



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

2021-22

Annual Progress Report



Hosted by

Forest and Environment Department
Government of Sikkim
Gangtok

SIKKIM STATE ENVIS HUB
On Status of Environment & Related Issues

(STATE GOVERNMENT CENTER)



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



ANNUAL PROGRESS REPORT 2021-22

(1st April 2021 – 31st March 2022)

OF

SIKKIM STATE ENVIS HUB

On Status of Environment & Related Issues
(STATE GOVERNMENT CENTER)



Hosted by

Forest and Environment Department
(Formerly Forest and Environment & Wildlife Management Department)

Government of Sikkim
Deorali, Gangtok – 737102

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Cover Photos: Inaugural of country's first GSDP Marketing Outlet under ENVIS Scheme at Gangtok by the Hon'ble Minister Forest Shri Karma Loday Bhutia and Sr. Economic Adviser, MoEF&CC Shri Arun Kumar on 7th of March 2022

SIKKIM ENVIS HUB
ANNUAL PROGRESS REPORT 2021-22

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Ministry of Environment, Forest & Climate Change
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Annual Progress Report 2021-22 on Activities of Sikkim State ENVIS Hub

1	Name of Host Organization: Forest and Environment Department Government of Sikkim, Deorali, Gangtok - 737102												
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. ENVIS Centre revamped to State ENVIS Hub vide MoC dated 23/03/2018												
4	<p>Name and designation of ENVIS Coordinator/ HoD etc:</p> <p>ENVIS Hub Coordinator: Shri. B. B. Gurung, IFS Director (E&SC, Planning and ENVIS) Mob: 9733003990 Email: bbgurunglegai@yahoo.in</p> <p>Smt. Kusum Gurung, Joint Director (ENVIS) and Co-Coordinator Mob: 7872891719 Email: khusdee2005@yahoo.com</p> <p>Head of the Organization: Shri. M.L. Srivastava, IFS Add. Chief Secretary –cum- PCCF/ HoFF Tel (O): 03592-281877 Email: pccf-fewd@sikkim.gov.in</p>												
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 <input checked="" type="radio"/> NO</p>	<table border="0"> <tr> <td>1. PCCF-cum Pr. Secretary</td> <td>Chairperson</td> </tr> <tr> <td>2. CCF (T/HQ)</td> <td>Member</td> </tr> <tr> <td>3. Director (KNP/KBR)</td> <td>Member</td> </tr> <tr> <td>4. Pr. Scientist (SPCB)</td> <td>Member</td> </tr> <tr> <td>5. Director (TT), DST&CC</td> <td>Member</td> </tr> <tr> <td>6. Director (PIng, E&SC)-cum-Coordinator (ENVIS)</td> <td>Member Secretary</td> </tr> </table> <p>(Office Order No. 1119/ADM/FEWMD dated 21/03/2015)</p>	1. PCCF-cum Pr. Secretary	Chairperson	2. CCF (T/HQ)	Member	3. Director (KNP/KBR)	Member	4. Pr. Scientist (SPCB)	Member	5. Director (TT), DST&CC	Member	6. Director (PIng, E&SC)-cum-Coordinator (ENVIS)	Member Secretary
1. PCCF-cum Pr. Secretary	Chairperson												
2. CCF (T/HQ)	Member												
3. Director (KNP/KBR)	Member												
4. Pr. Scientist (SPCB)	Member												
5. Director (TT), DST&CC	Member												
6. Director (PIng, E&SC)-cum-Coordinator (ENVIS)	Member Secretary												

6. Current ENVIS Staff Structure (Full Time):

SN	Name, Gender & DOB	Position Held (Full Time) and Monthly Emoluments drawn during 2021-22 (Rs.)	Date of Joining ENVIS	Education Qualification	Experience in ENVIS as on 31 st March 2022	Detailed Job description
1.	Mr. Rajen Pradhan DOB: 20-07-1982 	Sr. Programme Officer Rs. 46,690/- per month	17 th of April 2006 as Programme Officer Re-designated as Sr. Programme Officer on 20/03/2009	B. Tech (Computer Sc.)	15 years 11 months in ENVIS	Data compilation, collation, analysis and reporting; Preparation of knowledge products like quarterly newsletters, special publications, SoE Reports and other ENVIS publications; Updation of subject area database and ENVIS web portal; Facilitation and coordination of ENVIS schemes viz. GSDP, NES-GRIDSS and CESVP; Networking, liaison with line departments, subject experts, stakeholders, beneficiaries and ENVIS network for exchange of information, identifying data/ knowledge/skill gaps, awareness and training.
2.	Mr. Laxuman Darnal DOB: 25-12-1976 	Information Officer Rs. 38,997/- per month	18 th of August 2006 as Programme/ IT Assistant Re-designated as Information Officer on 20/03/2009	PG (Diploma) in Computer Sc. , B.Com	15 years 7 months in ENVIS	Coordination with line departments for data and information collection from secondary sources; Archiving of data and information like gazette notifications, annual reports etc.; Collection of news articles, journals and reports for updation of database and web content; Maintaining book of records, stock registers, cash books etc and accounting in PFMS platform;

SN	Name, Gender & DOB	Position Held (Full Time) and Monthly Emoluments drawn during 2021-22 (Rs.)	Date of Joining ENVIS	Education Qualification	Experience in ENVIS as on 31 st March 2022	Detailed Job description
3.	Mr. Prem Kumar Pradhan DOB: 18-02-1987 	IT Officer Rs. 31,539/- per month	18 th August 2020 as IT Officer	BCA	11+ years in Forest Department and 2 years in ENVIS	Data and information compilation for abstracting and updation in ISBEID/ NES platform; Management of online query response system; Coordination with stakeholders, eco-clubs for knowledge product and information dissemination; content management of subject area database.
4.	Ms. Tulsha Gurung DOB: 09-12-1992 	Data Entry Operator Rs. 14,641/- per month	02 nd of December 2013 as Data Entry Operator	CI XII pass with Diploma in computer application,	8 years 4 months in ENVIS	Iterative data entry services like updation of bibliography, glossary, forest fire statistics, library inventory etc; Record keeping of publications and reports from secondary sources; ENVIS library management; Maintaining of log books, registers and office consumables;

7. Mandate of the Host Organization and Mandate of the ENVIS Hub

Mandate of the Host Organization	Mandate of the ENVIS Hub
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”. To promote, implement and coordinate ENVIS initiatives viz Green Skill Development Programme (GSDP), Grid-based Resource Information and Decision Support System (GRIDSS), and Community-driven Environmentally Sustainable Village Programme (CESVP) and Extension and Outreach programmes.

8. Databases:

8.1. Catalogue of Non-numeric Databases compiled by the ENVIS Hub 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,	Descriptive, graphical	2021	Food Security and Agriculture Development Department,	Yes
Pollution	Air, water, noise, solid waste, hazardous waste, consent forms	Descriptive	Weekly up to February 2022	SPCB	Yes
Biodiversity	Comprehensive database on floral and faunal diversity of Sikkim	Descriptive, geospatial	updated up to 2022	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	updated up to February 2022	Govt publication, SPCB, Sikkim Met Deptt	Yes
Demography	Analysis on Population study of Sikkim	Descriptive, graphical	2011 Census 2016 socio-economic census	Census of India, DESME, Govt of Sikkim	Yes
Disaster	History of Earthquakes, landslides, forest fire cases in Sikkim	Descriptive	2022	Disaster Management Department	Yes
Ecotourism	Policy, trek, permits and fees, ecological study, festivals.	Descriptive	February 2022	Forest deptt	Yes
Energy	Electricity and energy consumption	Descriptive	Annual up to 2021	Power and Energy Deptt	Yes
Environment	EIA, EMP, SoE report, carrying capacity study report, ECs, Journals etc.	Descriptive	2022	Forest deptt	Yes
Forest Resources	Forest types, SFRs, JFMCs, EDCs	Descriptive	2022	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	2022	SAC, ISRO, Journals, Forest deptt	Yes
Wildlife	PAs, KNP/ KBR, eco-sensitive and conservation zones, Journals, etc	Descriptive	2022	Forest deptt	Yes
Soils and Minerals	Geology and Mineral Resources of Sikkim, Mineral reserves in Sikkim, Soil resources	Descriptive	2021	Mines Minerals and Geology Deptt	Yes
Sericulture	Mulberry, muga and eri culture practices in Sikkim	Descriptive	2020	Forest deptt	Yes

8.2. Catalogue of Numeric and Time-series Databases compiled 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 2020-21*) *Data not yet published by concerned deptt	Food Security & Agriculture Development Deptt	Yes till 2017-18
Air Quality of Sikkim (8 locations)	PM ₁₀ , PM _{2.5} , SO _x , NO _x	Annual, Monthly, Weekly till February 2022	SPCB Sikkim	Yes
River Water Quality	pH, BOD, T Coliform etc	Monthly (2011 to 2022-Feb)	SPCB Sikkim	Yes
Biodiversity	Statistics on species availability	Annual up to 2020	Forest deptt	Yes
Climate	Temperature, rainfall etc	Monthly, Annual 1996-2020	IMD	Yes
Demography	Demography statistics	2001, 2011	Census of India	Yes
Earthquakes	History of Earthquakes	1839 -2019	Disaster Management Deptt	Yes
Forest Fire Cases	Forest fire cases in Sikkim	2004 – 2021	Forest deptt	Yes
Electricity Consumption	Category wise consumption	Annual, 2008-09 to 2019-20	Power & energy deptt	Yes
Energy Consumption	Per capita consumption, Power from National grid, hydel power generation	Annual 2002-03 to 2019-20	Power & energy deptt	Yes
Forest Statistics	Forest cover statistics of Sikkim	1987 to 2022	FSI	Yes
Wetlands of Sikkim	Altitude wise no of lakes and area	2003 and 2022	Brief Document, SAC, ISRO, Ahmedabad	Yes
Mineral Reserves in Sikkim	Status of mineral development in Sikkim	Annual, 2020	Mines, Mineral and Geology Deptt	Yes
Protected Areas of Sikkim	Profile of Wildlife sanctuaries and National Park	2022	Forest deptt	Yes
Disaster	History of Earthquakes, landslides, forest fires	2020	Disaster Mgmt Deptt. Newspapers	Yes
Ecotourism	Policy, trek, permits and fees, ecological study	Feb 2022	Forest deptt	Yes

8.3. New Databases developed during the Financial Year (2021-22)

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)
State Environment Plan and District Environment Plan	Current Status, Indicative Gap Analysis and Action Plans 2021-2025 for complying with Waste Management Rules : SWM, PWM, C&DWM, BMW, HWM,E-WM, AQM, WQM, DoSewage, Mining, Noise Pollution Management	Descriptive	Action plan 2021-2025 updated on October 2021	Forest and environment and line depts	Yes
Biodiversity	Findings of new species and records/ Journals on Sikkim Himalaya	Descriptive	2021	Scientific Journals	Yes
Pollution	State –wide ban on plastic packaged water bottles	Descriptive	2021	SPCB	Yes
	Guidelines for environmental management of Poultry farms, consent forms etc	Descriptive	2021	SPCB	Yes
	e-waste, hazardous waste, plastic waste, municipal solid waste annual reports etc	Descriptive	2020-21	SPCB	Yes
	Deepawali Noise Pollution Monitoring; State Action plan for control of noise Pollution	Descriptive	2021	SPCB	Yes
Forest Resources	Status of forest and tree cover	Descriptive	2022	F&E D	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)
Pollution	AQI of 8 major towns	Weekly till Feb 2022	SPCB	Yes
	River Water Quality	Monthly, till Feb 2022	SPCB	Yes
	Deepawali Noise Pollution	2021	SPCB	Yes
	e-waste, hazardous waste, plastic waste, municipal solid waste annual reports etc	2020-21	SPCB	Yes
Climate data	Daily weather report and four days forecast of district headquarters (four towns)	Daily basis	IMD	Yes
Wildlife	Floral and Faunal species of Sikkim (Updates)	2022	Journals	Yes

8.4. Status of data entry in ISBEID: (For State ENVIS Hubs) – At ANNEXURE -I

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the Financial Year (2021-22):


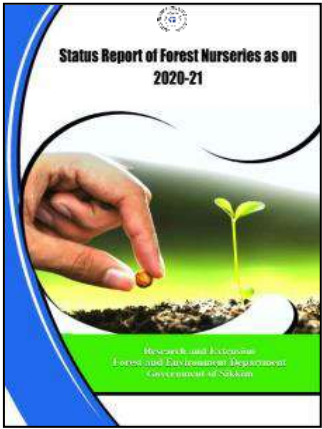
Cover snapshot	Quarter/ Volume/ Issue/ Theme Main Articles	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	<p>2021 Special Newsletter edition titled PANDA Vol. 13</p> <p>PANDA 2021 Vol 13, 104 paged special edition ENVIS Sikkim Hub Newsletter includes special articles such as Earth 2100- A glimpse into the future from the climate change perspective, Zemu Glacier- Retreat and geodetic mass changes between 1931 and 2018, Community perceptions associated with ecosystem services in the socio-ecological landscapes of Sikkim Himalaya, A perspective for conservation of mammals in Darjeeling-Sikkim Himalaya, SCARCE WHITE ROYAL <i>Tajuria illurgioides</i> de Niceville, 1890 (Blues-Lycaenidae) - A New Discovery for Sikkim, Butterflies of Sikkim Himalaya requires alternative refuge for survival - traditionally managed agroecosystem as substitute habitat for conservation, Ecological note on <i>Panax sokpayensis</i> from Ralong South Sikkim, Gurudongmar Plateau - a Hotspot for breeding and passage migrant birds, Insectivorous birds as potential natural pest control agents in organic agricultural systems of Sikkim Himalaya.</p>	<p>2000 nos (104 Pages)</p> <p><i>Supported by host organization</i></p>	<p>http://sikenvis.nic.in/Wri teReadData/Publication/ PANDA%202021- Sikkim%20ENVIS%20 Hub_web.pdf</p>



PANDA 2021 Vol 12, 104 paged special edition ENVIS Sikkim Hub Newsletter being released by the Hon'ble Chief Minister Shr Prem Singh Tamang and other political dignitaries in presence of the Hon'ble Minister Forest Shri Karma Loday Bhutia and ACS-cum-PCCF Shri M L Srivastava on the occasion of state level function of celebrating 'A Day for Mother Earth' on 7th of July 2021 at Dentam, West Sikkim

Cover snapshot	Quarter/ Volume/ Issue/ Theme	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	<p>Sikkim ENVIS Hub Newsletter Vol 14 Issue 1 (Apr-Jun)</p> <p>Ecosystem Restoration, world environment day celebration, WED online events, Ek Bharat Shrestha Bharat activities, Azadi Ka Amrit Mahotsav, World Bee Day, Earth Day, menstrual Hygiene Day, Biodiversity Day, Orientation on Wipro earthian educators, Otters symbolizes healthy ecosystem, Record of two new species viz Ferruginous Duck and brown-headed Gull in high altitude wetland of Sikkim Himalaya</p>	<p>500 nos. (12 Pages)</p>	<p>http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%201%20(Apr-June).pdf</p>
	<p>Sikkim ENVIS Hub Newsletter Vol 14 Issue 2 (Jul-Sep)</p> <p>Celebrating Nature, A Day for mother Earth 3rd edition, Stoppage of vehicular movement for 7 minutes, blue planet prize, competitive advantage of adopting solar power, world ozone day celebration, Seasonal diets of Asiatic black bear in the Khangchendzonga National Park, Rare sightings of otter, takin, poshan maah, 2nd edition of youth climate conclave, azadi ka amrit mahotsav, call of papers on ecological traditions of Sikkim, green skill development programme advertisement</p>	<p>500 nos. (12 Pages)</p>	<p>http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%202%20(Jul-Sep).pdf</p>
	<p>Sikkim ENVIS Hub Newsletter Vol 14 Issue 3 (Oct-Dec)</p> <p>Awareness on curbing SUPs, Plastic Water Bottle banned in Sikkim, Green Skill Training to 250 local youths, Celebrating Azadi Ka Amrit Mahotsav Iconic Week October 1-10, Ek Kadam Swahhta Ki Ore, Harit Diwali Swastha Diwali - Clean Air Campaign, Swachhta Pakwada, Annual awards with cash prizes to cleanest villages and towns of Sikkim from 2022 onwards, Air and noise data during Deepawali festival, wildlife week celebration, new butterfly species recorded from Dzongu North Sikkim, excerpt on - Analysing Challenges and Strategies in Land Productivity in Sikkim Himalaya</p>	<p>500 nos. (12 Pages)</p>	<p>http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%203%20(Oct-Dec).pdf</p>

9.2. Other Special publications/ information products brought out during the Financial Year (2021-22):

Cover snapshot	Publication/ Product Theme(s)/ Subject Area(s)	Number of copies printed and circulated	URL of the PDF file in ENVIS website
	<p>State and District Environment Plan Sikkim 2021</p> <p>This special publication highlights Current Status, Indicative Gap Analysis and Action Plans 2021-2025 for complying with Waste Management Rules : SWM, PWM, C&DWM, BMW, HWM, E-WM, AQM, WQM, DoSewage, Mining, Noise Pollution Management</p>	<p>e-publication published exclusively in Sikkim ENVIS Website</p>	<p>http://sikenvis.nic.in/WriteReadData/UserFiles/file/SIKKIM%20ENVIRONMENT%20PLAN%20FINAL.pdf</p>
	<p>Status of Forest Nurseries 2021</p> <p>This includes inter alia, the past and present history, soil and water analysis, current seedling stock and prescription for further improvement and so on. Targeted for the practicing foresters, researchers, academicians, scientists and general public.</p>	<p>e-publication published exclusively in Sikkim ENVIS Website</p>	<p>http://sikenvis.nic.in/WriteReadData/Publication/Status%20Report%20of%20Forest%20Nurseries%202020-21.pdf</p>

9.3. Dissemination and Usability of ENVIS Knowledge Products

Sikkim ENVIS Hub’s knowledge products are disseminated widely amongst target groups such as politicians, bureaucrats, policy and decision makers, officers, students, research scholars, network of 856 eco-clubs at schools and colleges across the state, and general public through online and print media as well wherever necessary.

Usability of Knowledge Products/Publications

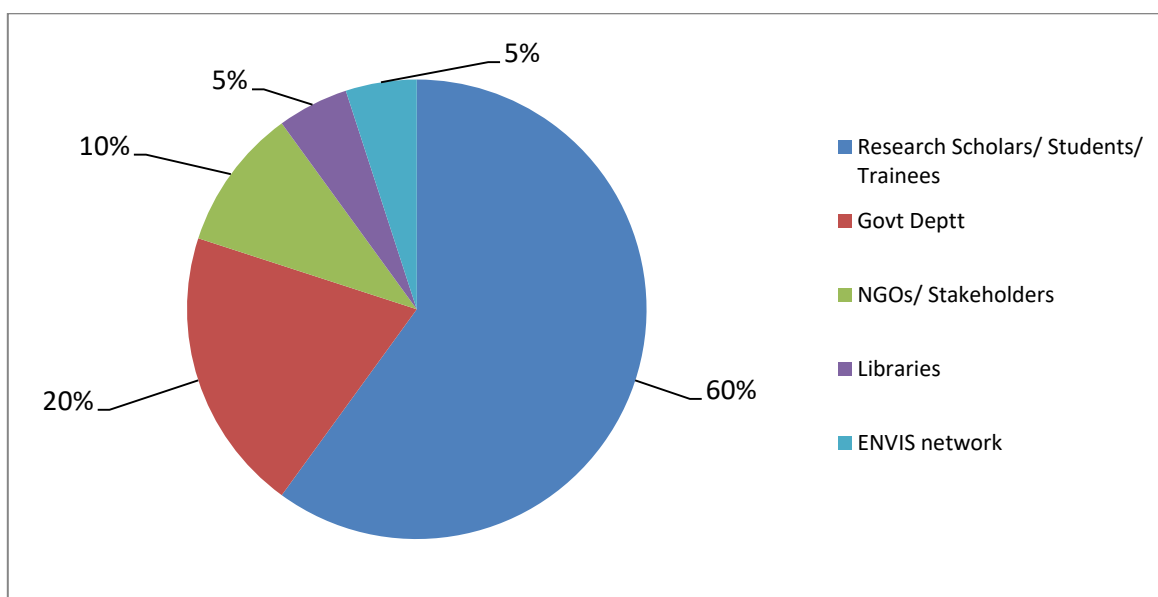
Circulation/Subscribers of Knowledge Products to Educational Institutions (Number): **900+**

Circulation/Subscribers of Knowledge Products to Research Scholars/ trainees (Number): **500+**

Circulation/Subscribers of Knowledge Products to Government Departments (Number): **100+**

Circulation/Subscribers of Knowledge Products to Libraries (Number): **50+ including community libraries, state and national libraries**

Circulation/Subscribers of Knowledge Products (Any other): **UN embassy office at Delhi and its Sikkim unit is a subscriber of Sikkim ENVIS's Knowledge products**



9.4 PUBLICATION DATABASE: Information Products published/ released during last five years (2015-16 to 2021-22)

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
2021-22	1	PANDA 2021 Vol 13, 104 paged Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/PANDA%202021-Sikkim%20ENVIS%20Hub_web.pdf	PANDA 2021-Sikkim ENVIS Hub_web.pdf	1	State Environment Plan Sikkim 2021	http://sikenvis.nic.in/WriteReadData/UserFiles/files/SIKKIM%20ENVIRONMENT%20PLAN%20FINAL.pdf	SIKKIM ENVIRONMENT PLAN FINAL.pdf
	2	Sikkim ENVIS Hub Newsletter Vol 14 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%201%20(Apr-June).pdf	Sikkim ENVIS Hub Newsletter 2021-22 Vol 14 Issue 1 (Apr-June).pdf	2	Status of Forest Nurseries 2020-21	http://sikenvis.nic.in/WriteReadData/Publication/Status%20Report%20of%20Forest%20Nurseries%202020-21.pdf	Status Report of Forest Nurseries 2020-21.pdf
	3	Sikkim ENVIS Hub Newsletter Vol 14 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%202%20(Jul-Sep).pdf	Sikkim ENVIS Hub Newsletter 2021-22 Vol 14 Issue 2 (Jul-Sep).pdf				
	4	Sikkim ENVIS Hub Newsletter Vol 14 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%203%20(Oct-Dec).pdf	Sikkim ENVIS Hub Newsletter 2021-22 Vol 14 Issue 3 (Oct-Dec).pdf				

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
2020-21	1	PANDA 2020 Vol 12, 92 paged Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/PANDA%202020%20Vol%2012%20Sikkim%20ENVIS%20Hub%2013Aug%202020%20web.pdf	PANDA 2020 Vol 12 Sikkim ENVIS Hub 13Aug 2020 web.pdf	1	State Action Plan for Control of Noise Pollution under the Noise Pollution (Regulation and Control) Rules, 2000 as amended in 2016 Including Status of action taken by the State	http://sikenvis.nic.in/WriteReadData/UserFiles/file/Annexure%20V%20-%20State%20Action%20Plan%20for%20Control%20of%20Noise%20Pollution.pdf	Annexure V - State Action Plan for Control of Noise Pollution.pdf
	2	Sikkim ENVIS Hub Newsletter Vol 13 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202020-21%20Vol%2013%20Issue%201%20(Apr-June)1.pdf	ENVIS Newsletter 2020-21 Vol 13 Issue 1 (Apr-June)1.pdf	2	Brochure: Ten Point Agenda to Implement Green Good Deeds	http://sikenvis.nic.in/WriteReadData/UserFiles/file/Sikkim%20SNA%20GGD%20Brochure.pdf	Sikkim SNA GGD Brochure.pdf
	3	Sikkim ENVIS Hub Newsletter Vol 13 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202020-21%20Vol%2013%20Issue%202%20(Jul-Sep).pdf	Sikkim ENVIS Hub Newsletter 2020-21 Vol 13 Issue 2 (Jul-Sep).pdf			-	
	4	Sikkim ENVIS Hub Newsletter Vol 13 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202020-21%20Vol%2013%20Issue%203%20(Oct-Dec).pdf	Sikkim ENVIS Hub Newsletter 2020-21 Vol 13 Issue 3 (Oct-Dec).pdf				

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
2019-20	1	PANDA Vol 11, 88 paged Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/PANDA%20Vol%2011%202019%20(2018-19).pdf	PANDA Vol 11 2019 (2018-19).pdf	1	Brochure: Ten Point Agenda to Implement Green Good Deeds	http://sikenvis.nic.in/WriteReadData/UserFiles/file/Sikkim%20SNA%20GGD%20Brochure.pdf	Sikkim SNA GGD Brochure.pdf
	2	Sikkim ENVIS Hub Newsletter Vol 12 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202019-20%20Vol%2012%20Issue%201%20(Apr-June).pdf	ENVIS Newsletter 2019-20 Vol 12 Issue 1 (Apr-June).pdf	2	GSDP Training Manuals on Beekeeping, Bamboo Crafts, Forest Fire Management , Solar Energy Systems	Not Published Online	NA
	3	Sikkim ENVIS Hub Newsletter Vol 12 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202019-20%20Vol%2012%20Issue%202%20(Jul-Sep).pdf	ENVIS Newsletter 2019-20 Vol 12 Issue 2 (Jul-Sep).pdf				
	4	Sikkim ENVIS Hub Newsletter Vol 12 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202019-20%20Vol%2012%20Issue%203%20(Oct-Dec).pdf	ENVIS Newsletter 2019-20 Vol 12 Issue 3 (Oct-Dec).pdf				
	Any Other				Any Other	White Paper of Forest, Environment & Wildlife Management Department 2018-19	RESTRICTED PUBLICATION Not published online. Print copies were submitted to Sikkim State Legislative Assembly	NA

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
2018-19	1	PANDA Vol 11, Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/PANDA%20Vol%201%202019%20(2018-19).pdf	PANDA 2018-19.pdf	1	State of Environment Report Sikkim 2016	http://sikenvis.nic.in/WriteReadData/Publication/State%20of%20Environment%20Report%20Sikkim%202016.pdf	State of Environment Report Sikkim 2016.pdf
	2	Sikkim ENVIS Hub Newsletter Vol 11 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202018-19%20Vol%201%20Issue%201%20(Apr-June).pdf	ENVIS Newsletter 2018-19 Vol 11 Issue 1 (Apr-June).pdf	2	GSDP Brochure: Wild Beekeeping and Processing	Not Published Online	
	3	Sikkim ENVIS Hub Newsletter Vol 11 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202018-19%20Vol%201%20Issue%202%20(Jul-Sep).pdf	ENVIS Newsletter 2018-19 Vol 11 Issue 2 (Jul-Sep).pdf	3	State Government's Initiative on Forestry, Environment and Wildlife Management	http://sikenvis.nic.in/WriteReadData/UserFiles/file/Sikkim%20Environment%20Initiatives%20English.pdf	Sikkim Environment Initiatives English.pdf
	4	Sikkim ENVIS Hub Newsletter Vol 11 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202018-19%20Vol%201%20Issue%203%20(Oct-Dec).pdf	ENVIS Newsletter 2018-19 Vol 11 Issue 3 (Oct-Dec).pdf				

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
2017-18	1	PANDA Vol 10, 60 paged Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/PANDA%20Vol%2010%202017-18.pdf	PANDA Vol 10 2017-18.pdf	1	Pamphlet (Bilingual - English and Nepali) on State Government's Initiative on Forestry, Environment and Wildlife Management	http://sikenvis.nic.in/WriteReadData/UserFiles/file/Sikkim%20Environment%20Initiatives%20English.pdf	Sikkim Environment Initiatives English.pdf
	2	Sikkim ENVIS Hub Newsletter Vol 10 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202017-18%20Vol%2010%20Issue%201%20(Apr-Jun).pdf	ENVIS Newsletter 2017-18 Vol 10 Issue 1 (Apr-Jun).pdf	2	Paryavaran Mahotsav 2016 - Activity Book	http://sikenvis.nic.in/WriteReadData/Publication/Paryavaran%20Mahotsav%202016.pdf	Paryavaran Mahotsav 2016.pdf
	3	Sikkim ENVIS Hub Newsletter Vol 10 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202017-18%20Vol%2010%20Issue%202%20(Jul-Sep).pdf	ENVIS Newsletter 2017-18 Vol 10 Issue 2 (Jul-Sep).pdf				
	4	Sikkim ENVIS Hub Newsletter Vol 10 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202017-18%20Vol%2010%20Issue%203%20(Oct-Dec).pdf	ENVIS Newsletter 2017-18 Vol 10 Issue 3 (Oct-Dec).pdf				

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
2016-17	1	PANDA Vol 9, 60 paged Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20-PANDA%20News%20Maganie%20Vol%209.pdf	Sikkim ENVIS - PANDA News Maganie Vol 9.pdf	1	Environmental Initiatives of Sikkim 1994-2016	http://sikenvis.nic.in/WriteReadData/Publication/Environment%20Initiatives%20of%20Sikkim%2015%20Aug%202016.pdf	Environmental Initiatives of Sikkim 2015 Aug 2016.pdf
	2	Sikkim ENVIS Hub Newsletter Vol 9 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202016-17%20Vol%209%20Issue%201%20(Apr-Jun).pdf	ENVIS Newsletter 2016-17 Vol 9 Issue 1 (Apr-Jun).pdf	2	Nature's Marvel - A Pictorial Pocket Sized Booklet on the Faunal Diversity of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/Natures-Marvel.pdf	Natures-Marvel.pdf
	3	Sikkim ENVIS Hub Newsletter Vol 9 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202016-17%20Vol%209%20Issue%202%20(Jul-Sep).pdf	ENVIS Newsletter 2016-17 Vol 9 Issue 2 (Jul-Sep).pdf	3	Paryavaran Mahotsav 2015 - Activity Book	http://sikenvis.nic.in/WriteReadData/Publication/Final%20Paryavaran%20Mahotsav%202015.pdf	Final Paryavaran Mahotsav 2015.pdf
	4	Sikkim ENVIS Hub Newsletter Vol 9 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202016-17%20Vol%209%20Issue%203%20(Oct-Dec).pdf	ENVIS Newsletter 2016-17 Vol 9 Issue 3 (Oct-Dec).pdf				
2015-16	1	PANDA Vol 8, 60 paged Special edition newsletter	http://sikenvis.nic.in/WriteReadData/Publication/Panda%20Vol%208%20Final%202016.pdf	Panda Vol 8 Final 2016.pdf	1	Paryavaran Mahotsav 2014 - Pictorial book report	http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20Paryavaran%20Mahotsav%202014%20web.pdf	Sikkim Paryavaran Mahotsav 2014 - web.pdf

F.Y Year	SN	Newsletter			SN	Special Publications		
		Name of the Newsletter	Link	Name of the PDF		Name of the Special Publication	Link	Name of the PDF
	2	Sikkim ENVIS Hub Newsletter Vol 8 Issue 1 (Apr-Jun)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%201%20(Apr-Jun).pdf	ENVIS Newsletter 2015-16 Vol 8 Issue 1 (Apr-Jun).pdf	2	Handbook on Nature based Festivals of Sikkim	http://sikenvis.nic.in/WriteReadData/Publication/Handbook%20of%20Nature%20Based%20Festival%20of%20Sikkim%2005-06-15%20web.pdf	Hand Book of Nature Based Festival of Sikkim 05-06-15 web.pdf
	3	Sikkim ENVIS Hub Newsletter Vol 8 Issue 2 (Jul-Sep)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%202%20(Jul-Sep).pdf	ENVIS Newsletter 2015-16 Vol 8 Issue 2 (Jul-Sep).pdf	3	Heritage Trees of Sikkim - <i>Photo album of notified Heritage trees of Sikkim</i>	http://sikenvis.nic.in/WriteReadData/Publication/SIKKIM%20STATE%20HERITAGE%20TREES.pdf	SIKKIM STATE HERITAGE TREES.pdf
	4	Sikkim ENVIS Hub Newsletter Vol 8 Issue 3 (Oct-Dec)	http://sikenvis.nic.in/WriteReadData/Publication/ENVIS%20Newsletter%202015-16%20Vol%208%20Issue%203%20(Oct-Dec).pdf	ENVIS Newsletter 2015-16 Vol 8 Issue 3 (Oct-Dec).pdf				
	Any Other				Any Other			

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



10.1. URL: www.sikennis.nic.in

Web Statistics [for 2021-22 as on 31.03.2022]:

Total Website Visitors so far (since 26/11/2012) : 32.99 lakh
 No. of Website Visits : 5,56,704
 No. of Website Unique Visitors : 1,30,093
 No. of Web update : 2,928
 No. of Publication updated : 27
 No. of Reports Read/ Downloaded : 917
 No. of ISBEID updates : 1,891
 No. of Online Queries Answered/ Received : 932 / 932
 No. of Offline Queries Answered/ Received : 3600+
 No. of Total Queries (online/offline) Answered/ Received: 4950+

10.2. Status of restructuring of Website: Restructured and made live on 26/11/2012

10.3. Frequency of updating Website 2021-22 (as on 31-Mar-2022)

The monthly average frequency of updation for 2021-22 is **244 updates per month**. Total **2928 updates** have been made during 2021-22 as on 31st of March, 2022. The number of web updates has **increased by 12%** as compared to previous year which was 2618 updates.

Year (2021-22)	Publications	Subject Area	Bibliography	Major Activity	Upcoming Events	Latest News	Frequency of Updating
01 Apr 2021 – 31 Mar 2022	27	151	2597	37	57	45	2928

10.4. Subject-specific database updation (numeric/ others): 151 updates have been made during 2021-22 as on 31-Mar-2022 alone in the subject-specific database.

10.5. Publication uploaded/ updated on Website: 27 updates (including journals, pamphlets, newsletters and book publication)

11. User Engagement and Interaction (last four years)

<i>User engagement and interaction</i>	<i>FY 2021-22</i>	<i>FY 2020-21</i>	<i>FY 2019-20</i>	<i>FY 2018-19</i>
i. Total number of visits	5,56,704	6,00,375	3,73,476	3,82,427
ii. Number of unique visits	1,30,093	2,05,337	61,810	56,900
iii. Reports Downloaded/Read	917	7,66	1,514	683
iv. Total Number of Queries received*	4590+	3813+	3632	2919
v. Number of Queries responded*	4590+	3813+	3634	2918

* including offline queries. Detail figures for 2021-22 is made available in section 11.4

11.1 Total number of visits on Website (2021-22): 5,56,704 (As on 31-Mar-2022)

11.2 Number of unique visits on Website (2021-22): 1,30,093 (As on 31-Mar-2022)



The spike in web visits during June 2021 may be attributed due to state-level various online competitions (quiz/ essay/ slogan/ painting/ photography/ short video) and e-certificate download by number of participants on the occasion of World Environment Day celebration.

Months	Visits			Unique Visitors		
	Indian	Rest of the world	Total	Indian	Rest of the world	Total
Apr-2021	9420	23991	33408	3050	2323	5373
May-2021	18417	35496	53895	9833	7513	17346
Jun-2021	37768	50810	88487	18297	19263	37560
Jul-2021	9403	23243	32630	3859	3185	7044
Aug-2021	9498	26600	36093	4879	3869	8748
Sep-2021	13449	29487	42928	9814	6156	15970
Oct-2021	14337	25939	40264	7175	5415	12590
Nov-2021	7385	26338	33718	4566	3845	8411
Dec-2021	7899	38123	46018	4629	3171	7800
Jan-2022	13211	30883	44082	7680	3461	11141
Feb-2022	12095	38672	50760	8030	4385	12415
Mar-2022	5844	49303	55144	4055	3036	7091
01 Apr 2021 – 31 Mar 2022	158357	398565	556704	74246	55847	130093

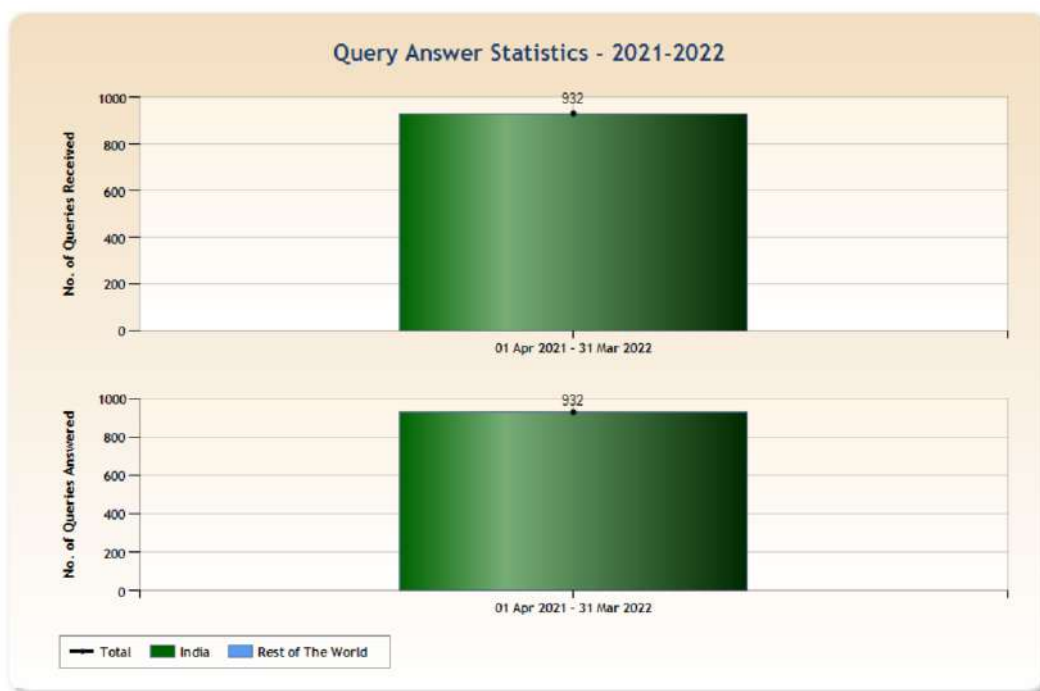
11.3 Number of reports downloaded/ read by stakeholders:

Total **917** downloads (*through user login section only*) have been observed during 2021-22 in which over 83% of the downloadable items have been accessed from the subject area module and about 16% of the items have been downloaded from the publications 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 higher since over 80% of the downloadable content of the website especially the frequently visited subject area, latest news, major activities etc have been uploaded with direct download option (User Login is not required) for enhancing the user accessibility.

Year	Publications	Subject Area	Others	Report Read/Downloaded
01 Apr 2021 - 31 Mar 2022	143	766	8	917

11.4 Query-Answer Statistics 2021-22:

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)	932	932	-
Email (official NIC server)	2500+	2500+	-
Postal/Telephonic (incl. hand post)	600+	600+	-
Physical (In person visits)	558	558	-
Total	4590+	4590+	



(Online query response annual graphical statistics 2021-22)

12. Quarter-wise Output-Outcome Indicator Report submitted for NITI Aayog Monitoring Dashboard (2021-22)

ENVIS HUB SIKKIM STATE 2021-22: 1st QTR Report (April-June)

Sr. No.	Indicator Name	Description	Target	Achieved YTD
1.	Number of information/knowledge products developed.	It includes Newsletter, Publications, Poster, Brochure, Books etc.	2	2
2.	Number of thematic maps developed.	Theme based digital maps related to environmental sector	1	1
3.	Number of Mobile Apps developed.	Development of new mobile app for a particular quarter. Updation of existing mobile app cannot be mentioned in this indicator.	0	0
4.	Number of youth skilled under various green skilling programmes.	Skilled youth under GSDP	0	0
5.	Increase in number of downloads of mobile apps from the websites of individual ENVIS Centres, over previous year, by all stakeholders - students, researchers, policy makers, general public etc.	Mobile App downloaded from the ENVIS Hub/RP Website.	0	0
6.	Increase in number of analytical reports generated from the MIS database by ENVIS Hubs over previous year.	Analytical reports generated based on ISBEID database	1	1
7.	Number of skilled youth employed after completing the certificate programmes.	Skilled youth employed under GSDP	0	0
8.	Increase in number of downloads of environmental information products, kits and maps.	No. of Downloads from ENVIS website	300	525

ENVIS HUB SIKKIM STATE 2021-22: 2nd QTR Report (July-September)

S.No	Indicators	Achieved (No./Percentage)
1.	Number of information/ knowledge products developed during the year	1
2.	Number of environmental information products, kits and maps downloaded	185
3.	Number of thematic maps developed during the year	1
4.	Number of Mobile Apps developed during the year	0
5.	Number of downloads of mobile apps from the websites of individual ENVIS Centres, over previous year, by all stakeholders - students, researchers, policy makers, general public etc	0
6.	Number of youth to be skilled under various green skilling programmes	0
7.	Number of course to be conducted	0
8.	Percentage change in downloads of environmental information products, kits and maps by the users over the year	94%
9.	Percentage increase in development of thematic maps during the year	0
10.	Percentage change in downloads of mobile apps from the websites of individual ENVIS Centres by all stakeholders - students, researchers, policy makers, general public etc over the year	0
11.	Percentage change in analytical reports generated from the MIS database by ENVIS Hubs over the previous year	0
12.	Number of skilled youth to be employed after completing the certificate programmes	0

ENVIS HUB SIKKIM STATE 2021-22: 3rd QTR Report (October-December)

S.No	Indicator Name	Description	Achieved YTD
1.	Number of information/ knowledge products developed.	It includes Newsletter and Special Publications only	2
2.	Number of environmental information products, kits and Maps downloaded	Downloaded from the designated website	101
3.	Number of thematic maps developed.	Theme based digital maps related to environmental sector	1
4.	Number of Mobile Apps developed.	Development of new mobile app for a particular quarter. Updation of existing mobile app cannot be mentioned in this indicator.	0
5.	Increase in number of downloads of mobile apps from the websites of individual ENVIS Centres, over previous year, by all stakeholders - students, researchers, policy makers, general public etc.	Mobile App downloaded from the ENVIS Hub/RP Website.	0
6.	No. of Time series descriptive/numerical environmental information database for district/state/country developed along with the analysis for policy implications	Analysis of available databases by the ENVIS hubs/RPs	1
7.	Number of skilled youth employed after completing the certificate programmes.	Skilled youth employed under GSDP	70
8.	Number of course to be conducted	Related to GSDP	4

ENVIS HUB SIKKIM STATE 2021-22: 4th QTR Report (January-March)

S.N	Indicators	Period	Achieved (No./Percentage)
1.	Number of information/ knowledge products developed during the Fourth Quarter	Jan –March,2022	1
2.	Number of environmental information products, kits and maps downloaded during the Fourth Quarter	Jan –March,2022	106
3.	Number of thematic maps developed during the Fourth Quarter	Jan –March,2022	0
4.	Number of Mobile Apps developed during the Fourth Quarter	Jan –March,2022	0
5.	Number of downloads of mobile apps from the websites of individual ENVIS Centres, over previous year, by all stakeholders - students, researchers, policy makers, general public etc during the Fourth Quarter	Jan –March,2022	0
6.	Number of youth to be skilled under various green skilling programmes during the Fourth Quarter	Jan –March,2022	80
7.	Number of course conducted during the Fourth Quarter	Jan –March,2022	2
8.	No. of Time series descriptive/ numerical environmental information database for district/State/Country developed along with the analysis for policy implications during the Fourth Quarter	Jan –March,2022	1
9.	Number of analytical reports generated from the MIS database by ENVIS Hubs during the year	April, 2021- March,2022	2
10.	Number of skilled youth employed after completing the certificate programmes during the year	April, 2021- March,2022	192 out of 250 candidates

13. Implementation of Annual Plan of Activities of the Financial Year (2021-22):**Gist of Major Activities/Achievements of Sikkim ENVIS Hub during 2021-22 as per the Mandate of ENVIS Scheme**

Sikkim ENVIS Hub hosted at Forest and Environment Department, Government of Sikkim handles the following areas of work as per the mandate related to the revamped ENVIS Scheme after termination of the XIIth Five Year Plan.

i. Repository of Environmental Knowledge, Publications and Dissemination:

Sikkim ENVIS Hub collects/ collates/ compiles/ disseminates information pertaining to ‘Status of Environment and Its Related Issues’ of Sikkim State and its adjoining Himalayan region.

- During current FY 2021-22, Sikkim ENVIS Hub has published three issues of 12 paged Quarterly Newsletter, one 104 paged special Newsletter edition “PANDA Vol 13” which has gained popularity and is high in demand amongst students, academicians, research scholars, officers and public across the country. Sikkim ENVIS Hub has also published two other special publication viz State Environment Plan and Status of Forest Nurseries which are vital reports for policy and decision making. Besides, about 30 research articles/ journals/ scientific papers published in various scientific journals during current year has been consented by respective authors for online hosting at ENVIS website www.sikenvis.nic.in

Issue	Sikkim ENVIS Hub Publication 2021-22 Title/ Description / Link
Q1 Apr - Jun	Sikkim ENVIS Hub Newsletter Vol 14 Issue 1 (Apr-Jun) http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%201%20(Apr-June).pdf Printed: 500 nos
Q2 Jul - Sep	Sikkim ENVIS Hub Newsletter Vol 14 Issue 2 (Jul-Sep) http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%202%20(Jul-Sep).pdf Printed: 500 nos
Q3 Oct - Dec	Sikkim ENVIS Hub Newsletter Vol 14 Issue 3 (Oct-Dec) http://sikenvis.nic.in/WriteReadData/Publication/Sikkim%20ENVIS%20Hub%20Newsletter%202021-22%20Vol%2014%20Issue%203%20(Oct-Dec).pdf Printed: 500 copies
Q4 Special edition Newsletter	PANDA 2021 Vol 13, 104 paged Special edition newsletter http://sikenvis.nic.in/WriteReadData/Publication/PANDA%202021-Sikkim%20ENVIS%20Hub_web.pdf PANDA 2021 Vol 13, 104 paged special edition ENVIS Sikkim Hub Newsletter includes special articles such as Earth 2100- A glimpse into the future from the climate change perspective, Zemu Glacier- Retreat and geodetic mass changes between 1931 and 2018, Community perceptions associated with ecosystem services in the socio-ecological landscapes of Sikkim Himalaya, and so on. Printed: 2000 nos
Special Publication	State and District Environment Plan Sikkim 2021 This special publication includes Current Status, Indicative Gap Analysis and Action Plans 2021-2025 for complying with Waste Management Rules : SWM, PWM, C&DWM, BMW, HWM,E-WM, AQM, WQM, DoSewage, Mining, Noise Pollution Management http://sikenvis.nic.in/WriteReadData/UserFiles/file/SIKKIM%20ENVIRONMENT%20PLAN%20FINAL.pdf
Special Publication	Status of Forest Nurseries 2020-21 This includes inter alia, the past and present history, soil and water analysis, current seedling stock and prescription for further improvement and so on. Targeted for the practicing foresters, researchers, academicians, scientists and general public http://sikenvis.nic.in/WriteReadData/Publication/Status%20Report%20of%20Forest%20Nurseries%202020-21.pdf

- Sikkim ENVIS Hub's knowledge products are disseminated widely amongst target groups such as politicians, bureaucrats, policy and decision makers, officers, students, research scholars, network of 856 eco-clubs at schools and colleges across the state, and general public through online and print media as well wherever necessary.

Usability of Knowledge Products/Publications

Circulation/Subscribers of Knowledge Products to School (Number): **850+**

Circulation/Subscribers of Knowledge Products to University (Number): **20+**

Circulation/Subscribers of Knowledge Products to Government Departments (Number): **100+**

Circulation/Subscribers of Knowledge Products to Libraries (Number): **50+ including community libraries, state and national libraries**

Circulation/Subscribers of Knowledge Products (Any other): **UN embassy office at Delhi and its Sikkim unit is a subscriber of Sikkim ENVIS's Knowledge products**

- **Web Statistics [for 2021-22 as on 31.03.2022]:**

Total Website Visitors so far (since 26/11/2012)	: 32.99 lakh
No. of Website Visits	: 5,56,704
No. of Website Unique Visitors	: 1,30,093
No. of Web update	: 2,928
No. of Publication updated	: 27
No. of Reports Read/ Downloaded	: 917
No. of ISBEID updates	: 1,891
No. of Online Queries Answered/ Received	: 932 / 932
No. of Offline Queries Answered/ Received	: 3600+
No. of Total Queries (online/offline) Answered/ Received:	4590+

- **1891 nos** of discrete data has been updated in ISBEID (Indian State-level Basic Environmental Information Database) during 2021-22. Till date about **11,000** updates have been made in ISBEID since inception.
- Sikkim ENVIS Hub has its exclusive library which houses more than 4000 books, reports and scientific/ research based articles with searchable online database.
- Total **2928** number of updates have been made in ENVIS website www.sikenvis.nic.in during 2021-22 (as on 31/03/2022)
- About **5000** number of queries (online/postal/telephonic/physical/letters/emails) were handled by Sikkim ENVIS Hub during 2021-22.
- About **33 lakh** website visitors have been recorded till 31/03/2022 wherein over 5.50 lakh visits and over 1.30 unique visitors were recorded during 2021-22 alone. Increase in the number of downloads were observed (917 downloads in 2021-22) compared to previous year which was 766 downloads.

ii. Green Skills Development Programme (GSDP): Gist of Major Achievements

To instil green skills in environment, forest and wildlife sectors and enable the aspiring youths to be gainfully employed or self-employed, Sikkim ENVIS Hub has been successfully implementing GSDP on four certified courses of NSQF level 4 and 5 viz (1) Forest Fire Management- 300 Hrs, (2) Bamboo Crafts - 400 Hrs, (3) Beekeeping - 200 Hrs and (4) Solar Energy Systems- 240 Hrs since 2019-20 in the state of Sikkim:

FY	Total Candidates enrolled	Total Candidates employed/ self-employed so far *	To be employed
2019-20	90 - (4 batches)	87 (97%)	3
2020-21	85 - (4 batches)	78 (92%)	7
2021-22	250 - (12 batches)	194 (78%) <i>As on 31.03.2022</i>	56
Total	425	359 (84%)	66

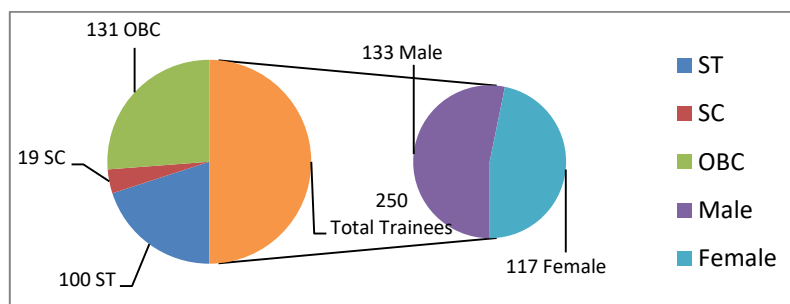
* figures are being updated on continuous basis.

- Out of 425 GSDP successful trainees in four courses viz Forest Fire Management, Bee Keeping, Bamboo Crafts and Solar Energy Systems during 2019-20, 2020-21 and 2021-22, a total of 359 candidates have been employed/ self-employed in respective sectors so far making employability rate of 84%.
- During the FY 2021-22 alone, Sikkim ENVIS Hub enrolled 250 candidates in the above four GSDP courses in 12 batches. So far 194 out of 250 candidates have already started livelihood ventures through beekeeping, bamboo crafts, solar energy systems and forest fire management. Figures are being updated on continuous or on as and when basis.
- Sikkim ENVIS Hub has successfully set up partnership with resource and enterprise agencies such as Sikkim Marketing Federation (SIMFED), Directorate of Handloom and Handicraft, Sikkim Khadi and Village Industries Board, JFMCs/ EDCs, Disaster Management and Mitigation entities, Sikkim Renewable Energy Development Agency (SREDA) and other government and autonomous entities for supporting the green skilled candidates for their employment, entrepreneurship and marketing ventures post training.
- GSDP programme in Sikkim State has received righteous attention amongst the unemployed youths and is now closely monitored as one of effective welfare schemes directly by the Chief Minister's Office as well. The office of Account General(Audit) Sikkim during the performance audit of ENVIS for period 2016 to 2022 has commended the livelihood generation activities through GSDP as commendable achievement and has advised other divisions of the Forest and Environment Department(Host organization) to follow the same.
- Sikkim ENVIS Hub has been recently provided a marketing space for popularising GSDP products such as bamboo crafts, honey and beekeeping products, organic manure and briquettes out of Forest fire Management course, Solar PV installation outsourcing/ skilled manpower resource etc. **This is the country's first GSDP marketing outlet under ENVIS scheme and was inaugurated on 7th of March 2022** by the Hon'ble Minister Forest Shri Karma Loday Bhutia and Sr. Economic Adviser, MoEF&CC Shri Arun Kumar. The sale through the outlet after inaugural as on 31st March 2022 was recorded as Rs 67,300/- directly benefitting the GSDP beneficiaries.
- **Sikkim state's first registered Beekeepers Cooperative in the name of "Himali Bee Cooperative Society Ltd" was registered by 10 GSDP Beekeepers of South Sikkim** who had successfully completed the course recently. An inaugural programme organized in grandeur in a remote village Rabitar at South Sikkim on April 6, 2022 witnessed the inaugural of bee apiary with over 30 colonies by the chief guest on the occasion the Hon'ble Minister Agriculture Shri L N Sharma in presence of political dignitaries, govt officers, farmers and local public. A Historic day for GSDP Beekeeping in Sikkim.

Status of GSDP Courses of FY 2021-22 as on 31.03.2022

- Sikkim ENVIS Hub has successfully implemented GSDP on four certified courses in 12 batches viz (1) Forest Fire Management – 3 batch, (2) Bamboo Crafts – 4 batch, (3) Wild Beekeeping and Processing -2 batch and (4) Solar Energy Systems – 3 batches during 2021-22 in the state of Sikkim
- All 12 batches have been successfully completed as on 26th February 2022. All courses were started on 15th of November 2021.
- Total 250 candidates were enrolled and all candidates have completed training successfully. Out of 250 candidates enrolled, 100 are ST, 19 are SC, 131 are OBC. Male and female ratio has been checked appropriately as 134 and 117 respectively.
- Total 555 applications were received in a window period of two weeks of advertisement for FY 2021-22.

	Category					Gender		
	ST	SC	OBC	Gen	Total	Male	Female	Total
Total Candidates	100	19	131	0	250	133	117	250
Total Applications	172	44	265	74	555	359	196	555



COURSE NAME	TOTAL BATCHES	1ST BATCH		2ND BATCH		3RD BATCH		4TH BATCH		EXPERT PARTNERS
		Dates	Status	Dates	Status	Dates	Status	Dates	Status	
Bamboo Crafts - 400Hrs	4 Batches - 20 candidates per batch	15.11.2021 to 28.12.2021	Completed. Valedictory held at Bermiok, West Sikkim	20.12.2021 to 28.01.2022	Completed. Valedictory held at Bermiok, West Sikkim	20.12.2021 to 28.01.2022	Completed. Valedictory held at Bermiok, West Sikkim	20.01.2022 to 25.02.2022	Completed. Valedictory held at Bermiok Training Centre-I in West Sikkim	Himalayan Science Society, CBTC Assam, SBB, DHH, SABCO, SIMFED
Forest Fire Management - 300 Hrs	3 Batches - 20 candidates per batch	15.11.2021 to 16.12.2021	Completed. Valedictory held at Phodong Pachayat Bhawan, North Sikkim	13.01.2022 to 19.02.2022	Completed. Valedictory held at Melli Paiyong, South Sikkim	13.01.2022 to 19.02.2022	Completed. Valedictory held at Nayabazar, West Sikkim	NA	NA	Territorial South, Survey and Demarcation, SBB division of Forest and Environment Department
Sustain and Enhance Technical Knowledge in Solar Energy Systems - 240 Hrs	3 Batches - 20 candidates per batch	15.11.2021 to 16.12.2021	Completed. Valedictory held at Forest Conference Hall, Gangtok, East Sikkim	29.11.2021 to 31.12.2021	Completed. Valedictory of 2nd and 3rd batch held jointly	29.11.2021 to 31.12.2021	Completed. Valedictory of 2nd and 3rd batch held jointly	NA	NA	SDA, SREDA of Power Department, SMIT, SBB, NEILIT, GSES New Delhi
Beekeeping and Processing - 200 Hrs	2 Batches - 25 candidates per batch	29.11.2021 to 12.01.2022	Completed. Valedictory held at Salghari and Rateypani, South Sikkim	29.11.2021 to 13.01.2022	Valedictory held at Nalam, South Sikkim and Gangchung, East Sikkim	NA	NA	NA	NA	Sikkim Khadi and Village Industries Board, SBB and Local Bee experts
Total 4 GSDP Courses	Completed: 4	Ongoing: 0	To Start: -							
Total 12 Batches	Completed: 12	Ongoing: 0	To Start: -							
Total 250 GSDP Beneficiaries	Completed: 250	Ongoing: 0	To Start: -							

Detailed Report on GSDP Activities 2021-22 is at Annexure - III

iii. Grid Based Decision Support System (GRIDSS) - for Sustainable Management of Natural Resources (National Environment Survey – NES) / ISBIED:

Sikkim ENVIS Hub has been continuously collecting, collating and uploading discrete data in regard to 17 parameters of Indian State Level Basic Environmental Information Database (ISBEID) in consultation with about 40+ line departments.

- No of Entries done in 2021-22 so far: 1891 updates
- So far, more than 11,000 updates have been done since inception of this database.

Detailed Report on ISBIED is at Annexure - I.

Sikkim ENVIS Hub is currently working on collection and collation of secondary district-level data on 24 modules of the NES-GRIDSS. With formation of **two new districts in Sikkim State** and re-organizations of districts vide [Sikkim \(Re-organization of Districts\) Act, 2021](#) published in Sikkim Gazette dated 13/12/2021, the data compilation on NES-GRIDSS is currently being re-exercised as per re-organizations of districts.

SN	Current Districts of Sikkim	Previously
1	Gangtok	East Sikkim
2	Gyalshing	West Sikkim
3	Mangan	North Sikkim
4	Namchi	South Sikkim
5	Pakyong (<i>New</i>)	<i>New District carved out from East Sikkim</i>
6	Soreng (<i>New</i>)	<i>New District carved out from West Sikkim</i>

Thematic GIS Maps Prepared under NES GRIDSS till 2021-22

Sl.N	District	Title of the Map
1.	East Sikkim	9x9 sq km Grid Map with PA, RF, Village boundary, Bazar class, drainage etc
2.	East Sikkim	Village map of East District in 9x9 grid
3.	East Sikkim	Protected Area and Reserve Forest Map
4.	East Sikkim	Forest Density Map
5.	East Sikkim	Map showing location of Industries of East District along with Industrial air pollution data
6.	East Sikkim	Soil Type map of East District
7.	East Sikkim	Tourist spot map
8.	East Sikkim	Water Quality of Rivers
9.	East Sikkim	Wetland Map
10.	East Sikkim	Air Quality monitoring

Detailed Report on NES Module is at Annexure - II.

iv. Extension & Outreach Programmes:

Sikkim ENVIS Hub has been conducting regular awareness and sensitization activities for general public and various target groups across the State. Following activities have been conducted during the current FY 2021-22:

- Awareness on curbing Single Use Plastics under Azadi ka Amrit Mahostav on weekly basis since 12th of March 2021. Various activities have been conducted for 55 consecutive weeks during FY 2021-22 in association with local stakeholders such as School Eco-Clubs, ULBs, NGOs and local associations etc.
- Under Ek Bharat Shrestha Bharat Programme, Sikkim is paired with Delhi state, for which with collaborative efforts of Delhi and Sikkim based ENVIS centres various activities such as virtual interactive meets, online competitions, preparation of knowledge products, online surveys/ polls are being conducted on environment days like WED, Ozone Day, Menstrual and Hygiene day, Wildlife conservation day, National Bird Day, National Girl Child Day, World Wetlands Day and so on.
- About 10 webinars on various topics such as Covid and environment, earthian educators, sustainability education, climate action, phasing of SUPs, plastic waste management have been organized so far in which more than 5000 students, research scholars, ULBs, NGOs and other stakeholders participated.
- Online competitions such as quiz, essay writing, photography, short video contest, painting have been organised on two occasions viz World Environment Day (June 5) and Ozone Day (September 16) inviting 7000+ participants. E-certificates and cash prizes up to Rs 30,000 to best entries were supported by host organization. Appreciating the initiative of Sikkim ENVIS Hub, the Hon'ble Chief Minister of Sikkim Shri P S Tamang during state function on July 7, 2021 presented added cash incentives to all awardees (total 27 persons).
- Physical and social media outreach activities such as plastic pick up campaign, phasing of SUPs, signature campaign, harit Diwali swasth Diwali – clean air campaign, broadcasting of jingles in FM and Radio, swachhta pakwada, social media campaigns through broadcasting of AV messages of the Hon'ble Minister Forest Shri Karma Loday Bhutia in Facebook and YouTube channel have been conducted on regular basis on environment days.

Detailed report on Gist of activities on awareness, education, training and outreach activities is given at Section 18.

v. Networking or collaborations done at State, National or International level:

Sikkim ENVIS Hub during 2021-22 has collaborated with these organizations –

- *For GSDP* - Sikkim Khadi and Village Industries Board, SIMFED, State Biodiversity Board, Forest Department, Directorate of Handloom and Handicraft, CTBC Assam, Himalayan Science Society, JFMCs/ EDCs, Disaster Management and Mitigation entities, SREDA, State Designated Agency - Power Department, GSES New Delhi, CIPLA Unit II Pharmaceuticals Rorathang, NIELIT Gangtok, SMIT Majhitar and other government/ autonomous entities.
- *For Environment Education* – CSE, New Delhi; Earthian WIPRO Bengaluru, Echo India, Energy Swaraj Foundation, IIT Bombay, EE and SSB Divisions of MoEF&CC.
- *For Environment Awareness* – NGOs, Taxi Driver’s Associations, Urban Local Bodies, Municipal Bodies, Urban Development Department, Rural Development Departs, Police, Health, SPCB etc
- *For Knowledge Products* – with Delhi based ENVIS Hubs/ RPs for propagating outreach activities under Ek Bharat Shrestha Bharat Programme; with CPREEC ENVIS RP Chennai, and other ENVIS network PAN India.
- *For ISBEID/ NES GRIDSS* – 40 + line departments of the State.

vi. EAT Entries in PFMS

Sikkim ENVIS Hub has separate account mapped in the name of ‘State Environment Agency’ for ENVIS Scheme [2401]. All expenditures are booked through PFMS.

Status of EAT entries for last three years:

FY 2019-20	FY 2020-21	FY 2021-22
All up to date	All up to date	Up to date as on 31.03.2022 Current balance is Rs. 0.00 All funds have been successfully utilized and updated through EAT module in PFMS

- All UC, ES, Audit Report etc have been submitted for FY 2021-22
- All current expenditures are updated in EAT module of PFMS portal

Photographs (Pictorial Highlights of 2021-22)

ENVIS Publications 2021-22



104 paged special edition
January-March 2021



12 paged
April-June



12 paged
July-September



12 paged
October-December



**Launching of GSDP on four Courses on November 16, 2022
by the Hon'ble Minister Forest Shri Karma Loday Bhutia**

Extension and Outreach Activities



Activities: Propagation of Green Good Deeds, distribution of ENVIS Knowledge Products, activities under Ek Bharat Shrestha programme and Azadi ka Amrit Mahotsav focusing on curbing the use of single-use plastics.

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
OTHER REGULAR ACTIVITIES IN ACCORDANCE TO ENVIS ONGOING MANDATE : 2021-22		
A. Regular Activities: Web-based Environmental Information		
Collection and Compilation of Information and Data		
i. 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.	151 number of updates done in the subject area module of the website during 2021-22 as on 31-Mar-2022. The information content of the subject area is quoted with authentic sources.	
ii. 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.	2597 bibliography, 27 journals/ abstracts and other publications uploaded in the website.	
iii. Identification of data gaps and formulation with implementation of action plan to fill them.	1891 new data updates on ISBEID made.	
Maintenance of ENVIS Website and User Engagement		
iv. 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 244 updates per month during 2021-22. The website has now been migrated to NIC cloud server.	-
v. Query-Response/ Referral service to stakeholders.	4590+ online, postal, email and in-person queries have been handled by the ENVIS Hub during 2021-22.	-
vi. 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.	Kids corner section of the website needs attention by web admin at the server for resolving technical issues.
vii. Maintaining a disaggregated record of visitors, including unique visitors, to the Website.	Website is designed to automatically record visitor's log and is reflected in the performance chart.	-
Maintenance of ISBEID and Preparation of State of Environment (SoE) Reports		
viii. Development of time series ISBEID databases on 17 parameters (except the ones that are irrelevant to the State Centre	Time series data are regularly fed in the ISBEID system. Total 1891 number of updates were made during 2021-22 alone. Till date more than 11,000 updates have been made in the ISBEID module since inception	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
ix. Completing, updating ISBEID, notably by resolving the problem of lack of conformity between format of data available with State departments and ISBEID proformas.	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.	
x. Devising a mechanism for sourcing for ISBEID data on a continuous basis from State Departments concerned and relevant survey and research institutes country-wide.	Nodal officers from the line departments have been designated. Workshop cum meeting of stakeholders and line departments are organized to exchange of information on regular basis.	
xi. Referencing and indexing of sources data in ISBEID.	Sources of data in ISBEID are mentioned appropriately.	-
xii. Publishing State of Environment (SoE) Reports for the concerned State/UT with a periodicity of two over a five-year period.	SoE Report 2016 Sikkim has been prepared and published. The report is available in ENVIS website www.sikenvis.nic.in Sikkim ENVIS Hub is currently working on SoE Report and State Environment Atlas 2021/2022.	-
xiii. Publishing State of Environment (SoE) Reports for metro cities and hotspots.	Proposal for Ecological Hotspot Study of Gangtok City is in consideration.	Due to Covid-19 lockdown affecting early parts of 2021-22, the proposal could not be furnished.
Publications and Value-Addition		
xiv. Publishing 4 <i>Newsletters</i> and uploading the same in the relevant section of ENVIS Website.	Quarterly newsletter published and circulated country wide.	
xv. Processing/ analyzing data collected and bringing out value-added information Products	Data collected and analysis report is being regularly published ENVIS newsletter and special publications.	
xvi. Collecting books, reports and journals on the subject area; Uploading e-versions of books, reports, journals etc. on the ENVIS Website.	More than 750 e-version of the publications relating to status of environment collected from various government sources and published online. ENVIS Hub Sikkim has been hosting environment related government publications of the State.	
Reaching-out/Networking Activities		
xvii. 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	Duplicity of information in the website is carefully being handled. ENVIS Hub is referring to data and information available with other centres and hyperlinks have been placed accordingly.	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
ENVIS Website (to avoid duplication and conflicts in uploaded information).		
xviii. 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.	
xix. Maintaining a list of Experts in the subject area and uploading the same	List of experts updated in the website	
xx. 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.	
xxi. Formulate strategic plans to generate sources of funds from corporate sector and/ or through subscriptions of Newsletters/ other publications	Sikkim ENVIS Hub was supported by WIRPO Bengaluru, CSE New Delhi, IIT Bombay, Energy and Swaraj foundation during 2021-22 Mumbai for promoting environment education in about 300 schools of Sikkim State.	
B. SPECIAL ACTIVITIES		
xxii. Focus on database development (numeric and descriptive), with due authentication in consultation with Line Departments/ research institutes, etc.	Sikkim ENVIS Hub is already in sync with more than 50 line departments/ agencies/ stakeholders for collection and collation of data and information.	
xxiii. Network and undertake outreach activities with Universities/ Research bodies/ researchers in the State, so that the ENVIS collections/ repositories can be enriched.	Sikkim ENVIS Hub is a State Nodal Agency for promoting environment education with a network of 856 Eco-Clubs at 838 schools and 18 colleges. ENVIS Hub has been networking with local stakeholders, NGOs, Universities and line departments, subject experts in several research based activities.	
xxiv. 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.	
xxv. Link its Website to other Government Websites; develop the vernacular	Linkages developed with line department websites and other government websites as mandatory activity of the centre.	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Website; and undertake other awareness enhancing activities within the State.		
xxvi. 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.	
xxvii. Build institutional repositories of various types of media related to environmental issues.	Sikkim ENVIS Hub has a library that houses more than 4500 reports and publications including DVD and media collection on environment issues.	
xxviii. Bring out a Brochure on environmental issues to spread awareness about World Environment Day, focusing on forestry/ mining/ Climate Change/ disasters/ etc.	Sikkim ENVIS Hub has published several pamphlets, brochures on events and places for quick information for the users. Visitors to the ENVIS Hub are always gifted with such items.	

14. New Initiatives/ Achievements during the Financial Year (2021-22):

During the FY 2021-22, amidst Covid-19 pandemic and lockdown, Sikkim ENVIS Hub took several new initiatives through online and offline mode for disseminating environmental information, education, awareness and training of various target groups on issues of environment and its related issues pertaining to the State of Sikkim and Himalayan Region.

✓ **Prepared and published online- Sikkim Environment Plan and District Environment**

Plan: A special publication highlighting current status, and action plan Indicative Gap Analysis 2021-2025 with multi stakeholders partnership for compliance of Waste Management Rules which includes Solid Waste Management, Plastic Waste Management, Construction & Demolition Waste Management, Bio-Medical Waste Management, Hazardous Waste Management, E-Waste Management, Air Quality Monitoring, Water Quality Monitoring, Domestic Sewage, Mining, and Noise Pollution Management.



This publication is a tool for climate change mitigation for government officials, ULBs and local stakeholders and is hosted exclusively in Sikkim ENVIS Hub portal <http://sikenvis.nic.in/WriteReadData/UserFiles/file/SIKKIM%20ENVIRONMET%20PLAN%20FINAL.pdf>

✓ **Country’s first GSDP Marketing Outlet under ENVIS scheme inaugurated at Gangtok:**

Sikkim ENVIS Hub facilitated and conducted 12 fresh batches of green skill training to 250 candidates under Green Skill Development Programme (GSDP) during 2021-22 alone on four certificate courses viz. Wild Beekeeping and Processing, Forest Fire Management, Sustain and Enhance Technical Knowledge in Solar Energy Systems and Bamboo Crafts. A total of 250 candidates were trained, out of which 194 candidates are already entrepreneurs/ self-employed /in job as on 31.03.2022. A marketing outlet at a strategic location at the periphery of Forest Secretariat at Deoarli, Gangtok was inaugurated on 7th of March 2022 by the Hon’ble Minister Forest Shri Karma Loday. Bhutia and Sr. Economic Adviser Shri Arun Kumar.



See More (Video Report) at <http://sikenvis.nic.in/ViewGeneralLatestNews.aspx?Id=9856&Year=2022>

Detailed Report on GSDP Activities is at Annexure - III

- ✓ **GSDP Beekeepers first cooperative society, first of its kind in the state of Sikkim, gets officially registered** under Cooperation Department in the name of "Himali Bee Cooperative Society Ltd" by 10 GSDP beekeepers of South Sikkim who had successfully completed the green skill training course during January 2022. An inaugural programme was organized in grandeur in a remote village Rabitar at South Sikkim wherein a bee apiary with over 30 colonies was inaugurated by the chief guest on the occasion, the Hon'ble Minister Agriculture Shri L N Sharma in presence of other political dignitaries, government officers, farmers and local public. A Historic day for GSDP Beekeeping in Sikkim.



- ✓ **State level Online Competitions complimented by the State Government :** Online competitions such as quiz, essay writing, slogan writing, photography, short video contest, painting were organized for different age categories engaging students, youths and general public on two occasions viz World Environment Day (June 5) and Ozone Day (September 16) inviting 7000+ participants. Certificates and cash prizes up to Rs 30,000 to best entries were supported by host organization. Appreciating the initiative of Sikkim ENVIS Hub, the Hon'ble Chief Minister of Sikkim Shri P S Tamang during state function on July 7, 2021 presented added cash incentives to all awardees (total 27 persons). All participants were issued e-certificates through ENVIS website. (<http://sikenvis.nic.in/ViewMajorActivity.aspx?Id=8797&Year=2022>)

Government of Sikkim
Forest and Environment Department

Event Dates: JUNE 1-5, 2021
JOIN US TO CELEBRATE WORLD ENVIRONMENT DAY
ON THE THEME "ECOSYSTEM RESTORATION"
Participate and Win e-Certificates and attractive Cash Prizes

ONLINE QUIZ COMPETITION		Topic: Himalayan Ecosystem
For Primary Students till Std 5	For Students of Std 6 to 12	For College Students
1 st Prize: Rs. 5,000	1 st Prize: Rs. 8,000	1 st Prize: Rs. 10,000
2 nd Prize: Rs. 3,000	2 nd Prize: Rs. 5,000	2 nd Prize: Rs. 8,000
3 rd Prize: Rs. 2,000	3 rd Prize: Rs. 3,000	3 rd Prize: Rs. 5,000

Link is shared in website www.sikenvis.nic.in under Major Activity Section

PAINTING / DRAWING COMPETITION		SLOGAN WRITING COMPETITION	
Last Date of Submission: June 5, 2021 [5pm]		Topic: "Ecosystem Restoration" Last Date of Submission: June 5, 2021 [5pm]	
For Primary Students till Std 5	For Students of Std 6 to 12	For School Students	For College Students
1 st Prize: Rs. 5,000	1 st Prize: Rs. 10,000	1 st Prize: Rs. 8,000	1 st Prize: Rs. 10,000
2 nd Prize: Rs. 3,000	2 nd Prize: Rs. 8,000	2 nd Prize: Rs. 5,000	2 nd Prize: Rs. 8,000
3 rd Prize: Rs. 2,000	3 rd Prize: Rs. 5,000	3 rd Prize: Rs. 3,000	3 rd Prize: Rs. 5,000

Link to submit the entry is available in website www.sikenvis.nic.in under Major Activity Section

OPEN PHOTOGRAPHY CONTEST		SHORT VIDEO MAKING CONTEST	
Last Date of Submission: June 5, 2021 [5pm]		Last Date of Submission: June 5, 2021 [5pm]	
1 st Prize: Rs. 15,000	- Theme: Himalayan Ecosystem	1 st Prize: Rs. 20,000	- Theme: Himalayan Ecosystem
2 nd Prize: Rs. 10,000	- The photo must be in its original state.	2 nd Prize: Rs. 15,000	- The video must NOT exceed 7 mins.
3 rd Prize: Rs. 8,000		3 rd Prize: Rs. 10,000	

Link to submit the entry is available in website www.sikenvis.nic.in under Major Activity Section

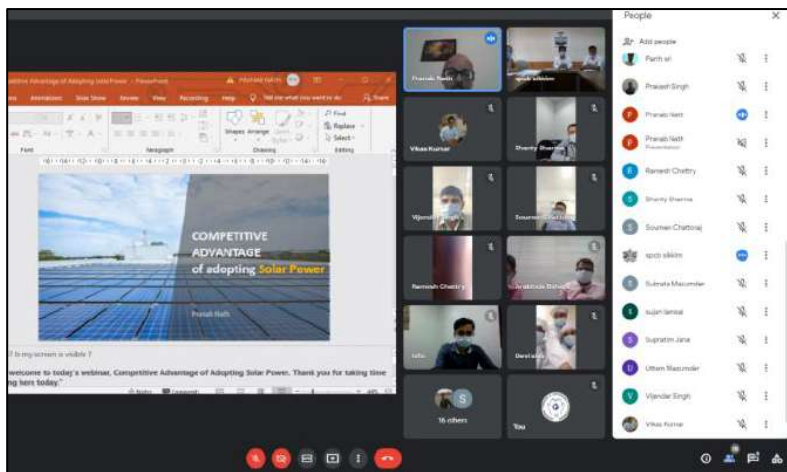
PLEASE NOTE:

- All the entries should be submitted via online form which is available at our website www.sikenvis.nic.in under Major Activity Section. Email Submissions will be NOT be considered.
- This event is for students and general public of Sikkim State only. (Residential address should be within Sikkim)
- For queries, contact 9833878286 / 9002946418 / 7538718158 / 7787810593 / 9839666488 / 9734556701

Organized by: Sikkim ENVIS Hub, Forest and Environment Department, Gangtok, Sikkim.



✓ **Webinar on competitive advantage of adopting solar power for Industrial Units of Sikkim organized:** In order to stimulate industrial and job oriented stakeholders partnership for GSDP Solar trainees with the industrial setup at Sikkim State, a webinar was organized with the Industrial unit heads on competitive advantage of adopting solar power by Sikkim ENVIS Hub in collaboration with the State Pollution Control Board Sikkim on July 9, 2021. This was for the first time that Sikkim ENVIS Hub had such interaction with the industrial units especially the pharmaceutical units of the state.



● **Azadi Ka Amrit Mahotsav activities on propagation of Green Good Deeds for 55 consecutive weeks during 2021-22:** Awareness and propagation of Green Good Deeds focusing on curbing SUPs for 75 weeks to commemorate 75 years of India’s independence under Azadi ka Amrit Mahostav has been ongoing on weekly basis since 12th of March 2021. Various activities have been conducted for 55 consecutive weeks during FY 2021-22 in association with local stakeholders such as School Eco-Clubs, ULBs, NGOs and local associations etc. An iconic week was also celebrated during October 4-10, 2021 with activities such as signature campaigns on green pledges, webinars on ill-effects of SUPs and finding alternatives, social media campaigns, broadcasting of jingles and AV messages of dignitaries in FM/ Radio/Local TV network, online competitions, banner and hoarding displays, clean up drives, plantation drives, water and energy conservation drives, street plays, capacity building activities of local stakeholders, propagation of ENVIS knowledge products and so on.



Azadi Ka Amrit Mahotsav
Gandhi Jayanti Celebration on October 2, 2021 by Forest and Environment Department and Launching of Azadi Ka Amrit Mahotsav Iconic Week (October 4-10, 2021)

- ✓ **Outreach Activities for curbing Single Use Plastics and drafting/ finalization of State Policy – Ban on Plastic Packaged Water Bottles:** The campaign was hugely propagated through online and offline mode reaching about 55000+ people of different age groups of urban and rural community. The online competitive event organized alone was participated by over 10,000 youths. Awareness through webinars reached more than 20,000 students, a ppt on SUP was shared amongst 800+ eco-club at schools and colleges. About 20 local associations and ULBs was mobilized for mass public participation (approx. 20000) including producers, marketing agencies, distributors and consumers on the ill-effects of SUPs and its need for proper management and disposal. Around 5000 participants across the state also actively took part in the riverfront, roadside plastic litter pick up campaign. Sikkim ENVIS Hub in coordination with mutli-stakeholder partnership drafted the policy on state-wide ban on plastic packaged water bottles as a pollution abatement measure and compiled views, suggestions and comments from general public and submitted to the government for policy decision. **Impact/ Outcome:** The campaign reached over 20 rural and urban communities across the state; Around 1500 sets of masks, gloves hand sanitizers were distributed to poor under privileged and frontline/ safai karmacharies/ local volunteers; workers; About 60 sets of green and blue bins for waste segregation were installed at public places across the State; The plastic litter pick up campaign organized through public participation across the state collected and safely disposed about 4000kg of plastic litter from along roadside, drains, riverfront, trek trails; 1000 mainline taxi vehicles were provided garbage bags; More than 10,000 persons took part in the signature / green pledge campaign; The funds for this campaign was supported through Swachhta Action Plan 2021-22; Sikkim as a state was effected with state-wide ban on plastic packaged drinking bottles up to 2 liters from 1st January 2022; The campaign resulted in promoting eco-friendly alternatives to SUPs such as bamboo and other bio-degradable products through the GSDP Marketing Outlet which was indurated on March 7, 2022.



- ✓ **EK Bharat Shrestha Bharat Programme conducted:** Under EBSB programme Sikkim ENVIS Hub partnered with Delhi based ENVIS Hubs/ RPs to enhance interaction and promote mutual understanding between people of different States/UTs through the concept of State/UT pairing. To carry out activities under the programme, ENVIS Hubs and RPs at Sikkim and Delhi through mutual consultation and mutual engagement conducted virtual interactive meets, prepared knowledge products and jointly conducted sensitization and awareness drives to generate the vibrancy of understanding and appreciation amongst the people and forged mutual bonding, thus securing an enriched value system of unity in the nation. Interactive meets, webinars, survey and opinion polls, photography and short video contests, preparation of propagation of knowledge products on culture, wildlife, wetlands, birds biodiversity, hygiene and sanitation, energy conservation, climate change issues etc were conducted on environment calendar days such International Biodiversity Day, World Menstrual Day, National Bird Day, Wetlands Day, Wildlife Conservation Day, World Forestry Day and so on.



- ✓ **Green Campus Audit conducted:** Sikkim ENVIS Hub has established a green audit framework for facilitating self and joint assessment of educational institutions (schools and colleges) of the state. During 2021-22, a green audit assessment and reporting was done for Nar Bahadur Bhandari Government College, Tadong, Gangtok for the period 2016-2021. The purpose of the green audit was to identify the best practices and provide recommendations to the college authority for an effective environment management system in terms of current practices and green policies followed to improve the quality, usage, sustainability of Land, Air, Water, Energy and Waste Resources within the campus. The green audit is a requirement of NAAC (National Assessment and Accreditation Council) assessment of the colleges for UGC accreditation.



- ✓ **Performance Audit achievement:** The office of Principal Account General (Audit), Sikkim conducted performance audit of Sikkim ENVIS Hub activities for the period 2016 to 2022 i.e till FY 2021-22. The audit certificate presented by the audit officer on 21/04/2022 is placed under. Appreciating the livelihood based activities of ENVIS in creating self-employment through GSDP training programs such as beekeeping, bamboo crafts, forest fire management and solar energy systems, the other divisions of the host organization i.e Forest and Environment Department, Government of Sikkim has been suggested to follow the methods adopted by ENVIS to provide green skill training to assure livelihood security.



Office of the Principal Accountant General (Audit), Sikkim

Lekha Pariksha Bhawan, Deorali, Gantok-737102

Performance Audit of ENVIS wing was taken up for the period 2016-22 in relation to Afforestation Programme and work done by ENVIS towards providing livelihood based self-employment training in various areas such as bee keeping, bamboo craft, use of Forest bye products for making plates etc and avoiding Forest fire, Training in Solar Energy etc. The training imparted by ENVIS was useful and fund was efficiently utilised. The impact of training was also appreciable as many participants got employment. Other division of Forest Department can follow method adopted by ENVIS to provide training to assure livelihood security.

To,

Director, ENVIS

Forest Department

Government of Sikkim, Deorali

V. C. P. Prakash Singh
Asstt. Audit Officer/PA-Team

NAKASH GUPTA
Asstt. Audit Officer
Principal Accountant General (Audit)
Deorali, Sikkim 737102

15. Date and Report of most recent physical verification by the Ministry:

- **Date:** March 7-8, 2022 by Shri Arun Kumar, Sr. Economic Adviser (*during the inaugural of country's first GSDP Marketing Outlet under ENVIS scheme at Gangtok and interaction with GSDP participants and ENVIS Sikkim team.*)

Report on the Visit of Shri Arun Kumar, Sr. Economic Advisor/ Addl. Secretary, Economic Division, MoEF&CC to Sikkim for the Inaugural of GSDP Marketing Outlet and Meeting with Participants including Site Visits of GSDP Training Sites on March 7-8, 2022

Date/Time: March 7, 2022

Venue: Forest Secretariat Block C, Opposite Siliguri Taxi Stand

Organised by: Sikkim ENVIS Hub, Forest and Environment Department



Marketing Outlet of GSDP Beneficiaries at Forest Secretariat Inaugurated

The Honourable Minister Forest Shri Karma Loday Bhutia and Shri Arun Kumar, Senior Economic Adviser of the Ministry of Environment, Forest and Climate Change, Government of India today inaugurated the GSDP marketing outlet of Sikkim ENVIS Hub at Forest Secretariat premises in Deorali, Gangtok. The inaugural function was also attended by Chief Conservator of Forest Shri N W Tamang, Conservator of Forest (Territorial) Shri Karma Legshey, Director of Forests Shri B B Gurung, Director of Science & Technology Shri D. T. Bhutia, Joint Director Mrs Kusum Gurung along with team of Sikkim ENVIS Hub and about 60 GSDP beneficiaries and subject experts from across the state.

The marketing outlet featuring the products of Green Skill Development Programme includes bamboo crafts, organic honey and beekeeping tools, briquettes, organic manure and skilled manpower resources for outsourcing services for solar PV installation and so on. The products displayed for sale in this outlet are prepared by green skilled manpower from rural communities. The outlet intends to provide marketing opportunities to these beneficiaries for generating a source of livelihood through sustainable development initiatives. So far 425 local

youths, school dropouts and farmers from Sikkim State have been benefitted through the Green Skill Development Programme under the ENVIS scheme funded by the Ministry.

Speaking on the occasion, the Minister expressed gratitude to the Ministry for the continued support and encouraged the beneficiaries to continue producing marketable products by harnessing the green skills acquired. Sikkim ENVIS Hub has been implementing four GSDP courses namely forest fire management, beekeeping, bamboo crafts and solar energy systems since 2019-20.

Shri Arun Kumar, Senior Economic Adviser of the Ministry of Environment, Forest and Climate Change who is on a two day visit to Sikkim ENVIS Hub also interacted with the GSDP participants and took stock of ENVIS activities in the State. Appreciating the overwhelming feedback from the GSDP participants and Sikkim ENVIS team Shri Arun Kumar in his address mentioned that the objectives of the ENVIS scheme are being delivered to satisfaction.

Subject experts such as Biodiversity and livelihood expert Dr Bharat Kumar Pradhan, Dr Tika Prasad Sharma, Shri Tseten Tashi Lepcha also spoke on the importance of ENVIS scheme in the state and highlighted its contribution in several R&D activities through publication of knowledge products, information dissemination, livelihood support activities and so on, all forming important part of environment conservation and protection activities in the state.

Earlier, the dignitaries during the inaugural of marketing outlet also presented 100 garbage bags for mainline taxi vehicles through the Indira Bye Pass Taxi Driver's Association as a part of ongoing Plastic Waste Awareness Week. The dignitaries also launched the signature campaign on green pledges as a part of the campaign steered Sikkim ENVIS Hub, Forest and Environment Department.



The post lunch session was followed by visit to the office of Sikkim ENVIS Hub, wherein a detailed discussion through presentation on ENVIS activities was made. The Senior Economic Adviser interacted with the ENVIS officers and staff and took stock of ENVIS knowledge products, status of ISBEID database, outreach activities conducted, status of funds and achievements of ENVIS so far. The Senior

Economic Adviser appreciated the efforts and activities conducted and remarked that Sikkim ENVIS Hub has been befittingly been owned up by the state host organization and the state government.

The Senior Economic Adviser then also visited the ENVIS Resource Partner on "Ecotourism" at Science and Technology Department, wherein ENVIS activities on the designated theme was discussed and elaborated by the team. The Senior Economic Adviser stressed on given more emphasis on the theme assigned and suggested the ENVIS RP to widen the activity on PAN India level.



Day 2: March 8, 2022

Agenda: Visit to GSDP Training Sites (Beekeeping) at Rateypani, South Sikkim



The Senior Economic Adviser was escorted to GSDP Beekeeping training site at Rateypani, South Sikkim wherein he interacted with the local expert Mr Youl Rai and collaborating partner FPO representative Mr Amber Tamang while inspecting the training venue and products.



Later in the evening, Sr EA had a meeting with the ACS-cum-PCCF Shri M L Srivastava at his chamber accompanied by Sikkim ENVIS Hub team, wherein importance of ENVIS scheme was discussed and deliberated. ACS-cum- PCCF stressed on continued support from the Ministry stating that Sikkim ENVIS Hub has been doing well since inception. Sr EA

agreed and assured that he would be taking positives to the Ministry for the continued support.

16. Status of Existing Hardware/ Inventory/ Record Registers:**i. Current Hardware Details**

Currently, Sikkim has four desktop systems, out of which three are and one old system is condemned. Details are as under:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant 2013-14	Desktop Computer – 1 No	HP AIO Intel Core i5, 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)

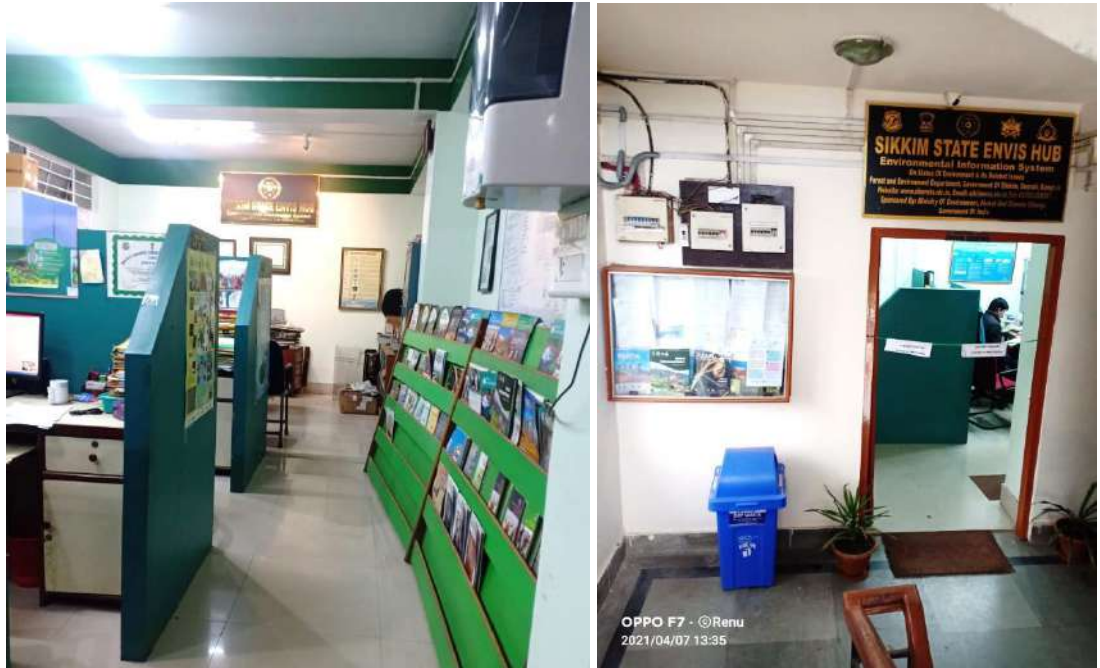
Condemnation: One of the computer systems (PIV, 1 GB RAM, 80 GB HDD, 14” CRT Monitor) procured under ENVIS scheme during 2002-03 is not functional and is condemned for disposal.

ii. Labelling of each of Hardware and other equipment purchased under ENVIS Budget

Labelling of Hardware procured from ENVIS	Issued to
ENVIS #1 (C) – Compaq PIV Desktop	Sr. Programme Officer
ENVIS # 2 (C) – HP AIO Core i5 Desktop	Sr. Programme Officer
ENVIS #3 (C) – Dell PC	Information Officer
ENVIS #4 (P) – Laserjet Printer (All in one)	Sr. Programme Officer
ENVIS #5 (P) – HP Colour Laser Jet Pro MFP Printer M176n	IT. Officer
ENVIS #6 (UPS)	Sr. Programme Officer

Labelling of Hardware provided by Host	Issued to
HOST #1 (C) – HP (All in one) Desktop	IT. Officer
HOST #2 (C) – Lenova	DEO
HOST #3 (P) – HP Laser jet1200	Information Officer
HOST #4 (P) – HP Laserjet P1106	IT. Officer
HOST #5 (P) – EPSON	DEO
HOST #6 (P) – A3 laser jet photocopier	DEO
HOST #7 (UPS)	Information Officer
HOST #8 (UPS)	IT. Officer
HOST #9 (UPS)	DEO

Office Infrastructure including tables, chairs, inverter, telephone etc all has been provided by the host organization.



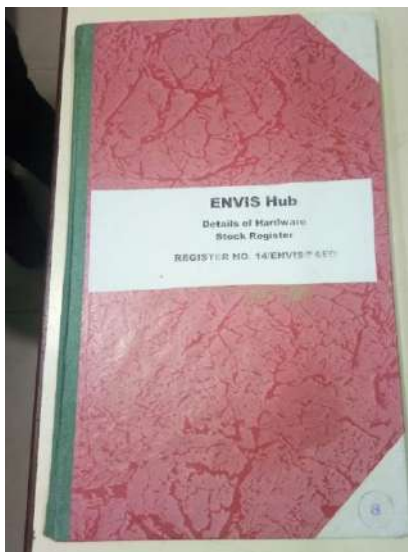
Office of Sikkim ENVIS Hub



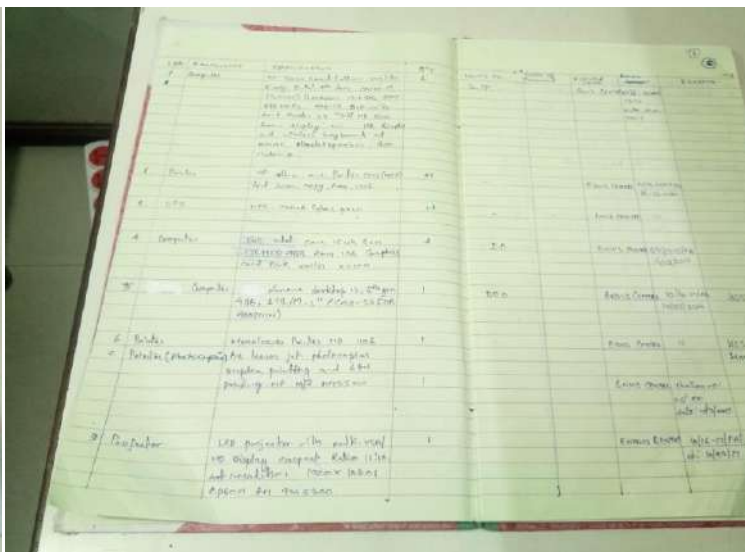
Labelling of hardware (sample photo)

iii. Updation of Asset Register/Stock Register

All the procurements including stock and its inventory are maintained in Register No 14/ENVIS (Hardware) and 54/ENVIS (Stationeries) kept in the office.



Stock Register No. 14/ENVIS (Sample photo)



Stock Register (Inside) -

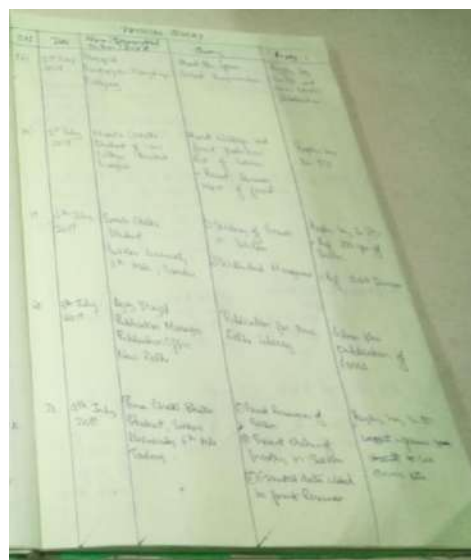
iv. Visitors Register (physical/telephonic/online)

Sikkim ENVIS Hub records visitor's feedback in Visitor Log Book/ Register maintained by the center.


Visitor's seeking data and information are to fill up a Query Form separately as well. A sample copy of the filled-in query is show below.




Visitor Log Register (Sample photo)



Visitor Log Register (Inside)



ENVIS Centre SIKKIM
 (On Status of Environment & its Related Issues)
 Forest, Environment & Wildlife Management Department
 Government of Sikkim, Gangtok



जहाँ से हरियाली ।
 वहीं से खुशहाली ॥

Sponsored by
 The Ministry of Environment & Forests, Government of India

QUERY FORM

Name : Sanghama Chellai
 Designation : Master Student (M.Sc)
 Organization : Nau Bahadur Bhandari Degree College
 Address : Lingling, Lower Sichey
 Phone No : 6297456316
 Email ID : schellai415@gmail.com

Your Queries

I'm looking for the book
'Tree of Sikkim' to refer
so that I could take some
information about the trees of
Langtok area.

21/02/2022
J.

Date of Submission: 21/02/2022

Visit Us At
 Website URL: www.sikervis.nic.in
 Email ID: sik@envis.nic.in

① Please email link of biodiversity of Sikkim Report.
 ② Dictionary of Flowering Plant
 ③ Heritage Trees of Sikkim

2/50
 11

Mail Query reply on 23/02/2022
Rf
23/02/2022

Snapshot of filled-in query form (sample)

17. Status of utilization of grant during the financial year 2021-22 as on 31-Mar-2022 and reasons for shortfalls, if any:

ENVIS RECURRING GRANT 2021-22

SN.	Sanctioned Object Head	Amount Sanctioned (in Rs.)	Expenditure incurred (in Rs.)	Available Balance (in Rs.)
1	Manpower	15,82,409	15,82,409	0
2.	Others (Database development, website maintenance, printing of Newsletters & Prakriti Map, contingency, stationery, consumables, AMC, Internet charges, training, inter-centre interaction workshops, expenses on monitoring, ISBEID Database development, Mobile App Development etc.)	4,65,300	4,65,300	0
3.	Travel etc.	1,50,000	1,50,000	0
Total		21,97,709	21,97,709	0

GSDP COURSES 2021-22

SN.	Sanctioned Object Head	Sanction Details (in Rs.)	Expenditure incurred (in Rs.)	Balance (in Rs.)
1	Value Addition and Marketing of NTFPs (Animal Origin): Wild Beekeeping and Processing – NSQF level 5, 200 Hrs (25 says), 25 candidates – 2 batches	Sanction No. 11/3/2021-Eco-D dated 03/09/2021 Rs.10,24,500/- X 2 batches = Rs 20,49,000	20,49,500	0
2.	GSDP Course: Value Addition and Marketing of NTFPs (Plant Origin)- Bamboo Crafts 400Hrs (45 days) 20 candidates NSQF level 5 - 4 batches	Sanction No. 11/3/2021-Eco-D dated 10/09/2021 Rs.14,88,080/- X 4 batches = Rs.59,52,320/-	59,52,320	0
3.	GSDP Course: Forest Fire Management 300Hrs (36 days) 20 candidates NSQF level 5 - 3 batches	Sanction No. 11/3/2021-Eco-D dated 10/09/2021 Rs.13,38,480/- X 3 batches = Rs.40,15,440/-	40,15,440	0
4.	GSDP Course: Sustain and Enhance Technical Knowledge in Solar Energy Systems 240Hrs (30 days) 20 candidates NSQF level 5 - 3 batches	Sanction No. 11/3/2021-Eco-D dated 10/09/2021 Rs.12,83,200/- X 3 batches = Rs.38,49,600/-	38,49,600	0
All GSDP Total (12 batches)		Rs. 1,58,66,360	1,58,66,360	0


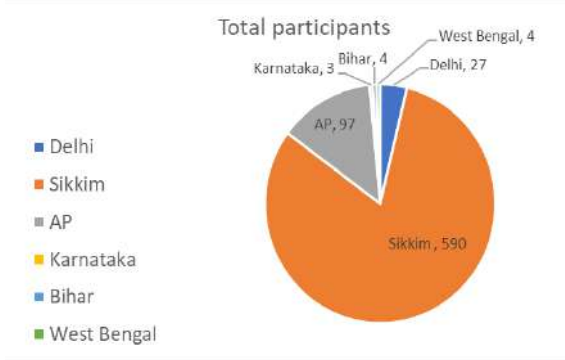


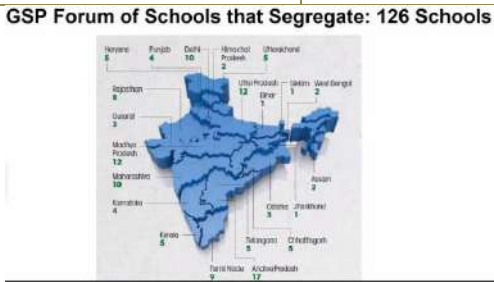
18. Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22

(Titles of Programmes, content and coverage of topics, Relevance of the theme, number of participants)
Date/ Month -wise

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
1.	April 1, 2021 to March 31, 2022	Azadi Ka Amrit Mahotsav – Propagation of Green Good Deeds (ongoing till 18 th August 2022 for 75 weeks since 12 th March 2021)	Awareness and propagation of Green Good Deeds focusing on curbing SUPs, nature conservation and climate action for 75 weeks to commemorate 75 years of India’s independence under Azadi ka Amrit Mahostav has been ongoing on weekly basis since 12 th of March 2021. Various activities have been conducted for 55 consecutive weeks during FY 2021-22 in association with local stakeholders such as School Eco-Clubs, ULBs, NGOs and local associations etc.	More than 50,000 students, youths and general public participated in a 55 week- long event (still ongoing). About 200 schools in Sikkim, one village in West Sikkim namely Gerethang and several communities have declared their local area as SUP litter free/ plastic free zones. Green Good Deeds were propagated in 800+ schools across the state.
 <p>All the weekly reports from 1st week (12th March 2021 onwards) and upcoming weeks can be accessed from link below https://drive.google.com/drive/folders/196Bw3lcmLlqE0Wa8gbKMpNaoqjPAUS2j?usp=sharing</p>				
2.	April 22, 2021	Celebration of Earth Day 2021 with the theme –‘Restore Our Earth’	Celebrating Earth Day with the theme – ‘Restore Our Earth’, Sikkim ENVIS Hub, amidst lockdown coordinated events wherein eco-club students and teachers were encouraged to do small activities such as preparation of reusable face mask, turning off water and lights when not in use, talking about planet earth with littlest learner in family, switching out single-use plastics for reusable alternatives, celebrating outdoors virtually by enjoying nature and environment shows in TV, social media, gardening and composting activities.	About 500 Eco-Club schools participated wherein 15000 plus students, teachers and non-teaching staff were involved in the sensitization drive.
				


Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
3.	May 18, 2021	Ek Bharat Shrestha Bharat Programme – Virtual Interactive Meet of Sikkim and Delhi School	A virtual interactive meet of school eco-clubs of Delhi and Sikkim State was organized on May 18, 2021 as a part of Ek Bharat Shrestha Bharat Programme for sharing local knowledge, culture, tradition and best environmental practices. The event was jointly organized by Sikkim ENVIS Hub, WWF ENVIS RP Delhi and SPA ENVIS RP Delhi of the Ministry of Environment, Forest and Climate Change.	The event was also hosted live in YouTube platform and was actively participated and witnessed by 500 plus teachers and students of Delhi and Sikkim State. Mr Raunak Raj class X student of Vidya Niketan School, Delhi and Ms Kezia Chettri class X student from Government SSS Singtam made beautifully power point presentation about Delhi and Sikkim respectively.
4.	May 20, 2021	Celebrating World Bee Day 2021 (May 21)	The skilled bee farmers under the Green Skill Development Programme (GSDP) 2020-21 batch actively participated in social media awareness campaign to promote conservation and protection of honey bees. The bee farmers conducted cleaning of bee hives, plantation of mustard and flowering plants as fodder for the apiary. The event through small field oriented actions aimed to strengthen measures aimed at protecting bees and other pollinators, which significantly contribute to solving problems related to the global food supply.	The event raised awareness of the importance of pollinators, the threats they face and their contribution to sustainable development and livelihood support.

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
5.	May 22, 2021	Celebration of International day for Biological Diversity – State level online Quiz competition and Webinar	Sikkim ENVIS Hub in collaboration with Sikkim Biodiversity Board organized Online Quiz Competition for Sikkim students of class VI to class XII and conducted a webinar series on the theme 'We're part of the solution'	Total 475 students participated in a 20minute live quiz. About 60 stakeholders and individuals took part in the webinar. Top three quiz winners were provided cash prizes and all participants were issued e-certificates.
6.	May 27, 2020	Celebrating World Otters Day 2021	Sensitization about Himalayan otters. Out of 13 species in the world, Sikkim is home to 3 species which has highlighted in the poster. An article was brought out in the ENVIS quarterly newsletter (Apr-Jun) 2021-22.	About 500 school students were sensitized in an awareness drive led by otter research expert Sunita Khatiwara. An article was published in the Sikkim ENVIS quarterly newsletter (Apr-Jun) 2021-22 for further sensitization.

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
7.	May 28, 2021	Ek Bharat Shrestha Bharat Programme – Menstrual Hygiene Day observed with online survey on awareness level and sensitization drive	Sikkim ENVIS Hub and Sulabh ENVIS RP Delhi joined hands under EK BHARAT SHRESHTHA BHARAT program to celebrate Menstrual Hygiene Day 2021. Girls in school and in rural background face problem of menstrual hygiene due to lack of awareness. Sulabh ENVIS RP works on personal hygiene under its thematic area and through a simple questionnaire, an online survey was conducted for Sikkim and Delhi along with few other states to see the knowledge and also increase awareness of school going girls studying in Std VIII and above.	The campaign reached 800+ students and on analysis of the reports was conducted wherein it was found that as the standards of education increases, the awareness level of participants' increases. Out of 590 participants from Sikkim, 507 were female and 83 male. Detail analytical report was published in ENVIS Newsletter.
				
				
8.	May 28, 2021	Capacity Building and Orientation of WIPRO Earthian Educators	A capacity building and orientation on WIPRO Earthian Educators programme was organized by Sikkim ENVIS Hub in collaboration with earthian WIPRO wherein over 60 green teachers from across the state participated.	The programme created a network of teachers for conservation movement focusing on three sustainability topics Water, Biodiversity and Solid Management . Total 61 green teachers from eco-clubs across the state volunteered for the Earthian Educators programme.
				
9.	June 2, 2021	Capacity Building and Virtual Workshop on Managing Solid Waste	Sikkim ENVIS Hub attended a virtual workshop on Managing Solid Waste organised by Centre for Science and environment (CSE) New Delhi on June 2, 2021. The workshop intended to create of network on model schools across the country on effective waste management practices.	Total 126 schools from various States have registered in this initiative amongst which one school from Sikkim namely Government Sr. Secondary School from Namchi, South Sikkim have shown active participation.
				
				

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
10.	June 5, 2021	Celebrating World Environment Day on the theme – Ecosystem Restoration (Online events)	Celebrating World Environment Day, Sikkim ENVIS Hub organized online competitive events such as paintings, essay, photography, short video etc for students and general public to generate awareness on conserving Himalayan Ecosystem. Certificates and cash prizes up to Rs 30,000 to best entries were supported by host organization. All participants were issued e-certificates through ENVIS website. (http://sikenvis.nic.in/ViewMajorActivity.aspx?Id=8797&Year=2022)	Over 7000 students and general public participated. Appreciating the initiative of Sikkim ENVIS Hub, the Hon'ble Chief Minister of Sikkim Shri P S Tamang during state function on July 7, 2021 presented added cash incentives to all awardees (total 27 persons). Best entries were published in ENVIS website and newsletter.
		<p>For details, click the link below http://sikenvis.nic.in/ViewMajorActivity.aspx?Id=8797&Year=2022</p>		
11.	July 1-7, 2021	Celebrating Van Mahotsav (July 1-7) and A Day for Mother Earth 2021 (July 7) on culminating day	A programme witnessed state-wide stoppage of vehicles for 7 minutes from 11am to 11.07am on July 7, 2021 along with mass public participation in plantation and cleanup drives, awards and felicitations of online event awardees and covid-19 frontline warriors, book and poster releases, release of special ENVIS publication 'PANDA' 2021 and presentation of Rajya Van Samrakshan Evam Paryavaran Puraskar 2021.	Entire state participated in this climate action. The major and unique feature of stopping all vehicular movement except emergency and essential services for seven minutes from 11.00 am to 11.07 am on July 7, 2021 and was dutifully participated by the nature loving people of the State.
		<p>Detail Report at http://sikenvis.nic.in/ViewGeneralLatestNews.aspx?Id=8819&Year=2021</p> <p>Event Video link: https://youtu.be/Y6SRd3oonb4</p>		


Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
12.	July 9, 2021	Webinar on competitive advantage of adopting solar power for Industrial Units of Sikkim organized	In order to stimulate industrial and job oriented stakeholders partnership for GSDP Solar trainees with the industrial setup at Sikkim State, a webinar was organized with the Industrial unit heads on competitive advantage of adopting solar power by Sikkim ENVIS Hub in collaboration with the State Pollution Control Board Sikkim on July 9, 2021.	About 40 industrial units of Sikkim participated wherein mutual partnership was brought out in giving industrial exposure to GSDP solar trainees and provide employment opportunities in solars PV sectors
				
13.	September 1-30, 2021	4th Rashtriya Poshan Maah observed	Celebrating the 4 th Rashtriya Poshan Maah with the theme “Converging towards a healthy walk-through life”, Sikkim ENVIS Hub in coordination with Eco-club schools, NTFP and SMBP boards carried out plantation activities on POSHAN VATIKA and conducted awareness programme to sensitize children and general public on the importance and uses of herbal plants and also on the benefits of taking balanced and nutritional diet.	Host organization conducted free distribution of medicinal plants to public at district level under the programme banner AYUSH AAPKE DWAR. Saplings of medicinal plants were distributed across the State through booths installed at Kabi area to Mangan Bazaar and Pentok at North Sikkim; Rhenock and Pakyong at East Sikkim and Jorethang at South Sikkim.
				
14.	September 16, 2021	Webinar and Online Quiz on World Ozone Day 2021	Sikkim ENVIS Hub on the occasion of World Ozone Day organized a webinar for school eco-clubs on the topic Earth 2100 – A glimpse into the future from the climate change perspective . The webinar was conducted as an awareness build-up exercise and to celebrate and acknowledge the Montreal Protocol and its Kigali Amendment in its wider efforts to keep us, our food, and vaccines cool. An online interactive quiz for Green Teachers of Sikkim Eco-Clubs School was also organized towards the end of the webinar.	About 2500 students from about 500 school eco-clubs across the state participated and conducted follow up activities such as plantation drive on Poshan Vatika, cleanliness drive in school premises, painting competition, slogan writing and poster making competition, students and teachers also delivered speeches on the day's importance.
				

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
15.	September 30, 2021 to October 1, 2021	2nd edition of Youth Climate Conclave coordinated at State (Online/ Webinar) 	Sikkim ENVIS Hub and Sikkim Eco-Club School participated in the 2 nd edition Youth Climate Conclave (YCC) organized virtually by the delegation of European Union to India with TERI, GIZ, CEEW and MoEFCC. Shri Lomas Dhungel, Green Teacher from Makha Senior Secondary School presented success and case studies on Eco-club activities.	The 2 nd edition of Youth Climate Conclave was organized from 29 September to 1 October 2021 envisaging as a platform for a competitive and educative mode of action wherein youth from across the country were invited to join hands to address issues of climate change.
16.	October 2-10, 2021	Gandhi Jayanti – Launching of iconic week celebration under Azadi Ka Amrit Mahotsav focusing on awareness to curb SUPs	Celebrating Azadi Ka Amrit Mahotsav to commemorate 75 years of Independence, Sikkim ENVIS Hub, Forest and Environment Department observed and steered an iconic week celebration from October 2 to 10 in coordination with School Eco-clubs, local associations, ULBs and stakeholders focusing on awareness to curb single use plastics, to promote conservation and protection of wildlife and water resources. The weeklong event was launched at Forest Secretariat premise on October 2 on the occasion of Gandhi Jayanti with signature campaign on green pledges followed by clean up drive.	Over 55000 students, youths and general public from across the state participated in the campaign. ENVIS Media Published links: <ul style="list-style-type: none"> - https://www.youtube.com/watch?v=W_MMBnbwMOg&t=2s - https://fb.watch/8o-l-hu7Yb/ - https://fb.watch/8zRleZpggU/ State Government announced blanket ban of plastic water bottles from January 1, 2022; Annual cash awards up to Rs 10 lakh for cleanest towns and villages announced.



Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
17.	October 29 to November 3, 2021	Swachha Hawa Campaign - Harit Diwali Swasth Diwali- Clean Air Campaign	ENVIS Hub in collaboration with several line departments and stakeholders, Taxi Driver's Association, urban and local bodies across the State conducted week long swachhata activities such as clean up drives, sensitization on clean air (avoiding firecrackers, burning of waste), household waste segregation and management, awareness on covid-19 precautionary measures, promotion of local culture and traditional celebration etc.	Minimal Pollution (Air and Noise) was observed during Deepwali festival 2021. Click here for analytical report by ENVIS Video Message http://sikenvis.nic.in/ViewPastEvent.aspx?Id=8836&Year=2021 Social media activities, video appeal of Hon'ble Minister, broadcasting of jingles through FM, propagation of Green Good Deeds conducted. Over 20,000 students and youths participated.
				
18.	November 19, 2021	Ek Bharat Shrestha Bharat Programme – World Toilet Day (Awareness)	Sikkim ENVIS Hub and Sulabh ENVIS RP Delhi prepared and published a video compilation on history of toilets for general public awareness. Video link: https://www.youtube.com/watch?v=AoRmeXq6ah0&t=12s	The video was circulated to 850+ schools and published in YouTube for general public..
19.	November 26, 2021	Celebration of Constitution Day	Constitution Day also known as <i>Samvidhan Divas</i> was celebrated on 26 th November, 2021 to promote constitution values among citizens in coordination with school/ college eco-clubs and other stakeholders across the State.	Participated across the state by government officers and staff and schools in a campaign coordinated by Sikkim ENVIS Hub amongst with its network partners/ stakeholders. About 800+ schools participated.
				

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
20.	December 1-15, 2021	<p>Swachhta Pakhwada</p> <p>Detailed report on can be seen at http://sikenvis.nic.in/ViewGeneralLatestNews.aspx?id=9843&Year=2021</p>	<p>Sikkim ENVIS Hub, Forest and Environment Department, the State Nodal Agency (SNA) for implementing Swachhta Action Plan 2021-22 observed Swachhta Pakwada during December 1-15, 2021 across the state in compliance to the directions from the SSB cell of the Ministry of Environment, Forest and Climate Change, Government of India. During the Swachhta Pakwada several awareness activities on curbing Single Use Plastics (SUPs), awareness on air and water pollution were conducted in coordination with ULBs, Panchayats, Local Associations, SHGs, School Eco-Clubs with active participation from local youths and volunteers.</p>	<p>Clean up drives, plastic litter pick up drives were conducted along roadsides, jhoras and nallahs. Awareness through propagation of Green Good Deeds were conducted through jingles for promoting eco-friendly way of life focussing on plastic waste management, waste segregation practices at source, practices to Reduce, Reuse and Recycle, hugging the tree campaign for school children for instilling love towards Nature in young minds and so on. Over 50,000 general public participated.</p>
21.	December 4, 2021	<p>Ek Bharat Shrestha Bharat Programme – Wildlife Conservation Day (Awareness)</p>	<p>WWF ENVIS RP, SULABH ENVIS RP and SIKKIM ENVIS HUB, under Ek Bharat Shrestha Bharat Scheme jointly prepared a report highlighting various initiatives taken by Government of India towards wildlife conservation in the country..</p>	<p>The report has been published in ENVIS website.</p>

Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
22.	January 5, 2022	Ek Bharat Shrestha Bharat Programme – National Bird Day (Online Photography contest) 	Sikkim ENVIS Hub and WWF ENVIS RP under “Ek Bharat Shrestha Bharat” programme celebrated National Bird Day with online photography contest. We had received 200 entries from participants across PAN India. In this regard, we have prepared a report that contains information about the bird species based on the photographs and write-up as submitted by the participants.	About 200 entries were shortlisted from Sikkim, Delhi and other parts of the country. More than 500 youths participated and pledged to practice curbing the use of Single Use Plastics in daily life. Report at: https://drive.google.com/file/d/1O9yak3RcHFpYsv5DaCxTaiRiyQ_u6B_JF/view?usp=sharing
23.	February 2, 2022	World Wetlands Day (Awareness and Online Short Video story competition under Ek Bharat Shrestha Bharat Programme)	To sensitize general public about wetland conservation a short video competition (online), awareness and clean up drives were conducted at physical level at wetland periphery at West and East Districts supported with ENVIS posters and other knowledge products.	Over 50 short videos received in the online competition. Physical activities collected over 1000kgs of plastic waste litter from the adjoining villages and lake surroundings of about 5 kms.



Gist of Other Activities [Awareness/ Training/ Outreach Activities] Conducted by Sikkim ENVIS Hub during 2021-22				
SN	Date	Programme Title	Content and coverage	Impact and Outcomes/ No. of participants and Method of dissemination
24.	February 16, 2022	Departmental Press Conference organized by Sikkim ENVIS Hub 	A Departmental Press Conference was organized by Sikkim ENVIS Hub upon direction to address various public issues, grievances and clarify on issues being circulated in public domain through social media over past few months.	Report at http://sikenvis.nic.in/LatestNews/Archive.aspx?id=9853&Year=2022
25.	February 25, 2022	Webinar under Ek Bharat Shrestha Bharat Programme on Mainstreaming Climate Action into Development Policies and Strategies -	A webinar on “ Mainstreaming Climate Change into Development Policies and Strategies ” was organized as a part of EK Bharat Shrestha Bharat programme on 21 st March, 2022 jointly with TERI ENVIS RP Delhi with the objective of enhancing interaction and promoting mutual understanding between different State/region on issues of climate change adaptations with sustainable polices and strategies to make the SDG Goals 2030 a reality.	About 51 experts participants from various stakeholders of Sikkim participated. The webinar concluded with the consensus that there is a need of involvement of local communities in policy decision making.
				
26.	March 7, 2022	Interactive Meeting between Sr EA, MoEF&CC and GSDP Participants post training	Shri Arun Kumar, Senior Economic Adviser of MoEF&CC during his two day visit to Sikkim ENVIS Hub interacted with the GSDP participants and took stock of ENVIS activities in the State.	Appreciating the overwhelming feedback from the GSDP participants and Sikkim ENVIS team Shri Arun Kumar in his address mentioned that the objectives of the ENVIS scheme are being delivered to satisfaction.
				

19. ENVIS Output-Outcome Details and its Impact over past five (5) years:

Major Achievements of Sikkim State ENVIS Hub

1. Received **National Award** as ‘**Best State ENVIS Centre 2014-15**’ from the **Ministry of Environment, Forest & Climate Change**. Sikkim ENVIS was tagged as ‘**GURU CENTRE**’ during 2012-13 by the Ministry to take a lead role in providing assistance to other ENVIS network of the country.
2. Sikkim ENVIS Website hosts major publications of the government such as State of Environment Report, State Environment Plan, Climate Change of Sikkim, Biodiversity of Sikkim, Rapid Biodiversity Surveys, collection of Journals and Scientific Papers, Environment Initiatives/Policies of the State Government, etc.
3. The implementation of Environment Education, Awareness and Training amongst school eco-clubs have brought several national awards to Sikkim Schools conferred by reputed agencies like CSE, CEE and WIPRO on annual basis since 2002.
4. Active coordination and implementation of ‘**Chief Minister’s Green School Rolling Trophy and State Green School Awards**’ since 2011. The award carrying cash prizes up to Rs 12 lakh (funded by the State Government) is being presented to eight schools annually on the occasion of World Environment Day on 5th of June.
5. Sikkim ENVIS Hub has been partnering with other reputed agencies like WIPRO, IIT Bombay, CSE, New Delhi for pooling of resources including funds for supporting and promoting environment information, education, awareness and training in the State.
6. Sikkim ENVIS special publication titled ‘**PANDA**’ has gained popularity for its resourceful content and is wide disseminated across the country, national library and so on.
7. Sikkim ENVIS Hub is a resource agency for several research programmes in the State and has aided in drafting State Action Plan for Climate Change.
8. GSDP courses aligned with Sikkim ENVIS Hub has empowered the centre to reach rural populace of the State with livelihood schemes such as Beekeeping, Bamboo Crafts, Forest Fire Management and Solar Energy Systems.
9. **So far out of 425 successful GSDP trainees, 359 have been self-employed/ employed in respective sectors making GSDP employability rate of 84%.**
10. **Sikkim ENVIS Hub has also opened country’s first GSDP Marketing Outlet for providing marketing ventures and first month sale was over sixty thousand providing direct dividends to the candidates.**
11. **State’s first beekeepers cooperative society with apiary of over 30 bee colonies has been registered by 10 GSDP beekeepers.**
12. Owing to being a vast repository of State’s environmental information, Sikkim ENVIS HUB was assigned to prepare White Paper of the host department in 2017-18 and 2018-19 for submission to the State Legislative Assembly.
13. Sikkim ENVIS Hub has been a resource centre for the central and state government along with several research based organizations including research scholars for aiding in research studies, policy and decision making, drafting state action plans etc.



File Photo: SIKKIM ENVIS HUB receiving National Award as ‘Best State ENVIS Centre 2014-15’ from the Ministry of Environment, Forest & Climate Change. The award certificate was presented by Shri Prakash Javadekar, the then Minister of State (Independent Charge) for Environment, Forest and Climate Change at New Delhi on 17th February, 2016.

20. Proposed Annual Action Plan of Activities for 2022-2023

The annual plan of activities for financial year 2022-2023 in summative is enumerated below;

1. Repository of Environmental Knowledge, Publications and Dissemination:

- Publication of 12 paged multicolor Quarterly Newsletters.
- Special edition 72-92 paged PANDA news magazine.
- Preparation of State of Environment Report Sikkim 2022.
- Documentation of Indigenous Traditional Knowledge on Sustainable Lifestyles of Sikkim Himalaya.
- Publication on Brief Document on Wetlands of Sikkim.
- Other knowledge products in the form of booklet/ pamphlets/ brochures/ posters/ flyers, Short Video Films/ DVDs on status of environment and its related issues pertaining to State of Sikkim.

2. Green Skill Development Programme (GSDP): To promote, implement, coordinate and facilitate opportunities for income generation sustainable activities through green skill training, four GSDP certificate courses in multiple batches are proposed in the State of Sikkim:

SN	GSDP Certificate Course proposed to be conducted during 2022-2023	Course Details	1st Qtr (Apr-Jun)	2nd Qtr (Jul-Sep)	3rd Qtr (Oct-Dec)	4th Qtr (Jan-Mar)	Total batches/ Candidates
a.	Value addition and marketing of NTFPs (animal origin) -Wild Beekeeping	200 Hrs, Batch Size-25,	-	-	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	4 Batches 100 candidates
b.	Sustain and Enhance Technical Knowledge in Solar Energy Systems	240 Hrs, Batch Size-20,	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3 Batches 60 candidates
c.	Forest Fire Management	300 Hrs, Batch Size-20	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3 Batches 60 candidates
d.	Value addition and marketing of NTFPs (Plant origin) – Bamboo Crafts	400 Hrs, Batch Size-20		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4 Batches 80 candidates

Sikkim ENVIS Hub successfully conducted above four GSDP courses in 12 batches enrolling 250 candidates during last FY 2021-22, out of which 192 candidates were self-employed/ employed in relevant sectors by 31st March 2022. During the current FY 2022-23, Sikkim ENVIS Hub proposes to conduct the above four GSDP Courses in 14 batches enrolling 300 candidates considering the number of waitlisted candidates and demand for the courses.

3. Proposed Activities in alignment with Vision @2047 for Lifestyle for Environment (LIFE) - Promoting sustainable lifestyles:

- a. To participate, implement and coordinate with grassroots/local communities through engagement of local stakeholders/ associations for generating mass awareness, outreach on sustainable practices such as local air quality management, water conservation, waste management, propagation of Green Good Deeds, involvement of local communities in policy decision making, promoting local climate action and so on.
- b. To document and propagate ecological traditions/ Indigenous Traditional Knowledge.
- c. To promote ecofriendly lifestyles in rural and urban communities focusing activities on environment calendar days or other occasions.
- d. To propagate Green Actions/ Green Good Deeds amongst citizens and engage public participation in polls/ surveys and other online and offline medium.
- e. To promote capacity building, green skilling to the local communities, youths on traditional and scientific sustainable practices to promote Lifestyle on Environment (LIFE).
- f. To engage ENVIS knowledge and information resources in **Community-driven Environmentally Sustainable Village Programme (CESVP)** for promoting sustainable alternatives such as bamboo handicrafts/ products, forest by-products, practice of 3'R's to curb the use of Single Use Plastics/ Non-Degradable products etc.
- g. To provide marketing opportunities of local produce, organic produce and enhance rural livelihood.
- h. To facilitate and support engagement of green skilled manpower resource in creation of small scale enterprises through establishment of cooperative societies/ SHGs for further promoting of sustainable livelihood opportunities in beekeeping, bamboo crafts, forest fire management and solar energy systems.

4. National Environment Survey - Grid Based Decision Support System (NES-GRIDSS) and ISBEID:

- a. Secondary data collection of State and District level ISBEID and NES-GRIDSS parameters.
- b. Preparation of 9x9 km and 5x5 km grid based thematic maps on standard environmental parameters incorporating data and analytic reports/ trends on forest fires, human wildlife conflicts, air quality, water quality, wetlands status and so on.

5. Facilitation, Extension & Other Outreach programmes:

- a. To conduct open Citizen Poll on selection of State Butterfly of Sikkim. The poll will facilitate environment enthusiast across the globe to vote for state butterfly of Sikkim in a true democratic manner. The activity will be conducted in close coordination with Forest and Environment Department and consortium of experts.
- b. To facilitate data compilation on Status of Forest Nurseries in state and provide support to the host organization and the State Government in selection of best entries for the State Awards to be conferred on June 5 or July 7, 2022.
- c. To facilitate Green Schools Audit and Assessment of School's environment action for selection of best schools for Chief Minister's Green School Rolling Trophy and State Green Schools Award to be conferred on June/July 2022.
- d. **Azadi Ka Amrit Mahotsav:** Commemoration of 75 years of India's Independence by conducting 75 week long awareness activities which started on 12th of March 2021 and ends on 18th of August 2022. For this, weekly activities are being conducted for propagation of 75 Green Good Deeds in coordination with School Eco-Clubs, NGOs, local associations, Stakeholders and line departments.
- e. **Ek Bharat Shrestha Bharat programme:** Sikkim State will be partnering with Delhi State in sharing of traditional knowledge, information, best environmental practices and success stories in coordination with Delhi based ENVIS Centres, School Eco-Clubs and line departments. Activities such as webinars, virtual meets, e-publications, posters etc will be prepared and conducted in line with official themes on environment calendar days.
- f. Propagation and implementation of Swachhata activities such as riverfront clean up, clean up Teesta Campaign, Zero Waste Himalaya, plastic litter free campaign, bring back waste from nature visits,

- jhora/ nallah clean up, plastic litter pick up campaign, waste quantification in collaboration with urban and local bodies across the state.
- g. To participate and conduct Swachhata Pakhwada, Poshan Pakhwada or other fortnightly events with social media campaign, short video campaign, broadcasting of AV/ jingles, posters, pamphlets, signature campaigns, online opinion polls etc. for sensitization of general public on local and global environmental issues.
- h. To support the host department in environment awareness programmes in the State like World Environment Day, A Day for Mother Earth, World Ozone Day and so on with events and activities such as online competitions (quiz/ essay writing/ painting/ photography/ short videography etc), webinars, virtual meets and preparation of knowledge products like brochures, handbooks, posters, flyers, signages, hoardings etc.

Tentative Calendar of Activities for Celebrating Environment Day during FY 2022-23

SN	Environment Days	Date(s)	Activities
1.	Earth Day	22 April	Social media campaigns/
2.	International Day of Biological Diversity	22 May	Online competitions (Essay/ slogan writing, painting, photography, short video etc)/
3.	World Environment Day	5 June	Webinars / Awards and Felicitations/
4.	Van Mahotsav	1-7 July	Plantations/ Propagation of Green Good Deeds/ Awareness of curbing SUPs/ Awareness and outreach on sustainable lifestyles, energy conservation, cleanliness and hygiene, conservation of wildlife/ Climate action by propagation of state-wide
5.	A Day for Mother Earth (State event)	7 July	stoppage of vehicular movement on July 7/ Mobilizing public for mass plantation drives, water conservation activities and so on.
6.	Iconic Events under Akadi Ka Amrit Mahotsav (State event)	22 July	
7.	International Day for the Preservation of the Ozone Layer	16 September	
8.	Swachhata Hi Seva	17 September	
9.	Gandhi Jayanti	02 October	
10.	Wildlife Week	02-08 October	
11.	National Cleanliness Day	30 January	
12.	Poshan/ Swachata Pakhwada	1-15 December	
13.	World Wetlands Day	2 February	
14.	World Forestry Day	21 March	
15.	World Water Day	22 March	

Kindly Note: Activities will be conducted on designated official theme for respective environment calendar days in alignment with the ENVIS subject area. Activities will also include collaborations with ENVIS network partners under Ek Bharat Shrestha Bharat Programme and with other local/ regional/ national level collaborators as deemed necessary.



(B. B. GURUNG, IFS)
COORDINATOR-SIKKIM ENVIS HUB
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Forest and Environment Department,
Government of Sikkim

ANNEXURE - I

Status of Data Entry in ISBEID

(Indian State-level Basic Environmental Information Database)

SIKKIM STATE ENVIS HUB

2021-22

As on 31-Mar-2022

Annexure – I:
Status of Data Entry in ISBEID 2021-22: (Sikkim State ENVIS Hub): As on 31-Mar-2022

(Summarized Status on Updation of Data)

SN	Module	Sub-Module	Period for which data updated (State/ District)
1	Adminis-trative	1. General 2. Socio Economics 3. Climate 4. Demography	2016-2020
2.	Infra-structure	1. Housing 2. Medical and Health Service 3. Transport	1961-2020 2022 1990-2020 2021
3.	Energy	1. Non-Renewable 2. Renewable 3. Electricity Consumption 4. Energy Consumption	2003-2017 1992, 1995, 2000-2019 2008- 2018
4.	Agri-culture	1. Agriculture Area Classification 2. Agriculture Production 3. Crop Production (plantation crops) 4. Fertilizer Consumption 5. Pesticide Consumption	12016- 2018 2016-2018 2016-2018 Nil Nil
5.	Industries	1. Category of Industry 2. Mining & Quarrying	2019 -2021 1998-2002
6.	Tourism & Heritage	1. Tourism & Heritage	2019
7.	Natural Resources	1. Land Use Classification 2. Land Degradation 3. Waste Land 4. Types of Wetlands 5. Soil Types	2016-2021 2016 2016-2016 2000-2020 2016-2021
8.	Forest Resource	1. Distribution of Forest Cover 2. Recorded Forest 3. Mining in Forests 4. Actual Forest Cover by Density Class 5. Forest Produce 6. Joint Forest Management Committee	2016- 2021 2016- 2019 Nil 2016-2019 2020
9.	Water Resource	1. Source of Water	1990-2019
10.	Ground Water Resource	1. Status of Ground Water 2. Categorization of Water Level 3. Use of Ground Water	2016
11.	Ecology	1. Ecological Areas 2. Ecology Type 3. Botanical Gardens 4. Zoological Parks 5. Physiographical Features	2020 2020 2016-2022 2016-2022 2016-2021
12.	Sanitation	1. Hygiene & Sanitation 2. Air Borne Disease 3. Water Borne Disease	2010-2020 2005-2019 2005-2019
13.	Water Pollution		2022
14.	Air Pollution	1. Industrial 2. Residential 3. Vehicular Pollution	2015 2022 2020
15.	Bio-diversity	1. Flora 2. Fauna	
16.	Waste	1. Type of Waste 2. Clean Technology 3. Effluent Treatment Plant/CEPT	2020 2020-2021
17.	Disaster	1. Disaster	1990-2016

Status of Data Entry in ISBEID 2021-22: (Sikkim State ENVIS Hub): As on 31-March-2022

(Detailed Status on Updation of Data)

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			2000, 2005- 2012
		- Secondary	2000,2005- 2012			2000,2005- 2012
	- Tertiary	2000,2005- 2012			2000,2005- 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.)		2016-2019		2016-2019
		Average mean monthly temperature (Min.)		2016-2019		2016-2019
		Total annual Rainfall		2016-2020		2016-2020
		Relative Humidity				2006 (E)
	4. Demography	Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)	1961- 2011		1991- 2011	
		Total Population	1961- 2011		1991-2011	
		Males Population	1961- 2011		1991-2011	
		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	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Temporary	2001, 2005, 2011		2001, 2005, 2011	
		Average Household Size (Persons per HH)	2005		2005	
	2. Medical and Health Service	No. of Government Hospitals	2016-2022		2016-2022	
		No. of Registered private hospitals/ nursing homes	2016-2022		2016-2022	
	3. Transport	No. of Railway Stations				
		Length of Railway Lines				
		Length of National Highways	2016-2020			
		Length of State Highways	2016-2020		1990- 2020	
		Length of other roads	1998-2001			
		No. of Domestic 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	2003-2019			
		Installed Capacity	2003-2019			
	2. Renewable	Hydel power generation	2016-2019			
		Installed Capacity	2016-2019			
		Windmill power generation				
		Installed Capacity				
		Solar photovoltaic power generation				
		Installed Capacity				
		Biogas power generation				
		Installed Capacity				
	3. Electricity Consumption	Industrial and Commercial	2016			
		Agriculture	2016			
		Domestic	2016			
		Others				
	4. Energy Consumption	LPG				
		Other Petroleum Products				
		Coal				
		Natural Gas				
Other						
IV. Agriculture	1. Agriculture Area Classification	Total agricultural area				
		Area under non-agriculture use				
		Barren and uncultivable land				
		Permanent pasture / grazing land				
		Net irrigated land				
		New Sown area				
		Plantation crops				
		Fallow				
Area under organic farming						

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		thereof				
	2. Agriculture Production	Total production of crops	2016-2018		2004- 2018	
		Yield of Kharif Crops %	2016-2018		2004-2018	
		Yield of Rabi Crops %	2016-2018		2004-2018	
		Yield of other crops %				
	3. Crop Production (plantation crops) (in million tons per annum)	Name				
		Production				
		Rice	2016-2018		2016-2018	
		Sowing Area	2016-2018		2016-2018	
		Production	2016-2018		2016-2018	
		Wheat	2016-2018		2016-2018	
		Sowing Area	2016-2018		2016-2018	
		Production	2016-2018		2016-2018	
		Pulses	2016-2018		2016-2018	
		Sowing Area	2016-2018		2016-2018	
		Production	2016-2018		2016-2018	
		Total food grains				
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
		Production				
		Jute &mesta				
		Sowing Area				
		Production				
		Sugarcane				
		Sowing Area				
		Production				
		Tobacco				
		Sowing Area				
		Production				
		Oil Seeds	2016-2018		2016-2018	
		Sowing Area	2016-2018		2016-2018	
		Production	2016-2018		2016-2018	
		Cereals	2016-2018		2016-2018	
	Sowing	2016-2018		2016-2018		
	Production	2016-2018		2016-2018		
	Others	2016-2018		2016-2018		
	Sowing Area	2016-2018		2016-2018		
	Production	2016-2018		2016-2018		
	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	2019-2020		2019-2020	
		Total No. of Medium Scale Industries	2019-2020		2019-2020	
		Total No. of Small scale Industries	2019-2020		2019-2020	

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Total No. of Red Category Industries				
		Total No. of Orange Category Industries	2019-2020		2019-2020	
		Total No. of Green Category Industries				
	2. Mining & Quarrying	Iron				
		Copper				
		Lead				
		Zinc				
		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	2019-2020		2019-2020	
		Forest	2019-2020			
		Non-Agriculture use	2019-2020			
		Barren and uncultivable land				
		Permanent pastures and other grazing land				
		Miscellaneous tree crops and groves				
		Cultivable wasteland	2016		2016	
		Fallow land other than current fallow				
		Current fallow Net area sown				
		Gross cropped area				
		Area sown more than once				
		Net irrigated area				
		Gross irrigated area				
	Others					
	2. Land Degradation	Degraded land area	2016		2016	
		Degraded Irrigated land				
		Area affected by shifting cultivation	2000-2016		2000-2016	
		Deforestation rate				
		Total salt affected land				
		Salinization rate	2016		2016	
3. Waste Land	Area effected by desertification					
	Gullied & or Ravenous Land %	2016		2016		
	Upland with or without Scrub	2016		2016		

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		%				
		Water Logged & marshy Land %	2016		2016	
		land affected by Salinity/Alkalinity Coastal/ Inland %	2016		2016	
		Underutilized Degraded Notified Forest Land %				
		Shifting Cultivation Area %	2016		2016	
		Degraded Land under Plantation Crops %	2016		2016	
		Degraded Pastures/Grazing Land %	2016		2016	
		Mining Industrial Wastelands %	2016		2016	
		Sands - Deserted Coastal %				
		Steep Slopping Area %				
		Barren Rocky/Stony Waste/Sheet Rocky Area %				
		Snow Covered and/or Glacial Area %				
	4. Types of Wetlands	Names of wetlands of national importance	2016-2020		2016-2020	
		Names of wetlands of international importance (Ramsar site etc.)				
		Coastal /Estuaries				
		Fresh water Lakes	2016-2020		2016-2020	
		Tanks/Ponds/Reservoirs/Dams	2016-2020		2016-2020	
		Marshes (Tidal/Non-Tidal)				
		Swamps				
		Mangroves				
		Flood Plains				
		Total Area of Wetland	2016-2020		2016-2020	
	5. Soil Types	Others				
		Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
		Laterite Soil				
		Alluvial Soil				
		Mountain Soil	2016-2021		2016-2021	
		Mix Red & Black Soil				
	Peaty Soil					
VIII. Forest Resource	1. Distribution of Forest Cover	Dense Forest	2016-2019		2016-2019	
		Open Forests	2016-2019		2016-2019	
		Mangroves				
		Trees outside forests	2016-2019		2016-2019	
		Numbers				
		Area in				
		Non Forest	2016-2019		2016-2019	
	2. Recorded Forest	Reserved Forest	2016-2019		2016-2019	
		Protected Forest	2016-2019		2016-2019	
		Unclassed Forest	2016-2019		2016-2019	
	3. Mining in Forests	Bauxite				
		Chromite				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Copper				
		Iron				
		Manganese				
		Others				
	4. Actual Forest Cover by Density Class	Dense Forest (Crown density Cover Area above 40%) (in ha)	2016-2019		2016-2019	
		Open Forest (Crown density 10- 40% (in ha)	2016-2019		2016-2019	
		Mangrove (in ha)				
	5. Forest Produce	Timber poles				
		Fuel wood				
		Pulp & match Wood				
		Sal seeds				
		Kandu/Bedi leaves				
		Gums & Resins				
		Cane/Rattan & Bamboo				
		Grass /Fodder				
		Drugs/Tannins				
		Spices				
		Lac				
		Others				
	6. Joint Forest Management Committee	Name of District			2016-2020	
No. of JFMC		2016-2020		2016-2020		
IX. Water Resource	1. Source of Water	Name of River	1990- 2019			
		Total Length	1990-2019			
		Catchment Area				
		Seasonality (Perennial/Seasonal)	2016-2020			
		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				
		Provision for industrial/ domestic/ other uses				
		Available Ground Water Resource				
		Net Draft				
		Balance Ground Water				
		Level of Ground Water Development (%)				
		Utilization Ground Water Resource for irrigation in Net terms				
		Over Exploited				
		Critical Area				
		Gross Draft Estimated on Pro-rata basis	NA		NA	
	2.	Pre-Monsoon average depth to				

Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
	Categorization of Water Level	water level					
		Post Monsoon average depth to water level					
		No. of Over Exploited Area	2016		2016		
		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	2016-2022				
		Name of Wildlife Sanctuaries	2016-2022				
		Name of Bird Sanctuaries	2016-2022				
		Name of Tiger Reserves					
		Name of Elephant Reserves					
		Name of Biosphere Reserves	2016-2022				
	3. Botanical Gardens	Name of Protected Mangroves area (Private & Public)					
		Name of Botanical Garden					
		Area of Botanical Garden	2016-2022				
		Location	2016-2022				
	4. Zoological Parks	Uniqueness					
		Name of Zoological Park	2016-2022				
		Area of Zoological Park	2016-2022				
		Location	2016-2022				
	5. Physiographical Features	Uniqueness					
		Mountain Name	2016-2021				
	XII. Sanitation	4. Hygiene & Sanitation	Height (Meter)	2016-2021			
			No. of Town covered	2016-2020			
			No. of Town not covered	2016-2020			
5. Air Borne Disease		Total No. of treatment plants	2016-2020				
		Type of Disease	2016-2019		2016-2019		
		Name of Disease	2016-2019		2016-2019		
6. Water Borne Disease		No. of Deaths	2016-2019		2016-2019		
		Type of Disease	2016-2019		2016-2019		
		Name of Disease	2016-2019		2016-2019		
XIII. Water Pollution	1.	No. of Deaths	2016-2019		2016-2019		
		River Name	2016-2022	2016-2022	2016-2022	2016-2022	
		Location	2016-2022	2016-2022	2016-2022	2016-2022	
		BOD	2016-2022	2016-2022	2016-2022	2016-2022	
		COD					
		Ph	2016-2022	2016-2022	2016-2022	2016-2022	
		Total Coliform	2016-2022	2016-2022	2016-2022	2016-2022	
	Conductivity	2016-2022	2016-2022	2016-2022	2016-2022		
	Lake Name						
	Location						

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
XIV. Air Pollution		BOD				
		COD				
		Ph				
		Total Coliform				
		Conductivity				
	1. Industrial	SO ₂				
		NOx				
		Suspended Particulate Matter (SPM)				
		Respirable Suspended Particulate Matter (RSPM)				
	2. Residential	SO ₂	2018-2022	2018-2022	2018-2022	2018-2022
		NOx	2018-2022	2018-2022	2018-2022	2018-2022
		Suspended Particulate Matter (SPM)				
		Respirable Suspended Particulate Matter (RSPM)				
	3. Vehicular Pollution	No. of Vehicles	2020		2020	
Type of Vehicles		2020		2020		
XV. Bio- diversity	1. Flora	Total Species (RET)				
		Redbook species No.				
	2. Fauna	Total Species (RET)				
		Redbook species No.				
XVI. Waste	1. Type of Waste	Hazardous waste (HW) in t/a	2020			
		E-waste thereof in t/a	2020			
		Biomedical waste (BMW)	2020			
		Municipal Solid Waste (MSW)	2020			
		Plastic Waste	2020			
		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	2020-2021		2020-2021	
		No. of Plants	2020-2021		2020-2021	
XVII. Disaster	1. Disaster	Type of Disaster	2016		2016	
		Year	2016		2016	
		Affected districts in nos.	2016		2016	
		Population affected (in millions)				
		Damage in crore INR				

ANNEXURE - II

National Environment Survey (NES) – A Grid based Decision Support System for Sustainable Management of Natural Resources (NES-GRIDSS)

Sikkim State
Bio-Geographic Region: Himalayan

STATUS OF DATA COMPILED

2021-22

As on 31-Mar-2022

Annexure – II:**Status of Data Compiled for NES-GRIDSS: (Sikkim State ENVIS Hub): As on 31-Mar-2022**

Sikkim ENVIS Hub is currently working on collection and collation of secondary district-level data on 24 modules of the NES-GRIDSS. With formation of **two new districts in Sikkim State** and re-organizations of districts vide [Sikkim \(Re-organization of Districts\) Act, 2021](#) published in Sikkim Gazette dated 13/12/2021, the data compilation on NES-GRIDSS is currently being re-exercised as per re-organizations of districts.

SN	Current Districts of Sikkim	Previously
1	Gangtok	East Sikkim
2	Gyalshing	West Sikkim
3	Mangan	North Sikkim
4	Namchi	South Sikkim
5	Pakyong (<i>New</i>)	<i>New District carved out from East Sikkim</i>
6	Soreng (<i>New</i>)	<i>New District carved out from West Sikkim</i>

Thematic GIS Maps Prepared under NES GRIDSS till 2021-22

Sl.N	District	Title of the Map
1.	East Sikkim	9x9 sq km Grid Map with PA, RF, Village boundary, Bazar class, drainage etc
2.	East Sikkim	Village map of East District in 9x9 grid
3.	East Sikkim	Protected Area and Reserve Forest Map
4.	East Sikkim	Forest Density Map
5.	East Sikkim	Map showing location of Industries of East District along with Industrial air pollution data
6.	East Sikkim	Soil Type map of East District
7.	East Sikkim	Tourist spot map
8.	East Sikkim	Water Quality of Rivers
9.	East Sikkim	Wetland Map
10.	East Sikkim	Air Quality monitoring

Status of Data Compiled for NES-GRIDSS: (Sikkim State ENVIS Hub): As on 31-Mar-2022

SN	NES-GRIDSS Module	Data Compiled for Year
1.	Module – I- Administrative	2011-2019
2.	Module – II- Demographic	2011
3.	Module – III – Economic Sub Module 1 - General Sub Module 2 - Employment	2015 Data in process
4.	Module – IV – Climate and Disaster Occurrence Sub Module 1 – Climate Sub Module 2 – Disaster	2009-2020 1990-2016
5.	Module- V- Natural Resource Sub Module 1 – Land Use Classification Sub Module 2 – Wastelands Sub Module 3 – Minerals Sub Module 4 – Soil Type & Status Sub Module 5 – Forest Resource Sub Module 6 – Type of Forest Sub Module 7 – Forest Produce Sub Module 8 – Mining in Forest	1990-2021 1990-2016 Data in process 1990-2021 1990-2021 2021 Data in process Nil
6.	Module – VI- Water Resource Sub Module 1 – Status of Surface Water Sub Module 2 – Status of Ground Water	1990-2020 2008-2011
7.	Module – VII – Ecology	2020
8.	Module – VIII – Infrastructure Sub Module 1 – Health Services Sub Module 2 – Housing Amenities Sub Module 3 – Transport Sub Module 4 - Formal Education Sub Module 5 – Non Formal Education	2022 2011 2021 Data in process Data in process
9.	Module – IX – Agriculture	Data – 2003-18 (for sub module 2,3,5,12) For Sub module (1,4,6,7,9,10,11) Data in process
10.	Module – X – Animal Husbandry and Fisheries	Data – 2012,2014-2015 and other filed data in process.
11.	Module – XI – Industries and Mining	2019
12.	Module – XII - Energy	2019
13.	Module – XIII – Pollution	2010-2020
14.	Module – XIV – Waste	2016-2019
15.	Module – XV – Health	2019
16.	Module – XVI – Heritage and Tourism	2011 Onwards
17.	Module – XVII – Funds allocated for environmental protection, resource management and engagement.	Data in process

ANNEXURE - III



Report on

**Green Skill Development Programme
(GSDP)**

**certificate courses conducted by
Sikkim ENVIS Hub during 2021-22**

As on 31-Mar-2022

Annexure – III:

Report on Green Skill Development Programme (GSDP) certificate courses conducted by Sikkim State ENVIS Hub during 2021-22: As on 31-Mar-2022

Sikkim ENVIS Hub successfully implemented 12 batches of GSDP training programme during 2021-22 on four certificate courses as listed under. Total 250 candidates were enrolled for the programme, out of which 192 candidates have been self-employed/ employed as on 31st of March, 2022. The training programmes were conducted during the months of November 2021 to February 2022 in partnership with several expert agencies such as Sikkim Khadi and Village Industries Board, SIMFED, State Biodiversity Board, Forest Department, Directorate of Handloom and Handicraft, Himalayan Science Society, JFMCs/ EDCs, Disaster Management and Mitigation entities, SREDA, SDA-Power Department, NIELIT Gangtok, SMIT Majhitar, local panchayats and other government/ autonomous entities for affective placement of candidates in respective disciplines.

All the courses mentioned below are in line with National Skill Qualification Framework Level 4/5

S N	GSDP Courses conducted during 2021-22	Eligibility criteria / Min. Age of candidate	No. of candidates trained	Duration of the course	Course Dates	No. of Candidates Employed/ Self-Employed post training as on 31-Mar-2022
1.	Value Addition and Marketing of NTFP Products (Animal Origin): Beekeeping and Processing	No minimum qualification 18 years and above	25 per batch 2 Batches Total 50 candidates	200 hrs, up to 30 days NSQF-4	<i>1st Batch:</i> 29.11.2021 to 12.01.2022 <i>2nd Batch:</i> 29.11.2021 to 13.01.2022	50 candidates are self-employed and have started venture as bee keeper with their own scientific bee colonies. Amongst these, 10 candidates have officially registered state's first bee cooperative society with apiary of 30 plus colonies.
2.	Sustain and Enhance Technical Knowledge in Solar Energy Systems	Class X / School Dropout 18 years and above	20 per batch 3 Batches Total 60 candidates	240 hrs, up to 36 days NSQF-5	<i>1st Batch:</i> 15.11.2021 to 16.12.2021 <i>2nd & 3rd Batch:</i> 29.11.2021 to 31.12.2021	32 candidates are employed in power department/ SREDA as JEs with monthly consolidated salary of Rs 18000. Remaining 28 candidates are continuously guided, supported and tracked for employment/ livelihood ventures.
3.	Forest Fire Management	Class X / School Dropout 18 years and above	20 per batch 3 Batches Total 60 candidates	300 hrs, up to 40 days NSQF-5	<i>1st Batch:</i> 15.11.2021 to 16.12.2021 <i>2nd & 3rd Batch:</i> 13.01.2022 to 19.02.2022	32 candidates have been engaged as Environmental Assistants/ Fire Watchers under Territorial/E&SC wings of Forest Department under One Family One Job scheme. Remaining 28 candidates are in process of enrolling in JFMC etc.
4.	Value Addition and Marketing of NTFP Products (Plant Origin): Bamboo Crafts	No minimum qualification 18 years and above	20 per batch 4 Batches Total 80 candidates	400 hrs, up to 45 days NSQF-5	<i>1st Batch:</i> 15.11.2021 to 28.12.2021 <i>2nd & 3rd Batch:</i> 20.12.2021 to 28.01.2022 <i>4th Batch:</i> 20.01.2022 to 25.02.2022	80 candidates are self-employed as bamboo artisans and have started product making and marketing.

Total No of Applicants Received (Oct 1-25, 2021) : 555 applicants (359 Male, 196 Female)
Total No of Candidates Trained in 2021-22 : 250 candidates (133 Male, 117 Female)
Total No of Candidates Employed as on 31-Mar-2022 : 194 candidates (91 Male, 103 Female)
Total No of Candidates to be Employed post 31-Mar-2022 : 56 candidates (42 Male, 14 Female)

Tabular Overview of No. of Applicants/ Candidates Trained/ Employed during 2021-22

SN	GSDP Course conducted in 2021-22	No. of Applications received during the advertisement period Oct 1-25, 2021	No. of Candidates Trained during 2021-22	No. of Candidates Employed/ Self-Employed as on 31-Mar-2022	No. of Candidates to be Employed post 31-Mar-2022
1.	Value Addition and Marketing of NTFP Products (Animal Origin): Wild Beekeeping and Processing	123 Male-59 Female-64	50 Male-18 Female-32	50 Male-18 Female-32	0 Male-0 Female-0
2.	Sustain and Enhance Technical Knowledge in Solar Energy Systems	135 Male-92 Female-43	60 Male-36 Female-24	32 Male-19 Female-13	28 Male-17 Female-11
3.	Forest Fire Management	181 Male-141 Female-40	60 Male-41 Female-19	32 Male-16 Female-16	28 Male-25 Female-3
4.	Value Addition and Marketing of NTFP Products (Plant Origin): Bamboo Crafts	116 Male-67 Female-49	80 Male-38 Female-42	80 Male-38 Female-42	0 Male-0 Female-0
	TOTAL	555 Male-359 Female-196	250 Male-133 Female-117	194 Male-91 Female-103	56 Male-42 Female-14



Government of India
Ministry of Environment, Forest & Climate Change

Would you like to work for the Environment today? Enroll, to create a Better Tomorrow!!

GREEN SKILL DEVELOPMENT PROGRAMME (GSDP)

In line with the Skill India Mission, Ministry of Environment, Forest and Climate Change (MoEF&CC) has been implementing Green Skill Development Programme (GSDP) under which different certificate courses/ training programmes are being offered to skill unemployed youths/ school dropouts/ enthusiasts above 18 years to create a green workforce in Environment Sector with sustainable livelihood opportunities.

HURRY UP!!! GRAB THIS OPPURTUNITY TO AVAIL GREEN SKILL TRAINING IN SIKKIM ABSOLUTELY FREE !!!



Government of Sikkim
Forest and Environment Department
Sikkim ENVIS Hub

Sikkim ENVIS Hub at Forest and Environment Department, Government of Sikkim is conducting following GSDP certificate courses during the current financial year 2021-22:

GSDP Courses Offered	Eligibility criteria	Age of candidate	No. of candidates, No. per batch	Duration of the course	Last date to apply
1. Beekeeping and Processing	No minimum qualification	18 years and above	Total 50, 25 per batch	200 hrs, Up to 30 days	25 th October, 2021
2. Solar Energy Systems	Class X / School Dropout	18 years and above	Total 60, 20 per batch	240 hrs, Up to 36 days	
3. Forest Fire Management	Class X / School Dropout	18 years and above	Total 60, 20 per batch	300 hrs, Up to 40 days	
4. Bamboo Crafts	No minimum qualification	18 years and above	Total 80, 20 per batch	400 hrs, Up to 45 days	

All the above courses are **free of cost** (includes boarding, food and nominal stipend) and can be applied by Indian Nationals only. Selection of candidates per batch will be done by screening through tele-interviews. Preference will be given to applicants residing in Sikkim State.

Apply Online at <http://www.gsdp-envis.gov.in> OR
Download Application Form from <http://www.sikennis.nic.in> and submit to
Sikkim ENVIS Hub, Forest and Environment Department,
Forest Secretariat, B Block, Ground Floor, Room No 101, Deorali, Gangtok

For more information, contact Sikkim ENVIS Hub at:
Tel(O): 03592-280381 | E-mail: sik@envis.nic.in
Sr. Programme Officer: 8927956177 | Information Officer: 9635878286

Note: Dates and venues for training shall be informed separately. The GSDP courses offered are as per the National Skill Qualification Framework (NSQF) of NSDA, Ministry of Skill Development & Entrepreneurship. Certificates will be awarded to candidates on successful completion of the course.

Advertisement circulated for GSDP Courses 2021-22 by Sikkim ENVIS Hub
w.e.f 01/10/2021 to 25/10/2021

PRESS RELEASE

**INAUGURAL OF
GREEN SKILL DEVELOPMENT PROGRAMME 2021-22 ON
FOREST FIRE MANAGEMENT | BAMBOO CRAFTS |
SOLAR ENERGY SYSTEMS | WILD BEEKEEPING AND PROCESSING**

Date: 16 November, 2021

Sidkeong Tulku Forest Conference Hall, Deorali, Gangtok



“Green skill training for 250 local youths on four certificate courses begins”

The Honourable Minister Forest Shri Karma Loday Bhutia inaugurated the Green Skill Development Programme (GSDP) for 2021-22 session in context of generating livelihood opportunities for local youths through four certificate courses viz Forest Fire Management, Bamboo Crafts, Beekeeping, and Solar Energy Systems at the Sidkeong Tulku Forest Conference Hall, Deorali on Tuesday forenoon, the 16th of November 2021. This green skill training programme is being facilitated by the Sikkim ENVIS Hub of Forest and Environment Department. The training programme is being participated by 250 trainees from across the state and will be conducted at various training locations across the state in 12 batches within the current financial year. Various subject experts from State Designated Agency of Power Department, State Biodiversity Board, Territorial Division, Sikkim Khadi and Village Industries Board, SIMFED, Himalayan Science Society, Cane and Bamboo Training Center Assam, NIELIT Gangtok, SMIT Majhitar, GSES New Delhi and other local resource persons will be conducting the training as expert partners.

In his inaugural address attended by 60 local youths, the Minister Forest extended warm welcome to all the participants and encouraged them to take full advantage of livelihood opportunities at local level through green skilling. The minister emphasised on resorting to eco-friendly practices and make use of locally available natural resources in harnessing the acquired green to boost rural economy through sustainable practices.

The inaugural session was also addressed by the Chief Conservator of Forest (Env.&SC/T/ HQ) Shri N W Tamang. In his address, he mentioned that Forest and Environment Department has been making continuous efforts to provide livelihood opportunities to interested local youths in the field of environment since 2019 and this year the department has targeted to benefit 250 youths through green skill training. The inaugural programme was also attended by CF(T) Shri Karma Legshey Bhutia, CF(Wildlife) Shri Udai Gurung, Director (ENVIS) Shri B B Gurung, Director(HZP) Shri Sangay Gyatso Bhutia, Director-I(Accounts) Shri Bikram Tamang, Director-II(Accounts) Shri Norbu Dadul, Joint Secretary(Admin) Ms. Thinley Pema Chankapa, CAO Shri Karma Thendup Thapa, Joint Director (NTFP) Shri Tshering Pintso Bhutia, Joint Director (ENVIS/SPCB) Ms Kusum Gurung, DFO-cum-TA to PCCF Ms. Thenmozhi V and other senior officers of the forest department.

Addressing the opening and welcome remarks, the Director (ENVIS) Shri B B Gurung mentioned that the basic aim of these GSDP courses is to impart green skill training to youths and local people who have not been able to continue education due to different financial or social constraints but have an urge to learn new things and do something fruitful. Green skills contribute to preserving or restoring environmental quality for sustainable future and include jobs that protect ecosystems and biodiversity, reduce energy and minimize waste and pollution. He mentioned that the Green Skill Development Programme is being implemented in the State of Sikkim under the aegis of the Ministry of Environment, Forest and Climate Change, Government of India (*In line with Skill India Mission*) to develop green skilled workers duly amalgamating scientific and traditional approach for sustainable development of rural economy. In line with the Skill India Mission envisaged by the Hon'ble Prime Minister of India, the Ministry of Environment, Forest and Climate Change utilizing the vast network and expertise of ENVIS Hubs/ RPs, has taken up an initiative for skill development in the environment and forest sector to enable India's youth to get gainful employment and/or self-employment.

The 1st batch of green skill training for the current financial year on forest fire management, bamboo crafts, solar energy systems and beekeeping will take place at Phodong, Hee-Bermiok, Gangtok, and Raeypani respectively and will be conducted for a month-long till the end of December 2021. During the inaugural session, a short ten minute video of previous years training and feedback from the trainees was screened along with a short power point presentation on bamboo crafts by Dr. Tika Prasad Sharma, bamboo expert from Himalayan Science Society Sikkim. Training kits and tools were also distributed to the trainees.

The inaugural session coordinated by Sr. Programme Officer (ENVIS) Rajen Pradhan ended with photo session and vote of thanks by the Joint Director (ENVIS) Ms Kusum Gurung.



Newspaper Clips

Green skill training on four certificate courses begins

SE Report

GANGTOK, November 16: Forest minister Karma Loday Bhutia inaugurated the Green Skill Development Programme (GSDP) for 2021-22 session at the conference hall of Forest Secretariat, Deorali here today.

The green skill training was organised in context of generating livelihood opportunities for local youths through four certificate courses viz. forest fire management, bamboo crafts, beekeeping, and solar energy systems, informs a press release.

The month-long training programme is being facilitated by the Sikkim ENVIS Hub of Forest & Environment department. A total of 250 local youths from across the State will be trained during the programme.

The training will be conducted at various locations across the State in 12 batches within the current financial year. The first batch of green skill training for the current financial year will take place at Phodong, Hee-Bermiok, Gangtok, and Raeypani respectively.

Various subject experts from State designated agency of Power department, State Biodiversity board, territorial division, Sikkim Khadi & Village Industries Board, SIMFED, Himalayan Science Society, Cane and Bamboo Training Center, Assam, NIELIT Gangtok, SMIT Majhitar, GSES New Delhi and other local resource persons



will be conducting the training as expert partners.

Minister Bhutia extended warm welcome to all the participants and encouraged them to take full advantage of livelihood opportunities at local level through green skilling. He emphasised on resorting to eco-friendly practices and make use of locally available natural resources in harnessing the acquired green to boost rural economy through sustainable practices.

Chief Conservator of Forest N.W. Tamang mentioned that Forest & Environment department has been making continuous efforts to provide livelihood opportunities to interested local youths in the field of environment since 2019. This year the department has

targeted to benefit 250 youths through green skill training, he added.

Director (ENVIS) B.B. Gurung mentioned that the basic aim of these GSDP courses is to impart green skill training to youths and local people who have not been able to continue education due to different financial or social constraints but have an urge to learn new things and do something fruitful.

Gurung said green skills contribute to preserving or restoring environmental quality for sustainable future and include jobs that protect ecosystems and biodiversity, reduce energy and minimize waste and pollution. He mentioned that the GSDP is being implemented in the State of Sikkim under the aegis of the Ministry of Environment,

Forest & Climate Change, to develop green skilled workers duly amalgamating scientific and traditional approach for sustainable development of rural economy. In line with the Skill India Mission envisaged by the Prime Minister, the Ministry of Environment, Forest & Climate Change utilizing the vast network and expertise of ENVIS Hubs/RPs, has taken up an initiative for skill development in the environment and forest sector to enable India's youth to get gainful employment and/or self-employment.

At the onset, a short video of previous years training and feedback from the trainees was screened along with a short power point presentation on bamboo crafts by Dr. Tika Prasad Sharma, bamboo expert from Himalayan Science

Society Sikkim. Training kits and tools were also distributed to the trainees.

The inaugural programme was also attended by CF(T) Karma Legshey Bhutia, CF(Wildlife) Uday Gurung, director (ENVIS) B B Gurung, director (HZIP) Sangay Gyatso Bhutia, director-I(accounts) Bikram Tamang, director-II(accounts) Norbu Dadul, joint secretary(Adm.) Thinley Pema Chankapa, CAO Karma Thendup Thapa, joint director (NTFP) Tshering Pintso Bhutia, joint director (ENVIS/SPCB) Kusum Gurung, DFO-cum-TA to PCCF Thenmozhi V and other senior officers of the forest department.

The inaugural session coordinated by senior programme officer (ENVIS) Rajen Pradhan, the release mentions.

Sikkim Express dated 17-Nov-2021

250 youth begin Green Skill Training

GANGTOK, 16 Nov [IPR]: Forest Minister Karma Loday Bhutia inaugurated the Green Skill Development Programme (GSDP) for 2021-22 session in context of generating livelihood opportunities for local youths through four certificate courses viz Forest Fire Management, Bamboo Crafts, Beekeeping, and Solar Energy Systems at the Sidkeong Tullu Forest Conference Hall here today.

This green skill training programme is being facilitated by the Sikkim ENVIS Hub of Forest and Environment Department.

The training programme is being taken by 250 youth from across the state and will be conducted at various training locations across the state in 12 batches within the current financial year.

Subject experts from State Designated Agency of Power Department, State Biodiversity Board, Territorial Division, Sikkim Khadi and Village Industries Board, SIMFED, Himalayan Science Society, Cane and Bamboo Training Center Assam, NIELIT Gangtok, SMIT Majhitar, GSES New Delhi and other local resource persons will be conducting the training as expert partners.

In his inaugural address at-

tended by 60 trainees, the Minister extended warm welcome to all the participants and encouraged them to take full advantage of livelihood opportunities at local level through green skilling. The minister emphasised on resorting to eco-friendly practices and make use of locally available natural resources in harnessing the acquired green to boost rural economy through sustainable practices.

The inaugural session was also addressed by the Chief Conservator of Forest (Em&SC/T/ HQ) NW Tamang. In his address, he mentioned that Forest and Environment Department has been making continuous efforts to provide livelihood opportunities to interested local youths in the field of environment since 2019 and this year the department has targeted to benefit 250 youths through green skill training.

The inaugural programme was also attended by CF(T) Karma Legshey Bhutia, CF(Wildlife) Uday Gurung, Director (ENVIS) B B Gurung, Director(HZIP) Sangay Gyatso Bhutia, Director-I(Ac-counts) Bikram Tamang, Director-II(Accounts) Norbu Dadul, Joint Secretary(Admin) Ms. Thinley Pema Chankapa, CAO Karma Thendup Thapa,



Joint Director (NTFP) Tshering Pintso Bhutia, Joint Director (ENVIS/SPCB) Ms Kusum Gurung, DFO-cum-TA to PCCF Ms. Thenmozhi V and other senior officers of the forest department.

Addressing the opening and welcome remarks, the Director (ENVIS) B B Gurung mentioned that the basic aim of these GSDP courses is to impart green skill training to youths and local people who have not been able to continue education due to different financial or social constraints but have an urge to learn new things and do something fruitful. Green skills contribute to preserving or restoring environmental quality for sustainable future and include jobs that protect ecosystems and biodiversity, reduce energy and minimize waste and pollution.

He mentioned that the Green Skill Development Programme is being implemented in the State of Sikkim under the aegis of the Ministry of Environment, Forest and Climate Change, Government of India (In line with Skill India Mission) to develop green skilled workers duly amalgamating scientific and traditional approach for sustainable development of rural economy.

In line with the Skill India Mission envisaged by the Prime Minister of India, the Ministry of Environment, Forest and Climate Change utilizing the vast network and expertise of ENVIS Hubs/RPs, has taken up an initiative for skill development in the environment and forest sector to enable India's youth to get gainful employment and/or self-employment.

training for the current financial year on forest fire management, bamboo crafts, solar energy systems and beekeeping will take place at Phodong, Hee-Bermiok, Gangtok, and Raeypani respectively and will be conducted for a month-long till the end of December 2021. During the inaugural session, a short ten minute video of previous years training and feedback from the trainees was screened along with a short power point presentation on bamboo crafts by Dr. Tika Prasad Sharma, bamboo expert from Himalayan Science Society Sikkim. Training kits and tools were also distributed to the trainees.

The inaugural session coordinated by Sr. Programme Officer (ENVIS) Rajen Pradhan ended with photo session and vote of thanks by the Joint Director (ENVIS) Ms Kusum Gurung.

Summit Times dated 17-Nov-2021

Country's first Marketing Outlet of GSDP Beneficiaries under ENVIS Scheme inaugurated by Sikkim ENVIS Hub at Forest Secretariat Inaugurated



Date/Time: March 7, 2022

Venue: Forest Secretariat Block C, Opposite Siliguri Taxi Stand

Organised by: Sikkim ENVIS Hub, Forest and Environment Department

PRESS RELEASE: The Honourable Minister Forest Shri Karma Loday Bhutia and Shri Arun Kumar, Senior Economic Adviser of the Ministry of Environment, Forest and Climate Change, Government of India today inaugurated the GSDP marketing outlet of Sikkim ENVIS Hub at Forest Secretariat premises in Deorali, Gangtok. The inaugural function was also attended by Chief Conservator of Forest Shri N W Tamang, Conservator of Forest (Territorial) Shri Karma Legshey, Director of Forests Shri B B Gurung, Director of Science & Technology Shri D. T. Bhutia, Joint Director Mrs Kusum Gurung along with team of Sikkim ENVIS Hub and about 60 GSDP beneficiaries and subject experts from across the state.

The marketing outlet featuring the products of Green Skill Development Programme includes bamboo crafts, organic honey and beekeeping tools, briquettes, organic manure and skilled manpower resources for outsourcing services for solar PV installation and so on. The products displayed for sale in this outlet are prepared by green skilled manpower from rural communities. The outlet intends to provide marketing opportunities to these beneficiaries for generating a source of livelihood through sustainable development initiatives. So far 425 local youths, school dropouts and farmers from Sikkim State have been benefitted through the Green Skill Development Programme under the ENVIS scheme funded by the Ministry.



Speaking on the occasion, the Minister expressed gratitude to the Ministry for the continued support and encouraged the beneficiaries to continue producing marketable products by harnessing the green skills acquired. Sikkim ENVIS Hub has been implementing four GSDP courses namely forest fire management, beekeeping, bamboo crafts and solar energy systems since 2019-20.

Shri Arun Kumar, Senior Economic Adviser of the Ministry of Environment, Forest and Climate Change who is on a two day visit to Sikkim ENVIS Hub also interacted with the GSDP participants and took stock of ENVIS activities in the State. Appreciating the overwhelming feedback from the GSDP participants and Sikkim ENVIS team Shri Arun Kumar in his address mentioned that the objectives of the ENVIS scheme are being delivered to satisfaction.

Subject experts such as Biodiversity and livelihood expert Dr Bharat Kumar Pradhan, Dr Tika Prasad Sharma, Shri Tseten Tashi Lepcha also spoke on the importance of ENVIS scheme in the state and highlighted its contribution in several R&D activities through publication of knowledge products, information dissemination, livelihood support activities and so on, all forming important part of environment conservation and protection activities in the state.

Earlier, the dignitaries during the inaugural of marketing outlet also presented 100 garbage bags prepared by Sikkim ENVIS Hub for mainline taxi vehicles through the Indira Bye Pass Taxi Driver's Association as a part of ongoing Plastic Waste Awareness Week (March 6-12). The dignitaries also launched the signature campaign on green pledges as a part of the campaign steered Sikkim ENVIS Hub, Forest and Environment Department.



Report on the Sale from the GSDP Marketing Outlet during March 2022 after inaugural



The GSDP marketing outlet of Sikkim ENVIS Hub is located at a strategic location near inter-state taxi terminus at Deorali, Gangtok. The marketing space has been allocated by the Forest and Environment Department in its office premises at the peripheral unit of Forest Secretariat D-Block. This makes tourist and commuters to stopover at the store to explore and buy gift items, mementos, household items of bamboo and other products such as organic Himalayan honey and so on. The marketing outlet which was inaugurated on March 7, 2022 and made some impact on boosting the rural economy of GSDP beneficiaries.

During its first month of operation i.e till 31st March 2022, the outlet could record the sale of Rs 67500 making sale profit of about Rs 12500. The outlet is run and managed by one the GSDP trainee of 2021-22 batch Mrs Brijita Darjee under the support of Sikkim ENVIS Hub. The marketing outlet is rented at Rs 900 per month (Rs 30 per day) payable to the SBFP Cell of the Forest and Environment Department. The sale and earnings from this outlet provides direct benefit to the GSDP beneficiaries who have been populating the outlet with their products. As on 31st March 2022, the GSDP candidates populated the outlet with products worth over Rs 2,36,000/-.

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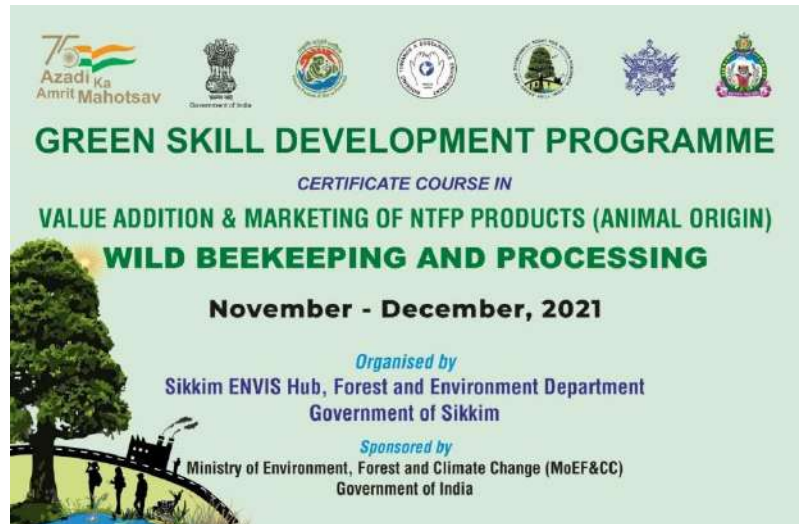
Currently the outlet is equipped with retail marketing only and marketing is done through small scale enterprise as many of the candidates are also marketing their products themselves at local level through bazaar haats, melas, exhibition, trade fair etc. In time to come, with growing success, the outlet could be brought in public domain through e-marketing for which proper marketing licensing may be required to be obtained from concerned authorities.

1. Implementation of GSDP Course : Value Addition and Marketing of NTFP Products (Animal Origin)- Wild Beekeeping and Processing 2021-22

Note: More detailed report is submitted separately



Sikkim ENVIS Hub under the aegis of the Ministry of Environment, Forest and Climate Change, Government of India hosted at Forest and Environment Department, Government of Sikkim successfully implemented the Green Skill Development Programme 2021-22 on “Value Addition and Marketing of NTFP Products (Animal Origin): Wild Beekeeping and Processing”, a certificate course with National Skill Qualification Framework (NSQF) level 4 for 50 candidates in two batches selected from amongst 123 applicants across the State.



A 200 Hrs duration GSDP training programme on Beekeeping was conducted for 50 candidates in two batches at various training sites w.e.f November 29, 2021 to January 13, 2022. The training was organized with theoretical and field based hands-on exercises to develop green skilled workers duly amalgamating scientific and traditional approach for sustainable development of rural economy. The training provided hands-on knowledge and understanding about beekeeping and processing vis-à-vis ways of conversation and effective farming system in order to diversify rural livelihood opportunities through marketing of honey and its products in a sustainable manner. The course aimed to green skill the grassroots to maintain honey bee health, its productivity and explore the possibilities and considerations of how one can both profit from and contribute to the success of these amazing pollinators with a sustainable approach.

2021-22 batch of training inducted 50 aspiring candidates basically unemployed youths/ unskilled farmers having urged for bee farming. Common native species of bees such as *Apis cerana* subsp. *cerana*, *A. cerana* subsp. *himalayana*, *A. dorsata*, and *A. laboriosa* were the primary bee species handled during a month-long training programme. Along with the hands-on training, each candidate was provided with scientific wooden bee box, basic tools and clave hives along with bee colonies as a startup.

This pool of 50 GSDP trainees are now skilled **beekeepers/ honey farmers, apiarists or apiculturist**. The green skilled certified beneficiaries have successfully set up bee apiary in their respective premises for sustainable practice of honey extraction and marketing of honey for livelihood support. This green skilled workforce will be tracked for three years with the support of the collaborating agencies such Farmers Producer Organization (FPQ), Mission Organization Value Chain Development –North Easrten Region (MOVCD-NER), Sikkim Marketing Federation (SIMFED), Agriculture, Horticulture and Cooperation Departments. On the marketing front, the honey fetches about Rs 1200 to Rs 1800 per kilogramme and this brings enough incentive to a beekeeper. About 10 to 16kg of honey is harvested in one season from one bee box. A scientific bee box can yield honey for marketing atleast two seasons. Honey finds easy passage in the local market where the demand has always been higher than the supply.

GSDP Course	Eligibility criteria / Min. Age of candidate	No. of candidates trained	Duration of the course	Course Dates	No. of Candidates Employed/ Self-Employed post training as on 31-Mar-2022
Value Addition and Marketing of NTFP Products (Animal Origin): Beekeeping and Processing	No minimum qualification 18 years and above	25 per batch 2 Batches Total 50 candidates	200 hrs, up to 30 days NSQF-4	<i>1st Batch:</i> 29.11.2021 to 12.01.2022 <i>2nd Batch:</i> 29.11.2021 to 13.01.2022	50 candidates are self-employed and have started venture as bee keeper with their own scientific bee colonies. Amongst these, 10 candidates have officially registered state's first bee cooperative society with apiary of 30 plus colonies.

Resource Persons engaged for 'Wild Beekeeping and Processing' GSDP course 2021-22:

1. Dr. Bharat Kumar Pradhan, Scientific Associate, Sikkim Biodiversity Board
2. Mr. Shiva Sharma, Beekeeping Expert, Sikkim Khadi and Village Industries Board
3. Mr. H. B. Chettri, Bee Expert and Bee Farmer, Melli Kerabari, South Sikkim
4. Mr. Youl Rai, Bee Expert, Rateypani South Sikkim
5. Smt. Lakpa Choden Sherpa, Bee Experts, Rateypani, South Sikkim
6. Ms. Doma Tamang, Bee Assistant Trainer, Nalam South Sikkim

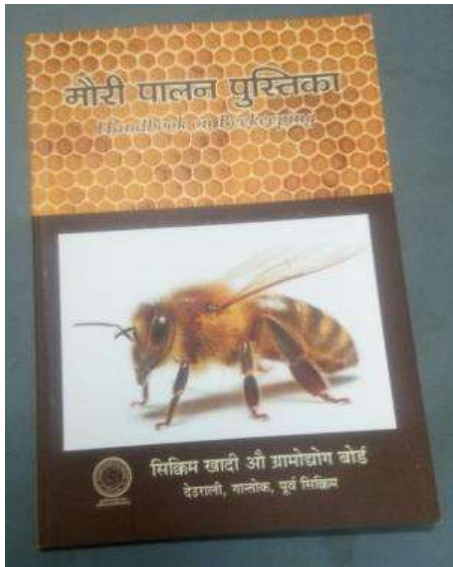
Training Centres/ Hubs Infrastructure used for Training:

1. Sidkeong Tulku Forest Conference Hall, Gangtok, East Sikkim (Theoretical)
2. Nalam Apiary, South Sikkim (Practical)
3. Rateypani Apiary, South Sikkim (Practical)
4. Salghari Apiary, South Sikkim (Practical)
5. Ganchung Apiary, East Sikkim (Practical)

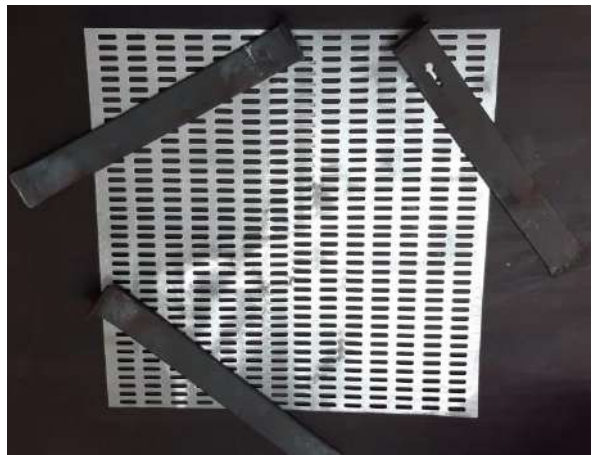
Tools/ Study Materials Used:

1. GSDP Course Materials in the form of pamphlet and training manual in local vernacular language (Nepali) were provided to the candidates.
2. Beekeeping training video tutorials.
3. Beekeeping tools such as bee veil, wild bee capturing net, grafting needle, queen excluder sheet, honey extractor drum, towel, knife, smoker, bucket, mug, que uniform, stationeries, kit bag etc.
4. One scientific bee box (two layered) each along with bee colonies retrieved from the wild was provided during the course of the training.
5. One clay hive – preparation and demonstration.

Evaluation of Trainees: Candidates were continuously evaluated on weekly basis by a set by 50 questions taken through in-person interaction and hands-on/ practical demonstration.



Beekeeping training handbook in Nepali Language
(Courtesy: Sikkim Khadi and Village Industries Board)



Beekeeping Tools provided to trainees



Pure Honey collected and bottled after scientific extraction



During inauguration of two batches of Wild Beekeeping and processing training on 29/11/2021

Green Skill Development Programme on Beekeeping (for both 1st and 2nd batches) started on 29/11/2021 with a 2-day given basic orientation on Biodiversity Conservation and climate change, Opportunities for Green Skill Development, bees and food security, beekeeping and understanding honey bee species, life cycle and morphology, bee products by experts Dr. Bharat Kumar Pradhan, Scientific Associate from Sikkim State Biodiversity Board, Shri Shiva Sharma, Bee Expert from Sikkim Khadi and Village Industries Board and Mr Youl Rai, Bee Expert from Rateypani South during the indoor theoretical session held at Sidekoeng Tulku Forest conference Gall, Deorali, Gangtok.



Trainees were given insight on scientific bee keeping practices where honey extraction for marketing ensures that the bee colony remains intact without damaging the egg cells/brood and the colony. As in traditional practice, most bee keepers in sake of honey extract the entire hive along with the brood which disturbs the colony in which bees are chased away with smoke. While in scientific approach, the brood is not

disturbed and the honey production frequency is enhanced to 4 cycles in a year while in traditional practice honey extraction in only once a year.



Beekeeping trainees are escorted to local bee apiaries at Nalam, Rateypani and Salghari in South Sikkim and Ganchung in East Sikkim where traditional bee keeping practices were observed. To understand the benefits of scientific management of beekeeping for extraction of pure honey, conservation of bees and its propagation through pollination and crop production, site with traditional bee hives mostly in logs and bee hives from the wild were selected for capturing and shifting through sustainable and scientific approach. For this outdoors/field based orientation on understanding the bee behaviour and climate patterns for setting up bee colony scientifically in layered bee boxes made of wood and clay were imparted.





Month-long training mostly included hands-on-exercise in regard to bee capture, shifting of bee colony, apiary management, and preparation and installing of bee hives in scientific wooded boxes, preparation of clay hive, bee disease management, cleaning of bee colony, cleaner production and waste minimization, bee colony separation, grafting, queen cell preparation sustainable practices for honey extraction and marketing.

Trainees were also oriented on various state and central loan schemes under small scale marketing enterprises for setting of entrepreneurship as bee keeper or apiarist.

Training Photographs



Training Photographs



Training Photographs



Training Photographs

Shri H.B.Chettri , Resource person, Bee Expert giving Hands-on training to all candidates for the preparation clay hive at Nalam, Rateypani and Salghari South Sikkim and Ganchung East Sikkim.



Training on preparation of Clay Hives



Valedictory:

Valedictory session was organised at Rateypani, Nalam and Salghari South Sikkim on 12/01/2022 and Ganchung, East Sikkim on 13/01/2022 for 50 candidates (1st & 2nd batch) in presence of Shri B.B Gurung, Director of Forest-cum-Programme Coordinator (ENVIS) Ms. Kusum, Joint Director (ENVIS) ENVIS Team and Members of Panchayat from Rateypani, Nalam, Salghari South Sikkim and Ganchung East Sikkim and local dignitaries who appreciated and lauded the GSDP scheme of the Ministry (MOEF&CC) in giving income generation and sustainable development opportunities to the rural populace. Also present were Bee Expert Shri Shiva Sharma, Sikkim Khadi and Industries Board and Shri Youl Rai, Bee Expert, Himali Bee Farming Co-operative Society, Ltd. Rateypani South Sikkim. A positive vibe amongst candidates was witnessed and they were assured full support in their endeavours as Green Work Force of the nation by local authorities. All beekeeping trainees have successfully set up bee colony at their respective premises.



Valedictory programme at Machong East Sikkim



Valedictory programme at Rateypani South Sikkim

Valedictory Photographs



Valedictory programme at Salghari South Sikkim



Valedictory Programme at Nalam South Sikkim



Success Indicators:

- ✓ All the trainees enthusiastically took part in the month-long training programme and gained handful of experience and knowledge in scientific beekeeping practices. All trainees were provided scientific bee boxes and clay hives along with one bee colony each for setting up venture as beekeeper. All the bee colonies are now successfully set up and bee movement has been very consistent and in next 3 to 4 month these green skilled beekeepers will be able to extract pure honey without disturbing the bee colony and market to support livelihood.



- ✓ **GSDP Beekeepers first cooperative society, first of its kind in the state of Sikkim, gets officially registered** under Cooperation Department in the name of "Himali Bee Cooperative Society Ltd" by 10 GSDP beekeepers of South Sikkim who had successfully completed the green skill training course during January 2022. An inaugural programme was organized in grandeur in a remote village Rabitar at South Sikkim wherein a bee apiary with over 30 colonies was inaugurated by the chief guest on the occasion, the Hon'ble Minister Agriculture Shri L N Sharma in presence of other political dignitaries, government officers, farmers and local public. A Historic day for GSDP Beekeeping in Sikkim.



GREEN SKILL DEVELOPMENT PROGRAMME
On “Wild Beekeeping and Processing” (NSQF-4, 200 Hrs)
November 29, 2021 – January 13, 2022
Sikkim ENVIS Hub, Forest and Environment Department

DAY-WISE PROGRAMME SCHEDULE
[1st and 2nd Batch]

Chief Collaborating Partner: Sikkim Khadi & Village Industries Board (SKVIB), Bee Farm Rateypani
Co-Partner Agencies for Subject Experts: State Biodiversity Board (SBB), SIMFED






Training Experts:

1. Dr. Bharat Kumar Pradhan, Scientific Associate, Sikkim Biodiversity Board
2. Mr. Shiva Sharma, Beekeeping Expert, Sikkim Khadi and Village Industries Board
3. Mr. H. B. Chettri, Bee Expert and Bee Farmer, Melli Kerabari, South Sikkim
4. Mr. Youl Rai, Bee Expert, Rateypani South Sikkim
5. Smt. Lakpa Choden Sherpa, Bee Experts, Rateypani, South Sikkim
6. Ms. Doma Tamang, Bee Assistant Trainer, Nalam South Sikkim

DATE	Venue	PROGRAMME
28/11/2021	All trainees to arrive at Deorali, Gangtok	
29/11/2021	Forest Conference Hall, Gangtok	11.00 AM – 12.30 PM: Inaugural session/ Introduction 01.30 – 5.30 PM: Introduction / Basic orientation; Bees and food security; Biodiversity Conservation (Theory) – Dr. Bharat Pradhan, SBB 02.00-04.00 PM: Introduction to Beekeeping; Understanding honey bee species, life cycle and morphology; Bee products (Theory) - SKVIB
30/11/2021	All trainees travel to respective training sites	
Schedule of Hands-on Field Activities based on Training Locations is as under;		
1/12/2021 to 15/12/2021	Nalam, South Sikkim at apiary of Mrs Doma Tamang (for 12 trainees)	
6/12/2021 to 21/12/2021	Rateypani, South Sikkim at apiary of Mr. Youl Rai (for 14 trainees)	
7/12/2021 to 22/12/2021	Salghari, South Sikkim at apiary of Mr. Ashok Rai of (for 10 trainees)	
15/12/2021 to 31/12/2021	Gangchung, East Sikkim at apiary of GR (for 14 trainees)	
03/01/2022 to 11/01/2022	Clay hive installation and final set up of apiary at respective training sites and households of trainees	
12/01/2022	Valediction at Nalam, Rateypani and Salghari at South Sikkim	
13/01/2022	Valediction at Gangchung, East Sikkim	

Hands-on Field Activities: Shifting of bee colony from traditional hives to scientific bee boxes, bee colonisation, grafting, extraction and processing, apiary management, seasonal management, waste Management, bee capturing and colonisation, clay hive preparation and installation, setting up of apiary and management.






List of GSDP Participants for the Certificate course "Wild Beekeeping and Processing" – 2021-22 (Batch I)

SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	DHAN BAHADUR LIMBOO	M	ST	05-04-1970	DHAN05041970	8509882648	Manglim Sadam Rabitar South Sikkim		Self-employed as Beekeeper under Himali Bee Farming Co-Operative Society Ltd.
2	MANIRA SARKEI	F	SC	01-01-1989	MANI01011989	7586922715	Khairbotey Rateypani South Sikkim		Self-employed as Beekeeper
3	KALPANA SARKEY	F	SC	14-06-1990	KALP14061990	7001305452	Khairbotey Rateypani South Sikkim		Self-employed as Beekeeper
4	SUK MAYA RAI	F	OBC	20-10-1980	SUK_20101980	9907943830	Rateypani South Sikkim		Self-employed as Beekeeper
5	MERRY DIYALI	F	SC	13-11-1986	MERR13111986	7001654564	Khairbotey Rateypani South Sikkim		Self-employed as Beekeeper






SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
6	DHAN KUMARI RAI	F	OBC	01-01-1978	DHAN01011978	9749493985	Middle Rateypani South Sikkim		Self-employed as Beekeeper
7	NORCHHO LEPCHA	F	ST	24-11-1971	NORC24111971	8389927094	Near Rateypani School South Sikkim		Self-employed as Beekeeper under Himali Bee Farming Co-Operative Society Ltd
8	KUMAR CHETTRI	M	OBC	15-06-1979	KUMA15061979	8509865683	Middle Rateypani South Sikkim		Self-employed as Beekeeper under Himali Bee Farming Co-Operative Society Ltd
9	SARASATI SARKEY	F	SC	19-03-1970	SARA19031970	9641858567	Rateypani South Sikkim		Self-employed as Beekeeper
10	MEENA KUMARI SARKI	F	SC	31-06-1987	MEEN31061987	9002542994	Upper Rateypani South Sikkim		Self-employed as Beekeeper






SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
11	MANU RAI	F	OBC	08-07-1972	MANU08071972	9888334219	Rateypani South Sikkim		Self-employed as Beekeeper
12	DURGA RAI	F	OBC	01-02-1979	DURG01021979	9872063300	Khairbotey Rateypani South Sikkim		Self-employed as Beekeeper
13	NAREN CHETTRI	M	OBC	14-04-1984	NARE14041984	8250061443	Sadam Ravitar South Sikkim		Self-employed as Beekeeper under Himali Bee Farming Co-Operative Society Ltd
14	SANGITA CHETTRI	F	OBC	07-09-1976	SANG07091976	8101398920	Upper Rateypani South sikkim		Self-employed as Beekeeper
15	ANITA RAI	F	OBC	11-07-1982	ANIT11071982	8927940085	Lower Rateypani South Sikkim		Self-employed as Beekeeper






SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
16	MANOJ LIMBU	M	ST	22-02-1982	MANO22021982	7430848739	Upper Dorop Salghari South Sikkim		Self-employed as Beekeeper
17	MON KUMAR RAI	M	OBC	10-07-1989	MON_10071989	9593370202	Upper Dorop Salghari South Sikkim		Self-employed as Beekeeper
18	SUBASH RAI	M	OBC	10-04-1987	SUBA10041987	8158009588	Lower Dorop Salghari South Sikkim		Self-employed as Beekeeper
19	ASHOK RAI	M	OBC	02-03-1997	ASHO02031997	9834556201	Upper Dorop Shalghari South Sikkim		Self-employed as Beekeeper
20	ROSHNI TAMANG	F	ST	25-11-1985	ROSH25111985	6297027350	Dhargaon Shalghari South Sikkim		Self-employed as Beekeeper





SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
21	AMRITA KAMI	F	SC	05-12-1988	AMRI05121988	8158830630	Dhargaon Salghari South Sikkim		Self-employed as Beekeeper
22	RAJ KUMAR RAI	M	OBC	12-02-1973	RAJ_12021973	8116295720	Upper salghari south Sikkim		Self-employed as Beekeeper
23	PASSANGKIT LEPCHA	F	ST	17-09-1988	PASS17091988	9002407988	Upper Dorop South Sikkim		Self-employed as Beekeeper
24	DOMA TAMANG	F	ST	02-02-1978	DOMA02021978	9644521385	Dhargaon South Sikkim		Self-employed as Beekeeper
25	KRISHNA TAMANG	M	ST	12-02-1988	KRIS12021988	8967242917	Upper Dorop South sikkim		Self-employed as Beekeeper






List of GSDP Participants for the Certificate course "Wild Beekeeping and Processing" – 2021-22 (Batch II)

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	SUDHA ADHIKARI	F	OBC	09-08-2001	SUDH170711986	6296875075	Gangchung Busty East Sikkim		Self-employed as Beekeeper
2	PRITIKA REGMI	F	OBC	18-02-2001	PRIT18022001	9800365784	Gangchung Busty East Sikkim		Self-employed as Beekeeper
3	SAROJ PRASAD TIMSINA	M	OBC	15-09-1997	SARO15091997	8116654755	Gangchung Busty East Sikkim		Self-employed as Beekeeper
4	BISHAL KAMI	M	SC	16-08-1996	BISH16081996	9775928744	Gangchung Busty East Sikkim		Self-employed as Beekeeper
5	MEENA KUMARI DHAKAL	F	OBC	11-05-1981	MINA11051981	9733340027	Gangchung Busty East Sikkim		Self-employed as Beekeeper

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
6	KAMALA DEVI DHAKAL	F	OBC	16-05-1991	KAMA16051991	7585932494	Gangchung Busty East Sikkim		Self-employed as Beekeeper
7	RAM PRASAD REGMI	M	OBC	01-01-1977	RAM_01011977	8436316076	Gangchung Busty East Sikkim		Self-employed as Beekeeper
8	DILI RAM LUITEL	M	OBC	30-07-1985	DILL30071985	9382977790	Gangchung Busty East Sikkim		Self-employed as Beekeeper
9	DILI RAM CHAPAGAI	M	OBC	29-07-1983	DILL29071983	7872971342	Gangchung Busty East Sikkim		Self-employed as Beekeeper
10	MOHAN Pd. CHAPAGAI	M	OBC	19-11-1999	MOHA19111999	8509088582	Gangchung Busty East Sikkim		Self-employed as Beekeeper

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
11	NANDA PRASAD REGMI	M	OBC	05-04-1969	NAND05041969	8371929132	Gangchung Busty East Sikkim		Self-employed as Beekeeper
12	CHURA MANI REGMI	M	OBC	08-07-1996	CHUR08071996	9064228492	Gangchung Busty East Sikkim		Self-employed as Beekeeper
13	SITA DEVI TAMANG	F	ST	28-08-1971	SITA28081971	8145264176	Namthang Nalammaneydara South Sikkim		Self-employed as Beekeeper
14	LEENA RAI	F	OBC	04-04-1973	LEEN04041973	9593770826	Namthang Nalam Kolbong Namchi South Sikkim		Self-employed as Beekeeper
15	BEENA RAI	F	OBC	06-08-1992	BEEN06081992	8158003598	Namthang Nalam Maney Dara G.P.U South Sikkim		Self-employed as Beekeeper

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
16	BISHNU MAYA TAMANG	F	ST	18-12-1981	BISH18121981	7384559900	Namthang Nalam ManeyDara South Sikkim		Self-employed as Beekeeper
17	YESOR TAMANG	M	ST	13-07-2000	YESO13072000	7265977342	Namthang Nalam Maney Dara South Sikkim		Self-employed as Beekeeper
18	RASHMA CHETTRI	F	OBC	13-12-1994	RASH13121994	8016766845	Nathang Nalam Maney Dara Namchi South Sikkim		Self-employed as Beekeeper
19	SUNITA SARKI	F	SC	26-11-1970	SUNI26111970	9641481485	Near Khayerbotey South Sikkim		Self-employed as Beekeeper
20	BISETA TAMANG	F	ST	02-01-1993	BISE02011993	7872944986	Nathang Nalam ManeyDara Namchi South Sikkim		Self-employed as Beekeeper

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
21	SAKUNTALA TAMANG	F	ST	01-02-1975	SAKU01021975	9083104179	Nathang Nalam Maneydara Namchi South Sikkim		Self-employed as Beekeeper
22	JAMUNA GURUNG	F	OBC	07-08-1991	JAMU07081991	9775352499	Nathang Nalam ManeyDara Namchi South Sikkim		Self-employed as Beekeeper
23	HEM KALA MANGER	F	OBC	06-04-1994	HEM_06041994	7407384716	Nathang Nalam ManeyDara Namchi South Sikkim		Self-employed as Beekeeper
24	SANTI TAMANG	F	ST	04-06-1983	SANT04061983	9002193328	Nathang Nalam Maney Dara Namchi South Sikkim		Self-employed as Beekeeper
25	ANITA TAMANG	F	ST	15-12-1970	ANIT15121970	8145990648	Namthang Kolbung ManeyDara South Sikkim		Self-employed as Beekeeper

2. Implementation of GSDP Course : Value Addition and Marketing of NTFP Products (Plant Origin)- Bamboo Crafts 2021-22

Note: More detailed report is submitted separately



Sikkim ENVIS Hub under aegis of the Ministry of Environment, Forest and Climate Change, Government of India hosted at Forest and Environment Department, Government of Sikkim successfully implemented the Green Skill Development Programme 2021-22 on “Value Addition and Marketing of NTFP products (Plant Origin): Bamboo Crafts” a certificate course with National Skill Qualification Frame Work (NSQF) Level 5 of 400 hours duration for 80 candidates in four batches of 20 candidates each selected from amongst 116 applications received from across the state. A month and half long training programme w.e.f 15/11/2021 was organised with theoretical and field based hands-on exercise at Bamboo Training Centre, Berniok West Sikkim and Gangtok East Sikkim with the experts Shri Akash Deka from Cane and Bamboo Training Centre (CBTC), Assam and Dr. Tika Prasad Sharma Bamboo Expert and Kul Bdr. Limboo from Himalayan Science Society.

GSDP Course	Eligibility criteria / Min. Age of candidate	No. of candidates trained	Duration of the course	Course Date	No. of Candidates Employed/ Self-Employed post training as on 31-Mar-2022
Value Addition and Marketing of NTFP Products (Plant Origin): Bamboo Crafts	No minimum qualification 18 years and above	80 candidates (20 candidates per batch)	400 hrs, Up to 45 days	<i>1st Batch:</i> 15.11.2021 to 28.12.2021 <i>2nd and 3rd Batch:</i> 20.12.2021 to 28.01.2022 <i>4th Batch:</i> 20.01.2022 to 26.02.2022	80 candidates are self-employed as bamboo artisans and have started product making and marketing. Bamboo products include stool, basket, cutleries like spoon, forks etc, jewelries, decorative, hats, table lamps, paper bins, dustbins, wall hangs, trays, plates, bowls, bottles and so on. The products are being marketed through the GSDP Marketing Outlet of Sikkim ENVIS Hub and sale as on date is encouraging for the GSDP bamboo artisans.



Hon'ble Minister Forest Shri Karma Loday Bhutia inaugurated GSDP Course 2021-22 on Bamboo Crafts on November 15, 2021

Resource Persons engaged for 'Bamboo Crafts' GSDP course:

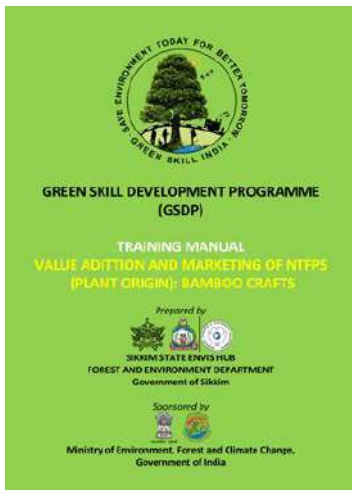
1. Dr Bharat Kurmar Pradhan, Biodiversity Expert, State Biodiversity Board Sikkim
2. Dr. Tika Prasad Sharma, Bamboo Expert, Himalayan Science Society (HSS)
3. Shri Akash Deka, Bamboo Expert, CBTC Assam
4. Shri Anwar Hussain, Bamboo Expert, CBTC Assam
5. Shri K B Limboo, Bamboo Expert, HSS
6. Shri Sukman Subba, Assistant Master Trainer, HSS

Training Centres/ Hubs Infrastructure used for Training:

1. Sidkeong Tulku Forest Conference Hall, Gangtok, East Sikkim (Orientation)
2. Directorate of Handicraft & Handloom, Gangtok (exposure visit)
3. Bamboo Training Centre, Bermiok, West Sikkim (hands-on)

Tools/ Study Materials Used:

1. GSDP Course training manual in the form of booklet.
2. Bamboo crafting complete tool set, bamboo culms, kit bag, uniform etc.



Evaluation of Trainees: Candidates were continuously evaluated on daily basis based on the progress of hand skills developed and understanding of the course. To accommodate 80 candidates for the green skill training two training halls were utilized at the Bermiok Training center.



The Hon'ble Chief Minister of Sikkim Shri Prem Singh Tamang and the Hon'ble Minister-cum-Area MLA Shri Lok Nath Sharma visited GSDP Bamboo Crafts training centre at Hee-Bermiok West Sikkim late evening on 05/03/2021 while taking stock of various development activities at West Sikkim.



Success Indicators: MoEF&CC's Sikkim ENVIS Hub at Forest and Environment Department, Gangtok successfully conducted and completed month and half long GSDP certificate course on Bamboo Crafts for 80 candidates w.e.f from November 15, 2021 to February 26, 2022. Various bamboo products were prepared by trainees during the course. The skilled candidates are also preparing various bamboo products at their homes using hand-held tools and also by using the machineries of the training center. The products are marketed through the GSDP marketing outlet in Forest Secretariat premise. Cost valuation range from Rs 100 to 2500 for items such as souvenirs, baskets, dustbin, trays, lamp covers, bamboo bottles, decorative and small furniture.



GREEN SKILL DEVELOPMENT PROGRAMME
On “Value Addition and Marketing of NTFPs (Plant Origin): Bamboo Crafts” (NSQF-5, 400 Hrs)
November 15, 2021 -February 26, 2022 (Four Batches)
Sikkim ENVIS Hub, Forest and Environment Department

DAY-WISE PROGRAMME SCHEDULE

Chief Collaborating Partner: Himalayan Science Society (HSS), Cane and Bamboo Technology Centre (CBTC), Assam and State Biodiversity Board Sikkim

DAY(s)	VENUE	PROGRAMME
Day 1	All Trainees arrive at Gangtok	
Day 2	Forest Conference Hall, Deorali, Gangtok	11.00 AM – 12.30 PM: Inaugural session 01.30 – 4.30 PM: Introduction / Basic orientation; Biodiversity Conservation and Climate Change - Opportunities for Green Skill Development; Group Discussion, Day Summarization and Way Forward
Day 3	Gangtok, East Sikkim	10.00AM- 01.00 PM Exposure visit cum Demonstration of bamboo handicrafts at Handicrafts, Zero Point , Gangtok - Dr. Tika Prasad Sharma, Bamboo Expert, HSS Candidates travel to Bermiok West Sikkim after lunch
Day 4	Bermiok, West Sikkim	Exposure Visit and orientation
25 Days	Training Centre, Bermiok, West Sikkim	Theory & Practical – Hands-on training on Bamboo Crafts
15 Days	Training Centre, Bermiok, West Sikkim	Product Making and Finishing along with classes on Cleaner Production and Waste Minimization and Exposure for Marketing Opportunities
45 th Day	Training Centre, Bermiok, West Sikkim	Valuation of Products and Valedictory

COURSE CONTENT

Sl. No	Course	Time (in hrs)
01	Introduction about Bamboo: (Important of bamboo, distribution & Identification of species used for handicrafts making).	10 Hrs (Theory)
02	Bamboo culm harvesting and handling: (Age, harvesting technique, season & storage of culm/bamboo).	40 Hrs (Theory & Practical)
03	Bamboo preservation techniques: (Traditional & Chemicals methods)	50 Hrs (Theory & Practical)
04	Bamboo Handicrafts making: a) Training on tools operation and maintenance. b) Training on bamboo utility products (Tray, dustbin, basket, pen stained, etc.). c) Training on bamboo weaving products.(Lamp set, food basket etc.)	280 Hrs (Practical)
05	Marketing of bamboo handicrafts (Theory & Practical/ Exposure visits) (Challenges & Potential).	20 Hrs (Theory & Practical/ Exposure visits)
	Total	400 Hrs

Training Photographs



Exposure Visits to Directorate of Handloom and Handicrafts (DHH) and BSI, Gangtok



Orientation of trainees










Bamboo culm harvesting and processing/ treatment








Training Photographs



List of GSDP Participants for the Certificate Course "Value Addition & Marketing of NTFPs (Plant Origin): Bamboo Crafts" 2021-22 (BATCH I)



SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	Suwita Subba	F	ST	18-04-1994	SUWI18041994	7047391992	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
2	Dill Prasad Sharma	M	OBC	02-04-1991	DILL02041991	8016990460	BermiokBerthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
3	Hari Maya Gurung	F	OBC	19-07-1990	HARI19071990	8348792274	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
4	Sancha Kumari Limboo	F	ST	09-09-1971	SANC09091971	9732814697	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
5	Maroti Subba	F	ST	26-11-1996	MARO26111996	7797266321	BermiokBerthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
6	Dhan Kumari Limboo	F	ST	02-04-1986	DHAN02041986	9732816925	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
7	Puna Hang Limboo	M	ST	31-05-1991	PUNA31051991	8972369032	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	Bir Man Limboo	M	ST	11-08-1959	BIR_11081959	8945508986	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
9	Budha Moti Subba	F	ST	22-02-1993	BUDH22021993	8001768214	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
10	Suk Man Limboo	M	ST	19-05-1972	SUK_19051972	7797886895	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
11	Lall Bahadur Subba	M	ST	01-01-1972	LALL01011972	8768018547	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
12	Phip Raj Limboo	M	ST	12-05-1969	PHIP12051969	7047591991	BermiokBerthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
13	Ranjita Sharma	F	OBC	14-02-1993	RANJ14021993	8900320919	Bermiok Berthang G.P.U. Berthang Rungdu West Sikkim		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
14	Damber Kumar Limboo	M	ST	07-11-1979	DAMB07111979	9647885809	Bermiok Berthang G.P.U. Daragoan Busty West Sikkim		Self Employed as Bamboo Artisan
15	Dal Bahadur Limboo	M	ST	24-10-1964	DAL_24101964	8372836575	Bermiok Berthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
16	Pabi Maya Subba	F	ST	02-06-1972	PABIO2061972	9593239236	BermiokBerthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
17	Krishna Lall Subba	M	ST	24-03-1971	KRIS24031971	9564044965	BermiokBerthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
18	Suk Moti Subba	F	ST	21-06-1977	SUK_21061977	7076161324	BermiokBerthang G.P.U. Sumbok 13th Mile West Sikkim.		Self Employed as Bamboo Artisan
19	Susila Sharma	F	OBC	08-01-1997	SUSI08011997	7432076875	BerthangRungduPwBamyakBerthang West Sikkim		Self Employed as Bamboo Artisan
20	Kumari Limboo	F	ST	08-12-1997	KUMA08121997	9083103808	BermiokBerthang West Sikkim		Self Employed as Bamboo Artisan

List of GSDP Participants for the Certificate Course "Value Addition & Marketing of NTFPs (Plant Origin): Bamboo Crafts" 2021-22 (BATCH II)

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	MEEKIT DOMA LEPCHA	F	ST	05-09-1998	MEEK09051998	8373033672	Rungdu West Sikkim		Self Employed as Bamboo Artisan
2	SAJANA SUBBA	F	ST	15-08-1989	SAJA15081989	9775430178	Sumbuk Bermiok West Sikkim		Self Employed as Bamboo Artisan
3	SIRIMIT LEPCHA	F	ST	16-11-1998	SIRI16111998	7479362553	Upper Bermiok Wset Sikkim		Self Employed as Bamboo Artisan
4	PASSANG DOLMA TAMANG	F	ST	30-01-1998	PASS30011998	7407023142	Upper Bermiok West Sikkim		Self Employed as Bamboo Artisan
5	PASSANGKIT LEPCHA	F	ST	15-12-1992	PASS15121992	8389800955	Berethang Bermiok West Sikkim		Self Employed as Bamboo Artisan
6	ABISHEK LIMBOO	M	ST	07-12-1986	ABIS12071986	7076983530	Sumbuk West Sikkim		Self Employed as Bamboo Artisan
7	CHANDRA KALA SHARMA	F	OBC	06-11-1988	CHAN11061988	7076321526	Lower Bermiok West Sikkim		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	KAMAL PRASAD SHARMA	M	OBC	16-06-1969	KAMA16061969	9647877475	Lower Bermiok West Sikkim		Self Employed as Bamboo Artisan
9	MADHU PRASAD SHARMA	M	OBC	16-03-1975	MADH16031975	9593982994	Lower Bermiok West Sikkim		Self Employed as Bamboo Artisan
10	BISHAL CHETTRI	M	OBC	03-10-1996	BISH10031996	9775220289	Berthang West Sikkim		Self Employed as Bamboo Artisan
11	SAMDEY LHEMU SHERPA	F	ST	12-06-1993	SAMD06121993	7076427741	Upper Bermiok west Sikkim		Self Employed as Bamboo Artisan
12	NIMKIT BHUTIA	F	ST	25-10-1998	NIMK25101998	7478707247	BerthangBermiok West Sikkim		Self Employed as Bamboo Artisan
13	KRISHNA KUMAR CHETTRI	M	OBC	24-03-1999	KRIS24031999	8370972521	Berthang west Sikkim		Self Employed as Bamboo Artisan
14	SUNU HANGMA LIMBOO	F	ST	18-06-1995	SUNU18061995	8145047365	Sumbuk west Sikkim		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
15	GANGA PRASAD SHARMA	M	OBC	08-05-1972	GANG05081972	7076192948	Bermiok West Sikkim		Self Employed as Bamboo Artisan
16	BISHNU SHARMA	M	OBC	15-11-1987	BISH15111987	9933979605	Thangsing West Sikkim		Self Employed as Bamboo Artisan
17	TULA PRASAD SHARMA	M	OBC	01-01-1979	TULA01011979	9732061434	Berethang west Sikkim		Self Employed as Bamboo Artisan
18	NARBADA SHARMA	F	OBC	03-04-1994	NARB04031994	8945062428	Berethang west Sikkim		Self Employed as Bamboo Artisan
19	BISHNU KUMARI CHETTRI	F	OBC	10-07-1984	BISH07101984	9593380664	Lower Bermiok west Sikkim		Self Employed as Bamboo Artisan
20	SUNITA RAI	F	OBC	29-06-1998	SUNI29061998	8597118119	Berethang west Sikkim		Self Employed as Bamboo Artisan

List of GSDP Participants for the Certificate Course "Value Addition & Marketing of NTFPs (Plant Origin): Bamboo Crafts" 2021-22 (BATCH III)

SN	NAME OF CANDIDATE (Batch 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	LAXUMAN LIMBOO	M	ST	07-02-1987	LAXU02071987	7076439633	Bermiok West Sikkim		Self Employed as Bamboo Artisan
2	KUMARI CHETTRI	F	OBC	02-08-1991	KUMA08021991	8597480255	Rangdhu West Sikkim		Self Employed as Bamboo Artisan
3	BINA GURUNG	F	OBC	07-01-2002	BINA01072002	8972873092	Samatar Denchung South Sikkim		Self Employed as Bamboo Artisan
4	GAYATRI SHARMA	F	OBC	10-09-1989	GAYA09101989	7363810047	Bamyak daragaon West Sikkim		Self Employed as Bamboo Artisan
5	KRITIKA SHARMA	F	OBC	12-11-2001	KRIT11122001	7557885196	Rungdho West Sikkim		Self Employed as Bamboo Artisan
6	MON MAYA SHARMA	F	OBC	11-07-2000	MON_07112000	7478953548	BerethangGalysing West Sikkim		Self Employed as Bamboo Artisan
7	PURNA KUMAR SHARMA	M	OBC	18/04/1989	PURN18041989	7076195318	Sumbuk West Sikkim		Self Employed as Bamboo Artisan







SN	NAME OF CANDIDATE (Batch 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	BHIM BAHADUR LIMBOO	M	ST	21/12/2000	BHIM21122000	8967333430	U/ Bermiok West Sikkim		Self Employed as Bamboo Artisan
9	LAXUMAN SHARMA	M	OBC	05-02-1979	LAXU02051979	9775419066	TangsingBermiok West Sikkim		Self Employed as Bamboo Artisan
10	LADUP LEPCHA	M	ST	01-01-1987	LADU01011987	9593037233	Lower Labing West Sikkim		Self Employed as Bamboo Artisan
11	MANGAL SINGH LIMBOO	M	ST	25/01/1970	MANG25011970	755090386	Chingthang South Sikkim		Self Employed as Bamboo Artisan
12	MONA HANG LIMBOO	M	ST	15/07/1991	MONA15071991	7477487882	Chingthang South Sikkim		Self Employed as Bamboo Artisan
13	TANAM LIMBOO	M	ST	23/02/2002	TANA23022002	7551840789	Bermiok West Sikkim		Self Employed as Bamboo Artisan
14	MOHAN BAHADUR SUBBA	M	ST	10-02-1982	MOHA02101982	9733142418	Chingthang West Sikkim		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
15	SABITA CHETTRI	F	OBC	13/04/1998	SABI13041998	7318829241	Berethang West Sikkim		Self Employed as Bamboo Artisan
16	SANTI MAYA SUBBA	F	ST	06-11-1986	SANT11061986	9547382067	BerethangBermiok West Sikkim		Self Employed as Bamboo Artisan
17	MONI HANG LIMBOO	M	ST	02-02-1996	MONI02021996	9907219877	Uttarey West Sikkim		Self Employed as Bamboo Artisan
18	PRANAI LIMBOO	M	ST	29/06/1995	PRAN29061995	9933128910	Chingthang West Sikkim		Self Employed as Bamboo Artisan
19	GANGA SHARMA	F	OBC	01-07-1989	GANG07011989	7478087072	Tumin East Sikkim		Self Employed as Bamboo Artisan
20	BHARATI SHARMA	F	OBC	01-01-1990	BHAR01011990	7547996493	BermiokBerethang West Sikkim		Self Employed as Bamboo Artisan

List of GSDP Participants for the Certificate Course "Value Addition & Marketing of NTFPs (Plant Origin): Bamboo Crafts" 2021-22 (BATCH IV)

SN	NAME OF CANDIDATE (Batch 4)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	KUSU HANG LIMBOO	M	ST	15-09-1997	KUSU15091997	8101802596	Yangang South Sikkim		Self Employed as Bamboo Artisan
2	NAINA KALA KHANAL	F	OBC	02-01-1992	NAIN02011992	9382805784	Luing East Sikkim		Self Employed as Bamboo Artisan
3	LAKPA TSHERING LEPCHA	M	ST	09-04-2003	LAKP09042003	8649812635	KothangSingtam South Sikkim		Self Employed as Bamboo Artisan
4	ABIGAL RANA MANGER	F	OBC	19-01-1998	ABIG19011998	6296835881	Ribdi west Sikkim		Self Employed as Bamboo Artisan
5	NEEMA WONGYAL SHERPA	M	ST	21-02-1999	NEEM21021999	9339690617	Rabong South Sikkim		Self Employed as Bamboo Artisan
6	PEMPA LEPCHA	M	ST	27-10-2000	PEMP27102000	8101273650	Middle Lingmo South Sikkim		Self Employed as Bamboo Artisan
7	PHURDEN LEPCHA	M	ST	09-04-1992	PHUR09041992	9593356961	Middle Lingmo South Sikkim		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 4)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	ANJEET RAI	M	OBC	17-08-2003	ANJE17082003	8101293944	Lower Brong South Sikkim		Self Employed as Bamboo Artisan
9	BIKASH RAI	M	OBC	13-02-1995	BIKA13021995	6297081552	Lower SripatamYangang		Self Employed as Bamboo Artisan
10	PREM KUMARI DAHAL	F	OBC	27-04-1991	PREM27041991	960958239	SadamSuntoley South Sikkim		Self Employed as Bamboo Artisan
11	ISHORA DAHAL	F	OBC	03-04-1985	ISHO03041985	7001342036	Pakyong East Sikkim		Self Employed as Bamboo Artisan
12	BIKASH RAI	M	OBC	30-03-1995	BIKA30031995	8348387259	Lower Bermiok West Sikkim		Self Employed as Bamboo Artisan
13	SANJOTI SUBBA	F	ST	05-03-1998	SANJ05031998	7431813009	Bermiok West Sikkim		Self Employed as Bamboo Artisan
14	KABITA SUBBA	F	ST	20-08-1987	KABI20081987	7797262921	Lower mukrung West Sikkim		Self Employed as Bamboo Artisan

SN	NAME OF CANDIDATE (Batch 4)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
15	RABINA LIMBU	F	ST	06-04-1999	RABI06041999	9002870473	BermiokSumbuk West Sikkim		Self Employed as Bamboo Artisan
16	AMRITA SUBBA	F	ST	02-03-1985	AMRI02031985	9083316406	Middle Gyalshing West Sikkim		Self Employed as Bamboo Artisan
17	BIRENDRA RAI	M	OBC	09-02-1987	BIRE09021987	7076198370	RatamatayBermiok West Sikkim		Self Employed as Bamboo Artisan
18	GOMA CHETTRI	F	OBC	08-09-1994	GOMA08091994	8317897859	Bermiok West Sikkim		Self Employed as Bamboo Artisan
19	ANJANA SUBBA	F	ST	10-05-1976	ANJA10051976	7363807221	Bermiok West Sikkim		Self Employed as Bamboo Artisan
20	SAMIT LEPCHA	F	ST	07-08-1986	SAMI07081986	9635824900	Bermiok West Sikkim		Self Employed as Bamboo Artisan

3. Implementation of GSDP Course : Forest Fire Management 2021-22

Note: More detailed report is submitted separately



Sikkim ENVIS Hub under the aegis of the Ministry of Environment, Forest and Climate Change, Government of India hosted at Forest and Environment Department, Government of Sikkim successfully implemented the Green Skill Development Programme 2021-22 on “Forest Fire Management”, a certificate course with National Skill Qualification Framework (NSQF) level 5 of 300 hours duration for 60 candidates in three batches of 20 each selected from amongst 181 applicants across the State.

A month-long training programme per batch for three batches was organized starting from November 15, 2021 and concluded on February 19, 2022 for all three batches. The course was organized with theoretical and field based hands-on exercises to develop green skilled workers duly amalgamating scientific and modern approach for control and management of forest fires through sustainable activities such as composting for development of organic manure and preparation of briquettes for marketing as a support to livelihood. The training was imparted by experts from Forest and Environment Department at Khasmal RF and other forest locations of Phodong at North Sikkim, Paiyong at South Sikkim and Nayabazar-Zoom at West Sikkim.

GSDP Course	Eligibility criteria / Min. Age of candidate	No. of candidates trained	Duration of the course	Course Dates	No. of Candidates Employed/ Self-Employed post training as on 31-Mar-2022
Forest Fire Management	Class X / School Dropout 18 years and above	60 candidates 20 per batch (Three batches)	300 hrs, Up to 40 days NSQF-5	<i>1st Batch:</i> 15.11.2021 to 16.12.2021 <i>2nd & 3rd Batches</i> 13.01.2022 to 19.02.2022	Out of total 60 candidates, 30 have been engaged as Fire Watchers in JFMCs, Environment Assistants in Environment and Soil Conservation Divisions for Forest Fire reporting and management assistance services to Forest Department. Remaining 30 candidates are seeking opportunities in JFMCs of their villages and have remained unemployed as on 31-Mar-2022.

The GSDP course on Forest Fire Management broadly aimed to provide a comprehensive understanding and basic skill in handling of forest fires and pursuing livelihood opportunities through management of forest by-products, briquette making, preparation of organic manure, degradable plates from dry and fallen leaves and so on. The course was imparted also to explain the causes and the effects, impacts of forest fires, forest degradation and its impact on ecosystem, forest fire safety tips, forest fire monitoring, fire dousing techniques etc. The course facilitated development of forest disaster preparedness, mitigation & management, leadership among individuals at the ground. The candidates are now able to contribute in generating awareness and up-gradation for sustainable development in the community.

The area of interest for the training was Khasmal RF and other forest locations of Phodong at North Sikkim, Paiyong at South Sikkim and Nayabazar-Zoom at West Sikkim. All these regions are prone to forest fires in dry autumn season due to its proximity to the district highways and the inter-linking roads. It was felt imperative to target these areas for creating a pool of forest fire fighters, trainers and ambassadors to save the natural forest of the State.



Hon'ble Minister Forest Shri Karma Loday Bhutia inaugurated GSDP Course 2021-22 on Forest Fire Management on November 15, 2021 at Forest Conference Hall, Gangtok. He also handed over training kits to the trainees.



Resource Persons engaged for ‘Forest Fire Management’ GSDP course 2021-22:

1. Shri Jigme S. Tsewang, DFO (Survey & Demarcation, CAMPA, Social Forestry),
2. Dr. Bharat Kumar Pradhan, Scientific Associate, Sikkim Biodiversity Board
3. Shri Tsheten Tashi Lepcha, ACF (T), Namchi, South Sikkim
4. Shri Dawa Tamang, Block Officer (T), Namchi, South Sikkim



Orientation session for the candidates with subject expert Shri Jigme S. Tsewang, DFO during the inaugural theoretical session at Forest Conference Hall, Gangtok on November 15, 2021

Training Centres/ Hubs Infrastructure used for Training:

1. Forest Conference Hall, Gangtok (Theoretical)
2. Panchayat Bhawan, Phodong, North Sikkim
3. Phodong Khasmal RF and Territorial Range Office, North Sikkim
4. Paiyong Khasmal RF and Saraswathi Bhawan, Paiyong, South Sikkim
5. Zoom Khasmal RF and Nayabazar Territorial Range Office, West Sikkim

Tools/ Study Materials Used:

1. Comprehensive GSDP Course training manual in the form of booklet consisting of 148 pages.
2. Forest fire fighting tools/ equipment, Briquette making tool set, kit bag, uniform etc.



GREEN SKILL DEVELOPMENT PROGRAMME
On “Forest Fire Management” (NSQF-5, 300 Hrs)
November 15, 2021 to February 19, 2022 (Three Batches)
Sikkim ENVIS Hub, Forest and Environment Department

DAY-WISE PROGRAMME SCHEDULE

Chief Collaborating Partner: Territorial Division, Forest and Environment Department, Government of Sikkim

Circles/ Divisions for Subject Experts: SBB, Environment & Soil Conservation, Working Plan, Survey & Demarcation,

DATE	VENUE	PROGRAMME
Day 1	Trainees arrive at Gangtok	
Day 2	Forest Conference Hall, Deorali, Gangtok	11.00 AM – 12.30 PM: Inaugural session 01.30 – 4.30 PM: Introduction / Basic orientation; Biodiversity Conservation and Climate Change - Opportunities for Green Skill Development; Group Discussion, Day Summarisation and Way Forward
Day 3	Gangtok, East Sikkim	11.00AM- 04.30 PM Introduction of Forest/ Forest Cover and Socio Economic Significance of the Forests, Types of Forest Fire /Forest degradation and its Impact on Ecosystem Forest Ecology Forest Fire – The Global/ Indian/ State Scenario, State specific Forest Fire Management
Day 4	Candidates travel to respective Training site	
30 Days	At Training Site	Theory & Practical – Forest Fire Management including creation of forest line, preparation of compost pit, collection of dry and fallen leaves, twigs etc
5 Days	At Training Site	Preparation of Briquette/ Biomass organic fuel including Cleaner Production and Waste Minimization
40 th Day	At Training Hall/ Complex	Valedictory

Evaluation of Trainees: Candidates were continuously evaluated on daily basis and viva-voce was held as a part of evaluation exercise by the subject experts. The officers of the Forest department frequently inspected training sites and monitoring the functioning of the course. The Hon'ble Minister Forest Shri Karma Loday Bhutia also visited one of the training site at Nayabazar-Zoom Khasmal RF during his official tour at West Sikkim.



1st Batch at Phodong, North Sikkim



2nd Batch at Melli-Paiyong, South Sikkim



3rd Batch at Nayabazaar, West Sikkim



Visit by Hon'ble Minister Forest Shri Karma Loday Bhutia at forest fire training site, Nayabazaar-Zoom RF, West Sikkim

Success Indicator: Out of total 60 candidates, 30 have been engaged as Fire Watchers in Joint Forest Management Committees (JFMCs), as Environment Assistants in Environment and Soil Conservation Divisions for Forest Fire reporting and management assistance services to Forest Department. Remaining 30 candidates are seeking opportunities in JFMCs of their villages and have remained unemployed as on 31-Mar-2022. All the trainees have started collecting dry leaves for composting to prepare organic manure, bio-mass fuel/ briquette for marketing. More than 3km forest line has been created for avoiding and controlling fires at RF areas along district highways. Compost pits for collecting fire/ fuel agents like dry leaves and making organic manure have been set up at several RF locations. Biomass fuel or the briquette preparation was successful. The organic manure is consumed at Rs 20-30 per kg in local market while the briquette is being at Rs 10 to Rs 20 per piece through the GSDP marketing outlet of Sikkim ENVIS Hub.



Photographs of Training



Training activity involved the participants to prepare compost from sal leaves using cow dung and using organic waste decomposer; all male participants actively participated in preparing the compost pit and the female participants collected the sal leaves. Three compost pit of size 10' X 5' each was prepared at training sites. The natural manure and other forest byproducts were used in making biomass fuel/ briquettes.

Photographs of Valedictory



1st Batch valedictory was held at Phodong, North Sikkim










2nd Batch valedictory was held at Melli Paiyong, South Sikkim









3rd Batch valedictory was held at Nayabazaar, West Sikkim

List of GSDP Participants for the Certificate course "Forest Fire Management" 2021-22 (BATCH – I)

SN	NAME (BATCH 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	Doma Lepcha	F	ST	04-10-2002	Doma04102002	9679314856	Phodong North Sikkim		Environment Assistant at E&SC Circle, Forest Department
2	Doma Lepcha	F	ST	08-05-1995	Doma08051995	6296826336	PhensongGumpa North Sikkim		Environment Assistant at E&SC Circle, Forest Department
3	Palden Sherpa	M	ST	14-01-1997	Pald14011997	8927870055	LingchomTingdaMangan North Sikkim		Environment Assistant at E&SC Circle, Forest Department
4	Sonamit Lepcha	F	ST	07-05-1991	Sona07051991	7718157251	TingvongNung, North Sikkim		Environment Assistant at E&SC Circle, Forest Department
5	Ram Prasad Limboo	M	ST	12-11-1998	Ram_12111998	8016912904	MangsilaTibuk North Sikkim		Environment Assistant at E&SC Circle, Forest Department
6	Suk Bir Limboo	M	ST	07-07-1993	SUK_07071993	9647773905	Ralak Lower Tingchem North Sikkim		Environment Assistant at E&SC Circle, Forest Department
7	Ongkit Lepcha	F	ST	15-02-1998	Ongk15021998	6296338314	ThingshimPhensong North Sikkim		Environment Assistant at E&SC Circle, Forest Department

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SN	NAME (BATCH 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	Tshering Dem Bhutia	F	ST	14-09-1998	Tshe14091998	8348753091	LongbuKabi North Sikkim		Environment Assistant at E&SC Circle, Forest Department
9	Lakpa Doma Bhutia	F	ST	17-07-1988	Lakp17071988	8371850335	TingchimChadeyMangan North Sikkim		Environment Assistant at E&SC Circle, Forest Department
10	Kursongmit Lepcha	F	ST	01-01-1986	Kurs01011986	9647857722	LingdongBarfok North Sikkim		Environment Assistant at E&SC Circle, Forest Department
11	Tshering Thendup Bhutia	M	ST	01-01-1980	Tshe01011980	8972163322	RamthangGongkha North Sikkim		
12	Sonam Thinlay Bhutia	M	ST	15-05-1988	Sona15051988	8016838352	Upper Rongong North Sikkim		
13	RIGdol Dorjee Bhutia	M	ST	15-06-1983	RIGD08081995	8670636123	Upper RangangPhodong, North Sikkim		
14	Singhi Bhutia	M	ST	14-11-1977	Sing14111977	8670625560	RamtheyGongkha North Sikkim		

SN	NAME (BATCH 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
15	Pintso Tashi Tamang	M	ST	18-01-2003	Pint18012003	9832577170	Lower RamtheyGongkha North Sikkim		
16	Yangdup Lepcha	M	ST	24-03-1993	Yang24031993	8768634608	LungchokSangam North Sikkim		
17	Tshering Wangchuk Bhutia	M	ST	05-08-1984	Tshe05081984	6297868517	Phodong North Sikkim		
18	Padam Bahadur Tamang	M	ST	15-11-1990	Pada15111990	7797194453	Upper Phodong North Sikkim		
19	Tshering Norbu Bhutia	M	ST	21-10-1988	Tshe21101988	6297868517	Tumlong Near Jhs North Sikkim		
20	Sonam Nima Bhutia	M	ST	14-04-1985	SONA14041985	9735400313	TumlongRonggong North Sikkim		

List of GSDP Participants for the Certificate course "Forest Fire Management" 2021-22 (BATCH – II)








SN	NAME (BATCH 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	DURGA PRASAD BHUJEL	M	OBC	17-07-1995	DURG17071995	8371836506	Panchgharey South Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department
2	ANDREW RAI	M	OBC	14-03-2000	ANDR14032000	7550847304	Ramabong, South Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department
3	KUMARI SHARMA	F	OBC	12-09-1991	KUMA12091991	9734122776	Sadam South Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department
4	PURNA BAHADUR CHETTRI	M	OBC	21-08-1993	PURN21081993	6296818887	Sumbuk South Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department
5	ANIL RAI	M	OBC	24-04-1989	ANIL24041989	9800447483	Sorokshyampani South Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department
6	AMBER BAHADUR BHUJEL	M	OBC	05-03-1985	AMBE05031985	7478704025	KitamManpur South Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department
7	SAJAN RAI	M	OBC	13-06-1995	SAJA13061995	7384011852	Upper GoamKitam south Sikkim		Environment Assistant at Melli (T) range South Sikkim Forest Department







SN	NAME (BATCH 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	MOHAN DARJEE	M	SC	27-08-1992	MOHA27081992	9832463146	Melli Paiyong South Sikkim		Working as VGRA Melli BAC under RDD Govt. of Sikkim
9	ROSHNI MOKTAN TAMANG	F	ST	02-09-1994	ROSH02091994	8509397053	Melli Paiyong South Sikkim		Working as VGRA Melli BAC under RDD Govt. of Sikkim
10	RUPA KAMI	F	SC	15-05-1992	RUPA15051992	8016905757	Kerabari Melli South Sikkim		Working as Office Asstt. Melli BAC under RDD Govt. of Sikkim
11	RUPA DEVI CHETTRI	F	OBC	12-11-1996	RUPA12111996	7585976738	Rakdong TintekDikchu East Sikkim		
12	DHANRAJ TAMANG	M	ST	26-06-1972	DHAL26061972	9647871009	MellDaraPaiyong South Sikkim		
13	SONAM PRADHAN	M	OBC	06-01-1991	SONA06011991	8101416081	Paiyoung South Sikkim		Working as Driver
14	ASH BAHADUR RAI	M	OBC	15-04-1990	ASH_15041990	7908205797	Mellipaiyoung South Sikkim		

SN	NAME (BATCH 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
15	URAJ SHARMA	M	OBC	28-12-1997	URAJ28121997	9775853356	Mellipaiyoung South Sikkim		
16	DINESH SHARMA	M	OBC	23-03-1999	DINE23031999	9883593641	Upper PaiyoungMellidara South Sikkim		
17	YOGESH SHARMA	M	OBC	07-08-1997	YOG07081997	7076325579	Upper PaiyoungMellidara South Sikkim		
18	ROSHAN SHARMA	M	OBC	14-02-2001	ROSH14022001	9547603580	Upper Paiyong South Sikkim		
19	CHANDRA KALA RAI	F	OBC	29-05-1996	CHAN29051996	9883735944	MelliDaraPaiyong south sikkim		
20	LILA PRADHAN	F	OBC	28-12-1990	LILA28121990	9679907034	MelliDaraPaiyong south sikkim		

List of GSDP Participants for the Certificate course "Forest Fire Management" 2021-22 (BATCH – III)

SN	NAME (BATCH 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
1	PARMILA MANGER	F	OBC	19-01-1996	PARM19011996	9749572296	Upper Mabong West sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
2	PRABHAT RAI	M	OBC	12-05-1994	PRAB12051994	8016737332	Samsing ehakung West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
3	SUMAN RAI	M	OBC	15-09-1985	SUMA15091985	9679770626	Zoom West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
4	SAN MAYA RAI	F	OBC	15-02-1992	SAN_15021992	6297445567	Soreng West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
5	SANDEEP RAI	M	OBC	16-08-1996	SAND16081996	7872227912	Middle Chakkung West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
6	SANITA MANGER	F	OBC	12-03-1995	SANI12031995	8001900750	Sildung Kamling West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
7	SAROJA SHANKER	F	SC	07-04-2000	SARO07042000	7719319461	Tharpu West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department

SN	NAME (BATCH 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
8	MANITA TAMANG	F	ST	04-04-1987	MANI04041987	9734419923	Reshi Bazar West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
9	SUVEKCHA RAI	F	OBC	09-01-1994	SUVE09011994	7602770203	Chung West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
10	DIPESH RAI	M	OBC	15-01-1992	DIPE15011992	9382703084	Mabong West Sikkim		Environment Assistant at Naya Bazar Range (T) Circle, Forest Department
11	SANTA KUMAR RAI	M	OBC	25-05-1975	SANT25051975	8145005071	Zoom West Sikkim		
12	KRISHNA SINGH RAI	M	OBC	19-10-1983	KRIS19101983	973538643	Zoom West Sikkim		
13	VOMEENDR A SUBBA	M	ST	26-12-1981	VOME26121981	9735026445	Zoom West Sikkim		
14	TEK BAHADUR RAI	M	OBC	15-10-1983	TEK_15101983	8348560784	Zoom West Sikkim		

SN	NAME (BATCH 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING
15	MOUASH RAI	M	OBC	24-01-1984	MOUA24011984	9609861395	Zoom West Sikkim		
16	BAR BAHADUR RAI	M	OBC	21-06-1979	BAR_21061979	9593442729	Zoom West Sikkim		
17	ARUN RAI	M	OBC	03-07-1982	ARUN03071982	8792678563	Zoom West Sikkim		
18	SAU KUMAR RAI	M	OBC	03-01-1987	SAU_03011987	7318655080	Zoom West Sikkim		
19	NORBU SHERPA	M	OBC	10-11-1993	NORB10111993	8145958983	Zoom West Sikkim		
20	LALIT CHANDRA RAI	M	OBC	11-07-1980	LALI11071980	7602772089	Zoom West Sikkim		Working as President, Zoom JFMC West Sikkim

4. Implementation of GSDP Course : Sustain and Enhance Technical Knowledge in Solar Energy Systems 2021-22

Note: More detailed report is submitted separately



Sikkim ENVIS Hub under the aegis of the Ministry of Environment, Forest and Climate Change, Government of India hosted at Forest and Environment Department, Government of Sikkim successfully implemented the Green Skill Development Programme 2021-22 on “Sustain and Enhance Technical Knowledge in Solar Energy Systems”, a certificate course with National Skill Qualification Framework (NSQF) level 5 of 240 hours duration for a total of 60 candidates selected from amongst 135 applicants.

A month-long training programme for 60 trainees in three batches of 20 trainees each was conducted w.e.f November 15, 2021 to December 31, 2021 at Gangtok and other industrial sites. The training included theoretical and field based hands-on exercises to develop green skilled workers duly amalgamating scientific and modern approach for development of solar energy systems and its maintenance for harnessing green skills for capacity building for employment in solar energy sector which is perceived as trending energy solutions for climate action.

The course meticulously covered solar energy concepts, basic electrical principles and their usage, solar PV modules, practical knowledge of types, sizes and specifications of modules/panels and their handling, functioning of solar photo voltaic power plant both off-grid and on-grid, solar water heater or solar geysers and its components. The training programme aimed to bridge the gap between theoretical learning and hands-on implementation of knowledge with requisite technical expertise for detailed Solar PV plant designing, installation and maintenance. The course aimed to promote entrepreneurship and served as base for livelihood development.

Total 60 candidates were enrolled for this GSDP course. Sikkim ENVIS Hub collaborated with State Designated Agency (SDA) and Sikkim Renewable Energy Development Agency (SREDA), an autonomous government body of the State Power and Energy Department as a chief collaborator and employing agency. The core part of the training was conducted by three experts from Global Sustainable Energy Solution (GSES), New Delhi with other subject experts from Sikkim Manipal Institute of Technology (SMIT) and National Institute of Electronics & Information Technology (NEILIT) Gangtok along with local solar technicians and solar vendors.



Hon'ble Minister Forest Shri Karma Loday Bhutia inaugurated GSDP Course 2021-22 on Solar Energy Systems on November 15, 2021

GSDP Course	Eligibility criteria / Min. Age of candidate	No. of candidates	Duration of the course	Course Date	No. of Candidates Employed/ Self-Employed post training as on 31 st March, 2022
Sustain and Enhance Technical Knowledge in Solar Energy Systems	Class X / School Dropout 18 years and above	60 Candidates (Three batches) 20 per batch	240 hrs, Up to 36 days NSQF-5	<i>1st Batch:</i> 15.11.2021 to 16.12.2021 <i>2nd & 3rd Batch:</i> 29.11.2021 to 31.12.2021	Out of 60 candidates, 30 are working currently as Jr Engineers/ technician in different sections of Power Department with average salary of Rs 18000 per month. 2 local candidates are self-employed as solar technicians and have started services. Remaining 28 candidates are being tracked continuously.

Resource Persons engaged for 'Solar Energy Systems' GSDP course 2021-22:

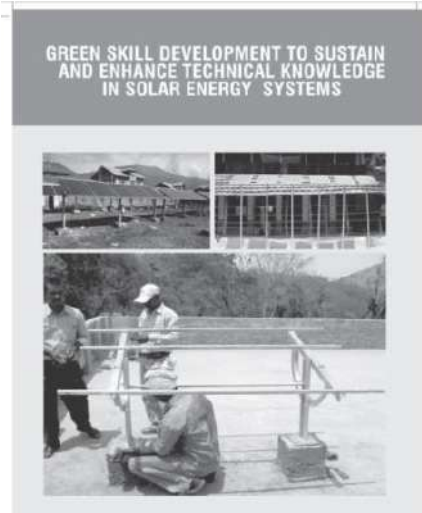
1. Dr. Bharat Kumar Pradhan, Scientific Associate, State Biodiversity Board
2. Dr. Roshan Pradhan, Asst. Professor, SMIT, Majhitar, East Sikkim
3. Shri Pemba Lepcha, Nodal Officer/SE, SDA Power Department
4. Shri Rakesh Baraily, Jr. Engineer, SREDA (GSDP trainee 2019-20 batch)
5. Shri Khagendra Sharma, Scientist C, NEILIT Gangtok
6. Shri Pranab Nath, Global Sustainable Energy Solution, New Delhi
7. Shri Ajay Sahoo, Global Sustainable Energy Solution, New Delhi
8. Shri Ashutosh Tripathi, Global Sustainable Energy Solution, New Delhi

Training Centres/ Hubs Infrastructure used for Training:

1. SPCB Conference Hall, (Orientation classes)
2. Gangtok Forest Conference Hall, Gangtok (Theoretical)
3. Solar PV on-grid plant, Forest Secretariat 'D' Block
4. Solar geyser plant, SREDA, Gangtok
5. Solar 1kw on-grid installation site, Forest Colony, Gangtok
6. Industrial exposure at CIPLA Unit II, Rorathang, East Sikkim

Tools/ Study Materials Used:

1. Comprehensive GSDP Course training manual in the form of booklet consisting of 225 pages.
2. Solar PV tool kit set, equipment, kit bag, uniform etc.
3. Solar PV 1 KW off grid plant



Hon'ble Minister Forest Shri Karma Loday Bhutia distributing tools and study materials to the participants of Solar Energy System

GREEN SKILL DEVELOPMENT PROGRAMME
On “Sustain and Enhance Technical Knowledge in Solar Energy Systems” (NSQF-5, 240 Hrs)
November 15, 2021 to December 31, 2021 (Three Batches)
Sikkim ENVIS Hub, Forest and Environment Department


DAY-WISE PROGRAMME SCHEDULE

Chief Collaborating Partner: SREDA, SDA, Power and Energy Department, Government of Sikkim

Co-Partner Agencies for Subject Experts: Global Sustainable Energy Solution (GSES), New Delhi, SMIT, NIELIT Gangtok, State Biodiversity Board.


DATE	VENUE	PROGRAMME
Day 1	Out stationed trainees to arrive at Deorali, Gangtok by 5 PM	
Day 2	Forest Conference Hall, Deorali, Gangtok	11.00 AM – 12.30 PM: Inaugural session 01.30 – 4.30 PM: Introduction to Renewable Energy and Solar Energy – Sikkim Context – SREDA
Day 3	Forest Conference Hall, Deorali, Gangtok	11.00AM- 01.00 PM Introduction / Basic orientation; Biodiversity Conservation and Climate Change - Opportunities for Green Skill Development; Group Discussion, Day Summarisation and Way Forward 2.00PM – 4.00 PM Cleaner Production and Waste Minimization/ E-Waste Management - NIELIT, Gangtok
2 Days	Forest Conference Hall, Deorali, Gangtok	11.00AM- 04.00 PM Solar Energy Systems and Climate Change - SMIT
12 Days	Forest Conference Hall, and Forest Secretariat D Block Solar Off-Grid Station, Deorali, Gangtok	Theory & Practical – System Design, Installation, Operation & Maintenance of Solar Photovoltaic Systems – GSES, New Delhi
10 Days	Field Exercises	Installation, testing and examination of 1 KW off grid solar PV plant (Practical/ Assignment/Exposure Visits)
2 Days	Gangtok	Enterprise Management and Marketing, SREDA
30 th Day		Valedictory

Evaluation of Trainees: Candidates were continuously evaluated based on written assignments and practical understanding through feedback. An online quiz was held at the end of day’s session on daily basis wherein winner of the quiz on daily basis were presented solar diyas. Final assessment of candidates was conducted through written exams. The cumulative marks obtained was derived and candidates scoring 80% above were given solar diya (15 nos each). All other candidates scored 60% and above and hence were also given solar diya (10 nos each).



Government of Sikkim
Sikkim State ENVIS Hub
Forest and Environment Department
Deorali, Gangtok 737102

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SIKKIM STATE ENVIS HUB
Environmental Information System
On Status of Environment & Related Issues



GREEN SKILL DEVELOPMENT PROGRAMME (GSDP) 2021-22

COURSE
**"SUSTAIN AND ENHANCE TECHNICAL KNOWLEDGE
IN SOLAR ENERGY SYSTEMS"**

Batch No. :	1 st Batch 2021-22	Full Marks :	500
Date of Assignment :	17/11/2021	Weightage :	30%
To be Submitted on :	22/11/2021		


ASSIGNMENT #1

All Questions are Compulsory and carry 100 marks each.

1. In not more than 200 words explain What is "Renewal Energy" along with its types.
2. In not more than 200 words explain Why do we need Renewal Energy?
3. What are the advantages and disadvantages of Solar Energy and its applications?
4. Describe the usage of Pyranometer, Pyrheliometer and Sunshine Recorder.
5. What is "carbon footprint"? Also, Explain in not more than 100 words how does Solar affect our carbon footprint?


Please Note:

- Assignment should be submitted on 22nd November 2021 by 11 AM to the concerned officer of ENVIS cell at the training venue.
- All Candidates should mention their name and mobile number in the front page of the assignment.
- Assignment can be in plain A4 sized paper or notebook size paper.
- Special prize will be given to candidates scoring 80% and above.



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GREEN SKILL DEVELOPMENT PROGRAMME (GSDP) 2021-22

COURSE
**"SUSTAIN AND ENHANCE TECHNICAL KNOWLEDGE
IN SOLAR ENERGY SYSTEMS"**

Batch No. :	2 nd and 3 rd Batch 2021-22	Full Marks :	500
Date of Assignment :	14/12/2021	Weightage :	30%
To be Submitted on :	16/12/2021		

ASSIGNMENT #1

All Questions are Compulsory

1. In not more than 200 words explain What is "Renewal Energy" along with its types.
2. What are the advantages and disadvantages of Solar Energy and its applications?
3. What is "carbon footprint"? Also, Explain in not more than 100 words how does Solar affect our carbon footprint?

Please Note:

- Assignment should be submitted on 16th December 2021 by 11 AM to the Sr. Programme Officer (ENVIS), Forest and Environment Department at the training venue.
- All Candidates should mention their name and mobile number in the front page of the assignment.
- Assignment can be in plain A4 sized paper or notebook size paper.
- This Assignment is part of continuous assessment and is important for this certificate course.



Officers and subject experts interacting with the trainees as a part of continuous monitoring and evaluation

Success Indicator: All 60 trainees successfully demonstrated the design and installation of 1.3 KW Solar PV off grid plant at Forest Secretariat premises. Trainees were given opportunities to explore larger solar PV stations of hybrid, on-grid system at industrial unit of CIPLA Unit II at Rorathang and Forest Secretariat premises. Trainees also explored marketing and services opportunities including solar products, site design, installation, operation and maintenance. Out of 60 trainees, 32 candidates (as on 31-Mar-2022) have started working in relevant sector under power department as technician and engineers with average salary of Rs 18000 per month. 2 local candidates are self-employed as solar technicians and have started services. Remaining 28 candidates are being tracked continuously.





Session by Dr. Roshan Pradhan, Asst. professor, SMIT on Solar Energy Systems



1st Batch Trainees with subject experts from GSES, New Delhi



Separate training hall for other batches

Training Photographs



Training Photographs



Valedictory Photographs









Valedictory programme for 1st Batch was held on 16/12/2021 at Forest Conference Hall, Gangtok



The valedictory session for 2nd and 3rd batches was held on 31/12/2021 chaired by Director of Forest and ENVIS Programme Coordinator and other officers of the Forest and Environment Department







List of GSDP Participants for the Certificate course 2021-22 "Sustain and Enhance Technical Knowledge in Solar Energy Systems" (BATCH I)

SN	NAME (BATCH I)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
1	Shrijana Adhikari	F	OBC	20-05-1997	SRIJ20051997	9609035377	Tadong Municipal Corporation Tadong East Sikkim		Working as Jr. Engineer at Jalipool East Sikkim under Power Department
2	Depan Lakhey	M	SC	25-08-1995	DEPA25081995	9434164839	Daragoan Below Ayurveda Hospital Gairi Goan Tadong		Working as Electrical Inspector at Tadong East Sikkim under power Deptt.
3	Jamyang Dorjee Bhutia	F	ST	22-07-1992	JAMY22071992	9382686233	West Rongyek Bhushuk Road East Sikkim		Working as Jr. Engineer at JNR Sub-Division Power Deptt.
4	Darshana Deokota	F	OBC	25-09-1990	DARS25091990	9749259365	Tadong 5th Mile Near Conving Colony Gangtok		Working as Jr. Engg. At Gangtok Power DepttGangtok
5	Divyani Pradhan	F	OBC	15-12-1993	DIVY15121993	7407301043	Development Area Gangtok Forest Below East Sikkim		Working as Jr. Engg. Deorali Sub-Division Power Deptt.
6	Sonam Palzor Sherpa	M	ST	03-08-1992	SONA03081992	9064896863	Gangtok Municipal Burtuk		Working as Jr. Engineer at DPH under Power Department



SN	NAME (BATCH 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
7	Brigita Darjee	F	SC	21-01-2001	BRIGTA21012001	9339906497	Saramsa Garden East Sikkim		Working as Sales Eexecutive at Marketing outlets under GSDP Forest Department
8	Gopal Tamang	M	ST	05-02-1996	GOPA05021996	9775930211	Manpur Mikhola South Sikkim		Unemployed
9	Enoch Gajmer	M	SC	09-06-2002	ENOC09062002	811690230	Manpur Mikhola South Sikkim		Unemployed
10	Morven Pintso Lepcha	M	ST	12-09-1999	MORV12091999	7585971688	Tathanchen Syari Road Below Royal Plaza East Sikkim		Working as Jr. Engineer (H.Q) under Road & Bridge Dept
11	Phintso Tshering Lepcha	M	ST	22-09-1978	PHIN22091978	8932398859	Near Rey Mendu School East Sikkim		Unemployed
12	Chegay Bhutia	M	ST	17-11-1988	CHEG17111988	7865093929	Tibet Road. Kazi Road Gangtok East Sikkim		Self-employed for solar business
13	Wangyal Bhutia	M	ST	06-06-1996	WANG06061996	9083673448	Tibet Road. Kazi Road Gangtok East Sikkim		Working as Sports Academy

SN	NAME (BATCH 1)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
14	Obed Andrew Gurung	M	ST	07-12-1997	OBED07121997	6294826776	Upper Sichey Co-Operative Road Gangtok		Unemployed
15	Uday Shankar Sharma	M	OBC	17-05-1976	UDAY17051976	8986398824	Arithang Near Gangtok East Sikkim		Working as Electrician at Deorali East Sikkim
16	RaJ Kumar Prasad	M	OBC	03-03-1993	RAJ-031993	7602731691	ArithangLalMaket East Sikkim		Working as Electrician at Deorali East Sikkim
17	Jeewan Pradhan	M	OBC	01-01-1987	Jeew01011987	8371898959	Near Tadong Government College Football Ground		Working as Telecommunication at tadong east Sikkim
18	Ram Chandra Regmi	M	OBC	08-09-1986	RAM_08092086	7478731207	GanchungPw Near School Taza GPU East Sikkim		Unemployed
19	Ramesh Sharma	M	OBC	07-12-1997	RAME07121979	9832346748	Upper Ganchung Busty Pakyong East Sikkim		Unemployed
20	Sabina Paurel	F	OBC	04-06-1977	SABI04061977	8001604905	Middle DodakBuriakhop[West Sikkim		Unemployed





List of GSDP Participants for the Certificate course 2021-22 "Sustain and Enhance Technical Knowledge in Solar Energy Systems" (BATCH II)

SN	NAME (BATCH 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
1	HISSEY BHUTIA	M	ST	15-01-1996	HISS15011996	9775942900	Changay Aho Senti – Pakyong East Sikkim		Working as Jr. Engineer at EHV-N/E under Power Department
2	RENZING PALMU TAMANG	F	ST	23-08-1990	RENZ23081990	6296145479	Soreng West Sikkim		Working as Jr. Engineer at Tadong Under Power Deptt.
3	KAMAL SAPKOTA	M	OBC	10-08-1990	KAMA10081990	8670903306	Upper Bhurung Central Pendam East Sikkim		Working as Jr. Engineer at Maring & Mining East Sikkim
4	RITIKA PRADHAN	F	OBC	13-05-1994	RITI13051994	8653455701	Namthang Barbru South Sikkim		Working as Jr. Engineer at Revenue Namthang South Sikkim
5	BABIN REGMI	M	OBC	31-07-1996	BABI31071996	9775436385	Gangchung Taza East Sikkim		Working as Jr. Engineer at 66/11 KV LLHP under Power Deptt.
6	NEETA LAMICHANEY	F	SC	20-10-1991	NEET20101991	9564252337	Khamdong ,Budang, Thangsing East Sikkim		Working as Jr. Engineer at 66/11 KV LLHP under Power Deptt.








SN	NAME (BATCH 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
7	SAGAR PRADHAN	M	OBC	20-03-1992	SAGA20031992	7479399337	Lower Sichey East Sikkim		Working as a Jr. Engineer at DPH-SLDC at Gangtok under Power Deptt.
8	ONGMO BHUTIA	F	ST	29-07-1997	ONGM29071997	9083896087	Near Gangchung School Pakyong East Sikkim		Working as a Jr. Engineer Pakyong Bazar under Power Deptt.
9	AWAN PRADHAN	M	OBC	10-08-1990	AWAN10081990	9064368748	Melli Gumpa Piyong South Sikkim		Working as a Jr. Engineer at DPH-SLDC at Gangtok under Power Deptt.
10	YOJNA SUBBA	F	ST	08-08-1995	YOJN08081995	8942833778	Pakyong Bazar Near Hotel Sunakhari East Sikkim		Working as a Jr. Engineer Assamlinzey, East Sikkim under Power Deptt.
11	KEWAL RAI	M	OBC	05-05-2000	KEWA05052000	9339906497	Singtam, East Sikkim		Working as Lab Assistant at Torrent Pharmaceutical Company East Sikkim
12	SONALI DHIMAL	F	OBC	30-05-1998	SONA30051998	7602769383	Near Reshi School East Sikkim		Unemployed
13	PRANAY MANGER	M	OBC	11-05-1997	PRAN11051997	9883827724	Pakyong Road Lall Turning Namchebong East Sikkim		Working at NHPC Singtam East Sikkim

SN	NAME (BATCH 2)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
14	SANDEEP PRADHAN	M	OBC	16-09-1988	SAND16091988	8906071220	Tadong College Beside Football Ground East Sikkim		Working as Office Assistant at Mount Down Academy East Sikkim
15	SUSHMA PRADHAN	F	OBC	09-08-1990	SUSH09081990	7797890572	College Valley Gangtok East Sikkim		Unemployed
16	PHURBA TSHEWANG BHUTIA	M	ST	07-12-1985	PHUR07121985	8906567661	Deorali Gangtok East Sikkim		Working as teacher at West Point School East Sikkim
17	MANITA DARJEE	F	SC	02-07-2002	MANI02072002	9907139146	Lower Segeny Mabong-Segeng GPU		Unemployed
18	SANJAY KHATI	M	SC	09-09-2000	SANJ09092000	9064084103	Setipool, chota Singtam		Unemployed
19	UMA SHARMA	F	OBC	07-07-1998	UMA07071998	8597716209	Tingchem Mangshila North Sikkim		Unemployed
20	CHANDRA SHEKAR PRASAD	M	OBC	05-10-1979	CHAN05101979	9434211821	Deorali Bazar, Gangtok East Sikkim		Working as self-Electricians Entrepreneur at Deorali East Sikkim

List of GSDP Participants for the Certificate course 2021-22 "Sustain and Enhance Technical Knowledge in Solar Energy Systems" (BATCH III)

SN	NAME (BATCH 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
1	DEEPEN GURUNG	M	OBC	15-01-1989	DEEP15011989	8145383584	Tadong Rinchenbong Soreng West Sikkim		Working as Jr. Engineer at Reshi-Chingthang GPU under Power Deptt.
2	REEMA PRADHAN	F	OBC	01-09-1996	REEM01091996	8972849842	Namthang Maneydar South Sikkim		Working as Jr. Engineer at Revenue Namthang / Manadara under power Deptt.
3	NIKHIL SUNDAS	M	SC	02-01-1992	NIKH02011992	7602985467	Shantinagar, Chisopani Singtam East Sikkim		Working as Jr. Engineer EHV-N/E Uner power Deptt.
4	BINITA RAI	F	OBC	22-12-1998	BINI22121998	8392068914	Pani House, East Sikkim		Working as a Jr. Engineer at DPH-SLDC at Gangtok under Power Deptt.
5	TULANA RAI	F	OBC	15-09-1993	TULA15091993	9593989561	Lower Sichey East Sikkim		Working as a Jr. Engineer at Sichey S/D Gangtok under Power Deptt.
6	DEEPAK KUMAR RAI	M	OBC	11-07-1993	DEEP11071993	9647887308	Lower Onglog/Sakyong Gyals hing West Sikkim		Working as a Jr. Engineer Tikjack-Lanngang West Sikkim

SN	NAME (BATCH 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
7	RIWAS GURUNG	M	OBC	18-02-1994	RIWA18021994	8250610414	BurtukSwastik Beech Goan East Sikkim		Working as Jr. Engineer at Education Department
8	PRASHANT BASNETT	M	OBC	22-10-1995	PRAS22101995	9593776175	NoapGaonPakong East Sikkim		Working as Jr. Engineer at Building Gangtok East Sikkim
9	RAJSHREE PRADHAN	F	OBC	06-06-1993	RAJS06061993	9647508098	6 th Mile Tadong, East Sikkim		Working as a Jr. Engineer at DPH-SLDC at Gangtok under Power Deptt.
10	AAKISH PRADHAN	M	OBC	10-12-1992	AAKI10121992	9593543310	Syari East Sikkim		Unemployed
11	SANTI RAM SHARMA	M	OBC	15-12-1986	SANT15121986	7076686463	Pacheykhani East Sikkim		Unemployed
12	NOORIE SONGROWLA	F	SC	16-09-1990	NOOR16091990	7602698544	Upper Syari East Sikkim		Unemployed
13	GEETA RAI	F	OBC	10-02-1984	GEET10021984	7063644585	Dalep, Kewzing South Sikkim		Unemployed

SN	NAME (BATCH 3)	GENDER	CATEGORY	DATE OF BIRTH	UNIQUE ID	MOBILE NO.	ADDRESS	PASS PHOTO	STATUS AFTER TRAINING as on 31-Mar-2022
14	DOLKASH GURUNG	F	OBC	21-09-1999	DOLK21091999	9593194940	Upper Syari, East Sikkim		Working as Clerical job at Consumer Sector-Lall Bazar Gangtok
15	PRATIKSHA GURUNG	F	OBC	09-06-1995	PRAT09061995	8768974847	Upper Syari, East Sikkim		Working as Teacher at Amitaba School Namnang East Sikkim
16	PABITRA SHARMA	F	OBC	07-11-1995	PABI07111995	9564454308	SadamSuntaley South Sikkim		Unemployed
17	PASSANG NAMGYAL BHUTIA	M	ST	07-12-1990	PASS07121990	9735703764	Rangong Tumlong phodong North Sikkim		Unemployed
18	CHEDUP TSHERING BHUTIA	M	ST	08-02-1994	CHED08021994	7047073276	Ramthang, North Sikkim		Unemployed
19	BIJYO RAI	M	OBC	17-07-1982	BIJ17071982	9735988421	Upper Zoom, Near Khuladara School West Sikkim		Working as self-employee as Electrician Entrepreneur
20	ANU RAJ THAPA	M	OBC	03-03-1998	ANU_03031998	8436368924	Lower Mamley South Sikkim		Unemployed

SIKKIM ENVIS HUB TEAM 2021-22

Host Organization

1. Shri M. L. Srivastava IFS, ACS-cum-PCCF
2. Shri N W Tamang IFS, CCF (E&SC/HQ)
3. Shri B. B. Gurung IFS, Director cum ENVIS Coordinator
4. Smt Kusum Gurung SFS, Joint Director cum ENVIS Co-Coordinator

Sikkim ENVIS Core Team

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

Support Staff provided by the host organization:

1. Ms. Hem Maya Gautam, Office Attendant
2. Mr. Buddhbir Rai, Office Attendant
3. Mr. Agam Singh Subba, Office Attendant
4. Ms. Angelina Rai, Data Entry Operator
5. Ms. Kavita Tamang, Environment Assistant
6. Mr. Heman Subba, Environment Assistant
7. Mr. Kalyan Rai, Driver

SIKKIM ENVIS HUB OFFICE

