of the Control of	Heritage Site, Khangchendzonga National Park, Gangtok awarded cleanest tourist destination of India, Landslide at Mantam, Dzongu, North Sikkim		sletter%202016- 17%20Vol%209%20Is sue%202%20(Jul- Sep).pdf
	Wantani, Dzongu, Notui Sikkini		<u>5-cp7,pai</u>
Sidden ENVIS Resister	3 rd Qtr (Oct- Dec) Vol.9, Issue 3 Sustainable Development Leadership Award to Shri Pawan Chamling Chief	500 nos.	http://sikenvis.nic.in/ WriteReadData/Public ation/ENVIS%20New sletter%202016-
And the control of th	Minister of Sikkim, Wildlife Population Estimation Study in Sikkim, Human Wildlife Conflict in Sikkim, Greater Rangit Ecotourism festival		17%20Vol%209%20Is sue%203%20(Oct- Dec).pdf

9.2. Other publications/ information products brought out during the Financial Year (2016-17):

Cover snapshot	Publication/ Product	Number of copies	URL of the PDF file
		printed and circulated	in ENVIS website
	Theme(s)/ Subject Area(s)		
ENVIRONMENTAL INITIATIVES CHESTIST CONTROLLED THE STATE CONTROLLED THE S	Environmental Initiatives of Sikkim 1994-2016 Special book publication on environmental initiatives of Sikkim	500 Copies Released by the Hon'ble Chief Minister of Sikkim on 15 th of August 2016	http://sikenvis.nic.in/W riteReadData/Publicati on/Environmental%20I nitiatives%20of%20Si kkim%2015%20Aug% 202016.pdf
NATURES MARVEL A Petronal Browlet of the Faural Diversity of Sidem	Nature's Marvel A Pictorial Pocket Sized Booklet on the Faunal Diversity of Sikkim	2000 nos Printing costs supported by host organization Released by the Pr. Secretary –cum- PCCF on 29th September 2016	http://sikenvis.nic.in/W riteReadData/Publicati on/Natures-Marvel.pdf
PARYAWARAN MAHOTSAV 2015 And faces And fac	Activity Book on 'Paryavaran Mahotsav 2015' Sikkim celebrated the 3 rd successive Paryavaran Mahotsav 2015. This 76 paged book highlights activities carried out throughout the State though mass public participation. The activities such as plantation drives, cleanliness drives, signature campaigns, Greenathon events and various other activities are highlighted in this publication.	Printing costs supported by host organization Released by the Hon'ble Governor and the Hon'ble Chief Minister of Sikkim on June 25, 2016	http://sikenvis.nic.in/W riteReadData/Publicati on/Final%20Paryavara n%20Mahotsav%2020 15.pdf
ENVIRONMENTAL INITIATIVES OF SITE PAWARN CHANGEING STANDARD CHANGE AND CHANGE OF SITE	Bilingual Booklet on Environmental Initiatives of Sikkim 1995-2016 for general public	500 each in English and Nepali	Printed and distributed to general public on the occasion of World Environment Day June 5, 2016.

9.3 Information Products published/ released during last five years (2011-12 to 2015-16):

SN	Year	Publication Title	Theme(s)/ Subject Area(s)	URL of the PDF file in ENVIS
				website
1.	2011-12	Newsletter PANDA Vol 4 Bilingual (English and Nepali)	Sikkim earthquake 18 Sep, edible mushrooms, Proposed Ramsar sites in Sikkim, blue wing ruppi, chief minister's green school rolling trophy	http://sikenvis.nic.in/WriteReadData/P ublication/PANDA%20English%2020 11-12%20web.pdf (ENGLISH) http://sikenvis.nic.in/WriteReadData/P ublication/PANDA%20Nepali%20201 1-12%20web.pdf (NEPALI)
3.		Environmental Initiatives of Sikkim 1995-2012 Sikkim Biodiversity	Environmental Initiatives of the Hon'ble Chief Minister of Sikkim Shri Pawan Chamling Sikkim Biodiversity Action Plan	http://sikenvis.nic.in/WriteReadData/Publication/CM Env initiative%202012.pdf http://sikenvis.nic.in/WriteReadData/P
4.		Action Plan Climate Change in	Patterns, Impacts and Initiatives	ublication/SIKKIM%20BIODIVERSI TY%20ACTION%20PLAN%20Aug %202012%20FINALWEB.pdf http://sikenvis.nic.in/PublicationDetail
		Sikkim	Tatterns, impacts and initiatives	<u>s.aspx?SubLinkId=</u> <u>136&LinkId=2662&Year=2014</u>
5.	2012-13	Newsletter PANDA Vol 5	Environmental Sustainability Index 2011, State Forest Statistics 2011, Key Statistics, Demography, Climate Change Indicators in Sikkim, Recent sightings and findings, Himalayan Landscape, Man and Macaques	http://sikenvis.nic.in/WriteReadData/Publication/Download%20PANDA%20 2013.pdf
6.		Environment Consciousness in Sikkim	Study report to assess the environment consciousness of citizens of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/EC% 20Report CDF IFMR.pdf
7.		Forest for Sustainable Livelihood	A concept note on forest and sustainable livelihoods	http://sikenvis.nic.in/WriteReadData/P ublication/Forest%20 for%20Sustainable%20Livelihood%2 0%20NEAC% 202012.pdf
8.		Biodiversity - All Creatures Great and Small	Biodiversity - All Creatures Great and Small. Floral and Fuanal Wealth of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/ DOWNLOAD%20Biodiversity%20- %20All%20Creatures%20Great%20a nd%20Small.pdf
9.		Study of Ecological, Socio-Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	Study of Ecological, Socio- Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/Download% 20Study%20Report%20on%20Grazing%20Ban%20in%20 West%20Sikkim.pdf
10.		National Green Corps – Sikkim	School Eco-Club Success Stories from Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/NGC-SIkkim-Report%202012-web.pdf
11.	2013-14	Quarterly Newsletter Vol 6 Issue 1 (Apr-Jun)	Biodiversity Conservation, Oaks species of Species	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%20 2013- 14%20Vol%20VI%20Issue%201.pdf
12.		Quarterly Newsletter Vol 6 Issue 2 (Jul-Sep)	Wastelands of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Sikkim%20Newsletter%202013-14%20Vol%20VI%20Issue%202%20

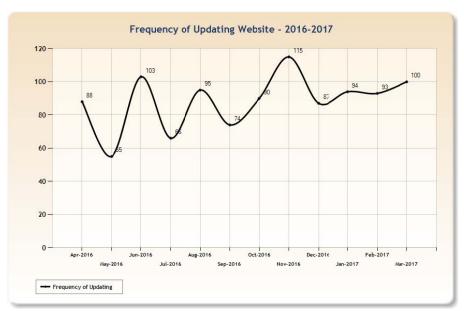
SN	Year	Publication Title	Theme(s)/ Subject Area(s)	URL of the PDF file in ENVIS website
13.		Quarterly Newsletter Vol 6 Issue 3 (Oct-Dec)	Protected Area Network in Sikkim, Gochela trek	v2.pdf http://sikenvis.nic.in/WriteReadData/P ublication/ENVIS%20Sikkim%20Ne wsletter%202013- 14%20Vol%20VI%20Issue%203%20 v2.pdf
14.		Newsletter PANDA Vol 6 Issue 4	Sikkim Fishes, Magnolia taxa, Ratey chu watershed, Green lake expedition, Gangtok windstorm	http://sikenvis.nic.in/WriteReadData/P ublication/ENVIS%20Sikkim%20Ne wsletter%20PANDA%20Vol%206.pd f
15.		Biodiversity Conservation	Concept note on Biodiversity Conservation	http://sikenvis.nic.in/WriteReadData/P ublication/NEAC- Biodiversity%20Conservation.pdf
16.		Sidkeong Tulku Bird Park	Pamphlet on Sidkeong Tulku Bird Park, West Sikkim	http://sikenvis.nic.in/WriteReadData/P ublication/Sidkeong %20Tulku%20Bird%20Park.pdf
17.	2014-15	Quarterly Newsletter Vol 7 Issue 1 (Apr-Jun)	Paryavaran Mahotsav, State Green Schools Award, CM Rolling Trophy, Green wave, world environment Day	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202014-15%20Vol%207%20Issue%201.pdf
18.		Quarterly Newsletter Vol 7 Issue 2 (Jul-Sep)	Eco-Sensitive Zones in Sikkim, Sustainable Environment Initiative at School, Green Roads Mission	http://sikenvis.nic.in/WriteReadData/P ublication/ENVIS%20Newsletter%20 2014- 15%20Vol%207%20Issue%202.pdf
19.		Quarterly Newsletter Vol 7 Issue 3 (Oct-Dec)	Swachh Bharat Swasthh Sikkim, Solid Waste Profile of Gangtok, Legal Framework for Solid Waste Management, , Healthcare Waste Management	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%20 2014- 15%20Vol%207%20Issue%203.pdf
20.		Newsletter PANDA Vol 7 Issue 4 Special edition	KNP, Shapi, Yartsa gunbu, polygala arillata, myna, tinjurey ecotourism, important bird area of Sikkim, Lampokhari, gurugongmar, bird bioacoustics	http://sikenvis.nic.in/WriteReadData/P ublication/Panda%20Volume%20No %207.pdf
21.		Paryavaran Mahotsav 2013	Pictorial book report on fortnightly environment festival of Sikkim June 15-30, 2013	http://sikenvis.nic.in/WriteReadData/P ublication/Paryavaran%20Mahotsav% 202013%20web1.pdf
22.		Environmental Initiatives of Sikkim 1995-2015 Bilingual (English and Nepali)	Booklet on Environmental Initiatives of Sikkim 1995-2015	http://sikenvis.nic.in/WriteReadData/Publication/Env%20Initiatives%20of%20Shri%20Pawan%20Chamling%20English%202015.pdf (ENGLISH)http://sikenvis.nic.in/WriteReadData/Publication/Env%20Initiatives%20of%20Shri%20Pawan%20Chamling%20Nepali%202015%20web.pdf (NEPALI)
23.		Sikkim State Action Plan on Climate Change	Sikkim State Action Plan on Climate Change	http://sikenvis.nic.in/WriteReadData/P ublication/Sikkim%20State%20Action %20Plan%20on%20Climate%20Chan ge%20web.pdf
24.		Management Plan of Khangchendzonga National Park	Management Plan of Khangchendzonga National Park (2008-2018) (Online publication)	http://sikenvis.nic.in/WriteReadData/Publication/KNP- Management%20Plan%20- %20WEB.pdf
25.		Eco-Club Handbook	Guidelines for Eco-Club and Green Schools State Awards	http://sikenvis.nic.in/WriteReadData/Publication/NGC%20ECO%20 CLUB%20HANDBOOK.pdf
26.		National Green Corps -	National Green Corps - Sikkim	http://sikenvis.nic.in/WriteReadData/P

SN	Year	Publication Title	Theme(s)/ Subject Area(s)	URL of the PDF file in ENVIS website
		Sikkim Report	Activity Report	ublication/NGC-Sikkim-Report-2015- web.pdf
27.		Rapid Biodiversity Survey Report -I	Rapid Biodiversity Survey Report of Sikkim- First Phase	http://sikenvis.nic.in/WriteReadData/Publication/Rapid%20Biodiversity%20Survey%20Report%20-%20I.pdf
28.	2015-16	Quarterly Newsletter Vol 8 Issue 1 (Apr-Jun)	International Conference on Conservation of Natural and Cultural values of Khangchendzonga National Park, Reconstitution of SEIAA and SEAC Sikkim, ban on firecrackers, ban on slash burning in Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%20 2015- 16%20Vol%208%20Issue%201%20(Apr-Jun).pdf
29.		Quarterly Newsletter Vol 8 Issue 2 (Jul-Sep)	Red Panda conservation breeding program in Sikkim, Inception workshop on preparation of 2nd State of Environment Report for Sikkim, Green Teacher's Training for 250 schools of Sikkim, Painting and Essay competition, ozone day, green consumer day	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%20 2015- 16%20Vol%208%20Issue%202%20(Jul-Sep).pdf
30.		Quarterly Newsletter Vol 8 Issue 3 (Oct-Dec)	Safaigiri awards, Gangtok the cleanest hill station, Okharey ecotourism carnival, Living with wildlife, India's INDC to UNFCCC, Science Express Climate Action special	http://sikenvis.nic.in/WriteReadData/P ublication/ENVIS%20Newsletter%20 2015- 16%20Vol%208%20Issue%203%20(Oct-Dec).pdf
31.		Newsletter PANDA Vol 8 Issue 4 Special edition	Yartsa gunbu, Sikkim himalayan rhododendron, pleione, oroxylum indicum, pagolakha wildlife sanctuary, new lake kip tso, isabelline wheatear	http://sikenvis.nic.in/WriteReadData/Publication/Panda%20Vol%208%20Final%202016.pdf
32.		Paryavaran Mahotsav 2014	Pictorial book report on fortnightly environment festival of Sikkim June 15-30, 2014	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim% 20Paryavaran%20Mahotsav%202014 %20-%20web.pdf
33.		Handbook on Nature based Festivals of Sikkim	Nature based Festivals of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/Hand%20Book%20of%20 Nature%20Based%20Festival%20of%20Sikkim%2005-06-15%20web.pdf
34.		Rapid Biodiversity Survey Report -II	Rapid Biodiversity Survey Report of Sikkim- Second Phase	http://sikenvis.nic.in/WriteReadData/Publication/Rapid%20Biodiversity%20Survey%20Report%20-%20II.pdf
35.		Heritage Trees of Sikkim	Photo album of notified Heritage trees of Sikkim	http://sikenvis.nic.in/WriteReadData/P ublication/SIKKIM%20STATE%20H ERITAGE%20TREES.pdf

- **10. ENVIS Website**(*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*):
 - 10.1. URL: www.sikenvis.nic.in
 - **10.2. Status of restructuring of Website:** Restructured and made live on 26/11/2012
 - 10.3. Frequency of updating Website 2016-17 (as on 31-Mar-2017)

 The monthly average frequency of updation for 2016-17 is 88 updates per month.

 Total 1060 updates have been made during 2016-17 as on 31st of March, 2017.



(as on 31-Mar-2017)

Months	Publications	Subject Area	Glossary	Bibliography	Major Activity	Kids Centre	Upcoming Events	Latest News	Photo Gallery	Frequency of Updating	
Apr-2016	7	21	0	41	0	1	8	10	0	88	
May-2016	0	13	0	19	0	2	5	5	11	55	
Jun-2016	7	21	0	18	0	0	10	16	31	103	
Jul-2016	4	16	0	30	0	1	1	14	0	66	
Aug-2016	5	17	0	38	13	0	11	8	3	95	
Sep-2016	4	25	0	32	3	0	4	6	0	74	
Oct-2016	4	14	0	41	5	0	11	6	9	90	
Nov-2016	2	18	0	61	2	0	20	12	0	115	
Dec-2016	3	16	0	55	6	0	3	4	0	87	
Jan-2017	2	16	0	60	3	0	5	8	0	94	
Feb-2017	0	15	0	58	2	0	5	11	0	93	
Mar-2017	0	20	0	60	6	0	6	8	0	100	
Total	38	212	0	513	40	4	89	108	54	1060	

- **10.4. Subject-specific database updation (numeric/ others): 212** updates have been made during 2016-17 as on 31-Mar-2017 alone in the subject-specific database.
- **10.5. Publication uploaded/ updated on Website: 38** updates (*including journals, pamphlets, newsletters and book publication*)

11. User Engagement and Interaction

	User engagement and interaction	FY 2014-15	FY 2015-16	FY 2016-17
i.	Total number of visits	1,78,575	2,53,172	3,51,826
ii.	Number of unique visits	17,527	48,924	41,082
iii	Reports Downloaded/Read	730	994	1,247
iv.	Total Number of Queries received	1200	1400	1779
v.	Number of Queries responded	1200	1400	1779
vi.	Grade received	80 'A'	81 'A'	

- 11.1 Total number of visits on Website (2016-17): 3,51,826 (As on 31-Mar-2017)
- 11.2 Number of unique visits on Website (2016-17): 41,082 (As on 31-Mar-2017)



Months		Visits			Unique Visitors	
Months	Indian	Rest of the world	Total	Indian	Rest of the world	Total
Apr-2016	10316	14429	24735	2587	1013	3600
May-2016	9628	15689	25313	2316	1017	3333
Jun-2016	7419	17250	24662	2054	1059	3113
Jul-2016	8130	15096	23223	1676	990	2666
Aug-2016	8706	17619	26324	2249	1160	3409
Sep-2016	7397	21358	28755	1874	1279	3153
Oct-2016	6111	25578	31689	1762	1494	3256
Nov-2016	7108	22004	29111	1994	1531	3525
Dec-2016	8193	19216	27407	1536	1397	2933
Jan-2017	7164	18448	25611	1622	1599	3221
Feb-2017	9795	23884	33679	2076	1935	4011
Mar-2017	14126	37192	51317	2534	2328	4862

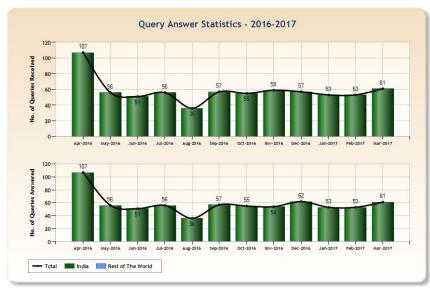
11.3 Number of reports downloaded/ read by stakeholders:

Total 1,247 downloads have been observed during 2016-17 as on 31-Mar-2017 in which about 60% of the downloadable items have been accessed from the Publications module and about 30% of the items have been downloaded from the subject area module. However, this figure is only restricted to sections of the website which require user login. The actual download figures is expected to be much more since 70% of the reports content of the website especially the subject area content have now been uploaded with direct URL of pdf files due to user demand.

	La	atest Nev	ws	Ма	jor Activ	/ity	К	ids Cent	re	Pı	ublicatio	ns	Sı	ıbject Ar	ea	Rea	Report d/Downloa	aded
Months	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world		India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Tota
Apr-2016	1	0	1	0	0	0	1	0	1	75	0	75	43	0	43	120	0	120
May-2016	0	0	0	0	0	0	2	0	2	79	0	79	23	0	25	104	0	106
Jun-2016	0	0	0	0	0	0	3	0	3	89	0	89	39	0	39	132	0	132
Jul-2016	0	0	0	0	0	0	0	0	0	38	0	38	58	0	58	96	0	96
Aug-2016	0	0	0	0	0	0	1	0	1	46	0	46	46	0	46	93	0	93
Sep-2016	0	0	0	0	0	0	2	0	2	56	0	56	35	0	35	93	0	93
Oct-2016	0	0	0	1	0	1	1	0	1	67	0	67	19	0	19	88	0	88
Nov-2016	0	0	0	0	0	0	0	0	0	72	0	72	58	0	58	130	0	130
Dec-2016	2	0	2	0	0	0	0	0	0	25	0	25	42	0	42	69	0	69
Jan-2017	0	0	0	0	0	0	0	0	0	84	0	84	25	0	25	109	0	109
Feb-2017	0	0	0	0	0	0	0	0	0	85	0	85	44	0	44	129	0	129
Mar- 2017	0	0	0	0	0	0	0	0	0	43	0	43	39	0	39	82	0	82

11.4 Query-Answer Statistics 2016-17: As on 31-Mar-2017

Mode of Query Receipt	Number of Queries	Number of Queries	Reasons for shortfalls, if any,
	Received	Responded	and action taken to rectify
Online (CMS based website)	701	701	-
Email (official NIC server)	315	315	-
Postal/Telephonic (incl. hand	151	151	-
post)			
Physical	612	612	-
Total	1779	1779	



(As on 31-Mar-2017)

12. Implementation of Annual Plan of Activities of the Financial Year (2016-17):

	Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Ce	ntre's proposed activities 2010	6-17	
1.	ISBEID: Addressing the data gap on modules (Biodiversity, Air Pollution, Waste); data collection and updation for 2015-16 onwards on all 17 modules.	Total 856 nos of updates have been made during 2016-17 as on 31-Mar-2017	
2.	Publication State of Environment Report (SoER) 2016: This comprehensive report will serve as a driving tool for policy and decision making of many stakeholders and planners.	Drafting of the report has been completed and final stakeholder's consultation workshop need to be convened. The report will be befittingly released during World Environment Day June 5, 2017	
3.	Searchable database application development on list of floral and faunal species of Sikkim	Comprehensive list of flora and fauna have been updated in the Biodiversity section of the Subject area module of the website.	
	Enriching the Subject-wise database with climate change related information on glacial study, and vegetation carbon pool assessment study. Updation of Subject-wise databases modules of the website	212 updates have been made in the subject area module during 2016-17 as on 31-Mar-2017. Updates have been made on pollution statistics, heritage trees of Sikkim, ecotourism zones of Sikkim and other important climate change relation information.	
6.	(www.sikenvis.nic.in). Application development for facilitating online research permits in Sikkim. This application will reduce the paper work and facilitate the research scholars as well as to track their application status	Application developed and hosted in NIC domain during September 2016 and linked with ENVIS portal under major activities module. Till date about 15 online applications for research permits have been processed.	
7.	Publication of Quarterly Newsletters on regular basis	Three quarterly issues of Sikkim ENVIS newsletter have been published and e-copies have been distributed widely.	
8.	Publication of special edition of PANDA newsletter	Special edition annual newsletter 'PANDA Vol 8' was published and released on 5 th June 2016 by the Chief Minister of Sikkim	
9.	Publication of Knowledge based products on "Forest Wildlife in Sikkim" and "Environment Management in Sikkim"	Special publications such as Environment Initiatives of Sikkim, Narvel's Marvel – A pocket pictorial handbook on flora diversity of Sikkim have been published and distributed widely	

Activity/ Target	Achievements	Shortfalls, if any, and
10. Integration of Bhuvan based	Customized hands-on training by ISRO	reasons therefore Hosting awaited from
thematic/ spatial data and	attended at Shillong. Spatial data (point,	Bhuvan team, NRSC,
information in the existing	polygons, shape files) prepared on wetlands,	ISRO, Hyderabad
CMS based website.	earthquakes, water quality etc prepared and	
	sent to Bhuvan team through ENVIS Secretariat.	
11. Serve as the nodal in-charge	Updation and upkeep of online content in	
for online updation of data	ENVIS website is a regular and ongoing	
and information on Status of	activity.	
Environment and its related issues pertaining to Sikkim.		
12. Coordinate National Green	Training programmes organized for 100	
Corps (NGC) programmes in	schools during March 2016 and for 200	
Sikkim as a Nodal Resource	schools during September 2016 in partnership	
Agency and collaborate with	with WIPRO and CSE, New Delhi	
resource agencies like WIPRO Bangalore, CEE	respectively. 761 School eco-clubs strengthened by provision of environment kits	
Guwahati and CSE new	and resource materials.	
Delhi in spreading	and resource materials.	
environment and education		
at the school level.		
13. Support the host department	Bilingual booklet in English and Nepali	
in environment awareness programmes in the State with	prepared, DVDS etc on environment initiatives and policies as awareness material and	
resource materials like	distributed widely during environment calendar	
pamphlets, brochures,	days.	
handbooks, posters, banners,		
fyers, signages etc.		
14. To play the role of Lead ENVIS Centre of Eastern	Successfully hosted and organized 1st quarter	
and North-Eastern Region	brainstorming session for Eastern and North Eastern ENVIS Centers during May 2016.	
for facilitating quarterly	Eastern Erv vis Centers during way 2010.	
brainstorming sessions and		
Regional evaluation		
workshop during 2016-17		
and to provide one point access to ENVIS Secretariat		
on regional issues and		
developments		
	w Delhi, February 2016 (Post-workshop follow	-up)
	Processing Division, MoEF &CC	
A. Regular Activities: Web-base Collection and Compilation	sed Environmental Information of Information and Data	
Development and regular	212 number of updates done in the	
updation of databases	subject area module of the website	
(descriptive, numeric,	during 2016-17 as on 31-Mar-2017. The	
pictorial, geospatial, etc.) on	information content of the subject area	
the assigned subject area and regular uploading of the same	quoted with authentic sources.	
in the <i>Subject Area</i> section of		
the ENVIS Website, after due		
verification/ authentication,		
with suitable referencing of		
data sources.		

Activity/ Target	Achievements	Shortfalls, if any, and
		reasons therefore
2. Compilation of <i>Abstracts</i> ,	513 bibliography, about 38 journals,	
Bibliography, News articles,	abstracts and other publications	
Events, etc. on the subject	uploaded in the website.	
area and uploading the same		
in the relevant section of ENVIS Website.		
3. Identification of data gaps and	About 856 data updates on ISBEID	
formulation with	made.	
implementation of action plan		
to fill them.		
Maintenance of ENVIS Website	and User Engagement through it	
4. Maintaining the ENVIS	Centre's website has been kept up-to-date	-
Website up-to-date and user-	with frequency of updates averaging to 88	
engaging, and as an inventory	updates per month.	
of authentic and reliable		
information in the subject		
5. Query-Response/ Referral	About 1800 online, postal, email and in-	
service to stakeholders.	person queries have been handled by the	-
service to stakeholders.	centre during 2016-17.	
6. Developing and upgrading a	Kids corner has been made interactive by	Kids Sections CMS module
Kids' Corner.	uploading quiz section, video gallery and	has encountered duplicate
	monthly environmental activity highlights	variable problem since July
	and so on. However this section has not	2016 and NIC has not
	been updated after July 2016.	corrected the issue despite
		several reminders.
7. Maintaining a disaggregated	Website is designed to automatically	-
record of visitors, including	record visitor's log and is reflected in the	
unique visitors, to the	performance chart.	
Website.	properties of State of Environment (ScE) Deno	anta
8. Development of time series	paration of State of Environment (SoE) Reportant Time series data are regularly fed in the	orts
ISBEID databases on 17	ISBEID system. Total 856 number of	
parameters (except the ones	updates were made during 2016-17	
that are irrelevant to the State	alone. Till date more than 6500 updates	
Centre) and complement the	have been made in the ISBEID module	
numeric/statistical databases	since inception	
with analytical reports and		
descriptive databases on the		
website of the Centre.		
9. Completing updating	Exhaustive exercise undergone by the	
ISBEID, notably by resolving	centre to extract data compatible to	
the problem of lack of	ISBEID format from the reports	
conformity between format of data available with State	collected from the secondary sources. All the modules relevant to Sikkim have	
data available with State departments and ISBEID	data now.	
proformas.	Gata now.	
10. Devising a mechanism	Line departments have been sensitized	
for sourcing for ISBEID data	about the ISBEID application and the	
on a continuous basis from	host department has issued letters for	
State Departments concerned	coordination. A workshop cum meeting	
and relevant survey and	of stakeholders and line departments was	
research institutes country-	organized.	
wide.		Daga 17 of 25

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
11. Referencing and indexing of sources data in ISBEID.	Sources of data in ISBEID highlighted.	-
12. Publishing State of Environment (SoE) Reports for the concerned State/UT with a periodicity of two over a five-year period.	Final draft of the SoE Report 2016 has been prepared and the report will be published and released during June 2017 after final consultation workshop with stakeholders.	-
13. Publishing State of Environment (SoE) Reports for metro cities and hotspots.	ENVIS Centre will prepare a proposal for preparation of SoE Report for Gangtok hotspot during 2017-18 and submit to the ministry.	-
Publications and Value-Addition	1	
14. Publishing 4 Newsletters and uploading the same in the relevant section of ENVIS Website.	Quarterly newsletter published and circulated country wide.	
15. Processing/ analyzing data collected and bringing out value-added information Products	Data collected and analysis report is to be incorporated in the upcoming SoE report.	
16. Collecting books, reports and journals on the subject area; Uploading eversions of books, reports, etc. on the ENVIS Website. Uploading <i>Abstracts</i> of books, reports, journals and articles of those whose eversions are not available.	About 200 e-version of the publications relating to status of environment collected from various government sources and published online. ENVIS Sikkim is proudly the official online hosting for all government publications in Sikkim.	
Reaching-out/Networking Activi		
 17. Liaison and coordination with other relevant ENVIS Centres, both State Centres and Thematic Centres, for providing data/ information links in the relevant part of the ENVIS Website (to avoid duplication and conflicts in uploaded information). 18. Build linkages with other 	Duplicity of information in the website is carefully being handled. Centre is referring to data and information available with other centres and hyperlinks have been placed accordingly. This centre coordinated with CPREEC ENVIS for compilation of Sacred Grooves of India. Hyperlinks to other information sources	
information sources in the country and abroad. Providing hyperlinks to the information sources in the relevant part of the ENVIS Website.	have been placed in relevant web contents.	
19. Maintaining a list of Experts in the subject area and uploading the same, along with updated C.V., in the relevant section of ENVIS Website.	List of experts updated in the website	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
20. Coordination with the Ministry for timely dissemination of relevant and adequate information to stakeholders.	Centre is in frequent communication with the ENVIS Secretariat and other divisions in the ministry for upkeep of information and dissemination.	
21. Formulate strategic plans to generate sources of funds from corporate sector and/ or through subscriptions of Newsletters/ other publications	ENVIS center was supported by WIRPO or organizing a training programme for 100 schools and for implementing earthians school programme 2016.	
B. SPECIAL ACTIVITIES		
22. Focus on database development (numeric and descriptive), with due authentication in consultation with Line Departments/ research institutes, etc.	Centre is already in sync with 41 line departments for collection of data and information.	
23. Network and undertake outreach activities with Universities/ Research bodies/ researchers in the State, so that the ENVIS collections/ repositories can be enriched.	Centre is working in several research based activities with expert institutions such as Development Alternatives New Delhi, IFRM-CDF Chennai	
24. Circulate Newsletters and knowledge products to as many stakeholders as possible in the State, especially policy makers/ planners.	Around 1500 copies of quarterly newsletters and other publications have been circulated to ENVIS partners, Sikkim schools, line departments, stakeholders, etc.	
25. Link its Website to other Government Websites; develop the vernacular Website; and undertake other awareness enhancing activities within the State.	Linkages developed with line department websites and other government websites as mandatory activity of the centre.	
26. Maintain a Register for keeping track of queries received and transferred/answered.	A separate log register is kept at the centre to record visitors, queries and feedback.	
27. Build institutional repositories of various types of media related to environmental issues.	Centre has a library that houses more than 2000 reports and publications including DVD and media collection on environment issues. ENVIS centre has collected about 20 international award winning documentary films from CMS VATAVARAN.	
28. Bring out a Brochure on environmental issues to spread awareness about World Environment Day, focusing on forestry/ mining/ Climate Change/ disasters/ etc.	Centre has published several pamphlets, brochures on events and places for quick information for the users. Visitors to the centre are always gifted with such items by the centre.	

13.	New initiatives taken during the Financial Year (2016-17):	 ✓ Prepared a pocket-sized pictorial handbook "Nature's Marvel" on floral diversity of Sikkim. ✓ Developed an Online Research Permit System, an application for enabling research scholars and research institutions for getting permits from Forest Department and submit the reports online. ✓ Centre partnered with 100 new schools in collecting climate change related information through 'SeasonWatch' programme under the support of WIPRO Earthian school programme. ✓ Conducted Green school environment auditing through online media in about 200 schools in partnership with Centre for Science and Environment, New Delhi. Three Sikkim Schools awarded Top 10 Green Schools recently on Feb 2017. ✓ ENVIS Centre formulated Green Credit Accreditation standards for Sikkim State Military Units, PSUs and Noneducational and Non-Industrial units as per the direction of the Sikkim Government. ✓ Played a lead role in coordination amongst ENVIS partners in conducting brainstorming session of ENVIS Centres of Eastern and Northeastern States.
14.	Date of most recent physical verification by the Ministry:	Date: 06/05/2016 by Mr. Abhay Kumar, Deputy Economic Adviser, and Mr. Amit Vashishtha, Deputy Director, MoEF, GoI (during Brain Storming Session for North Eastern ENIVS Centre, Gangtok, Sikkim)

15. Status of existing hardware:

	Hardware item	Specification	Sanction Order with	Date of
			Date	procurement
Procured from	Desktop Computer – 1	HP AIO Intel Core i7, 3.40	Sanction No:	17/02/2014
ENVIS Grant	No	GHz, 1 TB HDD, 8 GB DDR3	11/68/2004 – EI	
2013-14		RAM, DVR Writer, 22"	Dated:27/12/2013	
		display		
	Multifunction printer-	HP AIO (printer, copier,	-do-	-do-
	cum-scanner-cum-	scanner) Color Laser Jet Pro		
	copier - 1 No.	MFP M176n		
	UPS – 1 No	600 VA UPS for desktop	-do-	-do-
		computer		

Hardware Procured from ENVIS grant during 2002-03	Hardware provided by the host department, Forests, Environment & Wildlife Management Department, Government of Sikkim
 Desktop Computer – 2 Nos(P-IV, 1 GB RAM, 80 GB HDD) Printer – 1 No (Laserjet black printer) Scanner – 1 (600 dpi flat bed) 	 Desktop Computer – 1 Nos Printer – 1 Nos Scanner (Flat bed) – 1 Nos All in one printer/ copier/ scanner – 1 No 3 KVA inverter with battery
	6. Telephone (landline 03592-280381)

16. Status of utilization of grant during the financial year 2016-17 as on 31-Mar-2017 and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (Rs.)	Actual Expenditure	Reasons for Shortfall/ Excess (if any)
			(Rs.)	
Recurring	Manpower	9,60,804	9,60,804	-
Annual	Databases, etc.	3,63,000	3,63,000	-
	Travel & Training	50,000	50,000	-
Non-	Preparation of State of	30,97,500	12,50,916	In Progress
Recurring	Environment Report 2016-			_
	Sikkim			

17. Issues/ hurdles faced in undertaking ENVIS activities:

17.1.	Many users have been complaining about user login failures in our system. The password recovered
	after login failure is complicated and difficult to remember. The password reset facility is not
	available for the users. Request sent to NIC several times but action on this remains pending till
	date.
17.2.	Data collection for ISBEID platform is challenging and painstaking due to non-availability of
	readymade data. At most instances, data is retrieved through rigorous and in-depth study of reports
	from secondary sources which is time taking and hinders timely activity.
17.2	The temporary nature of ENVIS incumbent is highly risky in nature. Job insecurity hinders the
	effective implementation of the centre. Annual increments or incentives can boost the morale of the
	hardworking personnel engaged in the centre.

18. Proposed Action Plan of Activities for next three years i.e 2017-18 to 2019-20

- 1. Management Information System (MIS) for Action towards Combating Climate Change *Goal 13 of Sustainable Development Goal (SDG)*
 - Deployment and implementation of e-portal for ease of proposal submission, report submission, online monitoring, query response system; and enrolling with e-taal or e-Gov services of the Government of India to reflect the e-transactions of ENVIS information on the national portal.
 - Implementation and facilitation of Direct Benefit Transfer (DBT) through enrollment with Public Financial Management System (PFMS) for Centrally Sponsored Schemes (CSS) such as ENVIS, NGC, NEAC, R&D projects etc.
 - Environmental Information System (ENVIS) portal to be strengthened with convergence with GIS based ISBEID for dynamic State of Environment reporting.
 - Facilitation of research based studies and other R&D activities through implementation of online research permit system.
 - Facilitating Ease of Doing Business (EoDB) through deployment of online consent management of small industrial units for establishing, operating or renewing trade licenses.
- 2. Extension & Outreach programmes on environmental information sharing, awareness, education and training of youths/ students/ stakeholders/ local people at the ground level (district/ village level).
- 3. Ecological Hotspot study of Gangtok, Sikkim as a Sustainable Tourist Destination with relevance to environment impact assessment on the fragile ecosystem and recommendations.
- 4. Preparation of State of Environment Report 2019-20 for Sikkim State.
- 5. Development of thematic web based and mobile based application for Crisis Management with incorporation of dynamic alert system in events like forest fire, floods, flashfloods, earthquakes, windstorms etc.

19. Proposed Annual Action Plan of Activities for 2017-18

The annual plan of activities of our centre in summative is enumerated below;

- 1. ISBEID data collection and data entry for 2017 year onwards as ongoing activity in all 17 modules.
- 2. Publication State of Environment Report (SoER) 2016: This comprehensive report will serve as a driving tool for policy and decision making of many stakeholders and planners. The report will be released on the occasion of World Environment Day June 5, 2017.
- 3. Monitoring of key 20+ environment related parameters and reflecting in the spatial form (Pakriti maps, grid based spatial content) as per the directives of the ENVIS secretariat.
- 4. Enriching the Subject-wise database with climate change related information on glacial study, and vegetation carbon pool assessment study. Updation of Subject-wise databases modules of the website (www.sikenvis.nic.in) as an ongoing activity.
- 5. Extension and Outreach programmes at district and village level including awareness programmes at SECAS platform, Village Sensitization on the occasion of environment calendar days, cleanliness drives etc.
- 6. Facilitation of online research permits in Sikkim. This application will reduce the paper work and facilitate the research scholars as well as to track their application status.
- 7. Integration of ENVIS Services (query response, website visits) into etaal platform and mapping of ENVIS scheme on the PFMS platform.
- 8. Publication of Quarterly Newsletters, special edition 52 paged PANDA news magazine, and Knowledge products in the form of pocket-sized booklet/ pamphlets/ Short Video Films/ DVDs on Forest Wildlife in Sikkim and Environment Management in Sikkim.
- 9. Integration of Bhuvan/ Bharat Maps/ Google Maps based thematic/ spatial data and information in the existing CMS based website.
- 10. Serve as the nodal in-charge for online updation of data and information on Status of Environment and its related issues pertaining to Sikkim.
- 11. Coordinate National Green Corps (NGC) programmes in Sikkim as a Nodal Resource Agency and collaborate with resource agencies like WIPRO Bangalore, CEE Guwahati and CSE new Delhi in spreading environment and education at the school level.
- 12. Support the host department in environment awareness programmes in the State with resource materials like pamphlets, brochures, handbooks, posters, banners, fyers, signages etc.

20. <u>ANNEX</u>
Status of data entry in ISBEID: (For State/ UT ENVIS Centres): updated on 21-Feb-2017

	Sub-Module		Period for which data updated			
Module		Fields		-level		ct-level
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Annual	Monthly	Annual	Monthly
		Name			√	
		No. of Districts (with name)			V	
		No. of Mandals/ Tahsils/ Taluks (with name)	✓			✓
		No. of Blocks (with name)	✓			✓
		No. of Municipalities (with name)	✓			✓
		No. of Panchayats	✓			✓
		No. of Cities with million plus population (with name)	✓			✓
	1.6	No. of Tribal Settlements				
	1. General	Elevation above mean sea level (Maximum)	✓		✓	✓
		Elevation above mean sea level (Minimum)	✓		✓	✓
		Total geographical area	✓		✓	✓
		GDP of the state (Sector wise)				
		- Primary	2000, 2005- 2012			2000, 2005- 2012
		- Secondary	2000,200 5- 2012			2000,200 5- 2012
_		- Tertiary	2000,200 5- 2012			2000,200 5- 2012
I. Adminis-	2. Socio Economics	No. of BPL household in millions	2006		2006	
trative		% of Household below poverty line	2006		2006	
	3. Climate	Average mean monthly temperature (Max.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Average mean monthly temperature (Min.)		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Total annual Rainfall		1990- 2000, 2004- 2013		1990- 2000, 2006, 2008- 2014
		Relative Humidity				2006 (E)
		Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)	1961- 2011		1991- 2011	
	4.	Total Population	1961- 2011		1991- 2011	
	Demography	Males Population	1961- 2011		1991- 2011	
		Females Population	1961- 2011		1991- 2011	

			Peri	od for whic	ch data upo	lated
Module	Sub-Module	Fields	State	e-level	Distric	t-level
			Annual	Monthly	Annual	Monthly
		Density	1961- 2011		1991- 2011	
		-	1961 -		1981-	
ļ		Area in	2011		2011	
ļ		No. of females/thousand males (sex ratio)	1961- 2011		1991- 2011	
		% of Literacy	1961-		1981-	
<u> </u>		•	2011		2011	
		% of population attending school	2001 2001,			
		Crude Birth Rate (Nos. per 1000 population)	2001,			
		Crude Death Rate (Nos. per 1000 population)	2001, 2011			
		Permanent	2001, 2005, 2011		2001, 2005, 2011	
			2001,		2001,	
ļ	1. Housing	Semi- Permanent	2005,		2005,	
ļ	1. Housing		2011 2001,		2011 2001,	
ļ		Temporary	2001,		2001,	
ļ		- v	2011		2011	
ļ		Average Household Size (Persons per HH)	2005		2005	
II.	2. Medical and	No. of Government Hospitals	1990- 2017		1990- 2017	
Infra- structure	Health Service	No. of Registered private hospitals/ nursing homes	1961 - 2017		1981- 2017	
		No. of Railway Stations				
ļ		Length of Railway Lines				
		Length of National Highways	1998- 2017			
	3. Transport	Length of State Highways	1990- 2017		1990- 2017	
		Length of other roads	1998- 2001			
		No. of Domestic Airports				
		No. of international Airports				
		Coal power generation				
		Installed Capacity				
		Gas Power generation				
ļ		Installed Capacity				
		Oil based power generation				
	1. Non- Renewable	Installed Capacity				
III.Energy	Renewable	Atomic power generation				
		Installed Capacity				
		Power from National Grid	2003- 2015			
		Installed Capacity	2003- 2015			
	2. Renewable	Hydel power generation	1992, 1995,			

			Peri	Period for which data u		
Module	Sub-Module	Fields	State	e-level	Distri	ct-level
			Annual	Monthly	Annual	Monthly
			2000-			
			2012 1992,			
			1992,			
		Installed Capacity	2000-			
			2012			
		Windmill power generation				
		Installed Capacity				
		Solar photovoltaic power generation				
		Installed Capacity				
		Biogas power generation				
		Installed Capacity				
		Other biomass power generation				
		Installed Capacity				
			2008-			
		Industrial and Commercial	2015			
		Agriculture	1990-			
	3. Electricity	rigiteditate	2015 2008-			
	Consumption	Domestic	2008-			
		Othors	1998-			
		Others	2012			
		LPG	2010- 2014			
	4. Energy	Other Petroleum Products				
	Consumption	Coal				
	Consumption	Natural Gas				
		Other				
		Total agricultural area				
			2001-			
		Area under non-agriculture use	2013			
		Barren and uncultivable land	1996-			
			2012 1996-		1996-	
		Permanent pasture / grazing land	2015		2013	
		Net irrigated land	1996-			
	1. Agriculture	14ct IIIIgated Iaild	2013			
IV.	Area		1991, 1996-			
Agri-	Classification	New Sown area	1999,			
culture			2002-			
0010010			2013			
		Plantation crops				
			1991,			
		Fallow	1996, 2005-			
			2012			
		Area under organic farming thereof				
	2. Agriculture		2000-		2004-	
	Production	Total production of crops	2002,		2004-	
	1 Todaction		2004-			

			Peri	od for whic	ch data up	dated
Module	Sub-Module	Fields	State	e-level	Distri	ct-level
			Annual	Monthly	Annual	Monthly
			2015			·
			2000-			
		Yield of Kharif Crops %	2002,		2004-	
		Tield of Rhain Crops //	2004-		2015	
			2015 2000-			
		W: 11 CD 1: C W	2002,		2004-	
		Yield of Rabi Crops %	2004-		2015	
			2015			
		Yield of other crops %				
		Name				
		Production				
		Rice	1990-		1991-	
		Title	2016 1990-		2016 1991-	
			1990-		1991-	
		Sowing Area	2000-		2000-	
			2016		2016	
		Production	1990- 2016		1991- 2016	
					1992,	
		Wheat Sowing Area	1992-		1998-	
			2016		2016	
			1992,		1992,	
			2000- 2016		2000- 2016	
					1992,	
		Production	1992- 2016		1998-	
	3. Crop		2010		2016	
	Production	Pulses	1992-		1992, 1998-	
	(plantation	Tuises	2016		2016	
	crops) (in		1992,		1992,	
	million tons	Sowing Area	2000-		2001-	
	per annum)		2016		2016 1992,	
		Production	1992-		1998-	
			2016		2016	
		Total food grains				
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
		Production				
		Jute &mesta				
		Sowing Area				
		Production		1		
		Sugarcane				
		Sowing Area				
		Production				

			Period for which data updated			dated
Module	Sub-Module	Fields	State	e-level	Distri	ct-level
			Annual	Monthly	Annual	Monthly
		Tobacco				
		Sowing Area				
		Production				
		Oil Seeds	1992-		1992-	
		Oli Seeds	2016		2016	
		Sowing Area	1992-		1992-	
			2016 1992-		2016 1992-	
		Production	2016		2016	
		Cereals	1993-		2004-	
		Cereais	2016		2016	
		Sowing	2000- 2016		2004- 2016	
		_	1993-		2004-	
		Production	2016		2016	
		Others	1996-		1998-	
		Outers	2011		2011	
			1996, 1998,		1996, 1998,	
		Sowing Area	2005-		2005-	
			2011		2011	
			1996,		1996,	
		Production	1998,		1998,	
			2005- 2011		2005- 2011	
		Nitrogen	2011		2011	
	4. Fertilizer	Phosphate				
	Consumption	Potash				
	<u> </u>	Others				
		Insecticides				
		Fungicides				
	5. Pesticide	Weedicides				
	Consumption	Rodenticide		<u> </u>	<u> </u>	
		Fumigants				
		Others				
		Total No. of Large Scale Industries	2012			
		Total No. of Medium Scale Industries	2001, 2004,			
	1. Category of Industry	Total No. of Small scale Industries	2012 2001- 2012			
17	industry	Total No. of Red Category Industries	2012			
V. Industries		Total No. of Orange Category Industries				
		Total No. of Green Category Industries				
		Iron				
	2. Mining &	Copper	1998- 2002			
	Quarrying	Lead	1998- 2002			

Modulo Sub Modulo			Period for which data updated				
Module	Sub-Module	Fields	State-level		Distri	ct-level	
			Annual	Monthly	Annual	Monthly	
		Zinc	1998- 2002				
		Nickel					
		Manganese					
		Bauxite					
		Coal					
		Other (Chromite)					
		Name of the Mineral Resources					
		Name and location of Heritage sites			✓		
VI.		Name and location of Religious places/centres			✓		
Tourism & Heritage	1. Tourism & Heritage	Name and location Archaeological monuments/sites			✓		
пепіаде		Name and location of Scenic Areas			✓		
		Name and location of Tourist Resorts					
		Total Geographical Area	1990-		1990-		
		Total Geographical Area	2017		2017		
		Forest	1996 - 1997, 2005- 2013				
		Non-Agriculture use	1996- 1997, 2001- 2013				
		Barren and uncultivable land	1996 - 2012				
		Permanent pastures and other grazing land	1996- 2013		1996- 2013		
		Miscellaneous tree crops and groves	1996- 2011				
VII. Natural	1. Land Use Classification	Cultivable wasteland	1996- 1997, 2001- 2011				
Resources		Fallow land other than current fallow	1996- 1997, 2001- 2011				
		Current fallow Net area sown	1996- 1997, 2005- 2011				
		Gross cropped area					
		Area sown more than once	2001- 2011				
		Net irrigated area					
		Gross irrigated area				<u> </u>	
		Others	2001- 2002, 2005-				

			Period for which data updated			
Module	Sub-Module	Fields	State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2011			
		B 111 1	2005-		2006-	
		Degraded land area	2016		2016	
		Degraded Irrigated land				
		Area affected by shifting cultivation	2000- 2016		2000- 2016	
	2. Land	Deforestation rate				
	Degradation	Total salt affected land				
		Salinization rate	2000- 2009, 2016		2000- 2009, 2016	
		Area effected by desertification	2010		2010	
		Gullied & or Ravenous Land %	1990- 2016		1990- 2016	
			2000-		2000-	
		Upland with or without Scrub %	2011		2011	
		Water Logged & marshy Land %	1990-		1990-	
		water Logged & marshy Land %	2016		2016	
		land affected by Salinity/Alkalinity Coastal/ Inland %	1990- 2016		1990- 2016	
		Underutilized Degraded Notified Forest Land	2000-		2000-	
		%	2011		2011	
		Shifting Cultivation Area %	1990-		1990-	
			2016		2016	
	3. Waste Land	Degraded Land under Plantation Crops %	1990-		1990-	
		Degraded Land under Frantation Crops //	2016 1990-		2016 1990-	
		Degraded Pastures/Grazing Land %	2016		2016	
		M I 1 1 W 1 1 0/	1990-		1990-	
		Mining Industrial Wastelands %	2016		2016	
		Sands - Deserted Coastal %				
		Steep Slopping Area %	2001-		2001-	
			2004		2004	
		Barren Rocky/Stony Waste/Sheet Rocky	2001-		2000-	
		Area %	2011		2011	
		Snow Covered and/or Glacial Area %	2000- 2011		2000- 2011	
			2000-		2000-	
		Names of wetlands of national importance	2016		2016	
		Names of wetlands of international importance (Ramsar site etc.)				
		Coastal /Estuaries				
			2005-		2005-	
	4. Types of Wetlands	Fresh water Lakes	2005		2005-	
		Tanks/Ponds/Reservoirs/Dams	1997-		1997-	
			2015	1	2015	1
		Marshes (Tidal/Non-Tidal)				
		Swamps				
		Mangroves				
		Flood Plains				

Module			Period for which data updated			
	Sub-Module	Fields	State-level		Distri	ct-level
			Annual	Monthly	Annual	Monthly
		Total Area of Wetland	1997- 2011		1997- 2011	
		Others				
		Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
	5. Soil Types	Laterite Soil				
		Alluvial Soil				
		Mountain Soil	1990- 2017		1990- 2017	
		Mix Red & Black Soil				
		Peaty Soil				
		Dense Forest	1990-		1998-	
			2015 1990-		2015 1988-	
		Open Forests	2015		2015	
	1. Distribution	Mangroves				
	of Forest Cover	Trees outside forests	2010- 2014			
		Numbers				
		Area in				
		Non Forest	1995- 2015		2013- 2015	
		Reserved Forest	1990-		2002-	
	2. Recorded	Reserved Forest	2015 1990-		2015 2002-	
	Forest	Protected Forest	2015		2002-	
		Unclassed Forest	1990- 2001		2002- 2001	
VIII.		Bauxite	2001		2001	
Forest Resource		Chromite				
Resource	3. Mining in	Copper				
	Forests	Iron				
		Manganese				
		Others				
	4. Actual	Dense Forest (Crown density Cover Area above 40%) (in ha)	1990- 2015		1998- 2014	
	Forest Cover by Density	Open Forest (Crown density 10- 40% (in ha)	1990-		1998-	
	Class	-	2015	1	2014	1
	5. Forest Produce	Mangrove (in ha) Timber poles	2002, 2005- 2007, 2010-			
		Fuel wood	2011 1997-			

Module		Fields	Period for which data updated			
	Sub-Module		State-level		Distri	ct-level
			Annual	Monthly	Annual	Monthly
			2001, 2010- 2011			
		Pulp & match Wood	2011			
		Sal seeds				
		Kandu/Bedi leaves				
		Gums & Resins				
		Cane/Rattan & Bamboo				
		Grass /Fodder				
		Drugs/Tannins	1990,			
		Spices	1990, 1995, 1988- 1999			
		Lac				
		Others	2002-			
			2007		2002-	
	6. Joint Forest Management	Name of District			2013	
	Committee	No. of JFMC	1998- 2013		2002- 2013	
		Name of River	1990- 2016			
		Total Length	1990- 2016			
		Catchment Area				
		Seasonality (Perennial/Seasonal)	1990- 2017			
IX.		Canals (Length)				
Water	1. Source of	Reservoirs				
Resource	Water	Tanks, Lakes & Ponds				
		Brackish Water				
		Government Owned Canals				
		Private Canals				
		Tanks				
		Wells				
		Tube Wells				
		Total Replenishable Ground Water Resource	2008- 2010			
		Provision for industrial/ domestic/ other uses	2008- 2011			
X.		Available Ground Water Resource				
Ground Water	1. Status of Ground Water	Net Draft				
Resource	Ground water	Balance Ground Water				
		Level of Ground Water Development (%)				
		Utilization Ground Water Resource for irrigation in Net terms	2008- 2011			

		Fields	Period for which data updated			
Module	Sub-Module		State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Over Exploited	2008- 2011		2008- 2011	
		Critical Area	2008- 2011		2008- 2011	
		Gross Draft Estimated on Pro-rata basis	NA		NA	
		Pre-Monsoon average depth to water level				
	2. Categorization	Post Monsoon average depth to water level				
	of Water Level	No. of Over Exploited Area	2010- 2016		2010- 2016	
	Level	total Ground Water Resource				
		Quantity of ground water for irrigation				
	2 11	Available ground water for irrigation				
	3. Use of Ground Water	Utilizable ground water for irrigation	2008- 2011		2008- 2011	
		Net ground water draft	2008- 2011		2008- 2011	
	1. Ecological Areas	Name of Biogeographical Zones	~			
	25.1	Name of National Parks	2006- 2017			
		Name of Wildlife Sanctuaries	1990- 2016			
		Name of Bird Sanctuaries	2005- 2017			
	2.Ecology Type	Name of Tiger Reserves				
	J.F.	Name of Elephant Reserves				
		Name of Biosphere Reserves	1998- 2017			
		Name of Protected Mangroves area (Private & Public)	2017			
XI.		Name of Botanical Garden				
Ecology	3. Botanical	Area of Botanical Garden	1998- 2017			
	Gardens	Location	1998- 2017			
		Uniqueness				
		Name of Zoological Park	1998- 2017			
	4. Zoological	Area of Zoological Park	1998- 2017			
	Parks	Location				
		Uniqueness				
	5.	Mountain Name	1994- 2017			
	Physiographic al Features	Height (Meter)	1994- 2017			

			Peri	Period for which data updated				
Module	Sub-Module	Fields	State	State-level		District-level		
			Annual	Monthly	Annual	Monthly		
	1 Hygiana	No. of Town covered	2010- 2013					
	1. Hygiene &	No. of Town not covered	2013					
	Sanitation	Total No. of treatment plants	2010-					
		Total No. of treatment plants	2013		2005			
İ		Type of Disease	2005- 2014		2005- 2014			
XII.	2. Air Borne	Name of Disease	2005-		2005-			
Sanitation	Disease		2014 2005-		2014 2005-			
		No. of Deaths	2014		2003-			
		Type of Disease	2005-		2005-			
	3. Water		2014 2005-		2014 2005-			
	Borne	Name of Disease	2014		2014			
	Disease	No. of Deaths	2005-		2005-			
			2014 2001,	2010-	2014 2001,	2010-		
			2006,	2013	2006,	2013		
		River Name	2008,		2008,			
			2010- 2016		2010- 2016			
		Location	2001,	2010-	2001,	2010-		
			2006,	2013	2006,	2013		
			2008, 2010-		2008, 2010-			
			2016		2016			
		BOD						
			2001,	2010-	2001,	2010-		
		COD	2006,	2013	2006,	2013		
		COD	2008, 2010-		2008, 2010-			
	1.		2016		2016			
			2001,	2010-	2001,	2010-		
XIII.		DI.	2006,	2013	2006,	2013		
Water		Ph	2008, 2010-		2008, 2010-			
Pollution			2016		2016			
			2001,	2010-	2001,	2010-		
		T-4-1 C-1'f	2006,	2013	2006,	2013		
		Total Coliform	2008, 2010-		2008, 2010-			
			2016		2016			
			2001,	2010-	2001,	2010-		
			2006,	2013	2006,	2013		
		Conductivity	2008, 2010-		2008, 2010-			
			2016		2016			
		Lake Name	2001		2001			
		Location	2001		2001			
		BOD	2001		2001			
		COD	2001		2001			
		Ph	2001		2001			

Module		Fields	Period for which data updated				
	Sub-Module		State-level		Distri	District-level	
			Annual	Monthly	Annual	Monthly	
		Total Coliform					
		Conductivity					
		SO_2					
		NOx				2010-	
	1.7.1	1,01				2013	
	1. Industrial	Suspended Particulate Matter (SPM)				2010- 2013	
		Respirable Suspended Particulate Matter (RSPM)				2013	
		SO_2				2013	
						2001,	
		NOx				2003-	
						2004 2001,	
XIV.	2. Residential	Suspended Particulate Matter (SPM)				2003-	
Air						2004	
Pollution		Respirable Suspended Particulate Matter				2001, 2003-	
		(RSPM)				2003-	
	3. Vehicular Pollution	No. of Vehicles	1995, 1998- 2001, 2003, 2007, 2009		1995, 1998- 2001, 2003, 2007, 2009	2009- 2012	
		Type of Vehicles	1995, 1998- 2001, 2003, 2007, 2009		1995, 1998- 2001, 2003, 2007, 2009	2009- 2012	
XV.	1. Flora	Total Species (RET)	1990, 2007, 2013- 2014				
Bio- diversity		Redbook species No.					
arversity	2.5	Total Species (RET)	2012				
	2. Fauna	Redbook species No.					
		Hazardous waste (HW) in t/a					
		E-waste thereof in t/a					
XVI.	1. Type of Waste	Biomedical waste (BMW)	2006, 2008- 2009, 2011- 2013		2006		
Waste		Municipal Solid Waste (MSW)	2005, 2011, 2012		2005, 2011		
		Plastic Waste					
		Waste Water					
		Treatment/Disposal (for all 5)					

	Sub-Module	Fields	Peri	Period for which data updated				
Module			State	State-level		District-level		
			Annual	Monthly	Annual	Monthly		
	2. Clean	Type of Industries						
	Technology	Name of technology used						
	3. Effluent	Name of District						
	Treatment Plant/CEPT	No. of Plants						
		Type of Disaster	1990-		1990-			
		Type of Disaster	2016		2016			
		Year	1990-		1990-			
XVII.		1 eai	2016		2016			
Disaster	 Disaster 	ACC	1990-		1990-			
Disastei		Affected districts in nos.	2016		2016			
		Population affected (in millions)						
		Damage in crore INR						

.

Annex-II

Other Activities

Training, Extension and Awareness Activities by ENVIS during 2016-17

1. Brain Storming Session for North Eastern ENVIS Centres at Gangtok



ENVIS Sikkim at Forests, Environment & Wildlife Management Department, Government of Sikkim, Deorali Gangtok hosted the 1st Quarter Brainstorming Session for 15 Eastern and North- Easter ENVIS Centres of India on 6th May 2016 at Sidkeong Tulku Forest Conference Hall, Deorali, Gangtok.

2. Chief Minister's Green School Rolling Trophy and State Green Schools Awards 2016



ENVIS Centre actively played a role of the resource agency in scrutinizing and screening the reports from about 200 schools for the State's most prestigious award scheme, the Chief Minister's Green School Rolling Trophy and State Green Schools Award 2016. ENVIS Centre has been playing the role of nodal agency in implementing this award scheme in the State since its inception in 2011.

The 2016 awards were presented to eight schools during the State level celebration of World Environment Day on 5th June 2016 at Government Sr. Secondary School Mangan, North Sikkim.

	2016	
SN.	SCHOOLS NAME	AWARDS
1.	Sonam Choda Lepcha Memorial, Government	CM Rolling Trophy/ Certificate/
	Sec. School, Lingdong, North Sikkim	Cash prize- Rs. 5.00 lakhs
2.	Government Senior Secondary School,	CM Rolling Trophy/ Certificate/
	Hee Yangthang, West Sikkim	Cash prize- Rs. 5.00 lakhs
3.	Government Secondary School,	Trophy/ Certificate/
	Bongten, West Sikkim	Cash prize- Rs. 1.00 lakhs
4.	Government Girls Sr. Sec. School,	Trophy/ Certificate/
	Gyalshing, West Sikkim	Cash prize- Rs. 1.00 lakhs
5.	Government Secondary School,	Trophy/ Certificate/
	Aho Shanti, East Sikkim	Cash prize- Rs. 1.00 lakhs
6.	Government Junior High School,	Trophy/ Certificate/
	Mangzing, South Sikkim	Cash prize- Rs. 50,000/-
7.	Government Primary School,	Trophy/ Certificate/
	Som Busty, West Sikkim	Cash prize- Rs. 50,000/-
8.	Greenvale Academy,	Trophy/ Certificate/
	Machong, East Sikkim (Pvt.)	Cash prize- Rs. 50,000/-



3. Teacher's Orientation on WIPRO's Earthian Schools Programme 2016

ENVIS Centre, Forest Environment & Wildlife Management Department in collaboration with WIPRO Bengaluru conducted a one day green teacher's training programme for 80 schools of the

State on 20th may 2016 at Sidkeong Tulku Forest Conference Hall, Deorali Gangtok.

4. Swacch Bharat Pakhwada June 15-30 in line with Paryavaran Mahotsav 2016 Celebration



ENVIS Centre played active role in coordinating the 4th successive Paryavaran Mahotsav in Sikkim duly celebrating Swacch Bharat Pakhwada from June 15 to June 30, 2016. This fortnightly event which included the 11th phase State Green Mission and 8th Phase Ten Minutes to Earth programme was carried out throughout the State.

The Centre's role was to spread mass awareness and publicity through online and print media. The centre designed and printed programme banners, posters, signages for signature campaign on green pledge, Go Green stickers for vehicles. ENVIS Center Sikkim in collaboration with Centre for Environment Education (CEE) for the general public, tourist and drivers through schools students on various days with different schools from Gangtok. The main objective of the program was to educate and encouraging people to be responsible towards environment and also bring awareness about different initiative taken by the government in order to preserve our ecosystem. Eco-Clubs schools participated for green walk and street play at Mg Marg. The centre coordinated eco-competitions (debate, seminar, paintings, quiz) at various school eco-clubs and publicized the event report online and print media in the form of newsletter.



5. Pre-proposal NEAC Workshop with Stakeholder 2016-17

ENVIS Centre at Forest, Environment and Wildlife Management Department, Government of Sikkim organized a short orientation programme at Forest Conference Hall for the environmental NGOs to enable them to participate in the National Environment Awareness Campaign 2016-17 with the theme Swachh Bharat Mission. The programme chaired by Mr. Suraj Kumar Thatal, Additional Director of Forests was

attended by 23 NGOs across the State.

6. Green Teacher's Training for 250 schools of Sikkim



ENVIS Centre at Forests, & Wildlife Environment Management Department, Government of Sikkim collaboration with Centre for Science Environment. New organized two- days green teacher's training programme on 29th and 30th September, 2016 at Conference Hall, Gangtok for 200

schools of the State. The training programme is an ongoing effort for strengthening the implementation of the National Green Corps (NGC) School Eco- Club programme being implemented in Sikkim since the year 2000. During the training Dr. Thomas Chandy, Principal Secretary cum PCCF released a short film "MUSKAN" themed on Swachh Bharat Abhiyan prepared by Eco- Club of Government Girls' Sr. Secondary School, West Sikkim.

7. Release of ENVIS Publication 2016-17

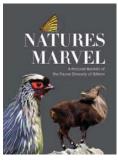


Release of 'PANDA' Newsletter by Hon'ble Chief Minister of Sikkim Shri Pawan Chamling, Hon'ble Minister (Forest) Shri T.W. Lepcha and Principal Secretary cum PCCF Dr. Thomas Chandy during the World Environment Day on June 05, 2016 at Mangan, North Sikkim.



Release of 'Paryavaran Mahotsav 2015'pictorial activity booklet by the Hon'ble Governor, Hon'ble Chief Minister and honorary dignitaries during the Ten Minutes to Earth on the 25th of June, 2016 at Himalayan Zoological Park Bulbulay, Gangtok.





Release of 'Natural Marvel' by Principal Secretary cum PCCF Dr. Thomas Chandy during the Green Teacher's Training programme on 29th of September 2016.

ENVIS SIKKIM PUBLICATION 2016-17



56 paged special edition Newsletter Vol 8



8 paged quarterly newsletter Vol 9, Issue 1



8 paged quarterly newsletter Vol 9, Issue 2



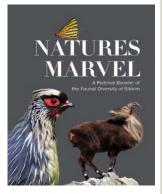
8 paged quarterly newsletter Vol 9, Issue 3



76 paged pictorial activity booklet on Paryavaran Mahotsav 2015



120 paged on Environmental Initiatives of Sikkim Sate government from 1994-2016



84 paged a pictorial Booklet on the Faunal Diversity of Sikkim



16 paged bilingual (English and Nepali) booklet on Environment Initiatives of Sikkim State government from 1995 to 2016

8. Participation at the National Evaluation Workshop of ENVIS Centres at Gujarat on March 17-18, 2017

Sikkim State ENVIS Centre at Forests, Environment & Wildlife Management Department, Government of Sikkim was represented by Shri. B.B. Gurung, Additional Director of Forests cum ENVIS Sikkim Coordinator, Shri. Rajen Pradhan, Sr. Programme Officer and Shri Laxuman Darnal, Information Officer at the National Evaluation Workshop of ENVIS Centres held at Gujarat from 17-18th of March, 2017.





Sikkim ENVIS team displaying its value added products during the exhibition at Mahatma Mandir Convention & Exhibition Centre, Gandhinagar, Gujarat