

**Report**  
**State Level Workshop**  
**on**  
***“National Biodiversity Action Plan (NBAP),  
National Biodiversity Targets (NBT) and Sixth  
National Report to Convention on Biological  
Diversity”***

**(19<sup>th</sup> February, 2018)**

**at**

**Regency Hall, Hotel Holiday Home, Shimla, Himachal Pradesh**



**Himachal Pradesh State Biodiversity Board**

**O/o H.P. Council for Science Technology and Environment, H.P**

**Vigyan Bhawan, Bemloe, Shimla – 171 001**

**(Phone 0177-2656489, Fax 0177-2620998)**

**Background:**

Article 6 of CBD enjoins upon all Parties to prepare national strategies, plans or programmes for conservation and sustainable use of biodiversity, and to integrate conservation and sustainable use of biodiversity into relevant sectoral and cross-sectoral plans, programmes and policies. In pursuance to CBD, India enacted the Biological Diversity Act in 2002. Section 36 of the Act empowers the Central Government to develop national strategies, plans or programmes for conservation and sustainable use of biodiversity, and to integrate biodiversity concerns into relevant sectors.

Pursuant to ratification of CBD, following an extensive consultative process with various stakeholders an action plan Strategy on Biodiversity was developed, and approved by Committee of Secretaries in 1999, which was submitted to the CBD Secretariat. Thereafter, the Ministry of Environment and Forests implemented an externally-aided project on National Biodiversity Strategy and Action Plan (NBSAP) from 2000-2004, under which 33 state level, 10 eco-region level, 18 local level and 13 thematic action plans were prepared. On the basis of these action plans, a final technical report of NBSAP project was prepared. While this report was accepted in 2005, it was decided that preparation of the NBAP could be taken up only after approval of the National Environment Policy. The Cabinet approved the National Environment Policy in 2006. Thereafter, preparation of National Biodiversity Action Plan (NBAP) was taken up, by revising and updating the National Policy and action strategy on Biodiversity developed in 1999, and by using the final technical report of the NBSAP project, so that the NBAP is in consonance with the National Environment Policy. The revised NBAP incorporating the comments received has been approved by the Cabinet on 6th Nov 2008. The NBAP document has been printed and formally released by the Minister of State, MoEFCC on 24<sup>th</sup> Feb, 2009.

The NBAP draws from the principle in the National Environment Policy that human beings are at the centre of concerns for sustainable development and they are entitled to a healthy and productive life in harmony with nature. This Action Plan identifies threats and constraints in biodiversity conservation taking into cognizance the existing legislations, implementation mechanisms, strategies, plans and programmes, based on which action points have been designed.

Himachal Pradesh State Biodiversity Board organise one day State Level Workshop on “*National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and Sixth National Report to Convention on Biological Diversity*” on 19<sup>th</sup> February, 2018 at Regency Hall,

Hotel Holiday Home, Shimla, Himachal Pradesh for the representatives of various line departments, indigenous peoples, local communities, as well as representatives from relevant sectors, business, civil society organizations and non-governmental organizations NGO's for the preparation of the national report.

One day State Level Workshop on “*National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and Sixth National Report to Convention on Biological Diversity*” was organised as per the technical schedule (Annexure-I) .

### **Inaugural Session**

Before the start of the workshop, the participants from the representatives of various line departments (such as Agriculture, Ayurveda, Forests, Health, Education, Industry, Tourism, Planning, Horticulture, Fisheries, Animal Husbandry, etc.), indigenous peoples, local communities, as well as representatives from relevant sectors, business, civil society organizations and non-governmental organizations (NGO's) were registered from 9.30 am to 10.15 am by the H.P. State Biodiversity Board at Regency Hall, Hotel Holiday Home, Shimla, Himachal Pradesh.

The brief information and list of participants who attended the workshop has been given in the table as follows:-

<b>S. N.</b>	<b>Name</b>	<b>Complete Address</b>	<b>Contact No.</b>
1.	Dr. Arun Chauhan	Regional Director (RCFC) Regional-cum-Facilitation Center, Joginder Nagar-175045 HP	7018001026
2.	Sh. Om Prakash	Senior Project Fellow G.B. Pant National Institute of Himalayan Environment & Sustainable Development Regional Centre, HP Unit, Mohal, Kullu – 175126, Himachal Pradesh, India	94186-48706
3.	Sh Vijay Kumar	G.B. Pant National Institute of Himalayan Environment & Sustainable Development Regional Centre, HP Unit Mohal, Kullu – 175126, Himachal Pradesh, India	98170-96542
4.	Sh. Abhiraj Thakur	Career Point University Hamirpur Campus : Bhoranj (Tikker - Kharwarian), Hamirpur, [H.P] - 176041	94184-01708
5.	Sh. M.L Azad	Addi Director (S) Dept of HR H.P	94184-55013

6.	Ms. Arti Jamwal	Assistant Prof. Career Point University Hamirpur Campus : Bhoranj (Tikker - Kharwarian), Hamirpur, H.P.	8988079030
7.	Sh. Pankaj Kumar Mishra	Sr. Programmer Directorate of Land Record, B-28 SDA Complex Kasumpti Shimla	95825-97592
8.	Sh. Pana Lal Shrama	APRO, HIMURJA, Shimla-9	-
9.	Sh. Ujjwal Deep Sharma,	Distt Officer, RIISM Jogindernagar, Distt Mandi, HP	94180-84187
10.	Sh. Narender Kumar	Scientist, ICAR-NBPGR RS Shimla, HP	94183-17331
11.	Sh. Dinesh Agarwal	Yugmarg News Paper, Shimla, HP	94180-68287
12.	Dr. KK Parmanick	Head & PsICAR-IARI REG STN Amartara Cottage Shimla-4	98170-75535
13.	Sh. Raman Sharma	Himachal Dastak Shimla	-
14.	Sh. Hitender Sharma	Joint Director, FTI Chail, Solan HP	94184-59858
15.	Sh. Atul Chaudhary	Dy. Director, FTI Chail, Solan HP	94180-96909
16.	Sh Dinesh Kumar	AIR Shimla, HP	94186-25697
17.	Dr. Sunil K. Baniyal	Directorate of Hr. Education, Science Consultant, Himachal Pradesh	98165-96300
18.	Sh. Manoj Chauhan	HPSEB, Shimla-9	94180-44033
19.	Sh. Pushpender	MH one News	94598-02846
20.	Sh. Parveen Kumar	Directorate of Land Records B-28 SDA Complex Kasumpti Shimla-9	94184-61187
21.	Smt. Arti Gupta	WWF-India State Office Gate No-2 BCS New Shimla-9	94183-42479
22.	Prof. N.S Chauhan	Pharma, Sr. Consultant NBPGR GoI, Ex. Prof & Head UHF, Nauni Solan, H.P.	98050-25350
23.	Sh. Anil Kumar Shurma	Apka Fainsla, New Paper, Shimla	94187-61185
24.	Dr. Sushit Gupta	CCF Wildlife Shimla, HP	
25.	Dr. B.D. Sharma	Ex. PS & Head NBPGR Reg. Phagli Shimla	941888-00350
26.	Dr. L.C. Bandana	DFO (Research) at Karnody, Sundernagar, Distt Mandi, HP	-
27.	Sh. Rajender kaith	City Chennal, Shimla	94184-25887
28.	Sh. S.S. Kanwar	Prof. Biotechnology, HPU Shimla, HP	-
29.	Ms. Anjana Thakur	PRO IIRD, Shimla, HP	-
30.	Sh. Kalyan Parimata	Channel 9 Shimla, HP	-
31.	Sh. Ajay Bhatiya	Danik Bhaskar, Shimla	-
32.	Sh. Bhupender Sharma	Ajit Samachar, shimla	94180-11644
33.	Dr. Vishal S. Rana	Principal Scientist, Dr. YS Parmar University Nauni Solan, HP	94184-57401
34.	Ms. Sujata	Himvani Shimla	-
35.	Sh. J.S. Chauhan	Public Welfare & National Intergtion Society Jhokhad Tehsil Chopal Distt Shimla	-
36.	Ms. Archana Phull	The Statesman Shimla	94180-28111
37.	Sh. Sanjay Sharma	Dy Director, Industries, Shimla-1	94184-81174

38.	Sh. Suresh Rajta	Divya line Media Shimla, HP	98170-70905
39.	Sh. Lam porle	Himachal News , Shimla	88945-55050
40.	Sh. Ranbir Singh	News 18, Shimla, Hp	98171-71976
41.	Sh Deepak Rana	News 18 Shimla, HP	89884-40899
42.	Sh. V.D. Sharma	NDTV Shimla, HP	93185-27027
43.	Sh. Dolap	Kawasaki, Shimla, HP	88948-56814
44.	Sh. P.L. Gautam	Vice Chancellor Career Point University Hamirpur	9459376233
45.	Dr. Hemant Sood	Associate Professor JUIT, Wagnaghat Solan,	9418689098
46.	Sh. Sanjay Sood	A P R P Shimla	9418065293
47.	Dr. Sanjay Uniyal	CSIR- IHBT, Palampur - 176061	9418070321
48.	Sh. Deepak Kumar	AIR Shimla	7018146558
49.	Sh. M. S. Kashyap	DPRO Shimla	-
50.	Sh. Balbir Chauhan	ANI News Shimla	-
51.	Sh. Lekh Ra	Himachal Abhi Abhi	-
52.	Sh. Abhinaya	Himachal Media (Hill Post)	-
53.	Sh. Tara Chand Thakur	Directorate of Higher Education, HP Shimla	9418006220
54.	Sh. Chuni Lal	Top Floor P.O. Building Banjar 175123 Kullu, HP	9418133427
55.	Sh. Tapash Chauha	Assistant Director Fisheries Shimla	9418464184
56.	Sh. Shyam	Asst Prof. SBS IIT Mandi -175005	86280-88505
57.	Ms. Bandana Kumari	Project Fellow, IIT Mandi Medicinal Plant Lab	98170-81034
58.	Sh. Badal Singh	Scientist ICAR-NBPGR RS Shimla	99116-34202
59.	Dr. S.P Bhardwaj	Expert Group Member. H,N 8 IAS Colony Panthghati Shimla	-
60.	Dr. Hemant Gupta	CES HPPCL Shimla, HP	-
61.	Dr. P. Sharma	Prof UHF Nauni, Solan HP	94181-48202
62.	Sh. DP Sharma	UHF Nauni, Solan, HP	94184-64081
63.	Sh. C.L Thakur	UHF Nauni, Solan, HP	94188-28456
64.	Dr. Lal Singh	Himalayan Research Group Umesh Bhawan Chotta Shiml-171002 HP	98160-26820
65.	Dr. Ashok Chauhan	Assit. Director, O/o Deputy Director Animal Health breeding Shimla	94180-76324
66.	Sh Kamal Thakur	TV 100 News Shimla	94183-00279
67.	Dr. Anil Kant	Dept of Biotechnology, Jaypee University Wagnaghat Solan	98163-05931
68.	Dr. GL Panday	Dy Director Dept of Health Directrate, Shimla	94184-57856
69.	Suresh Sharma	SMS (Placement cell) Directorate of Agriculture, HP Shimla	9805740341
70.	Dr Uvi tyagi Barwal	OSD to DH, D/O Health and Family Welfare Kusumpti, Shimla HP	-
71.	Dr Rakesh R Bhardwaj	OSD to DHRS, D/O Health, Safety and Regulation, Shimla HP	-
72.	Dr Shushma Sharma	Deptt. of Bio Sciences, HPU Shimla	-

73.	Rajender Thakur	APO, HPVHA New Shimla	-
74.	B R Thakur	Team Member, HPUHA childline	-
75.	Dr Mahender S Thakur	Serve Himalaya Society, Gupta Cottage, Near Central School Lakkar Bazar, Shimla	-
76.	Dr Jai Dev	Professor, Deptt of Seed Sci and Technology, CSK HPKV Palampur	9418054450
77.	Shishu Sharma	DD/ AIR	9418013038
78.	Deepak	AIR Shimla	9418119496
79.	Gauri Das	Arya Samaj, Shimla	-
80.	Om Prakash Thakur	Reporter	9625932530
81.	Meenakshi Sharma	Himvani, Reporter, Shimla	8626846079
82.	Jai Singh	Asst Director, Fisheries, Bilaspur	9418800458
83.	Kuldeep Singh	Aapka Faisla, Reporter, Shimla	9418877115
84.	Lalit Kumar	The Statesman, Reporter, Shimla	9418588653
85.	Devender Hetta	Punjab Kesari, Reporter, Shimla	9817006350
86.	Rakesh Kumar	DD news, Reporter, Shimla	9816586722
87.	Ujwal Sharma	Hinsustan Samachar, Reporter Shimla	9418187690
88.	Tina Thakur	Adartsh Himachal, Reporter, Shimla	9418694594
89.	Surjeet Singh	Deputy Director/ Project Director, SHNA PMKSY-WDC R.D.D. HP	9418042680
<b>Officials and Staff of H.P. State Biodiversity Board, Shimla</b>			
90.	Sh. Kunal Satyarthi	Member Secretary	9410394349
91.	Dr. M.L. Thakur	State Project Coordinator	-
92.	Mrs. Priyanka Sharma	Sr. Scientific Assistant	-
93.	Dr. Pankaj Sharma	Sr. Scientific Professional	9418776534
94.	Dr. Navjot Kaler	Scientific Professional	-
95.	Mr. Vineet Negi	Scientific Assistant	-
96.	Sh. Amit Rana	DEO	9418800179
97.	Ms. Monika Thakur	Computer Assistant	-
98.	Mrs. Poonam Dharma	Junior Account Assitant	-
99.	Sh. Surender	Driver	-
100.	Sh. Durgesh	Driver	-
101.	Sh. Pritam	Driver	-

The function started by lighting of the Lamp by Chief Guest Smt. Manisha Nanda Addl. Chief Secretary, Environment Science & Technology Govt. of Himachal Pradesh. Sh. Kunal Satyarthi, Member Secretary, Himachal Pradesh State Biodiversity Board welcomed the participants and other dignitaries on the Dias and representatives of various line departments (such as Agriculture, Ayurveda, Forests, Health, Education, Industry, Tourism, Planning, Horticulture, Fisheries, Animal Husbandry, etc.), indigenous peoples, local communities, as well as

representatives from relevant sectors, business, civil society organizations and non-governmental organizations (NGO's).

Smt. Manisha Nanda Addl. Chief Secretary, Environment Science & Technology Govt. of Himachal Pradesh was requested to share her wisdom and bless all the participants from her words of encouragement. In her address she pointed out the role and importance of biodiversity and need for its conservation. She also briefed about the rich and varied biodiversity of Himachal Pradesh. She also talked about the importance of the current event and how critical and fruitful the feedbacks would be from this event. She briefed about the forest wealth of the state and educated about the role and responsibilities of the communities that are living very closely with the forest land and in relation to the rich biological wealth of the State. In her valuable talk she also mentioned that rural people of interior areas rely heavily on medicinal plants with around 500 medicinal plants used by local for curing the ailments, a number medicinal plants are also in heavy demand in industries hence accounting for a very high annual trade of medicinal plants in addition it was also noted that horticulture sector of the state alone generates around 4000 crores annually. So in her speech after pointing out the importance and scope of biodiversity she laid stress on how and why this valuable biodiversity should be conserved. She also informed everyone about the indigenous communities of Himachal Pradesh and TK that is with held within these communities.

Sh. Kunal Satyarthi briefed the participating about the historical background and purpose of organising one day State Level Workshop on “National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and Sixth National Report to Convention on Biological Diversity”. He informed the participants about the activities of the Himachal Pradesh State Biodiversity Board (HPSBB) and various steps being taken up by HPSBB for implementation of the Biological Diversity Act, 2002 in the State.

Dr. Ishwar C. Poojar, Project Manager, UNEP GEF MoEFCC ABS Project, NBA, Chennai briefed about CBD history, NBAP, NBT importance and preparation of India's sixth National Report to CBD and its relevance.

Prof. P.L. Gautam, Former Chairman, National Biodiversity Authority, Chennai in his special address made participants aware about important provisions of Biological Diversity Act, 2002 and its importance in conservation and sustainable use of precious biological Resources of the State.



Dr. Pankaj Sharma, Sr. Scientific Professional, HPSBB thanked all the participants from the representatives of various line departments (such as Agriculture, Ayurveda, Forests, Health, Education, Industry, Tourism, Planning, Horticulture, Fisheries, Animal Husbandry, etc.), indigenous peoples, local communities, as well as representatives from relevant sectors, business, civil society organizations and non-governmental organizations (NGO's) be presented in One day State Level Workshop on "*National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and Sixth National Report to Convention on Biological Diversity*" on the behalf of Himachal Pradesh State Biodiversity Board, Shimla.

### **Technical Session**

After tea break Sh. Kunal Satyarthi, Member secretary, HP State Biodiversity Board in his presentation/talk described the objectives of CBD mentioning that the Convention is legally binding and Parties are obliged to implement its provisions and it addresses issues relating to research and training, public education and awareness, and technical and scientific cooperation. Seven thematic programmes of CoP namely Agricultural biodiversity, Dry and sub-humid lands biodiversity, Island biodiversity, Marine and coastal biodiversity, Forest biodiversity, Mountain biodiversity, and Inland waters biodiversity were also mentioned. He said that National Biodiversity Strategy and Action Plans (NBSAPs) as per Article 6 of CBD and National Reports as per Article 26 are two mandatory obligations of CBD on all parties. Aichi Biodiversity Targets were also elaborated and in his talk Mr. Satyarthi indicated ministries and departments of Government of India (GoI) who are actively participating towards NBP and combined allocation of funds of MoEFCC and 23 ministries/department of GoI that contribute towards biodiversity conservation and NBT. In addition activities of Board were briefed mentioning approaches in BMC constitution, BMC activities, Peoples Biodiversity Register (PBR) Documentation and Technical Support Group (TSG) formation, PBR process, PBR constituted so far, Digitization of PBR, Online ABS platform, ABS Mechanism and activities that board is performing towards identification and notification of Sacred Grooves of HP were also elaborated.

Mr. Ishwar C. Poojar, Project Manager, UNEP GEF MoEFCC ABS Project, NBA, Chennai briefed about CBD history, NBAP, NBT importance and preparation of India's sixth National Report to CBD and its relevance. Biogeographic zones of India were described and importance of Biodiversity and need for its conservation and sustainable use of its components were also highlighted. Aichi Biodiversity 20 targets were briefed and 12 targets that India took



up as national targets were also described. CBD and its protocols were described followed by UNDP and strategic plan for biodiversity conservation. Next Mr. Poojar Briefed about 5 National Reports its outcome and what was expected from the present reporting. NBSAP (Strategy and Action plans) since 1999 were also told. India's 12 National Biodiversity targets were elaborated and explained. After explaining the key features of NBAP, Aichi Biodiversity Targets and merger of 20 to 12 targets of National Biodiversity Targets were also discussed. In the end 17 sustainable goals of Niti Ayog sustainable development goals (SDGs) were discussed and their relevance with National Biodiversity Targets were also discussed. In the end reporting requirements under article 26 of CBD were discussed and explained.

Dr. M.L. Thakur, State Project Coordinator, UNEP-GEF-MoEF ABS Project gave presentation on worksheet for National Biodiversity Action Plan (NBAP) and National Biodiversity Targets (NBTs).

Dr. Pankaj Sharma, Sr. Scientific Professional, HPSBB gave presentation on worksheet for Mobilizing resources and mainstreaming biodiversity into sectoral plans and programmes.

Thereafter, group activities on initiatives/activities/ programmes at state level for achieving NBTs and mapping of schemes for assessing their contribution towards biodiversity were held regarding inputs from the representatives of various line departments to fill the Worksheet-I and Worksheet-II. After that, each Group leader gives his/her presentation about the various activities/plans/projects on going in their departments/organization/universities which are helpful in the preparation of National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and Sixth National Report to Convention on Biological Diversity. The one day State Level Workshop on “*National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and Sixth National Report to Convention on Biological Diversity*” ended with a vote of thanks by Dr. M.L. Thakur State Project Coordinator UNEP-GEF, Himachal Pradesh State Biodiversity Board, Shimla.

### **TECHNICAL SESSION 1:**

#### **National Biodiversity Action Plan (NBAP) and National Biodiversity Targets (NBTs)**

<b>STATE</b>	<b>Himachal Pradesh</b>
<b>NAME OF THE PARTICIPANT</b>	<b>Registration List</b>
<b>MINISTRY/DEPARTMENT</b>	<ul style="list-style-type: none"><li>• HP State Biodiversity Board</li><li>• Department of Fruit Science, Forest product, Vegetable, Floriculture &amp; landscape, Silviculture, Seed Science, Agroforestry, Entomology, Pathology, Environmental Science, Soil Science, Basic Science; Dr YS Parmar UHF Nauni, Solan.</li><li>• HP Forest Department</li><li>• Himalayan Forest Research Institute Shimla</li><li>• Department of Biotechnology, Biosciences &amp; Chemistry, Centre for Environmental Studies, HPU Shimla</li><li>• HIMURJA, Kasumpti, Shimla</li><li>• HP Power corporation</li><li>• NBPGR, Regional Station, Shimla</li><li>• Medicinal plant lab, Indian Institute of Technology Mandi</li><li>• CSIR-Institute of Himalayan Bioresources, Palampur</li><li>• GB Pant National Institute of Himalayan Environment and Sustainable development, Himachal Unit, Mohal, Kullu</li><li>• NSS, NCC, Eco club, Bharat scout &amp; guide; Department of Higher Education</li><li>• Department of Biosciences, CPU, Hamirpur</li><li>• Research Institute in Indian system of Medicine, Jogindernagar</li><li>• Department of Fisheries, HP</li><li>• Ayurveda, National AYUSH Mission Medicinal Plant Sector, NMPB-Centre Sector Scheme; Ayurveda NMPB, Jogindernagar</li><li>• ICAR-IARI regional Station, Shimla</li><li>• CSKHPKV, Palampur</li><li>• Department of Agriculture, HP</li><li>• Department of Biotechnology, Jaypee University, Solan</li></ul>

	<ul style="list-style-type: none"> <li>• Department of Health and Family welfare, HP</li> <li>• Career Point University, Hamirpur</li> </ul>
--	--

## WORKSHEET

### A. Integration of biodiversity concerns into state level policies, plans and programmes

#### 1. Please indicate the departments that you are aware, wherein activities directly relevant to biodiversity conservation are underway.

- HP State Biodiversity Board
- Department of Fruit Science, Forest product, Vegetable, Floriculture & landscape, Silviculture, Seed Science, Agroforestry, Entomology, Pathology, Environmental Science, Soil Science, Basic Science; Dr YS Parmar UHF Nauni, Solan.
- HP Forest Department
- Himalayan Forest Research Institute Shimla
- Department of Biotechnology, Biosciences & Chemistry, Centre for Environmental Studies, HPU Shimla
- HIMURJA, Kasumpti, Shimla
- HP Power corporation
- NBPGR, Regional Station, Shimla (NAIP (GEF) project)
- Medicinal plant lab, Indian Institute of Technology Mandi
- CSIR-Institute of Himalayan Bioresources, Palampur
- GB Pant National Institute of Himalayan Environment and Sustainable development, Himachal Unit, Mohal, Kullu
- NSS, NCC, Eco club, Bharat scout & guide; Department of Higher Education
- Research Institute in Indian system of Medicine, Jogindernagar
- Department of Fisheries, HP
- Ayurveda, National AYUSH Mission Medicinal Plant Sector, NMPB-Centre Sector Scheme; Ayurveda NMPB, Jogindernagar
- ICAR-IARI regional Station, Shimla
- CSKHPKV, Palampur
- Department of Agriculture, HP
- Department of Biotechnology, Jaypee University, Solan
- Department of Health and Family welfare, HP
- Department of Biosciences, Career Point University, Hamirpur

#### 2. Please list documents/reports related to implementation of CBD, or other multilateral environmental agreements such as in the area of Climate Change, Hazardous Waste Management etc. prepared in your state that could contribute to NBTs such as 'State Action Plan on Climate Change'.

- State Strategy and Action Plan on Climate Change

- Biotechnology in Himachal Pradesh
- Response assessment & processing of knowledge base to serve long term management and use of biodiversity in the Himalaya-focus on representative protected sites
- Conservation and sustainable use of medicinal plants in Himachal Pradesh, North West Himalaya
- Up-scaling applicability of ex-situ mechanism for conservation and utilization of high value plant species-focusing on promotion of conservation education & capacity buildings
- Studies on Diversity and Conservation Status of Plants in a Proposed Cold Desert Biosphere Reserve of Trans and North West Himalaya
- Study on the assessment and conservation prioritization of plant diversity along an altitudinal gradient in Himachal Pradesh, North Western Himalaya
- Expanding Outreach through Participation of Youth in Real time/Field observation to Benefit the Education (PROBE) in the Indian Himalayan Region
- Preparation of a management plan for Medicinal plants in the Catchment Area of Parbati Hydro Electrical Project
- Improvement of infrastructural facilities in the Botanical Garden for conservation of rare endangered and threatened plants in the Arboretum at Mohal and Herbal Garden at Doharanala Kullu, Himachal Pradesh
- Ecological Evaluation Mapping and Conservation Prioritization of Floristic Diversity of the Spiti Valley in a Proposed Cold Desert Biosphere Reserve in Trans Himalaya
- Understanding biodiversity patterns and processes under changing resource use and climate scenario in Indian Himalaya – ecological and social implications
- Promoting conservation and sustainable utilization of Himalayan Biodiversity Elements using biotechnological and physiological approaches
- Ecological evaluation, mapping and conservation prioritization of floristic diversity of the Spiti Valley in the Cold Desert Biosphere Reserve
- Conservation and Management of Pollinators for Sustainable Agriculture through Ecosystem based Approach
- Himalayan Ecosystems Research Project: Assessment and quantification of forest ecosystem services with special emphasis on pollination in the Indian Himalayan agro-ecosystems
- Community perceptions and vulnerability assessment of Biodiversity in the selected sites of Kullu district, Himachal Pradesh
- Study on the impact of Sainj Hydro-Electric Project on the Great Himalayan National Park (GHNP) in general and flora and fauna of the local area in particular
- All India Coordinated Research Project “Sacred Grove Ecosystem Service Assessment: Assessment of Ecosystem Services in Sacred Groves of Himachal Pradesh, North Western Himalaya”

- All India Coordinated Research Project “Preventing extinction and improving conservation status of threatened plants through applications of biotechnological tools”
  - Population Assessment, Standardization of Propagation Protocols and Establishment (ex situ & in situ) of Selected Species as a Part of Biodiversity Conservation Plan under Sainj Hydro-Electric Project in Himachal Pradesh
  - Scientific Research on Changing Climate and its impact on Floral Diversity and Ecosystem Services (Pollination) at Kullu region of IHR – a Citizen Science initiative
  - Promoting Pollinators using Community based Conservation Approach at Kullu, Himachal Pradesh
  - National Mission for Sustaining the Himalayan Ecosystem (NMSHE): Task Force-3, Forest and Plant Resources
  - National Mission for Sustaining the Himalayan Ecosystem (NMSHE) Task Force 5: Network Programme on Convergence of Traditional Knowledge Systems for Sustainable Development in the Indian Himalayan Region
  - Vulnerability assessment of mountain ecosystems due to climate change: Ecosystem structure and function.
  - Standardization of post-harvest technology for Wild Rose Hips and promotion as sustainable livelihood option among poor self-help women groups in Kullu Valley, Himachal Pradesh.
  - Assessment of floristic diversity and microbial association of the Birch – Rhododendron forest in Himachal Pradesh, North Western Himalaya, India
  - Establishment and Maintenance of Rural Technology Park for the Capacity Building and Socio-economic Upliftment of Rural Communities and Other Stakeholders in Himachal Pradesh
  - Preparation of Peoples’ Biodiversity Register in selected Panchayats of Kullu District, Himachal Pradesh
  - Community driven solid waste management in Himachal Pradesh: A step towards Swachh Bharat Mission
- 3. Please list the state specific legislations, strategies, policies, action plans etc. adopted in your state in areas relevant to biodiversity conservation and sustainable use (directly or indirectly) such as those relating to wetlands, forestry, fisheries, agriculture, etc.**
- State Strategy and Action Plan on Climate Change
  - Environment Master Plan Himachal Pradesh
  - Carbon Intensity, Himachal Pradesh
  - Forests or Carbon Sinks?
  - Himachal Pradesh Forest Department revised Policy on Eco-tourism, 2017

**B. Mapping of NBAP Action points with activities of Ministries/Departments/ Institutions of the State Government.**

Sl. No.	Name of Scheme / Programme	Implementing Agency / Department	Thematic Area of India's NBAP (One scheme/programme may contribute to more than one thematic area)											Contribution to total no. of thematic areas.
			TA 1	TA 2	TA 3	TA 4	TA 5	TA 6	TA 7	TA 8	TA 9	TA 10	TA 11	
1	<ul style="list-style-type: none"> <li>Implementation of Biological Diversity Act, 2002 and its provisions.</li> </ul>	HP State Biodiversity Board	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
2	<ul style="list-style-type: none"> <li>Working in the field of research and conservation of Horticulture, Forestry and allied branches with advancement of basic and applied research pertaining to Horticulture, Forestry and other allied sciences.</li> <li>Extension and dissemination of Scientific information among rural masses of the state and developing linkages with the State/Central/International Institutions, NGOs, Orchardists, Farmers and Industrialists for ensuring economic and ecological</li> </ul>	Dr YS Parmar UHF Nauni, Solan.	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9

	<p>security in the State.</p> <ul style="list-style-type: none"> <li>• Strategic, need based and farmer oriented development of horticulture and forestry in Himachal Pradesh through excellence in education and research for food and ecological security, improved livelihood opportunities and economic prosperity of farming communities covers the mission of University.</li> </ul>													
3	<ul style="list-style-type: none"> <li>• CSS on Medicinal plant conservation</li> <li>• R egular plantation Scheme</li> <li>• La ntana Eradication Programme</li> <li>• Pr otected area network management</li> <li>• Ec otourism site management</li> <li>• M onkey sterilization programme</li> <li>• W orking plan/ Management Plans</li> <li>• M</li> </ul>	HP Forest Department	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10



	id Himalayan project • SWAN Project													
4	<ul style="list-style-type: none"> <li>• Survey and Evaluation of Silvi-Pastoral Systems in Himachal Pradesh and Its Role in Sustaining Community Livelihood</li> <li>• Carbon sequestration potential of existing land use system in Lahaul Valley, Himachal Pradesh.</li> <li>• Identification, Ecological Assessment for Selection and Screening of Superior and Insect Pest Resistant Clones</li> <li>• Ecological studies in Alpine pastures of District Shimla, Himachal Pradesh.</li> <li>• Awareness Training for Conservation of Pinus gerardiana (Chilgoza) through Scientific Intervention in Moorang Forest Range of District Kinnaur, Himachal Pradesh</li> <li>• Assessment of</li> </ul>	Himalayan Forest Research Institute Shimla	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>		7

	<p>Floristic Diversity in Tundah Wildlife Sanctuary of District Chamba, Himachal Pradesh for Its Long Term Ecological Monitoring.</p> <ul style="list-style-type: none"><li>• 5- Innovative Technologies for Climate change mitigation and Biodiversity Conservation with Alternate Livelihood opportunities for Mountain Communities.</li></ul>													
5	<ul style="list-style-type: none"><li>• Centre of Environmental Studies and the Institute of Integrated Himalayan Studies (IIHS), Human Geography, Remote Sensing, Population Studies, Environment, Integrated Himalayan Studies, application of Biotechnology in Forestry, Agriculture and Horticulture, Mycorrhizal Technology, Ecology, Taxonomy, Ethno Botany, Biodiversity, Wood Science, Honeybees, Cytogenetics,</li></ul>	HPU Shimla		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	6

	<p>and Plant etc. are dedicated departments and institutes under HPU concerned with the development of conservation activities and sustainable practices.</p> <ul style="list-style-type: none"> <li>• Sustainable Development, Poverty, Tribal Studies, Human Resource Development and Cultural Studies, Folk Literature, Handicrafts are working towards study of Traditional Knowledge and conservation of such valuable knowledge present in the state.</li> </ul>													
6		HIMURJA, Kasumpti, Shimla								<input type="checkbox"/>				1
7	<ul style="list-style-type: none"> <li>• Conservation and management of plant genetic resources of western Himalayas comprising Himachal Pradesh and Jammu and Kashmir (now referred to as Northwest sub-Himalayan and high attitude Himalayan Region, Zone</li> </ul>	NBPGR, Regional Station, Shimla	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	8

	<p>VI under NATP-PB).</p> <ul style="list-style-type: none"> <li>• A field genebank of temperate fruits and newly introduced fruit plants, and largest germplasm collection of french bean, amaranth, buckwheat is being maintained at the station. The station has also a facility of medium-term storage for conserving orthodox seeds where seeds can be stored up 12-15 years without losing viability.</li> <li>• This station also acts as National Active Germplasm Site (NAGs) for amaranth, french bean, buckwheat and temperate fruits.</li> </ul>													
8	<ul style="list-style-type: none"> <li>• Study of flora of Kamand region</li> <li>• Establish a Botanical Garden with collection of local flora</li> <li>• Develop and maintain Herbarium</li> <li>• In-situ conservation, collection and</li> </ul>	Medicinal plant lab, Indian Institute of Technology Mandi	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		5

	<p>maintenance of medicinal plants</p> <ul style="list-style-type: none"> <li>• Documentation , digitization and dissemination of the related information</li> <li>• Undertake R&amp;D in the related area (Phytochemical profiling of selected plants, understanding the local edible plants, Bioengineering plants etc)</li> </ul>													
9	<ul style="list-style-type: none"> <li>• Advanced research aspects focused on bioresources for catalysizing bioeconomy in a sustainable manner</li> <li>• Remote sensing and mapping facilities; internationally recognized herbarium; animal house facility; pilot plants in nutraceuticals, essential oil and herbals; farms and polyhouses</li> <li>• Promoting industrial growth through technological interventions is a constant endeavor and several technologies developed by</li> </ul>	CSIR-Institute of Himalayan Bioresources, Palampur	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8

	<p>the institute are transferred to industries.</p> <ul style="list-style-type: none"> <li>For socio-economic upliftment, regular training programmes and advisory services are rendered to farmers, floriculturists, tea planters and small entrepreneurs involved in food processing sector.</li> </ul>													
10	<ul style="list-style-type: none"> <li>L and and Water Resource management</li> <li>C onservaion of Biological diversity</li> <li>E nvironment Impact Analysis</li> <li>A wareness programme about Biodiversity conservation</li> </ul>	GB Pant National Institute of Himalayan Environment and Sustainable development, Himachal Unit, Mohal, Kullu	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>		5
11	<ul style="list-style-type: none"> <li>Promotion of medicinal plants, conservation, multiplication &amp; awareness for cultivation</li> <li>Emphasis on medicinal plants in Herbal garden of</li> </ul>	Research Institute in Indian system of Medicine, Jogindernagar		<input type="checkbox"/>			<input type="checkbox"/>					<input type="checkbox"/>		3

12	<ul style="list-style-type: none"> <li>Welfare Schemes for farmers and fishermans under Blue Revolution Scheme.</li> <li>Establishment of Fish seed hatcheries for Indian Major Carps and other specific cultivable fin fish.</li> <li>freshwater fish culture</li> <li>Trout Hatcheries</li> </ul>	Department of Fisheries, HP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	7
13	National AYUSH Mission, NMPB-Centre Sector Scheme; Ayurveda NMPB	Ayurveda Department, Himachal Pradesh.	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>								3
14	<ul style="list-style-type: none"> <li>Improvement of Wheat for Northern Hills</li> <li>Improvement of Barley for Northern Hills</li> <li>To collect, maintain and evaluate native and exotic germplasm of temperate fruit crops.</li> <li>Utilize the temperate fruit germplasm in the improvement of temperate fruit crops.</li> <li>To identify research gaps in improving productivity of temperate fruit crops in different agro-</li> </ul>	ICAR-IARI regional Station, Shimla	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>		<input type="checkbox"/>	6



	climatic regions of the country. • To develop cost effective methods for controlling pests and diseases of temperate fruit crops.													
15	• Specific research in fundamental and applied aspects of crop improvement, natural resource management, plant protection, animal health, animal production and livestock and product technology • Growth and development of various disciplines of agriculture and animal husbandary. • Socio-economic studies on various aspects of research and development so as to advise the policy makers in these fields in devising their policies.	CSKHPKV, Palampur	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	6
16	• Japan International Cooperative agency (JICA) contact mission • Dr. Y. S.	Department of Agriculture, HP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		6

	<div>Parmar Kisan Swarozgar Yojna.</div> <div><div><div>• Rajiv Gandhi micro-irrigation scheme</div><div>• Uttam Chaara Utpadan Yojna</div><div>• Lift irrigation and borewell scheme</div></div></div>													
17	Department of Biotechnology, working on in-situ (Tissue culturing) conservation of various commercially important medicinal plant species of HP	Jaypee University, Solan	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>					<input type="checkbox"/>		<input type="checkbox"/>	5
18	<div>• MOU signed with CSIR, Palampur to promote eco-friendly and pollution free environment.</div> <div>• MOU signed with IIT Bombay to promote latest IT knowledge amongst rural population by training students and other youths of the region.</div> <div>• MOU signed with Global Crop Diversity Trust, Bonn, Germany to support the conservation and rural development programmes to ensure food security in</div>	Career Point University, Hamirpur		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		<input type="checkbox"/>	5

	developing countries.													
19	<ul style="list-style-type: none"> <li>• Planning, promotion, co-ordination and overseeing the implementation of environmental programs.</li> <li>• Prevention &amp; control of pollution, protection of environment, in the framework of these legislations: Water (Prevention &amp; Control of Pollution) Act, 1974, Water (Prevention &amp; Control of Pollution) Cess Act, 1977, Air (Prevention &amp; Control of Pollution) Act, 1981, Environment (Protection) Act, 1986.</li> </ul>	Pollution Control Board, Shimla				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	4
20	<ul style="list-style-type: none"> <li>• Assessment of Snow covers in various parts of Himachal.</li> <li>• Spacio-Temporal Assessment of the tree species.</li> <li>• Impact of Climate change on cereals, fruit crops and cropping</li> </ul>	State Centre on Climate Change, HIMCOSTE, Shimla		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					<input type="checkbox"/>	4

	systems • Vulnerability assessment of the State.													
NBAP Thematic Area		Description of NBAP Thematic Area <sup>1</sup>												
TA-1		Strengthening and integration of <i>in situ</i> , on-farm and <i>ex situ</i> conservation												
TA-2		Augmentation of natural resource base and its sustainable utilization: Ensuring inter- and intra-generational equity												
TA-3		Regulation of introduction of invasive alien species and their management												
TA-4		Assessment of vulnerability and adaptation to climate change, and desertification												
TA-5		Integration of biodiversity concerns in economic and social development												
TA-6		Pollution impacts												
TA-7		Development and integration of biodiversity databases												
TA-8		Strengthening implementation of policy, legislative and administrative measures for biodiversity conservation and management												
TA-9		Building of national capacities for biodiversity conservation and appropriate use of new technologies												
TA-10		Valuation of goods and services provided by biodiversity, and use of economic instruments in decision making processes												
TA-11		International cooperation												

### C. Update on activities undertaken in your state, in line with Biological Diversity Act (BDA), 2002

1. State Biodiversity Boards (*Section 22 of BDA*):
  - a) Establishment of State Biodiversity Board (SBB) (Yes/No): **Yes**
  - b) What is the composition of the SBB? \_\_\_\_\_
  - c) What is the frequency of meetings of the SBB? \_\_\_\_\_
2. Notification of State Biodiversity Rules as per Section 63 of BDA (Yes/No): **No**
3. Biodiversity Management Committees (*Section 41 of the BDA*):
  - a) Number of Biodiversity Management Committees (BMCs) constituted in your State: **416**
  - b) Challenges being faced:
4. Has your state constituted a State Biodiversity Fund as stipulated in Section 32 of BDA? **No**
5. People's Biodiversity Registers (PBRs) [*Refer to Section 41; Rule 22(6)*]
  - a) How many PBRs have been prepared in your state in last 5 years? **06**
  - b) Please list them year-wise.
    1. Narwana Khas BMC, Districh Kangra, Himachal Pradesh (2016)

<sup>1</sup> See Annexure for 175 Action Points of National Biodiversity Action Plan, 2008

2. Jana BMC, District Kullu, Himachal Pradesh (2017)
  3. Sainj BMC, District Shimla, Himachal Pradesh (2017)
  4. Shakrori BMC, District Shimla, Himachal Pradesh (2017)
  5. Batal BMC, District Solan, Himachal Pradesh (2017)
  6. Tandi BMC, District Kullu, Himachal Pradesh (2017)
  - c) How many PBRs have been posted online?  
In the process of digitizing PBRs
  - d) What are the problems being faced for the preparation of PBRs?
  - e) What is the level of technical support received from various agencies for the preparation of PBRs?  
TSGs are all from reputed Government academic Institutes/Universities.
6. Does your state have an updated State Biodiversity Strategy and Action Plan (SBSAP)?  
If not, has the process been initiated?  
No, Till date.
7. Biodiversity Heritage Sites (*Section 37 of the BDA*)
- a) Have Biodiversity Heritage Sites been notified by your state?  
No, But work has been given to WWF India, Shimla for Identification and documentation of Sacred Grooves of HP.
  - b) If so, list them  
Documentation of Sacred Grooves of Kullu and Shimla Districts in Himachal Pradesh is in progress.
  - c) Have rules/guidelines been framed for the management of the above sites?
  - d) No, Till date.
8. Threatened species (*Section 38 of the BDA*)
- b) Have any specific species (plant/ animal/ microbe, etc.) endemic to your state have been notified as threatened species by the Central Government?  
List of 38 species i.e., 22 Plant species and 16 Animal species has been sent to the GoHP to MoEF&CC (GoI) to be declared them as threatened species of H.P.
  - c) Has any action been for rehabilitation of the notified species?

## City Biodiversity Index

City Biodiversity Index (CBI) is a self-assessment tool for evaluating and monitoring the progress of biodiversity conservation efforts by cities against their own individual baselines. A list of indicators of CBI has been provided below. Some of these indicators are also reflected in features for smart cities under the Smart Cities Mission launched by the Government of India.

Please indicate if the information related to following indicators is available for any of the cities in your state and the agencies who could be contacted for the information.

Names of cities: \_\_\_\_\_

Indicators	Availability of information (Yes/No)	Relevant departments/ agencies in the state
<b>Native Biodiversity in the City</b>		
1. Proportion of Natural Areas in the City		
2. Connectivity Measures		
3. Native Biodiversity in Built Up Areas (Bird Species)		
4. Change in Number of Vascular Plant Species		
5. Change in Number of Bird Species		
6. Change in Number of Butterfly Species		
7. Change in Number of Species (any other taxonomic group selected by the city)		
8. Change in Number of Species (any other taxonomic group selected by the city)		
9. Proportion of Protected Natural Areas		
10. Proportion of Invasive Alien Species		
<b>Ecosystem Services provided by Biodiversity</b>		
11. Regulation of Quantity of Water		
12. Climate Regulation: Carbon Storage and Cooling Effect of Vegetation		
13. Recreation and Education: Area of Parks with Natural Areas		
14. Recreation and Education: Number		

of Formal Education Visits per Child Below 16 Years to Parks with Natural Areas per Year		
<b>Governance and Management of Biodiversity</b>		
15. Budget Allocated to Biodiversity		
16. Number of Biodiversity Projects Implemented by the City Annually		
17. Existence of Local Biodiversity Strategy and Action Plan		
18. Institutional Capacity: Number of Biodiversity Related Functions		
19. Institutional Capacity: Number of City or Local Government Agencies Involved in Inter-agency Co-operation Pertaining to Biodiversity Matters		
20. Participation and Partnership: Existence of Formal or Informal Public Consultation Process		
21. Participation and Partnership: Number of Agencies/Private Companies/NGOs/Academic Institutions/International Organisations with which the City is Partnering in Biodiversity Activities, Projects and Programmes		
22. Education and Awareness: Is Biodiversity or Nature Awareness Included in the School Curriculum		
23. Education and Awareness: Number of Outreach or Public Awareness Events Held in the City per Year		



## **TECHNICAL SESSION 2:**

### **Mobilizing resources and mainstreaming biodiversity into sectoral plans and programmes**

#### **Worksheet**

**A.** This exercise is for mapping of programmes/activities and resource allocation by various state level departments and agencies for contribution to biodiversity conservation and achievement of NBTs.

1. Is there a separate budget head for activities related to biodiversity conservation in your state?
2. Are there specific programmes/schemes for biodiversity conservation in your state?  
Yes
3. Is impact (positive/negative) on biodiversity considered a parameter while allocating funds for other developmental programmes/schemes?  
Yes
4. Are experts familiar with biodiversity issues included in Committees reviewing various schemes/proposals for sanctioning of funds by relevant Ministries?  
Yes
5. Please list departments and their programmes/schemes with any relevance to biodiversity. Also please indicate whether the funds allocated under the scheme are spent for direct or indirect contribution to biodiversity. If indirect, the same may also be classified as Indirect high, Indirect medium and Indirect low as per the attached criteria and examples.

<b>Department</b>	<b>Programmes/ schemes</b>	<b>Direct/ indirect contribution to biodiversity conservation</b>
Crop Improvement, Seed Science & Technology	Courses at UG and PG level	Direct as well as Indirect
Research Institute in Indian System of Medicine, Jogindernagar	Promotion of medicinal plants, conservation, multiplication & awareness for cultivation	Emphasis on medicinal plants in Herbal garden of Department of Ayurveda
GBPNIHESD, Mohal, Kullu	Land and Water Resource management, Conservation of Biological diversity, Environment Impact Analysis, Awareness programme about Biodiversity conservation	Direct

AYUSH/Forest Department	CSS on Medicinal plant conservation	Direct
HP Forest Department	High Altitude Transition zone project	Direct
Ministry of Agriculture /Forest	CSS National Bamboo Mission	Direct
Ministry of Agriculture/Forest	CSS Agroforestry Mission	Indirect
HP Forest Department	Regular plantation Scheme	Direct & Indirect
	Lantana Eradication Programme	Direct
	Protected area network management	Direct
	Ecotourism site management	Indirect
	Monkey sterilization programme	Indirect
	Working plan/ Management Plans	Indirect
	Mid Himalayan project	Direct
	SWAN Project	Direct
Department of Fisheries	Blue Revolution, RKVY Scheme	In Situ conservation
Department of Ayurveda	National AYUSH Mission, NMPB Centre Sector Scheme, AHCs network in state, Drug purchase for Health	Direct
DST	SERB Bowl scheme	Indirect
MoEF	Environment Programme	Indirect
ICAR-IARI, Regional Station, Shimla	Mandate	Survey, Collection, Conservation, Evaluation, Utilization of temperate fruit species and wheat and barley in breeding programme
Directorate of Land Records	Digital India Land records Modernization Programme, Agricultural Census	Indirect

6. Are any of the above programmes being undertaken in a collaborative model/ partnership with public/ private organizations/ CSOs, etc? If yes, please list the organizations that work in collaboration for implementation of the above programmes.
7. Are biodiversity-related indicators considered as part of monitoring and evaluation framework to review the progress of schemes/programmes in various Departments?. If yes, please list them.
8. While formulating schemes and programmes, are conservation measures defined and funds allocated accordingly?
9. Is there a role for your department in implementation of NBAP/SBSAP?. If so, please elaborate.

**B.** Biodiversity related activities are being undertaken by various institutions in different states. Please list the major institutions engaged in biodiversity related programmes, whose activities may be linked to achievement of NBTs

S. No.	NBT	Institutions/organizations engaged in relevant activities in your state
1.	<b>Biodiversity Awareness</b> (Incorporating awareness and attitudes towards environmental conservation through communication and mainstream education)	1. HP State Biodiversity Board 2. Dr YS Parmar UHF Nauni, Solan. 3. HP Forest Department 4. Himalayan Forest Research Institute Shimla 5. NBPGR, Regional Station, Shimla 6. Medicinal plant lab, Indian Institute of Technology Mandi 7. CSIR-Institute of Himalayan Bioresources, Palampur 8. GB Pant National Institute of Himalayan Environment and Sustainable development, Himachal Unit, Mohal, Kullu 9. ICAR-IARI regional Station, Shimla 10. CSKHPKV, Palampur 11. Department of Agriculture, HP
2.	<b>Biodiversity Valuation and Poverty Alleviation</b> (Incorporating natural resource /biodiversity/ ecosystem service values in national and state planning processes and development programmes)	1. HP State Biodiversity Board 2. HP Forest Department 3. Himalayan Forest Research Institute Shimla 4. NBPGR, Regional Station, Shimla 5. Ayurveda, National AYUSH Mission Medicinal Plant Sector, NMPB-Centre Sector Scheme; Ayurveda NMPB, Jogindernagar 6. CSIR-Institute of Himalayan Bioresources, Palampur
3.	<b>Safeguarding Natural Habitats</b> (Forest, Aquatic ecosystems, mangrove cover and	1. HP State Biodiversity Board 2. HP Forest Department 3. Himalayan Forest Research

	coastal area etc.)	<p>Institute Shimla</p> <ol style="list-style-type: none"> <li>NBPGR, Regional Station, Shimla</li> <li>Ayurveda, National AYUSH Mission Medicinal Plant Sector, NMPB-Centre Sector Scheme; Ayurveda NMPB, Jogindernagar</li> <li>CSIR-Institute of Himalayan Bioresources, Palampur</li> <li>NBPGR, Regional Station, Shimla</li> <li>Medicinal plant lab, Indian Institute of Technology Mandi</li> <li>ICAR-IARI regional Station, Shimla</li> <li>CSKHPKV, Palampur</li> </ol>
11.	<b>Managing Invasive Species</b> (Invasive alien species and pathways are identified and strategies to manage them developed so that populations of prioritized invasive alien species are managed)	<ol style="list-style-type: none"> <li>CSIR-Institute of Himalayan Bioresources, Palampur</li> <li>NBPGR, Regional Station, Shimla</li> <li>Medicinal plant lab, Indian Institute of Technology Mandi</li> <li>ICAR-IARI regional Station, Shimla</li> <li>CSKHPKV, Palampur</li> <li>HP Forest Department</li> <li>Himalayan Forest Research Institute Shimla</li> <li>NBPGR, Regional Station, Shimla</li> </ol>
9.	<b>Sustainable Landscapes</b> (Measures are adopted for sustainable management of agriculture, forestry and fisheries)	<ol style="list-style-type: none"> <li>Himalayan Forest Research Institute Shimla</li> <li>NBPGR, Regional Station, Shimla</li> <li>ICAR-IARI regional Station, Shimla</li> <li>CSKHPKV, Palampur</li> <li>CSIR-Institute of Himalayan Bioresources, Palampur</li> <li>NBPGR, Regional Station, Shimla</li> <li>Department of Fisheries, HP</li> </ol>
8.	<b>Protected Areas</b> (Ecologically representative areas under terrestrial and inland water, and also coastal and marine zones, especially those of particular importance for species, biodiversity and ecosystem services)	<ol style="list-style-type: none"> <li>HP Forest Department</li> <li>Himalayan Forest Research Institute Shimla</li> <li>HP State Biodiversity Board</li> <li>CSIR-Institute of Himalayan Bioresources, Palampur</li> </ol>

5.	<b>Maintaining Genetic Diversity</b> (Genetic diversity of cultivated plants, farm livestock, and their wild relatives)	<ol style="list-style-type: none"> <li>1. CSIR-Institute of Himalayan Bioresources, Palampur</li> <li>2. Dr YS Parmar UHF Nauni, Solan.</li> <li>3. Himalayan Forest Research Institute Shimla</li> <li>4. NBPGR, Regional Station, Shimla</li> <li>5. Medicinal plant lab, Indian Institute of Technology Mandi</li> <li>6. GB Pant National Institute of Himalayan Environment and Sustainable development, Himachal Unit, Mohal, Kullu</li> <li>7. ICAR-IARI regional Station, Shimla</li> <li>8. Department of Biotechnology, Jaypee University, Solan</li> </ol>
6.	<b>Ecosystem Services</b> (Ecosystem services, especially those relating to water, human health, livelihoods and well-being and measures to safeguard them are identified)	<ol style="list-style-type: none"> <li>1. HP State Biodiversity Board</li> <li>2. HP Forest Department</li> </ol>
3.	<b>Access and Benefit Sharing</b> (Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from their Utilization as per the Nagoya Protocol are operational, consistent with national legislations)	<ol style="list-style-type: none"> <li>1. HP State Biodiversity Board</li> </ol>
2.	<b>Inclusive Governance</b> (An effective, participatory and updated national biodiversity action plan is made operational at different levels of governance).	
3.	<b>Protecting Traditional Knowledge</b> (National initiatives using communities' traditional knowledge relating to biodiversity are strengthened, with the view to protecting this knowledge)	<ol style="list-style-type: none"> <li>1. HP State Biodiversity Board</li> <li>2. CSIR-Institute of Himalayan Bioresources, Palampur</li> <li>3. Dr YS Parmar UHF Nauni, Solan.</li> <li>4. Himalayan Forest Research Institute Shimla</li> <li>5. GB Pant National Institute of Himalayan Environment and Sustainable development, Himachal Unit, Mohal, Kullu</li> <li>6. Himachal Pradesh University, Shimla</li> </ol>
7.	<b>Resource Mobilization</b> Opportunities to increase the availability of financial,	

	human and technical resources to facilitate effective implementation of the Strategic Plan for Biodiversity 2011–2020 and the national targets are identified and the Strategy.	
--	---	--



## State Level Workshop on



### “National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT) and India’s Sixth National Report to Convention on Biological Diversity”

**Organized by:**

**Himachal Pradesh State Biodiversity Board (HPSBB)**

**Venue: Regency Hall, Hotel Holiday Home, Shimla**

**Date: 19<sup>th</sup> February, 2018**

### **Programme Schedule**

9.30am - 10.00am	Registration	
10.00am - 10.10am	Lighting of Lamp	
10.10am - 10.20am	Welcome address & objectives of the workshop	<b>Sh. Kunal Satyarthi</b> Member Secretary, HPSBB
10.20am - 10.25am	Felicitation of Guests	
10.25am - 10.35am	Special Guest	<b>Dr. Ishwar C. Poojar</b> Project Manager UNEP-GEF-MoEF ABS Project National Biodiversity Authority, Chennai
10.35am - 10.45am	Guest of Honour	<b>Prof. P.L. Gautam</b> Former Chairman National Biodiversity Authority, Chennai
10.45am - 10.55am	Address by the Chief Guest	<b>Smt. Manisha Nanda</b> Addl. Chief Secretary Environment Science & Technology Govt. of Himachal Pradesh
10.55am - 11.00am	Vote of Thanks	<b>Dr. Pankaj Sharma</b> Sr. Scientific Professional, HPSBB
11.00am -11.15am	<b>Tea Break</b>	
<b>TECHNICAL SESSION</b>		
11.15 am - 11.55am	National Biodiversity Action Plan (NBAP), National Biodiversity Targets (NBT); Reporting and requirements for Sixth National Report to CBD	<b>Sh. Kunal Satyarthi</b> Member Secretary, HPSBB
11.55 am - 12.15pm	Convention on Biological Diversity (CBD) and implementation of Biological Diversity Act, 2002 & Rules 2004 in India	<b>Dr. Ishwar C. Poojar</b> Project Manager UNEP-GEF-MoEF ABS Project National Biodiversity Authority, Chennai



<b>12.15pm -12.25pm</b>	Presentation on worksheet for National Biodiversity Action Plan (NBAP) and National Biodiversity Targets (NBTs)	<b>Dr. M.L. Thakur</b> State Project Coordinator UNEP-GEF-MoEF ABS Project
<b>12.25pm -12.35pm</b>	Presentation on worksheet for Mobilizing resources and mainstreaming biodiversity into sectoral plans and programmes	<b>Dr. Pankaj Sharma</b> Sr. Scientific Professional, HPSBB
<b>12.35pm -2.00pm</b>	<b>Group Activity:</b> a. Initiatives/activities/ programmes at state level for achieving NBTs. b. Mapping of schemes for assessing their contribution towards biodiversity	
<b>2.00pm – 2.25pm</b>	Presentation on Each Group Activity	
<b>2.25pm -2.30pm</b>	Vote of Thanks & Way forward	<b>Dr. M.L. Thakur</b> State Project Coordinator UNEP-GEF
<b>2.30pm -3.00pm</b>	<b>Lunch</b>	

## GLIMPSES



**Welcome of Chief Guest Smt. Manisha Nanda, Addl. Chief Secretary, Environment Science & Technology Govt. of Himachal Pradesh**



**Lighting of Lamp**



**Welcome and introduction to workshop Address by Sh. Kunal Satyarthi, Member Secretary, HPSBB**



**Dignitaries on Dias**





**Special address by Dr. Ishwar C. Poojar**



**Special address by Prof. P.L. Gautam**



**Inaugural address by the Chief Guest Smt. Manisha Nanda, Addl. Chief Secretary, Environment Science & Technology Govt. of Himachal Pradesh**



**Vote of Thanks by Dr. Pankaj Sharma, Sr. Scientific Professional, HPSBB**







**Welcome of Prof. P.L. Gautam**



**Welcome of Dr. Ishwar C. Poojar**



**Participants during the workshop**



**Participants during the workshop**



**Participants during the workshop**



**Vote of thanks by Dr. M.L. Thakur**

## PRINT MEDIA COVERAGE

# प्रदेश की जड़ी-बूटियां खरीदने वाली कंपनियां बोर्ड को देंगी कुछ मुनाफा

शिमला में आयोजित कार्यशाला में जैव विविधता के संरक्षण को लेकर बनाई गई रणनीति

शिमला, 19 फरवरी (ब्यूरो): हिमाचल की करोड़ों की जड़ी-बूटियों को बेचकर मोटा मुनाफा कमाने वाली कंपनियों को अब कुछ हिस्सा जैव विविधता बोर्ड को देना होगा। जैव विविधता कानून 2002 में इसका पहला से ही प्रावधान है। बोर्ड के माध्यम से यह पैसा पंचायत स्तर पर गठित कमेटी को जाएगा। इसे लेकर राज्य का जैव विविधता बोर्ड प्रदेश की जड़ी-बूटियों को खरीदने वाली विभिन्न कंपनियों से बातचीत कर रहा है। जैव विविधता बोर्ड के सदस्य सचिव कुनाल सत्यार्थी ने बताया कि हिमालय कंपनी से बातचीत एडवॉकेट्स पर चल रही है। कंपनियों के साथ जल्द ही एक सम्मेलन भी आयोजित किया जा सकता है।

हिमाचल से हर साल 2000 करोड़ से ज्यादा की जड़ी-बूटियां प्रदेश से बाहर भेजी जाती हैं, लेकिन मार्केटिंग की उचित व्यवस्था न होने से स्थानीय लोगों को जड़ी-बूटियां औने-पौने दाम पर बेचनी पड़ती हैं। यह देखते हुए राज्य का जैव विविधता बोर्ड मार्केटिंग की व्यवस्था करने जा रहा है। इसे लेकर सोमवार को शिमला में आयोजित कार्यशाला में भी चर्चा की गई। इसमें विभिन्न विभागों के अधिकारियों ने स्टेट एक्शन प्लान तैयार किया। मुख्य सचिव पर्यावरण विज्ञान एवं प्रौद्योगिकी मनीषा नंदा ने जैव विविधता और



शिमला : जैव विविधता पर आयोजित कार्यशाला के उद्घाटन अवसर पर अतिरिक्त मुख्य सचिव मनीषा नंदा को स्मृति चिन्ह भेंट करते अधिकारी।

जड़ी-बूटियों के संरक्षण और संवर्द्धन के लिए संबद्ध विभागों के साथ-साथ आम आदमी से आगे आने का आह्वान किया। उन्होंने कहा कि जैव विविधता होगी, तो ही हम रहेंगे। इसे बचाने के लिए प्रथम चरण में गत वर्ष शिमला, सिरमौर, चम्पा और कुल्लू को चयनित किया गया था। इसके

तहत जैव विविधता प्रबंधन समितियों का गठन किया गया। कार्यशाला में पूर्व अध्यक्ष राष्ट्रीय जैव विविधता प्राधिकरण चेन्नई के प्रो. पी.एल. गौतम और परियोजना प्रबंधक राष्ट्रीय जैव विविधता प्राधिकरण चेन्नई डा. ईश्वर सी. पूजार ने जैव विविधता के संरक्षण के लिए सभी वर्ग के लोगों से आगे आने की अपील की।



वर्कशॉप शिमला में एक दिवसीय कार्यशाला में बोली एसीएस मनीषा नंदा

## जैव विविधता संरक्षण समय की जरूरत

हिमाचल दस्तक ड्यूरी। शिमला

प्रदेश में जैव विविधता और जटिल-भूटियों का संरक्षण और संवर्धन समय की जरूरत है। इसके लिए विभागों के सह-स्तर आम आदमी का सहयोग भी अत्यंत आवश्यक है। यह बात अतिरिक्त मुख्य सचिव पर्यावरण विज्ञान और प्रौद्योगिकी मनीषा नंदा ने राष्ट्रीय जैव विविधता कार्य योजना, लक्ष्य और जैव विविधता सम्मेलन पर छठी राष्ट्रीय रिपोर्ट के लिए 4 जिलों में 404 पूर्व के लिए 404 स्थलों का गठन आयोजित एक दिवसीय राज्य स्तरीय कार्यशाला में कहा। कार्यशाला का उद्देश्य प्रदेश में जैव विविधता को बचाए रखने के लिए तैयार की जाने वाली कार्य योजना के लिए आवश्यक बिंदुओं पर चर्चा कर रणनीति तैयार करना है। उन्होंने कहा कि जैव विविधता बोर्ड द्वारा तैयार कार्य योजना के प्रथम चरण में गत वर्ष शिमला, सिरमौर, चंबा और कुल्लू को चयनित किया गया था। इसके तहत जैव



विविधता प्रबंधन समितियों का गठन किया गया। उन्होंने कहा कि चार जिलों में इस उद्देश्य की पूर्ति के लिए 404 स्थलों का गठन किया गया है। इन जिलों के प्रत्येक पंचायत को एक लाख रुपये की राशि

इस कार्य के लिए प्रदान की गई है। उन्होंने बताया कि अगले चरण में किन्नोर, लद्दाख-पश्चिम, मंडी और कांगड़ा जिले में भी इसी अनुरूप कार्य किया जाएगा। उन्होंने कहा कि इस एक दिवसीय कार्यशाला के दौरान विभिन्न विशेषज्ञों द्वारा दिए गए सुझावों और चर्चा के उद्देश्य निम्नलिखित से आगामी जैव विविधता समिति पर छठी रिपोर्ट के

### विदेशों में भी हो रहा काम

कार्यशाला में पूर्व जलवायु राष्ट्रीय जैव विविधता प्रतिकारण केन्द्र के जे. पी. शर्मा ने संबोधित किया। उन्होंने जैव विविधता संरक्षण कार्य समय की प्रमुख आवश्यकता बताई। उन्होंने कहा कि न केवल देश में, बल्कि विदेशों में भी इस पर गहन कार्य किए जा रहे हैं। परियोजना प्रबंधक राष्ट्रीय जैव विविधता प्रतिकारण केन्द्र डॉ. ईश्वर की भुज्जर ने भी संबोधित किया।

लिए प्रदेश सरकार/सकल कार्य योजना में सम्मिलित होगा। सहायक सचिव राज्य जैव विविधता बोर्ड कुमाल सारवाही ने बताया कि इस कार्यशाला में लगभग 60 प्रतिभागियों शामिल रहे हैं। उन्होंने बताया कि इस कार्य के विस्तार के लिए जिला में प्रत्येक स्तर पर कार्यशालाओं का आयोजन कर लोगों को जैव विविधता के संरक्षण के संकल्प में उनके अधिकारों और कर्तव्यों के प्रति जागरूकता प्रदान की जाएगी।

## 22 plant species threatened in Himachal

State Biodiversity Board also lists 16 animal species as threatened, waiting for Centre's notification

ARCHANA PHULL  
SHIMLA, 10 FEBRUARY

The Himachal Pradesh State Biodiversity Board has listed 22 species of plants and 16 of animals found in the hills of Himachal Pradesh as threatened.

"Separate committees of experts, constituted by the Board's notification in December 2016, were asked to examine and propose threatened species of plants and animals. On the basis of their report, we sent a list of 38 species for notification by Centre," said member secretary of the Board, Kunal Satyarthi.

Some threatened plant species from HP includes Mohra, Atis, Salam Panja, Ner Dhoo and Ratanjot, and that of animals are Himalayan musk deer, Bearded, White Rumped Slender billed and Red headed vultures, Golden



Additional Chief Secretary, Manisha Nanda being presented memento by member secretary of state biodiversity board, Kunal Satyarthi at the workshop.

Mahseer and snow leopard.

Satyarthi, who was at the workshop on the national biodiversity action plan and targets on Monday, revealed said after central notification as threatened plant species, the trade of some species could be prohibited depending on situation, and for others it could be regulated. "We can regulate the trade by dividing in seasons. Their

cultivation could also be encouraged."

He said the Biodiversity Act's mandate is conservation, sustainable utility and benefit sharing of biological resources. "Since our state is rich in biological resources, the Board is in the midst of industrial dialogue."

Satyarthi said the state's biological resource has been going out. Different industries

have been purchasing it from the chain in trading.

"We have made a list of pharma companies and have initiated a dialogue with them. We are talking to Dabur company also. The state can earn lakhs of Rupees annually from the biological resources that go out," he said.

Satyarthi said the permission for taking out the herbs is in the purview of forest department. The Biodiversity Board deals with benefit sharing.

He said the Board will also hold pharma companies accountable for having taken biological resources from HP even before.

The Board is presently engaged with the listing of Biological resources by going down to the Panchayat level.

"We worked in four districts of Kullu Chamba Sirmour and Shimla first and formu-

lated committees at different level. The People's biodiversity registers are being made. This will help getting some per cent of benefit from the bio-resource, which goes outside."

Additional Chief Secretary, Environment, Science and Environment, Manisha Nanda said integrated approach was must to protect biodiversity. She called for documentation of the resources.

The workshop was attended by experts from National Biodiversity Authority Chennai, scientists from farm varieties in Himachal and the officials from different departments.

The Biodiversity Act came into being in 2002, wherein every state was to set up the Biodiversity Board. In Himachal, however, the Board was not so active, but for the initiative taken in last couple of years.

## आपका फैसला

शिमला, मंगलवार, 2

### जैव विविधता संरक्षण के लिए सभी का सहयोग आवश्यक: मनीषा नंदा



शिमला, (आपका फैसला)। प्रदेश में जैव विविधता और जड़-बुटियों के संरक्षण और संवर्द्धन के लिए संबद्ध विभागों के साथ-साथ आम आदमी का सहयोग भी अत्यंत आवश्यक है। यह विचार सोमवार को अतिरिक्त मुख्य सचिव पर्यावरण विज्ञान और प्रौद्योगिकी हिमाचल प्रदेश मनीषा नंदा ने राष्ट्रीय जैव विविधता कार्य योजना, लक्ष्य और जैव विविधता सम्मेलन पर छठे राष्ट्रीय रिपोर्ट के लिए आयोजित एक दिवसीय राज्य स्तरीय कार्यशाला को अध्यक्षता करते हुए होटल होलीडे होम में व्यक्त किए। उन्होंने कहा कि

इस कार्यशाला का उद्देश्य प्रदेश में जैव विविधता को बचाए रखने के लिए तैयार की जाने वाली कार्य योजना के लिए आवश्यक बिंदुओं पर चर्चा कर रणनीति तैयार करना है। उन्होंने कहा कि जैव विविधता बोर्ड द्वारा तैयार कार्य योजना के प्रथम चरण में गत वर्ष शिमला, सिरमौर, चंबा और कुल्लू को चयनित किया गया था। उन्होंने कहा कि इसके तहत जैव विविधता प्रबंधन समितियों का गठन किया गया। उन्होंने कहा कि चार जिलों में इस उद्देश्य को पूर्ण के लिए 404 समितियों का गठन किया गया। इन जिलों के प्रत्येक पंचायत को एक

लाख रुपये की राशि इस कार्य के लिए प्रदान की गई है। उन्होंने बताया कि अगले चरण में किन्नौर, लद्दाख, स्पिति, मंडी और कांगड़ा जिले में भी इसी अनुरूप कार्य किया जाएगा। सदस्य सचिव राज्य जैव विविधता बोर्ड कुणाल सत्यार्थी ने बताया कि इस कार्यशाला में लगभग 60 प्रतिभागी भाग ले रहे हैं। उन्होंने कहा कि हिमाचल प्रदेश की जड़ी-बूटी और जैव विविधता को बचाने के लिए लक्ष्य निर्धारित कर कार्य योजना तैयार की जा रही है। कार्यशाला में मुख्य अध्यक्ष राष्ट्रीय जैव विविधता प्राधिकरण के पूर्व प्रो. पीएल गौतम ने संबोधित किया। उन्होंने जैव विविधता संरक्षण कोई समय को प्रमुख आवश्यकता बताया। परियोजना प्रबंधक राष्ट्रीय जैव विविधता प्राधिकरण के पूर्व डीआरसी पूजार ने भी संबोधित किया। राज्य परियोजना समन्वयक डॉ. एमएल ठाकुर ने कार्यशाला का संचालन किया, जबकि वरिष्ठ वैज्ञानिक डॉ. पंकज शर्मा ने आधार व्यक्त किया।

राष्ट्रीय जैव विविधता सम्मेलन, 20 फरवरी 2018

9

### जैव विविधता के लिए 404 समितियां गठित

असम उजाला ब्यूरो  
दिल्ली

हर पंचायत को एक-एक लाख रुपये आवंटित

जैव विविधता के पहले चरण में चर्चित चार जिलों के लिए 404 समितियां गठित की गई हैं। इन जिलों को हर पंचायत को एक-एक लाख रुपये की धनराशि दी गई है। अगले चरण में किन्नौर, लद्दाख-स्पिति, चंदी और कांगड़ा जिलों में भी इसी के अनुरूप कार्य किया जाएगा। ये बात अतिरिक्त मुख्य सचिव पर्यावरण, विज्ञान एवं प्रौद्योगिकी मनीषा नंदा ने कही।

ये बात नंदा ने राष्ट्रीय जैव विविधता कार्य योजना, लक्ष्य और जैव विविधता सम्मेलन पर छठी राष्ट्रीय रिपोर्ट के लिए आयोजित एक दिवसीय राज्यस्तरीय कार्यशाला की अध्यक्षता करते हुए होटल होलीडे होम में कही। उन्होंने कहा कि कार्यशाला का उद्देश्य प्रदेश में जैव विविधता को बचाए रखने के लिए तैयार की जाने वाली कार्य योजना के लिए आवश्यक बिंदुओं पर चर्चा कर रणनीति तैयार करना है।

सदस्य सचिव राज्य जैव विविधता बोर्ड कुणाल सत्यार्थी ने बताया कि हिमाचल की जड़ी-बूटी

और जैव विविधता को बचाने के लिए लक्ष्य निर्धारित कर कार्य योजना तैयार की जा रही है। इस कार्य के विस्तार के लिए जिले में हर चार पर कार्यशालाओं का आयोजन कर लोगों को जैव विविधता के संरक्षण के माध्यम से उनके अधिकारी और कर्मियों के प्रति जागरूक किया जाएगा। राष्ट्रीय जैव विविधता प्राधिकरण के पूर्व प्रो. पीएल गौतम ने जैव विविधता संरक्षण को समय की प्रमुख जरूरत बताया।

राज्य परियोजना समन्वयक डॉ. एमएल ठाकुर ने कार्यशाला का संचालन किया, जबकि वरिष्ठ वैज्ञानिक डॉ. पंकज शर्मा ने आधार व्यक्त किया। कार्यशाला में मुख्य अध्यक्ष राष्ट्रीय जैव विविधता प्राधिकरण के पूर्व प्रो. पीएल गौतम ने संबोधित किया। उन्होंने जैव विविधता संरक्षण कोई समय को प्रमुख आवश्यकता बताया। परियोजना प्रबंधक राष्ट्रीय जैव विविधता प्राधिकरण के पूर्व डीआरसी पूजार ने भी संबोधित किया। राज्य परियोजना समन्वयक डॉ. एमएल ठाकुर ने कार्यशाला का संचालन किया, जबकि वरिष्ठ वैज्ञानिक डॉ. पंकज शर्मा ने आधार व्यक्त किया।

बाल विवाह



TRIBUNE NEWS SERVICE

She said under national action plan, residents are at the centre of concerns for



Additional Chief Secretary, Environment Science & Technology, Manisha Nanda, during the state-level workshop in Shimla on Monday. TRIBUNE PHOTO

Kunal Satyarthi, member

The representatives from agriculture, ayurved forests, health, education, industry, tourism, planning, horticulture, fisheries, animal husbandry and local communities, NGOs participated in workshop.

प्रदेश में बौते सस्ती के दौरान कीटनाशक का उपयोग और उर्वरकों के इस्तेमाल में कई गुना वृद्धि हुई है। अधिक उत्पादन लेने की आकांक्षा के कारण किसान इनका अंधाधुंध प्रयोग कर रहे हैं। नुकसान से लौटी टीम ने हिमाचल में इन खेती को घातक आधार पर शुरू करने का फैसला करत नदसूस की।





■ दिव्य हिमाचल ब्यूरो, शिमला

हिमाचल जैव विविधता बोर्ड और सीबीडी के अंतर्गत छठे राष्ट्रीय रिपोर्ट के लिए जानकारी का संग्रह संभव करने का प्रयास करेगी। इस संबंध में हिमाचल प्रदेश राज्य जैव विविधता बोर्ड राष्ट्रीय जैव विविधता कार्य योजना (एनबीएपी), राष्ट्रीय जैव विविधता लक्ष्य (एनबीटी) और जैविक विविधता पर कन्वेंशन की छठी राष्ट्रीय रिपोर्ट पर 19 को कार्यशाला का आयोजन करने जा रही है। इसमें विभिन्न विभागों, प्रासंगिक क्षेत्रों, व्यापार, नागरिक समाज संगठनों और गैर सरकारी संगठनों के प्रतिनिधियों को राष्ट्रीय रिपोर्ट तैयार करने के लिए आमंत्रित किया गया है।

- वरिष्ठ संवाददाता, हिममत



कुछ लोग, सिन्धी और किम्वला में  
बेहतर निर्वास के बाद इस तरह  
किन्नीर, लाहुल, मंडी, काँगड़ा  
में बसेंगे अभियान

[illegible]

संरक्षण के लिए पहले घास जिलों की प्रत्येक पंचायत को एक-एक भाग रूप से की मदद दी गई थी और यहां पर कमरेयां बनाई गई जिसका बेहतर विरपान मिला है। पंचायत तार पर प्रत्येक पीपल को दस अधिधान के साथ जोड़ा जाएगा।

## 3

शिमला। जैव विविधता पर संबोधित बोर्ड 19 फरवरी को शिमला में एक कार्यशाला का आयोजन करेगा। इसमें विभिन्न विभागों के (कृषि, आर्युवेद, वन, स्वास्थ्य, शिक्षा, उद्योग, पर्यटन, बागवानी, मत्स्य पालन, पशुपालन), स्थानीय समुदायों के प्रतिनिधियों, प्रासंगिक क्षेत्रों, व्यापार, नागरिक समाज संगठनों और गैर सरकारी संगठनों के प्रतिनिधियों को राष्ट्रीय तैयार करने के लिए आमंत्रित किया गया है। प्रदेश राज्य जैव विविधता बोर्ड के सदस्य सचिव, कुणाल सत्याधी के पर्यवेक्षण में इस कार्यशाला को गठित किया किया गया है। मनीष मंडा, अतिरिक्त मुख्य सचिव, पर्यावरण विज्ञान और प्रौद्योगिकी मुख्यातिथि होंगी।