



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

2015-16

Annual Progress Report



*Awarded as Best State
ENVIS Centre for 2014-15*

*The Hon'ble Minister of State
(Independent Charge) Shri. Prakash
Javadekar handing the certificate to
Sikkim State ENVIS Centre during the
inaugural function of National
Evaluation Workshop on 17th February
2016 at New Delhi.*



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 2015-16

(1st April 2015 – 31st March 2016)

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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ENVIS SIKKIM ANNUAL PROGRESS REPORT 2015-16

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Annual Progress Report 2015-16 on Activities of Sikkim State ENVIS Centre

Government of India
Ministry of Environment & Forests
(EI Division)

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Annual Progress Report 2015-16 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 Related 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):	Shri. 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
<p>Composition of the Advisory Committee:</p> <p>(Select YES or NO: if YES kindly fill the right column space; if NO kindly leave it blank)</p> <p><input type="radio"/> YES</p> <p><input checked="" type="radio"/> NO</p>	<p>1. Dr. Thomas Chandy, IFS Pr. Secretary –cum- PCCF Chairperson</p> <p>2. Shri C.S. Rao, IFS CCF (T/HQ) Member</p> <p>3. Shri J.B. Subba, IFS Director (KNP/KBR) Member</p> <p>4. Dr. Gopal Pradhan Pr. Scientist (SPCB) Member</p> <p>5. Shri. D. T. Bhutia Addl. Director (TT), DST&CC Member</p> <p>6. Shri B.B. Gurung Addl. Director (P/ E&SC)-cum- Programme Coordinator (ENVIS) Member Secretary</p>

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

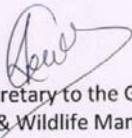
Forest, Environment & Wildlife Management Department





Memo No. 4702-4711...../ADM/FEWMD

Dated: 21/03/2015

Copy to :

- 1) All the officers concerned above
- 2) Principal Secretary to HCM
- 3) Assistant Director, MoEF (EI 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

6. Current ENVIS Staff Structure:								
Name	Position held	Qualification and Experience	Joining Date in ENVIS Centre	Joining Date in current position	2015-16			
					Leaving Date (if applicable)	Emoluments drawn (Rs.)		
						Monthly	Annual	
Mr. Rajen Pradhan 	Sr. Programme Officer	B. Tech (Computer Sc.) with nine years experience in environment information technology	17/04/2006	20/03/2009	-	31,260/-	3,75,120/-	
Mr. Laxuman Darnal 	Information Officer cum Programme Assistant	PG (Diploma) in Computer Sc. with nine years experience in ENVIS	18/08/2006	20/03/2009	-	26,090/-	3,13,080/-	
Ms. Renu Gurung 	IT Assistant	BA Graduate with Diploma in computer applications	16/09/2011	1/04/2013	-	21,028/-	2,52,336/-	
Ms. Tulsha Gurung 	Data Entry Operator <i>(Additional manpower attached to ENVIS by the host department)</i>	CI XII pass with Diploma in computer application	02/12/2013	02/12/2013	-	8,500/-	1,02,000/-	<i>Supported by the host department for 2015-16</i>

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

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

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)
Agriculture	Opportunities and Challenges, Agro-biodiversity of Sikkim Himalaya, Sikkim organic Mission, Soil Health Card Scheme	Descriptive	2015	Food Security and Agriculture Development Department, journals, Govt. publications	Yes
Pollution	Air, water, noise, solid waste	Descriptive	Monthly up to 2014	SPCB	Yes
Biodiversity	Comprehensive database on floral and faunal diversity of Sikkim	Descriptive, geospatial	Book published in 2012, updated up to 2015	Govt publication	Yes
Climate Change in Sikkim	Daily weather data of Gangtok, district wise rainfall, monthly met data, climate synthesis report, Comprehensive study report on in-depth research by several scholars	Descriptive, geospatial	Book published in 2012, data updated up to 2015	Govt publication	Yes
Demography	Analysis on Population study of Sikkim	Descriptive, graphical	2011 Census	Census of India	Yes
Disaster	History of Earthquakes, landslides, forest fires	Descriptive	2015	Disaster Management Department, Newspapers	Yes
Ecotourism	Policy, trek, permits and fees, ecological study, festivals	Descriptive	2015	Forest deptt	Yes
Energy	Electricity and energy consumption	Descriptive	Annual up to 2015	Power and Energy Deptt	Yes
Environment	EIA, EMP, SoE report, carrying capacity study report, ECs, etc.	Descriptive	2015	Forest deptt	Yes
Forest Resources	Forest types, SFRs, JFMCs, EDCs	Descriptive	2015	FSI, State Forest deptt	Yes
Land and Water Resources	Watershed, Wetlands, Wasteland, Rivers, landslide and soil treatment, water quality of river Ratey Chu – Source of Gangtok	Descriptive	2015	SAC, ISRO, Journals, Forest deptt	Yes
Wildlife	PAs, KNP, eco-sensitive and conservation zones, Management Plans, Nomination dossier of KNP for world heritage site, compensation guidelines	Descriptive	2015	Forest deptt	Yes
Soils and Minerals	Geology and Mineral Resources of Sikkim, Mineral reserves in	Descriptive	2015	Mines Minerals and Geology Deptt	Yes

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)
	Sikkim, Soil resources				
Sericulture	Mulberry, muga and eri culture practices in Sikkim	Descriptive	2015	Forest deptt	Yes

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

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

8.3. New Databases developed during the Financial Year (2015-16)**8.3.1. Non-numeric Databases:**

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)
Biodiversity	The Orchid Diversity in Sikkim; Effect of Change of Environment on the Distribution of Native Orchids in Sikkim Himalaya	Descriptive	2015	Govt publication	Yes
	Alien plants found in Sikkim	Descriptive	2015	Forest Deptt	Yes
	Trees, Bushes, Small Grasses, Magnolia, Oaks, Flowering trees, Rhododendrons, Plant genera, endemic plants, medicinal and aromatic plants, Bamboos, Ferns, Mushrooms, Lichens	Descriptive	2015	Govt publication	Yes
	Fishes, Lizards, Snakes, Birds, Butterflies, Bees, Carnivorous animals of KBR, Amphibians, Insects and Beetle diversity	Descriptive	2015	Govt publication	Yes
	Glaciers, Lakes, Alpine area, Tropical area, Sub-tropical area, Rivers and Streams, Mountains and Himalayan ranges	Descriptive	2015	Govt publication	Yes
	Cultivable and barren lands,	Descriptive	2015	Govt publication	Yes
Disaster	Study of Forest Fire in Sikkim Himalaya using RS/ GIS	Descriptive	2015	Forest Deptt	Yes
KNP	Nomination Dossier for Inscription of Khangchendzonga National Park as World Heritage Site, Management Plan	Descriptive, geospatial, graphical	2015	Forest Deptt	Yes
Wildlife	Guidelines for compensation, Eco-Sensitive Zones in Sikkim,	Descriptive, graphical	2015	Govt publication	Yes

8.3.2. Numeric and Time-series Databases:

Name of Database	Description (in brief)	Time Period (Starting year- Ending year) and Periodicity (annual/ monthly/ other)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
Agriculture	Area, Production and Productivity of Rice, Wheat, Maize, Finger Millet, Barley, Buckwheat, Pulses, Oilseeds	2014-15	Food Security & Agriculture Development 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	2009-2013	IMD	Yes
Pollution	Industrial Air Pollution	2014	SPCB	Yes
Energy	Per capita electricity and energy consumption	2008-09 to 2014-15	Energy and Power Dept	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 (2015-16):

Cover snapshot	Quarter/ Volume/ Issue/ Theme Main Articles	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	<p>2015 Special Newsletter edition titled PANDA Vol. 7</p> <p>52 pages bi-lingual special edition highlights scientific research articles, write-ups, observations and notes on flora, fauna, ecotourism, wildlife, climate change and other important environment issues over the year 2014-15 of Sikkim State. The newsletter is a compilation of articles received from foresters, environmentalists, scientists, scholars, students and volunteers.</p>	<p>1500 nos</p> <p><i>Supported by host organization</i></p> <p><i>Released by the Hon'ble Chief Minister of Sikkim on May 15, 2015</i></p>	<p>http://sikenvis.nic.in/WriteReadData/Publication/Panda%20Volume%20No%207.pdf</p>
	<p>1st Qtr (Apr-Jun) Vol. 8, Issue 1</p> <p>Theme - <i>Environment Event Special</i></p> <p>International conference: Conservation of Natural and culture values of Khangchendzonga National Park, Chief Minister's Green School Rolling Trophy and Green Schools state Award 2015, Paryavaran Mahotsav 2015, SEIAA and SEAC Reconstituted in Sikkim, Ban on Firecrackers and Ban on Slash Burning</p>	500 nos	<p>http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%201%20(Apr-Jun).pdf</p>
	<p>2nd Qtr (Jul-Sep) Vol. 8, Issue 2</p> <p>Theme- <i>Biodiversity and Wildlife Special</i></p> <p>Conserving the Arboreal Species- Red Panda Conserving Breeding Program in Sikkim, Inception Workshop for preparation of State of Environment (SoE) Report of Sikkim, Green Teacher's Training for 250 schools of Sikkim, PCRA Painting and Essay Writing Competition.</p>	500 nos	<p>http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%202%20(Jul-Sep).pdf</p>
	<p>3rd Qtr (Oct- Dec) Vol.8, Issue 3</p> <p>Theme – <i>Cleanliness and Hygiene Special</i></p> <p>Gangtok-The cleanest Hill Station of India, Living with Wildlife, Okharel Ecotourism Carnival, India's INDC to UNFCCC, Customized Hands-on Bhuvan Training at Shillong for ENVIS, Science Express-Climate Action Special</p>	500 nos	<p>http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%203%20(Oct-Dec).pdf</p>

9.2. Other publications/ information products brought out during the Financial Year (2015-16):

Cover snapshot	Publication/ Product Theme(s)/ Subject Area(s)	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	Pamphlet – Stop Climate Change, Play your Part This pamphlet was designed, printed and distributed to students and local people to generate awareness on low carbon lifestyles to mitigate rising concerns of global climate change.	500 nos	http://sikenvis.nic.in/WriteReadData/UserFiles/file/PAMPHLET%20Climate%20Change.pdf
	Booklet – Solid Waste Management at Source This 8 paged booklet was designed, printed and distributed to students and local people to generate awareness on solid waste management practices at source.	500 nos	http://sikenvis.nic.in/WriteReadData/UserFiles/file/Solid%20Waste%20Management%20Handouts%20web.pdf
	Activity Book on 'Paryavaran Mahotsav 2014' Sikkim celebrated the 2 nd successive Paryavaran Mahotsav 2014. This 72 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.	1000 nos <i>Printing costs supported by host organization</i> <i>Released by the Hon'ble Governor and the Hon'ble Chief Minister of Sikkim on June 25, 2015</i>	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20Paryavaran%20Mahotsav%202014%20-%20web.pdf
	Environmental Initiatives of Shri Pawan Chamling, Chief Minister of Sikkim (1995 to 2015) This booklet compilation lists all of the environment initiatives, eco-policies and achievements of the Sikkim Government in chronological order from 1995 to 2015	500 nos <i>Released by the Hon'ble Forest Minister of Sikkim on June 4, 2015 during Press Conference at the eve of World Environment Day 2015</i>	http://sikenvis.nic.in/WriteReadData/Publication/Env%20Initiatives%20of%20Shri%20Pawan%20Chamling%20English%202015.pdf

9.3 Information Products published/ released so far:

Publication / Product	Theme(s)/ Subject Area(s)	Year of Publication	URL of the PDF file in ENVIS website
State of Environment Report	On Status of Environment and its Related Issues	2007	http://sikervis.nic.in/WriteReadData/Publication/State%20of%20Environment%20Report%202007%20-%20Sikkim.pdf
Environment Consciousness in Sikkim	Study report to assess the environment consciousness of citizens of Sikkim	2013	http://sikervis.nic.in/WriteReadData/Publication/EC%20Report_CDF_IFMR.pdf
Sacred Grooves of Sikkim	Sacred Grooves	2011	http://sikervis.nic.in/WriteReadData/Publication/Sacred%20Grooves%20of%20Sikkim%202011%20Edition%20FEWMD.pdf
Environmental Initiatives of Sikkim	Environmental Initiatives of the Hon'ble Chief Minister Shri Pawan Chamling	2012	http://sikervis.nic.in/WriteReadData/Publication/CM_Env_initiative%202012.pdf
Biodiversity of Sikkim	Exploring and Conserving a Global Hotspot	2011	http://sikervis.nic.in/PublicationDetails.aspx?SubLinkId=144&LinkId=2662&Year=2014
Climate Change in Sikkim	Patterns, Impacts and Initiatives	2012	http://sikervis.nic.in/PublicationDetails.aspx?SubLinkId=136&LinkId=2662&Year=2014
Biodiversity Conservation	A concept note	2013	http://sikervis.nic.in/WriteReadData/Publication/NEAC-Biodiversity%20Conservation.pdf
Paryavaran Mahotsav 2014	Environment actions	2014	http://sikervis.nic.in/WriteReadData/Publication/Sikkim%20Paryavaran%20Mahotsav%202014%20-%20web.pdf
Forest for Sustainable Livelihood	A concept note	2012	http://sikervis.nic.in/WriteReadData/Publication/Forest%20for%20Sustainable%20Livelihood%20%20NEAC%202012.pdf
Impact of Landslide and Erosion Control Treatment	Impact of Landslide and Erosion Control Treatment for West and South Districts of Sikkim State	2009 and 2010	http://sikervis.nic.in/PublicationDetails.aspx?SubLinkId=141&LinkId=2662&Year=2014
Biodiversity - All Creatures Great and Small	Biodiversity - All Creatures Great and Small	2012	http://sikervis.nic.in/WriteReadData/Publication/DOWNLOAD%20Biodiversity%20-%20All%20Creatures%20Great%20and%20Small.pdf
An Ecological Study of Pastoralism	An Ecological Study of Pastoralism in the Khangchendzonga National Park	2007	http://sikervis.nic.in/WriteReadData/Publication/Download%20Report%20%20An%20Ecological%20Study%20of%20Pastoralism%20in%20the%20KNP.pdf
Study of Ecological,	Study of Ecological, Socio-Economic and	2012	http://sikervis.nic.in/WriteReadData/Publication/Download%

Publication / Product	Theme(s)/ Subject Area(s)	Year of Publication	URL of the PDF file in ENVIS website
Socio-Economic and Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim	Livelihood Dimensions of Grazing exclusion in Protected Forests of West Sikkim		20Study%20Report%20on%20Grazing%20Ban%20in%20West%20Sikkim.pdf
National Green Corps – Sikkim	School Eco-Club Success Stories from Sikkim	2012	http://sikervis.nic.in/WriteReadData/Publication/NGC-SIKKIM-Report%202012-web.pdf
Forest Centenary Pamphlet	Centenary celebrations of Sikkim forest service	2009	http://sikervis.nic.in/WriteReadData/Publication/Forest_Centenary2009.pdf
Sidkeong Tulku Bird Park	Pamphlet on Sidkeong Tulku Bird Park	2012	http://sikervis.nic.in/WriteReadData/Publication/Sidkeong%20Tulku%20Bird%20Park.pdf
PANDA Newsletters Vol. 2 to 7	Annual Newsletter – Special edition	2009 to 2015	http://sikervis.nic.in/WriteReadData/Publication/Panda%20Volume%20No%207.pdf
Scientific Journals Published Online (25 +)	Environment, wildlife, biodiversity, forestry	Since 2007	http://sikervis.nic.in/PublicationComm on.aspx?LinkId=2663
Carrying Capacity Study of Teesta Basin	Online publication in ENVIS SIKKIM Website	2006	http://sikervis.nic.in/Database/Teesta_Basin_2964.aspx
Nomination dossier of Khangchendzonga National Park	Nomination dossier of Khangchendzonga National Park for inscription in the World Heritage site (Online publication)	2014	http://www.knpsikkim.in/publications-2/
Management Plan of Khangchendzonga National Park	Management Plan of Khangchendzonga National Park (2008-2018) (Online publication)	2014	http://sikervis.nic.in/WriteReadData/Publication/KNP-Management%20Plan%20-%20WEB.pdf
Eco-Club Handbook	Guidelines for Eco-Club and Green Schools State Awards	2014	http://sikervis.nic.in/WriteReadData/Publication/NGC%20ECO%20CLUB%20HANDBOOK.pdf
Handbook on Nature based Festivals of Sikkim	Ecotourism	2015	http://sikervis.nic.in/WriteReadData/Publication/Hand%20Book%20of%20Nature%20Based%20Festival%20of%20Sikkim%2005-06-15%20web.pdf

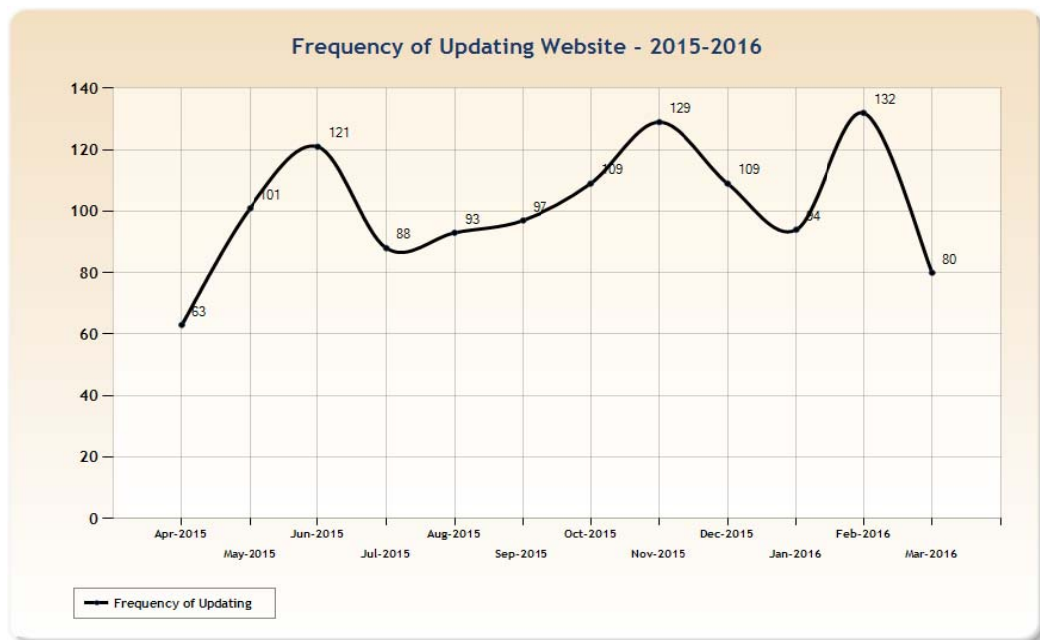
10. ENVIS Website (*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*):

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 2015-16

The monthly average frequency of updation for 2015-16 is **101 updates per month**. Total **1216 updates** have been made during 2015-16.



Months	Publications	Subject Area	Glossary	Bibliography	Major Activity	Kids Centre	Upcoming Events	Latest News	Photo Gallery	Frequency of Updating
Apr-2015	0	11	0	34	0	3	13	2	0	63
May-2015	5	14	0	57	0	0	12	13	0	101
Jun-2015	5	16	0	0	4	0	7	21	65	121
Jul-2015	4	15	0	42	0	1	7	4	15	88
Aug-2015	0	14	0	19	0	0	8	24	28	93
Sep-2015	1	15	0	62	6	3	5	4	0	97
Oct-2015	2	16	0	78	0	2	3	8	0	109
Nov-2015	0	11	0	93	0	2	12	9	0	129
Dec-2015	2	12	0	78	0	1	8	6	0	109
Jan-2016	2	16	0	49	0	1	4	6	13	94
Feb-2016	4	36	0	25	11	2	8	33	13	132
Mar-2016	1	19	0	42	1	3	9	5	0	80
Total	26	195	0	579	22	18	96	135	134	1216

10.4. Subject-specific database updation (numeric/ others): 195 updates have been made during 2015-16 alone in the subject-specific database.

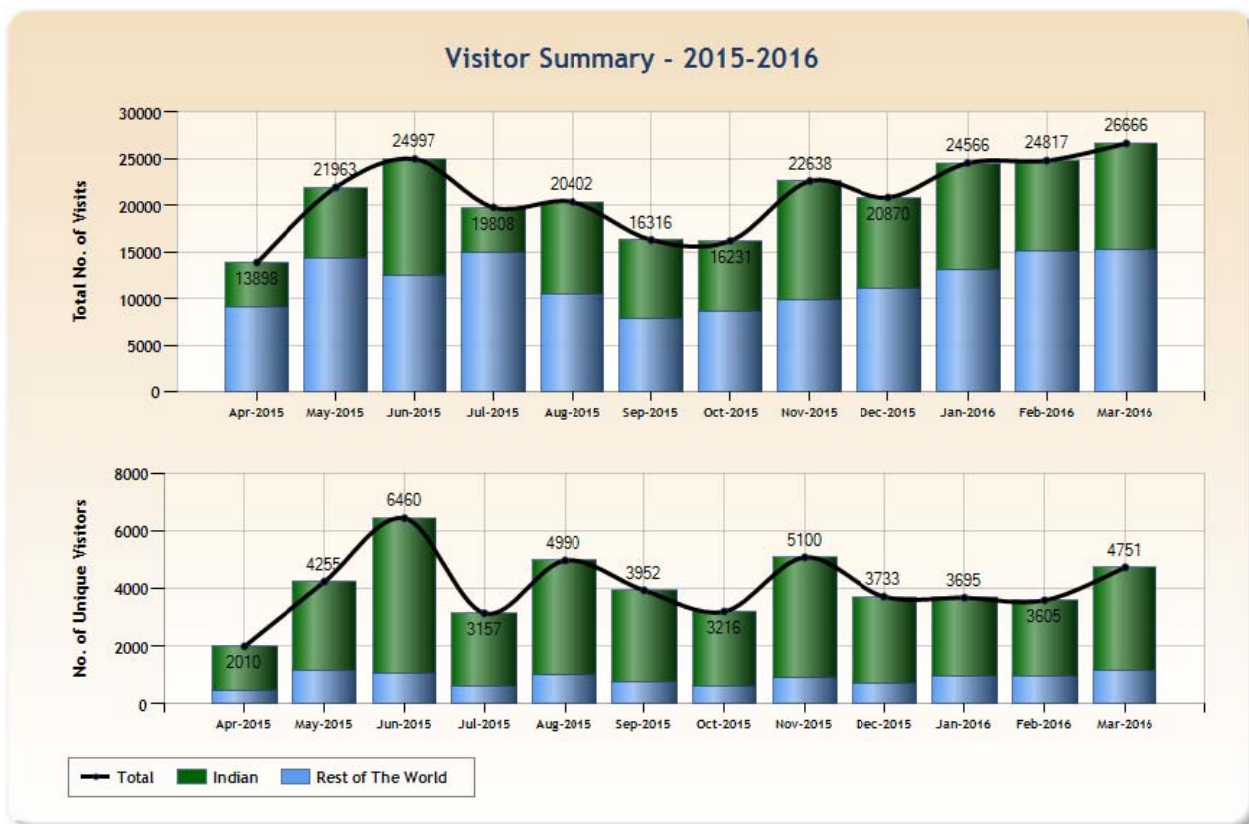
10.5. Publication uploaded/ updated on Website: 26 updates (*including journals, pamphlets, newsletters and book publication*) have been made during 2015-16.

11. User Engagement and Interaction (*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*):

<i>User engagement and interaction</i>	<i>FY 2013-14</i>	<i>FY 2014-15</i>	<i>FY 2015-16</i>
i. Total number of visits	1,14,583	1,78,575	2,52,829
ii. Number of unique visits	9,720	17,527	36,434
iii. Reports Downloaded/Read	847	730	994
iv. Total Number of Queries received*	1175	1200	449
v. Number of Queries responded*	1175	1200	449
vi. Grade received	85 'A'	80 'A'	

* Online queries received/ responded through CMS based web portal (www.sikenvis.nic.in)

11.1 Number of Visits/ Unique Visitors (2015-16):



Statistical report generated by the system shows good number the visitors from the rest of the world. The monthly average website visits/ hits have increased during 2015-16 to more than 20,000 hits with about 3,300 unique visitors per month. It is observed that around 29,000 unique Indian visitors and about 7000 unique foreign visitors have accessed our website during 2015-16.

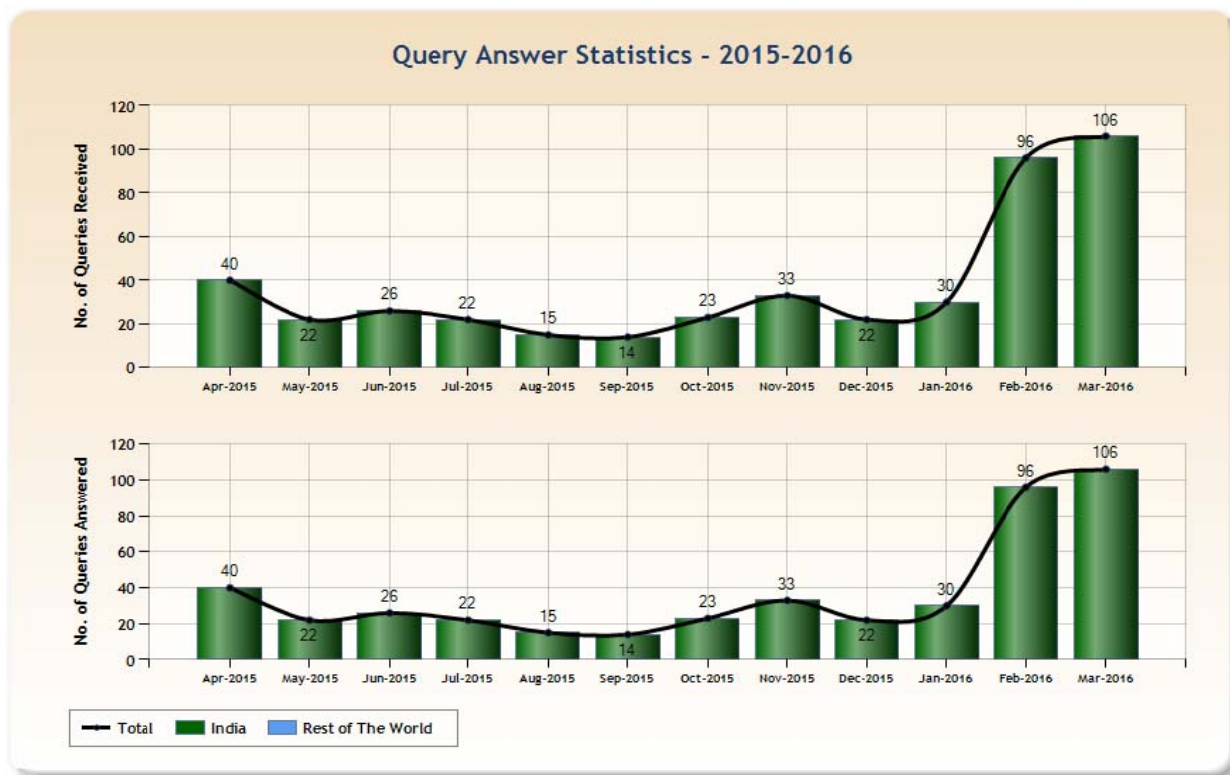
11.2 Number of reports downloaded/ read by stakeholders:

Total 994 downloads have been observed during 2015-16 in which about 49% of the downloadable items have been accessed from the Publications module and about 50% 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 total download figures is expected to be much higher since the report content of the website in other modules such as Kids Centre, Latest News and so on are provided with direct URL of PDF files due to user demand.

Year	Latest News			Major Activity			Kids Centre			Publications			Subject Area			Report Read/Downloaded		
	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Total	India	Rest of the world	Total
01 Apr 2015 - 31 Mar 2016	8	0	8	0	0	0	3	0	3	489	0	490	489	0	489	993	0	994

11.3 Query-Answer Statistics 2015-16:

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
Online (CMS based website)	449	449	-
Email (official NIC server)	253	253	-
Postal (incl. hand post)	217	217	-
Physical	206	206	-
Total	1125	1125	-



12. Implementation of Annual Plan of Activities of the Financial Year (2015-16):

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Centre's proposed activities 2015-16		
1. Database development on State's biodiversity resources (both flora and fauna)	Database development completed and submitted to the State Government for approval	--
2. Spatial database development on natural resource atlas of Sikkim	Topographical and Forest Resource Atlas of Sikkim prepared	--
3. ISBEID data collection and updation for 2015-16 onwards on all 17 modules.	More than 500 nos of updates during 2015-16 have been made.	
4. Publication State of Environment Report (SoER) 2015:	Inception workshop amongst stakeholders and 30 line departments conducted, Data Collection of SoE parameters completed, 1 st draft report prepared and submitted for stakeholders consultation.	<i>This will be the second SoER for Sikkim. First publication by ENVIS was made in 2007-08. The report will be released during the world Environment Day June 5, 2016.</i>
5. Publication of Quarterly Newsletters on regular basis	Three quarterly issues of Sikkim ENVIS newsletter have been published and e-copies have been distributed widely.	--
6. Publication of special edition PANDA newsletter	Special edition annual newsletter 'PANDA' was published and released on 15 th May 2015 by the Chief Minister of Sikkim	
7. Publication of Knowledge based products on "Forest Wildlife in Sikkim" and "Environment Management in Sikkim"	The Data collection is complete and analysis by experts appointed by the State Government is on progress.	--
8. Integration of Bhuvan based thematic/ spatial data and information in the existing CMS based website.	Customized hands-on training by ISRO attended at Shillong. Spatial data (point, polygons, shape files) prepared on wetlands, earthquakes, water quality etc prepared and send to Bhuvan team through ENVIS Secretariat.	Hosting awaited from Bhuvan team, NRSC, ISRO, Hyderabad
9. Serve as the nodal in-charge for online updation of data and information on Status of Environment and its related issues pertaining to Sikkim.	Updation and upkeep of online content in ENVIS website is a regular and ongoing activity.	--

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
10. Coordinate NEAC and NGC programmes in Sikkim as a Nodal Resource Agency	766 School eco-clubs strengthened by provision of environment kits and resource materials. Green Teacher's training to 250 eco-club schools conducted.	
11. Support the host department in environment awareness programmes in the State with resource materials like pamphlets, brochures, handbooks, posters, banners, flyers, signages etc.	Participated in SECAS at New Jalpaiguri railway station for 2 days. Printed and distributed climate change awareness flyers, DVDs, pamphlets etc.	
Suggestions for improvement by Processing Division, MoEF &CC		
A. Regular Activities: Web-based Environmental Information		
Collection and Compilation of Information and Data		
1. Development and regular updation of <i>databases</i> (descriptive, numeric, pictorial, geospatial, etc.) on the assigned subject area and regular uploading of the same in the <i>Subject Area</i> section of the ENVIS Website, after due verification/ authentication, with suitable referencing of data sources.	195 number of updates done in the subject area module of the website during 2015-16. The information content of the subject area is quoted with authentic source.	-
2. Compilation of <i>Abstracts, Bibliography, News articles, Events, etc.</i> on the subject area and uploading the same in the relevant section of ENVIS Website.	579 bibliography, about 50 journals and abstracts uploaded in the website.	-
3. Identification of data gaps and formulation with implementation of action plan to fill them.	Data gaps on authenticity of RET species. Action initiated for support from the experts.	-
Maintenance of ENVIS Website and User Engagement through it		
4. Maintaining the ENVIS Website up-to-date and user-engaging, and as an inventory of authentic and reliable information in the subject area	Centre's website has been kept up to date with frequency of updates averaging to 101 updates per month.	-
5. Query-Response/ Referral service to stakeholders.	About 1200 online, postal, email and in person queries have been handled by the centre during 2015-16.	-
6. Developing and upgrading a Kids' Corner.	Kids corner has been made interactive by uploading quiz section, video gallery and monthly environmental activity highlights and so on	-
7. Maintaining a disaggregated record of visitors, including	Website is designed to automatically record visitor's log and is reflected in the	-

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
unique visitors, to the Website.	performance chart	
Maintenance of ISBEID and Preparation of State of Environment (SoE) Reports		
8. Development of time series ISBEID databases on 17 parameters (except the ones that are irrelevant to the State Centre) and complement the numeric/statistical databases with analytical reports and descriptive databases on the website of the Centre.	Time series data are regularly fed in the ISBEID system. More than 500 number of updates were made during 2015-16 alone. Till date more than 6000 updates have been made in the ISBEID module since inception	
9. Completing updating ISBEID, notably by resolving the problem of lack of conformity between format of data available with State departments and ISBEID proforma.	Exhaustive exercise undergone by the centre to extract data compatible to ISBEID format from the reports collected from the secondary sources. All the modules relevant to Sikkim have data now.	
10. Devising a mechanism for sourcing for ISBEID data on a continuous basis from State Departments concerned and relevant survey and research institutes country-wide.	Line departments have been sensitized about the ISBEID application and the host department has issued letters for coordination.	
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.	Preparation of SoE report for Sikkim has been initiated through the extended support from the Ministry. Work is expected to complete by the end of 2015-16.	-
13. Publishing State of Environment (SoE) Reports for metro cities and hotspots.	-	-
Publications and Value-Addition		
14. Publishing 4 <i>Newsletters</i> 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 e-versions of books, reports, etc. on the ENVIS Website.	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	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Uploading <i>Abstracts</i> of books, reports, journals and articles of those whose e-versions are not available.	government publications in Sikkim.	
Reaching-out/Networking Activities		
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).	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.	
18. Build linkages with other information sources in the country and abroad. Providing hyperlinks to the information sources in the relevant part of the ENVIS Website.	Hyperlinks to other information sources 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	CVs of experts being obtained from the experts.
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 i,e EE 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	Our Centre has successfully engaged with WIPRO's Earthian School Programme and has facilitated training and awareness programme to 50 schools of the State, amongst which one school was adjudged Best Earthian School of the country and was awarded T N Khosoo Earthian Trophy and Rs. 1.0 lakh cash. More avenues are being reviewed by the higher authority of the host department	
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, similar to those of Odisha	Centre is working in several research based activities with expert institutions such as Development Alternatives New Delhi, IFRM-CDF Chennai, CSE New Delhi, CEE Guwahati and Ahmedabad	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
ENVIS, so that the ENVIS collections/ repositories can be enriched, including with their contact details/ CVs, etc.	and other ENVIS Network of the country.	
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 2500 reports and publications including DVD and media collection on environment issues. Our centre has collected about 20 international award winning documentary films from CMS VATAVARAN, New Delhi.	
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 (2015-16):	<ul style="list-style-type: none"> ✓ Completed the comprehensive compilation of Species List of Sikkim and submitted to the Government for approval. ✓ Started up with the preparation of SoE Report 2015, the second for the State. First SoER was published by ENVIS during 2007. ✓ Centre has provided information to other ENVIS partners and other institutions to develop National level reports on Sacred Grooves, Medicinal Plants, and formulating ecotourism policies and so on. ✓ Organized the first ever Environment & Wildlife Film Festival and Forum in Sikkim in collaboration with CMS VATAVARAN. ✓ Sustainability environment initiative through sponsorship from WIPRO initiated and program reached to 50 schools of the state. ✓ Extended the programme outreach and set up ENVIS exhibit at New Jalpaiguri railway platform during SECAS visit on December 30-31, 2015
14.	Date of most recent physical verification by the Ministry:	<p>Date: 12/11/2013 by Ms. Vandana Aggarwal, Economic Adviser, MoEF, GoI</p> <p>Date: 27/03/2014 by Mr. Kumar Rajnish and Mr. Ravi Goswami, ENVIS Secretariat, MoEF</p>

15. Status of existing hardware:

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

Hardware Procured from ENVIS grant during 2002-03	Hardware provided by the host department, Forests, Environment & Wildlife Management Department, Government of Sikkim
1. Desktop Computer – 2 Nos(P-IV, 1 GB RAM, 80 GB HDD) 2. Printer - 1 No (Laserjet black printer) 3. Scanner – 1 (600 dpi flat bed)	1. Desktop Computer – 1 Nos 2. Printer – 1 Nos 3. Scanner (Flat bed) – 1 Nos 4. All in one printer/ copier/ scanner – 1 No 5. 3 KVA inverter with battery 6. Telephone (landline 03592-280381)

16. Status of utilization of grant during the financial year 2015-16 as on 15-Mar-2016 and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (Rs.)	Actual Expenditure (Rs.)	Reasons for Shortfall/ Excess (if any)
Recurring (Annual)	Manpower	9,40,536	9,40,536	-
	Databases, etc.	3,79,500	3,79,500	-
	Travel & Training	34,500	34,500	-
	Total	13,54,536	13,54,536	
Non-Recurring (SoER)	Preparation of State of Environment Report 2015-Sikkim	30,97,500	11,11,223	In Progress

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 Annual Plan of Activities for the next financial year 2016-17

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

1. ISBEID: Addressing the data gap on modules (Biodiversity, Air Pollution, Waste); data collection and updation for 2015-16 onwards on 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.*
3. Searchable database application development on list of floral and faunal species of Sikkim.
4. Enriching the Subject-wise database with climate change related information on glacial study, and vegetation carbon pool assessment study.
5. Updation of Subject-wise databases modules of the website (www.sikenvis.nic.in).
6. 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.
7. Publication of Quarterly Newsletters on regular basis.
8. Publication of special edition PANDA newsletter.
9. Publication of Knowledge based products on Forest Wildlife in Sikkim and Environment Management in Sikkim.
10. Integration of Bhuvan/ Bharat Maps/ Google Maps based thematic/ spatial data and information in the existing CMS based website.
11. Serve as the nodal in-charge for online updation of data and information on Status of Environment and its related issues pertaining to Sikkim.
12. 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.
13. Support the host department in environment awareness programmes in the State with resource materials like pamphlets, brochures, handbooks, posters, banners, flyers, signages etc.
14. To play the role of Lead ENVIS Centre of Eastern and North-Eastern Region for facilitating quarterly brainstorming sessions and Regional evaluation workshop during 2016-17 and to provide one point access to ENVIS Secretariat on regional issues and developments.

Annex**Status of data entry in ISBEID: (For State/ UT ENVIS Centres): As on 31-Mar-2016**

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
I. Adminis- trative	1. General	Name				
		No. of Districts (with name)			✓	
		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)	✓			
		No. of Tribal Settlements				
		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			
		- Secondary	2000,200 5- 2012			
	- Tertiary	2000,200 5- 2012				
	2. Socio Economics	No. of BPL household in millions	2006		2006	
		% 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)
	4. Demography	Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)				
		Total Population	1961- 2011		1991- 2011	
		Males Population	1961- 2011		1991- 2011	

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Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Females Population	1961-2011		1991-2011	
		Density	1961-2011		1991-2011	
		Area in	1961 - 2011		1981-2011	
		No. of females/thousand males (sex ratio)	1961-2011		1991-2011	
		% of Literacy	1961-2011		1981-2011	
		% of population attending school	2001			
		Crude Birth Rate (Nos. per 1000 population)	2001, 2011			
		Crude Death Rate (Nos. per 1000 population)	2001, 2011			
II. Infra-structure	1. Housing	Permanent	2001, 2005, 2011		2001, 2005, 2011	
		Semi- Permanent	2001, 2005, 2011		2001, 2005, 2011	
		Temporary	2001, 2005, 2011		2001, 2005, 2011	
		Average Household Size (Persons per HH)	2005		2005	
	2. Medical and Health Service	No. of Government Hospitals	1990-2015		1990-2015	
		No. of Registered private hospitals/ nursing homes	1995-2015		1995-2015	
	3. Transport	No. of Railway Stations				
		Length of Railway Lines				
		Length of National Highways	1998-2015			
		Length of State Highways	1990-2015		1990-2015	
		Length of other roads	1998-2001			
		No. of Domestic Airports				
		No. of international Airports				
III. Energy	1. Non-Renewable	Coal power generation				
		Installed Capacity				
		Gas Power generation				
		Installed Capacity				
		Oil based power generation				
		Installed Capacity				
		Atomic power generation				
		Installed Capacity				
		Power from National Grid	2003-2013			
		Installed Capacity	2003-			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
			2013			
	2. Renewable	Hydel power generation	1992, 1995, 2000- 2012			
		Installed Capacity	1992, 1995, 2000- 2012			
		Windmill power generation				
		Installed Capacity				
		Solar photovoltaic power generation				
		Installed Capacity				
		Biogas power generation				
		Installed Capacity				
		Other biomass power generation				
		Installed Capacity				
	3. Electricity Consumption	Industrial and Commercial	2008- 2014			
		Agriculture	1990- 2014			
		Domestic	2008- 2014			
		Others	1998- 2012			
	4. Energy Consumption	LPG	2010- 2013			
		Other Petroleum Products				
		Coal				
		Natural Gas				
		Other				
IV. Agriculture	1. Agriculture Area Classification	Total agricultural area				
		Area under non-agriculture use	2001- 2013			
		Barren and uncultivable land	1996- 2012			
		Permanent pasture / grazing land	1996- 2014		1996- 2013	
		Net irrigated land	1996- 2013			
		New Sown area	1991, 1996- 1999, 2002- 2013			
		Plantation crops				
		Fallow	1991, 1996, 2005- 2012			
		Area under organic farming thereof				

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Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	2. Agriculture Production	Total production of crops	2000-2002, 2004-2014		2004-2014	
		Yield of Kharif Crops %	2000-2002, 2004-2014		2004-2014	
		Yield of Rabi Crops %	2000-2002, 2004-2014		2004-2014	
		Yield of other crops %				
	3. Crop Production (plantation crops) (in million tons per annum)	Name				
		Production				
		Rice	1990-2014		1991-2014	
		Sowing Area	1990-1997, 2000-2014		1991-1998, 2000-2014	
		Production	1990-2014		1991-2014	
		Wheat	1992-2014		1992, 1998-2014	
		Sowing Area	1992, 2000-2014		1992, 2000-2014	
		Production	1992-2014		1992, 1998-2014	
		Pulses	1992-2014		1992, 1998-2014	
		Sowing Area	1992, 2000-2014		1992, 2001-2014	
		Production	1992-2014		1992, 1998-2014	
		Total food grains				
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
		Production				
		Jute & mesta				
		Sowing Area				
Production						
Sugarcane						
Sowing Area						

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Production				
		Tobacco				
		Sowing Area				
		Production				
		Oil Seeds	1992-2014		1992-2014	
		Sowing Area	1992-2014		1992-2014	
		Production	1992-2014		1992-2014	
		Cereals	1993-2014		2004-2014	
		Sowing	2000-2014		2004-2014	
		Production	1993-2014		2004-2014	
		Others	1996-2011		1998-2011	
		Sowing Area	1996, 1998, 2005-2011		1996, 1998, 2005-2011	
		Production	1996, 1998, 2005-2011		1996, 1998, 2005-2011	
	4. Fertilizer Consumption	Nitrogen				
		Phosphate				
		Potash				
		Others				
	5. Pesticide Consumption	Insecticides				
		Fungicides				
		Weedicides				
		Rodenticide				
		Fumigants				
		Others				
V. Industries	1. Category of Industry	Total No. of Large Scale Industries	2012			
		Total No. of Medium Scale Industries	2001, 2004, 2012			
		Total No. of Small scale Industries	2001-2012			
		Total No. of Red Category Industries				
		Total No. of Orange Category Industries				
		Total No. of Green Category Industries				
	2. Mining & Quarrying	Iron				
		Copper	1998-2002			
		Lead	1998-2002			

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Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
		Zinc	1998-2002				
		Nickel					
		Manganese					
		Bauxite					
		Coal					
		Other (Chromite)					
		Name of the Mineral Resources					
VI. Tourism & Heritage	1. Tourism & Heritage	Name and location of Heritage sites			✓		
		Name and location of Religious places/centres			✓		
		Name and location Archaeological monuments/sites			✓		
		Name and location of Scenic Areas			✓		
		Name and location of Tourist Resorts					
VII. Natural Resources	1. Land Use Classification	Total Geographical Area	1990-2015		1990-2015		
		Forest	1996 - 1997, 2005-2013				
		Non-Agriculture use	1996-1997, 2001-2013				
		Barren and uncultivable land	1996 - 2012				
		Permanent pastures and other grazing land	1996-2014		1996-2013		
		Miscellaneous tree crops and groves	1996-2011				
		Cultivable wasteland	1996-1997, 2001-2011				
		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					
		Others	2001-2002, 2005-2011				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	2. Land Degradation	Degraded land area	2005-2012		2006-2012	
		Degraded Irrigated land				
		Area affected by shifting cultivation	2000-2009, 2015		2000-2009, 2015	
		Deforestation rate				
		Total salt affected land				
		Salinization rate	2000-2009, 2012		2000-2009, 2012	
		Area effected by desertification				
	3. Waste Land	Gullied & or Ravenous Land %	1990-2015		1990-2015	
		Upland with or without Scrub %	2000-2011		2000-2011	
		Water Logged & marshy Land %	1990-2015		1990-2015	
		land affected by Salinity/Alkalinity Coastal/ Inland %	1990-2015		1990-2015	
		Underutilized Degraded Notified Forest Land %	2000-2011		2000-2011	
		Shifting Cultivation Area %	1990-2015		1990-2015	
		Degraded Land under Plantation Crops %	1990-2015		1990-2015	
		Degraded Pastures/Grazing Land %	1990-2015		1990-2015	
		Mining Industrial Wastelands %	1990-2015		1990-2015	
		Sands - Deserted Coastal %				
		Steep Slopping Area %	2001-2004		2001-2004	
		Barren Rocky/Stony Waste/Sheet Rocky Area %	2001-2011		2000-2011	
		Snow Covered and/or Glacial Area %	2000-2011		2000-2011	
	4. Types of Wetlands	Names of wetlands of national importance	2000-2015		2000-2015	
		Names of wetlands of international importance (Ramsar site etc.)				
		Coastal /Estuaries				
		Fresh water Lakes	2005-2015		2005-2015	
		Tanks/Ponds/Reservoirs/Dams	1997-2015		1997-2015	
		Marshes (Tidal/Non-Tidal)				
		Swamps				
	Mangroves					

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Flood Plains				
		Total Area of Wetland	1997-2015		1997-2015	
		Others				
	5. Soil Types	Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
		Laterite Soil				
		Alluvial Soil				
		Mountain Soil	1990-2015		1990-2015	
		Mix Red & Black Soil				
		Peaty Soil				
VIII. Forest Resource	1. Distribution of Forest Cover	Dense Forest	1990-2013		1998-2012	
		Open Forests	1990-2013		1988-2013	
		Mangroves				
		Trees outside forests	2010-2012			
		Numbers				
		Area in				
		Non Forest	1995-2013		2013	
	2. Recorded Forest	Reserved Forest	1990-2013		2002-2013	
		Protected Forest	1990-2013		2002-2013	
		Unclassed Forest	1990-2001		2002-2001	
	3. Mining in Forests	Bauxite				
		Chromite				
		Copper				
		Iron				
		Manganese				
		Others				
	4. Actual Forest Cover by Density Class	Dense Forest (Crown density Cover Area above 40%) (in ha)	1990-2013		1998-2013	
		Open Forest (Crown density 10- 40% (in ha)	1990-2013		1998-2013	
		Mangrove (in ha)				
	5. Forest Produce	Timber poles	2002, 2005- 2007, 2010- 2011			

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Fuel wood	1997-2001, 2010-2011			
		Pulp & match Wood				
		Sal seeds				
		Kandu/Bedi leaves				
		Gums & Resins				
		Cane/Rattan & Bamboo				
		Grass /Fodder				
		Drugs/Tannins				
		Spices	1990, 1995, 1988-1999			
		Lac				
	Others	2002-2007				
	6. Joint Forest Management Committee	Name of District			2002-2013	
		No. of JFMC	1998-2013		2002-2013	
IX. Water Resource	1. Source of Water	Name of River	1990-2014			
		Total Length	1990-2014			
		Catchment Area				
		Seasonality (Perennial/Seasonal)	1990-2015			
		Canals (Length)				
		Reservoirs				
		Tanks, Lakes & Ponds				
		Brackish Water				
		Government Owned Canals				
		Private Canals				
		Tanks				
		Wells				
		Tube Wells				
X. Ground Water Resource	1. Status of Ground Water	Total Replenishable Ground Water Resource	2008-2010			
		Provision for industrial/ domestic/ other uses	2008-2011			
		Available Ground Water Resource				
		Net Draft				
		Balance Ground Water				
		Level of Ground Water Development (%)				
		Utilization Ground Water Resource for irrigation in Net terms	2008-2011			

Module	Sub-Module	Fields	Period for which data updated				
			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		
	2. Categorization of Water Level	Pre-Monsoon average depth to water level					
		Post Monsoon average depth to water level					
		No. of Over Exploited Area	2010-2014		2010-2014		
		total Ground Water Resource					
	3. Use of Ground Water	Quantity of ground water for irrigation					
		Available ground water for irrigation					
		Utilizable ground water for irrigation	2008-2011		2008-2011		
		Net ground water draft	2008-2011		2008-2011		
	XI. Ecology	1. Ecological Areas	Name of Biogeographical Zones	✓			
		2. Ecology Type	Name of National Parks	2006-2015			
Name of Wildlife Sanctuaries			1990-2015				
Name of Bird Sanctuaries			2005-2015				
Name of Tiger Reserves							
Name of Elephant Reserves							
Name of Biosphere Reserves			1998-2015				
Name of Protected Mangroves area (Private & Public)							
3. Botanical Gardens		Name of Botanical Garden					
		Area of Botanical Garden	1998-2015				
		Location	1998-2015				
		Uniqueness					
4. Zoological Parks		Name of Zoological Park	1998-2015				
		Area of Zoological Park	1998-2015				
		Location					
		Uniqueness					
5. Physiographic Features		Mountain Name	1994-2015				
		Height (Meter)	1994-2015				

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Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
XII. Sanitation	1. Hygiene & Sanitation	No. of Town covered	2010-2013			
		No. of Town not covered				
		Total No. of treatment plants	2010-2013			
	2. Air Borne Disease	Type of Disease	2005-2014		2005-2014	
		Name of Disease	2005-2014		2005-2014	
		No. of Deaths	2005-2014		2005-2014	
	3. Water Borne Disease	Type of Disease	2005-2014		2005-2014	
		Name of Disease	2005-2014		2005-2014	
		No. of Deaths	2005-2014		2005-2014	
XIII. Water Pollution	1.	River Name				
		Location	2001, 2006, 2008, 2010-2014	2010-2013	2001, 2006, 2008, 2010-2014	2010-2013
		BOD	2001, 2006, 2008, 2010-2011	2010-2013	2001, 2006, 2008, 2010-2011	2010-2013
		COD				
		Ph	2001, 2006, 2008, 2010-2014	2010-2013	2001, 2006, 2008, 2010-2014	2010-2013
		Total Coliform	2001, 2006, 2008, 2010-2011	2010-2013	2001, 2006, 2008, 2010-2011	2010-2013
		Conductivity	2001, 2006, 2008, 2010-2011	2010-2013	2001, 2006, 2008, 2010-2011	2010-2013
		Lake Name	2001		2001	
		Location	2001		2001	
		BOD	2001		2001	
		COD	2001		2001	
		Ph	2001		2001	
		Total Coliform				
Conductivity						
XIV. Air	1. Industrial	SO ₂				2010-2013

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
Pollution		NO _x				2010-2013
		Suspended Particulate Matter (SPM)				2013
		Respirable Suspended Particulate Matter (RSPM)				2013
	2. Residential	SO ₂				2001, 2003-2004
		NO _x				2001, 2003-2004
		Suspended Particulate Matter (SPM)				2001, 2003-2004
		Respirable Suspended Particulate Matter (RSPM)				
	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. Bio-diversity	1. Flora	Total Species (RET)	1990, 2007, 2013-2014		
Redbook species No.						
2. Fauna		Total Species (RET)				
		Redbook species No.				
XVI. Waste	1. Type of Waste	Hazardous waste (HW) in t/a				
		E-waste thereof in t/a				
		Biomedical waste (BMW)	2006, 2008-2009, 2011-2013		2006	
		Municipal Solid Waste (MSW)	2005, 2011, 2012		2005, 2011	
		Plastic Waste				
		Waste Water				
		Treatment/Disposal (for all 5)				
	2. Clean Technology	Type of Industries				
		Name of technology used				
	3. Effluent Treatment Plant/CEPT	Name of District				
		No. of Plants				

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Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
XVII. Disaster	1. Disaster	Type of Disaster	1990-2014		1990-2014	
		Year	1990-2014		1990-2014	
		Affected districts in nos.	1990-2014		1990-2014	
		Population affected (in millions)				
		Damage in crore INR				

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Annex - II

Other Activities

**Training, Extension
and Awareness
Activities by ENVIS
during 2015-16**

1. International Conference on Conservation of Natural and Cultural Values of Khangchendzonga National Park



ENVIS Centre headed the technical committee in organizing this international conference at Gangtok on 15-16 May 2015. ENVIS Sikkim provided full technical support in launching the web portals of Sikkim Ecotourism Directorate and State Biodiversity Board; creation of digital compendium of power point presentation of various delegates; media and IT support to the host organisation.

2. Chief Minister’s Green School Rolling Trophy and State Green Schools Award 2015



ENVIS Centre actively played a role of the resource agency in scrutinizing and screening the reports from about 180 schools for the State’s most prestigious award scheme, the Chief Minister’s Green School Rolling Trophy and State Green Schools Award 2015. ENVIS Centre has been playing the role of nodal agency in implementing this award scheme in the State since its inception in 2011.

The 2015 awards were presented to eight schools during the State level celebration of World Environment Day on 5th June 2015 at Sir Tashi Namgyal Government Sr. Secondary School, Gangtok, East Sikkim.

2015 State Awardees		
SN.	SCHOOLS NAME	AWARDS
1.	Sonamati Memorial, Government Sr. Sec. School, Khamdong, East Sikkim	CM Rolling Trophy/ Certificate/ Cash prize – Rs. 5.00 lakhs
2.	Government Senior Secondary School, Hee- Yangthang, West Sikkim	Trophy/ Certificate/ Cash prize- Rs. 1.00 lakhs
3.	Government Secondary School, Singhik, North Sikkim	Trophy/ Certificate/ Cash prize- Rs. 1.00 lakhs
4.	Government Secondary School, South Regu, East Sikkim	Trophy/ Certificate/ Cash prize- Rs. 1.00 lakhs
5.	Government Sr. Sec. School, Yangyang, South Sikkim	Trophy/ Certificate/ Cash prize- Rs. 1.00 lakhs
6.	Government Junior High School, Rabitar, South Sikkim	Trophy/ Certificate/ Cash prize- Rs. 50,000/-
7.	Government Primary School, Titribotey, East Sikkim	Trophy/ Certificate/ Cash prize- Rs. 50,000/-

3. Paryavaran Mahotsav 2015 Celebration



ENVIS Centre played active role in coordinating the 3rd successive Paryavaran Mahotsav in Sikkim from June 15 to June 30, 2015. This fortnightly event which included the 10th Phase State Green Mission and 7th Phase Ten Minutes to Earth programme was carried out throughout the State through active participation of local populace from all walks of life.

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 pledges, Greenathon stickers for green run and walk, certificates, Go Green stickers for vehicles. 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.

4. E-Launching of EC portal for Category B projects



ENVIS Centre facilitated the Sikkim State level Environment Impact Assessment Authority (SEIAA) and State level Expert Appraisal Committee (SEAC) in e-launching of environment clearance portal through video conferencing at State NIC unit on July 2, 2015. ENVIS is also playing the role of nodal agency to provide IT support to State's SEIAA and SEAC for implementing the online EC process.

5. Inception Workshop for Preparation of State of Environment (SoE) Report for Sikkim



ENVIS Centre at Forest, Environment and Wildlife Management Department, Government of Sikkim in collaboration with the Development Alternatives, New Delhi organized a one day inception workshop for preparation of State of Environment (SoE) Report for Sikkim on the 24th of July 2015 at Forest

Conference Hall, Deorali, Gangtok. The workshop was inaugurated by the Hon'ble Minister for Forest, Environment & Wildlife, Mines, Minerals & Geology, Science & Technology and Climate Change Departments Shri Tshering Wangdi Lepcha. Participated by officer representatives from different government departments, institutions and NGOs throughout the State, the workshop was also participated by senior officers Shri M. P. Johnson, Statistical Adviser and Dr. M. Salahuddin, Director from the Ministry of Environment, Forests & Climate Change, Government of India.

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



ENVIS Centre at Forests, Environment & Wildlife Management Department, Government of Sikkim organized a Three Days Green Teacher's Training programme for 250 schools on 20th – 22nd of August 2015 at Forest Conference Hall, Gangtok as an ongoing effort towards strengthening the National Green Corps (NGC) programme being implemented in Sikkim.

7. PCRA Painting and Essay writing Competition



ENVIS Centre Sikkim coordinated with as many as 50 schools of the State to participate in the National level Painting and Essay competition for students from Class VI to IX during August –September 2015 on invitation from the Petroleum Conservation Research Association (PCRA) under the Ministry of Petroleum and Natural Gas, Government of India.

8. Customized Hands-on Bhuvan Training for ENVIS Centres at Shillong



East Space Application Centre (NESAC), Shillong, Meghalaya on 19th -20th November 2015.

ENVIS Sikkim participated in the 2-day customized hands-on training programme on bhuvan portal held at North

9. ENVIS Sikkim activities during SECAS visit at New Jalpaiguri (NJP) Railway Station on 30-31 December, 2015







Picture: Sikkim State ENVIS team with Ms Megha Thapa (first from left) from CEE Gangtok

Sikkim State ENVIS Centre *On Status of Environment and its Related Issues* hosted by Forests, Environment & Wildlife Management Department, Government of Sikkim, Gangtok actively conducted various pre-event and platform based awareness build up activities on environment related issues during the visit to Science Express – Climate Action Special (SECAS) at New Jalpaiguri (NJP) railway station on 30-31

December 2015.

In order to spread awareness amongst the local people and educate the school children on issues of climate change, ENVIS Sikkim conducted the following pre-event activities;

SN	Snapshot of Cover	Pre-Event Activity
1.		Prepared and distributed pamphlet on climate change with the title 'Stop Climate Change, Play your Part' No. of copies printed: 500 nos Target: Local people, students
2.		Prepared and distributed pamphlet 'Solid Waste Management at Source' No. of copies printed: 500 nos Target: Local people, students
3.		Prepared and distributed DVD 'Understanding our Environment' No. of copies: 100 nos Target: Local people, students
4.		Conducted awareness programme at Chujachen Sr. Secondary School on 'Low Carbon Lifestyle'

Sikkim State ENVIS team travelled down 120 kms from Gangtok to reach the nearest railway station New Jalpaiguri (NJP) to take the opportunity to highlight ENVIS activities during SECAS visit on 30-31 Dec, 2015.

Platform activities included;

1. Awareness on Low Carbon Lifestyle
2. Signature Campaign on environment pledge. Around 1200 signatures obtained.
3. Exhibition and distribution of ENVIS information products: Quarterly newsletters, PANDA newsletter, Pamphlets on Climate Change (Stop Climate Change, Play Your Part), Pamphlet on Solid Waste Management practices, Booklet on Environmental Initiatives of Sikkim, DVDs (Understanding our Environment) containing five award winning documentary films.
4. In-person quiz and return gift on correct answer for Kids/ students
5. Interactions/ talking to people/ taking their views/ suggestions
6. Facilitating visitors specially Sikkim School Students and Teachers

From about 15000 visitors in two days, approximately 80% visited our exhibition stall as we were positioned at the entrance. Despite being out of printed materials on the second day, visitors were keen to take note of our website to learn more about Sikkim's environmental initiatives and its status.

On interacting with the visitors about 95% agreed that our environment is at great concern and we should act on it. They even signed on the environment pledge. Rest 5% believed that our mother nature can revive by itself and we human can hardly do anything but face the consequences.

PHOTOGRAPHS ON PLATFORM BASED ACTIVITIES



ACKNOWLEDGEMENT

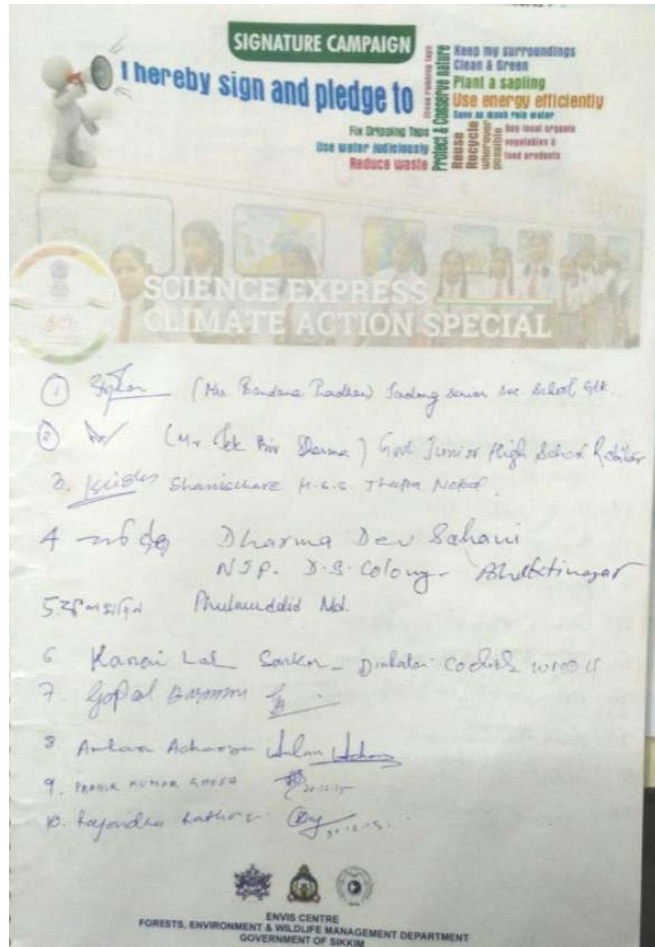
ENVIS Sikkim thankfully acknowledges the immense support and encouragement of Principal Secretary cum PCCF Dr Thomas Chandy and Additional Director (Environment & Soil Conservation)-cum- ENVIS Coordinator Shri B. B. Gurung, Department of Forest Environment and Wildlife Management Department, Government of Sikkim.

We are grateful to the ENVIS Secretariat officials and ENVIS Centres from Delhi for encouragement and inspiration for the programme.

We are also very much grateful for the help and support by the SECAS team and CEE Gangtok Programme Officer Ms Meghna Thapa for conducting the activities at the platform.

Sikkim ENVIS team was accompanied by;

1. Rajen Pradhan, Sr. Programme Officer
2. Laxuman Darnal, Information Officer
3. Renu Gurung, IT Assistant
4. Tulsha Gurung, Data Entry Operator



Snapshot of Signature Campaign sheet

10. Release of ENVIS Publications 2015-16



Release of 'PANDA' Newsletter by the Hon'ble Chief Minister of Sikkim Shri Pawan Chamling (center), Hon'ble Minister (Roads & Bridges) Shri G. M. Gurung and Hon'ble Minister (Forest) Shri T. W. Lepcha during the International conference on KNP on May 15, 2015 at Chintan Bhawan, Gangtok.



Release of booklet compilation 'Environmental Initiatives of Sikkim' by the Hon'ble Minister (Forest) Shri T. W. Lepcha along with Principal Secretary cum PCCF Dr. Thomas Chandy and CCF Shri C. S. Rao during the press conference on the eve of world Environment Day celebration on June 4, 2015.



Release of 'Paryavaran Mahotsav 2014' pictorial activity booklet by the Hon'ble Governor, Hon'ble Chief Minister and honorary dignitaries during the Ten Minutes to Earth plantation programme at VIP colony on 25th June 2015.

ENVIS SIKKIM PUBLICATIONS 2015-16



52 paged special edition Newsletter Vol 7



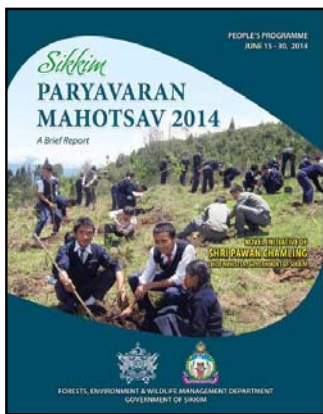
8 paged quarterly newsletter Vol 8, Issue 1



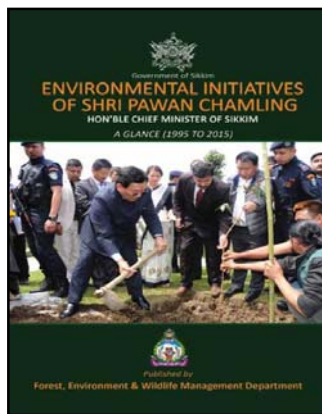
8 paged quarterly newsletter Vol 8, Issue 2



8 paged quarterly newsletter Vol 8, Issue 3



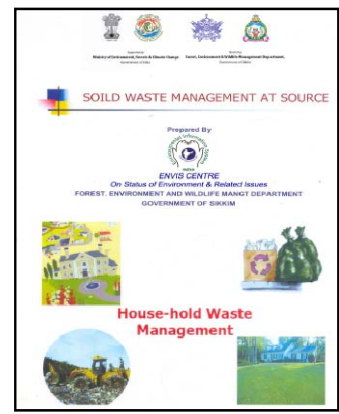
68 paged pictorial activity booklet on Paryavaran Mahotsav 2014



14 paged bilingual (English and Nepali) booklet on Environmental Initiatives of the Sikkim State government from 1995 to 2015



2 paged pamphlet on Climate Change Action



8 paged booklet on Solid Waste Management at source



DVD publication on compilation of International Award Winning Environmental documentaries, Sikkim State Green Schools Programme and Low Carbon Lifestyles

11. Participation at the National Evaluation Workshop of ENVIS Centres at New Delhi on February 17-20, 2016

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 New Delhi from 17th to 20th of February, 2016.



During the inaugural function, Sikkim State ENVIS Centre was awarded as the BEST STATE ENVIS CENTRE for 2014-15. The certificate was presented by the Hon'ble Minister of State (Independent Charge), Ministry of Environment, Forest & Climate Change, Government of India Shri Prakash Javadekar.



Shri Prakash Javedekar exploring the wide array of ENVIS publications and exhibits during the inaugural session



Shri B. B. Gurung, ENVIS Sikkim Coordinator talking to media on role of ENVIS in information dissemination and awareness



Sikkim ENVIS team demonstrating its online activities of 2015-16 before the expert evaluation committee



Sikkim ENVIS team displaying its value added products during the exhibition at Indira Paryavaran Bhawan, New Delhi



ENVIS CENTRE SIKKIM CELEBRATED BISWAKARMA PUJA ON 17TH SEPTEMBER 2015