

# **NBAP, NBT & Reporting requirements for Sixth National Report to CBD**



**Kunal Satyarthi, IFS**

**Member Secretary**

**HP State Biodiversity Board, Shimla**

# **The Convention for Life on Earth**

## **Objectives**

**Conservation of biological diversity,  
Sustainable use of its components,  
Fair and equitable sharing of the benefits arising from  
the utilization of genetic resources.**

**It addresses issues relating to research and training, public education and awareness, and technical and scientific cooperation.**

**The Convention is legally binding and Parties are obliged to implement its provisions.**

**Near universal membership: 196 parties**

## **India**

**signed on 5 th June 1992, ratified on 18th February 1994.**

**Two Protocols adopted so far under CBD:  
Cartagena Protocol on Biosafety in 2000, and  
Nagoya Protocol on Access and Benefit Sharing (ABS) in  
2010.**

# **The Conference of the Parties (COP): Governing body of the Convention**

**Advances implementation of the CBD through the decisions**

## **Seven thematic programmes of CoP:**

- **Agricultural biodiversity,**
- **Dry and sub-humid lands biodiversity,**
- **Island biodiversity,**
- **Marine and coastal biodiversity,**
- **Forest biodiversity,**
- **Mountain biodiversity, and**
- **Inland waters biodiversity.**

## **Two mandatory obligations of CBD on all parties:**

- 1. National Biodiversity Strategy and Action Plans (NBSAPs)- Article 6**
- 2. National Reports-Article 26**

### **NBSAPs:**

- Principal Instruments for implementing the CBD at the National Level-mainstreaming of biodiversity related plans into activities of all sectors which can have impact on biodiversity.**

# **United Nations Decade on Biodiversity and Strategic Plan for Biodiversity**

- **UN General Assembly has declared 2011-2020 as the UN Decade on Biodiversity, to raise awareness about importance of and threats to biodiversity.**
- **Coinciding with UNDB, Strategic Plan for Biodiversity 2011-2020 with five Goals and 20 Aichi Biodiversity Targets adopted under CBD in 2010.**
- **Strategic Plan provides an overarching framework on biodiversity, not only for biodiversity related conventions, but for the entire UN system and all partners engaged in management and policy development on biodiversity.**
- **All Parties are required to develop national targets in line with Aichi targets, and review and revise/update NBSAP by integrating national targets.**

# NBSAPs

- **CBD requires Parties to develop national strategies, plans or programmes for conservation and sustainable use of biodiversity (NBSAPs)**
- **India developed first NBSAP (National Policy and Macrolevel Action Strategy on Biodiversity) in 1999 through extensive consultations, as a macro-level statement of existing policies and programmes, gaps and further actions needed for conservation and sustainable use of biodiversity.**
- **After approval of National Environment Policy (NEP) by the Government in May 2006, revision of 1999 document taken up in consonance with NEP, and using report of NBSAP project. India's second generation NBAP approved in 2008.**
- **India has updated its second generation NBAP 2008 by developing 12 National Biodiversity Targets (NBTs) in consultation with stakeholders, which are included in Addendum 2014 to NBAP 2008.**

# National Reports

- **Convention enjoins upon Parties to present reports to CoP on measures taken for implementation of Convention and their effectiveness in meeting Convention's objectives.**
- **National reporting is a continuing requirement.**
- **Five cycles of national reporting have been completed.**
- **India submitted NR 5 in March 2014. NR 6 would be due in March 2018.**

# **Aichi Biodiversity Targets (Total 20)**

- Strategic Goal A:** Address the underlying causes of biodiversity loss by mainstreaming biodiversity across government and society
- Strategic Goal B:** Reduce the direct pressures on biodiversity and promote sustainable use
- Strategic Goal C:** To improve the status of biodiversity by safeguarding ecosystems, species and genetic diversity
- Strategic Goal D:** Enhance the benefits to all from biodiversity and ecosystem services
- Strategic Goal E:** Enhance implementation through participatory planning, knowledge management and capacity building



# **India's National Biodiversity Action Plan, 2008 (As amended in 2014)**

**175 action points under 12 broad thematic areas:**

- 1. Strengthening and integration of in situ, on-farm and ex situ conservation**
- 2. Augmentation of the natural resource base and its sustainable utilization**
- 3. Ensuring inter and intra generational equity**
- 4. Regulation of introduction of invasive alien species and their management**
- 5. Assessment of vulnerability and adaptation to climate change and desertification**

- 6. Integration of biodiversity concerns in economic and social development**
- 7. Pollution impacts**
- 8. Development and integration of biodiversity databases**
- 9. Strengthening the implementation of policy, legislative and administrative measures for biodiversity conservation and management**
- 10. Building national capacities for biodiversity conservation and appropriate use of new technologies**
- 11. Valuation of goods and services provided by biodiversity and use of economic instruments in decision making processes**
- 12. International cooperation**

# India's Biodiversity Targets and the Aichi Targets

Reference	Target	Related Strategic Goals/Aichi Targets
National Biodiversity Target 1	By 2020, a significant proportion of the country's population, especially the youth, is aware of the values of biodiversity and the steps they can take to conserve and use it sustainably.	1
National Biodiversity Target 2	By 2020, values of biodiversity are integrated in National and State planning processes, development programmes and poverty alleviation strategies.	2
National Biodiversity Target 3	Strategies for reducing rate of degradation, fragmentation and loss of all natural habitats are finalized and actions put in place by 2020 for environmental amelioration and human well-being.	5, 15
National Biodiversity Target 4	By 2020, invasive alien species and pathways are identified and strategies to manage them developed so that populations of prioritized invasive alien species are managed.	9
National Biodiversity Target 5	By 2020, measures are adopted for sustainable management of agriculture, forestry and fisheries.	6, 7, 8
National Biodiversity Target 6	Ecologically representative areas on land and in inland waters, as well as coastal and marine zones, especially those of particular importance for species, biodiversity and ecosystem services, are conserved effectively and equitably, on the basis of PA designation and management and other area-based conservation measures and are integrated into the wider landscapes and seascapes, covering over 20% of the geographic area of the country, by 2020.	10, 11, 12

<b>National Biodiversity Target 7</b>	<b>By 2020, genetic diversity of cultivated plants, farm livestock and their wild relatives, including other socioeconomically as well as culturally valuable species, is maintained, and strategies have been developed and implemented for minimizing genetic erosion and safeguarding their genetic diversity.</b>	<b>13</b>
<b>National Biodiversity Target 8</b>	<b>By 2020, ecosystem services, especially those relating to water, human health, livelihoods and wellbeing, are enumerated and measures to safeguard them are identified, taking into account the needs of women and local communities, particularly the poor and vulnerable sections.</b>	<b>14</b>
<b>National Biodiversity Target 9</b>	<b>By 2015, 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 legislation.</b>	<b>16</b>
<b>National Biodiversity Target 10</b>	<b>By 2020, an effective, participatory and updated national biodiversity action plan is made operational at different levels of governance.</b>	<b>3, 4, 17</b>
<b>National Biodiversity Target 11</b>	<b>By 2020, national initiatives using communities' traditional knowledge relating to biodiversity are strengthened, with a view to protecting this knowledge in accordance with national legislations and international obligations.</b>	<b>18</b>
<b>National Biodiversity Target 12</b>	<b>By 2020, 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 for Resource Mobilization is adopted.</b>	<b>19, 20</b>

# IMPLEMENTATION PLAN FOR NATIONAL BIODIVERSITY ACTION PLAN (NBAP)

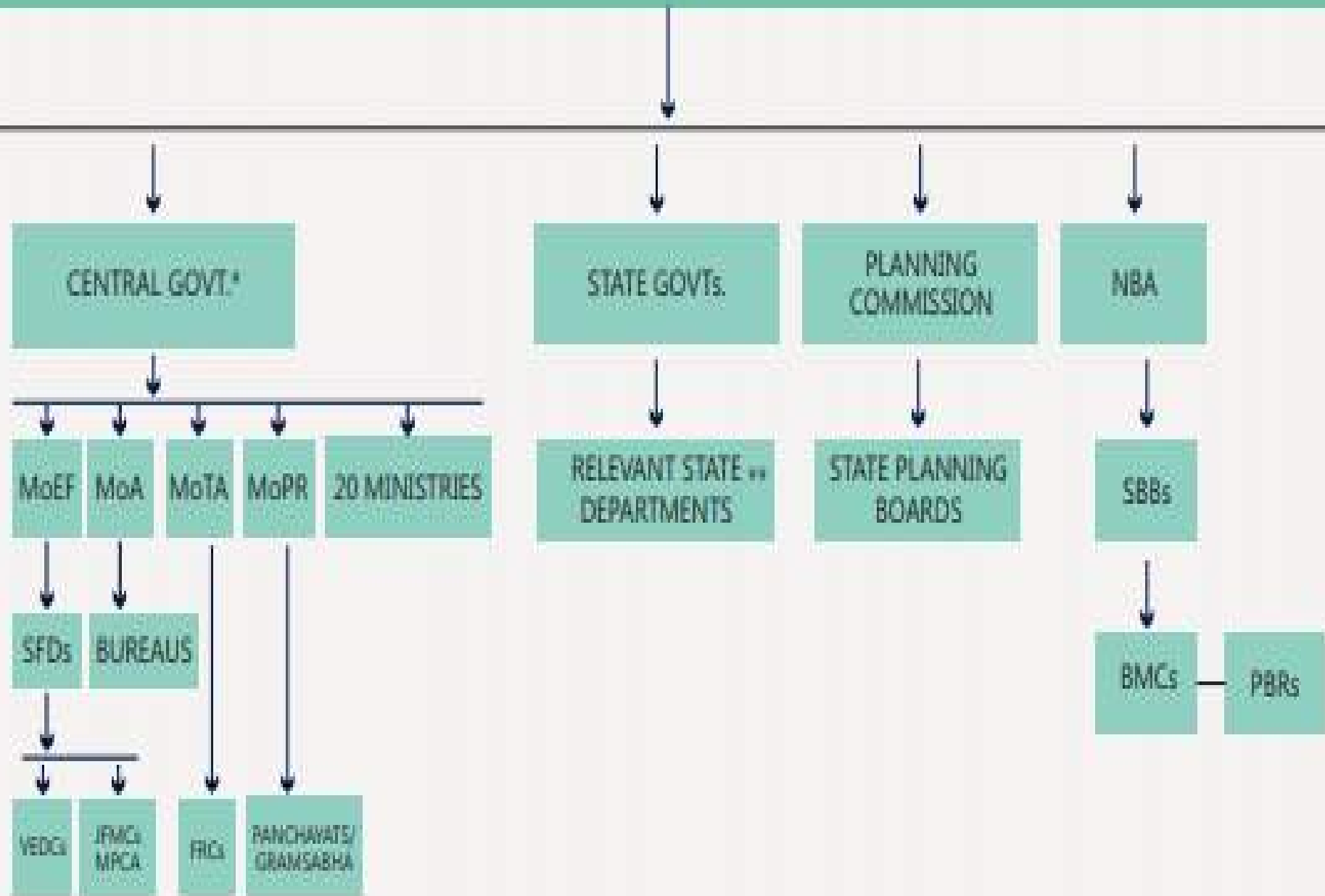


Table 4. Indicative list of Ministries/ Departments and National Biodiversity Targets for Implementation of the National Biodiversity Action Plan

Ministries/Departments of Government of India and Planning Commission	National Biodiversity Targets											
Ministry of Agriculture (MoA)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Chemicals and Fertilizers (MoCF)	3	4	5	6	7	8	9	10	11	12		
Ministry of Coal (MoC)	3	4	5	6	7	8	9	10	11	12		
Ministry of Commerce and Industry (MoCI)	2	3	5	7	8	9	10	12				
Ministry of Drinking Water and Sanitation (MoDWS)	3	4	5	6	9	10	11	12				
Ministry of Earth Sciences (MoES)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Environment and Forests (MoEF)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Health and Family Welfare (MoHFW)	1	3	4	5	6	9	10	11	12			
Ministry of Human Resource Development (MoHRD)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of New and Renewable Energy (MoNRE)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Panchayati Raj (MoPR)	1	3	4	5	6	7	8	9	10	11	12	
Ministry of Petroleum and Natural Gas (MoPNG)	3	4	5	6	7	8	9	10	12			
Ministry of Power (MoP)	2	3	4	5	6	7	8	9	10	12		
Ministry of Rural Development (MoRD)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Science and Technology (MoST)	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Shipping (MoS)	3	4	6	7	8	9	10	12				
Ministry of Tourism (MoT)	3	4	5	6	7	8	9	10	11	12		
Ministry of Tribal Affairs (MoTA)	1	2	3	4	5	6	7	8	9	10	11	12

Ministries/Departments of Government of India and Planning Commission	National Biodiversity Targets											
	1	2	3	4	5	6	7	8	9	10	11	12
Ministry of Urban Development (MoUD)	1	3	4	5	6	7	8	9	10	11	12	
Ministry of Water Resources (MoWR)	1	2	3	4	5	6	7	8	9	10	11	12
Department of Space (DoS)	3	4	5	6	7	8	9	10	11	12		
Ministry of Youth Affairs and Sports (MoYAS)	1	2	3	9	10	11	12					
Ministry of Statistics and Programme Implementation (MoSPI)	1	2	3	5	7	8	9	10	11	12		
Ministry of Communications and Information Technology Technology (MoCIT)	9	10	12									
Planning Commission of India	1	2	3	4	5	6	7	8	9	10	11	12

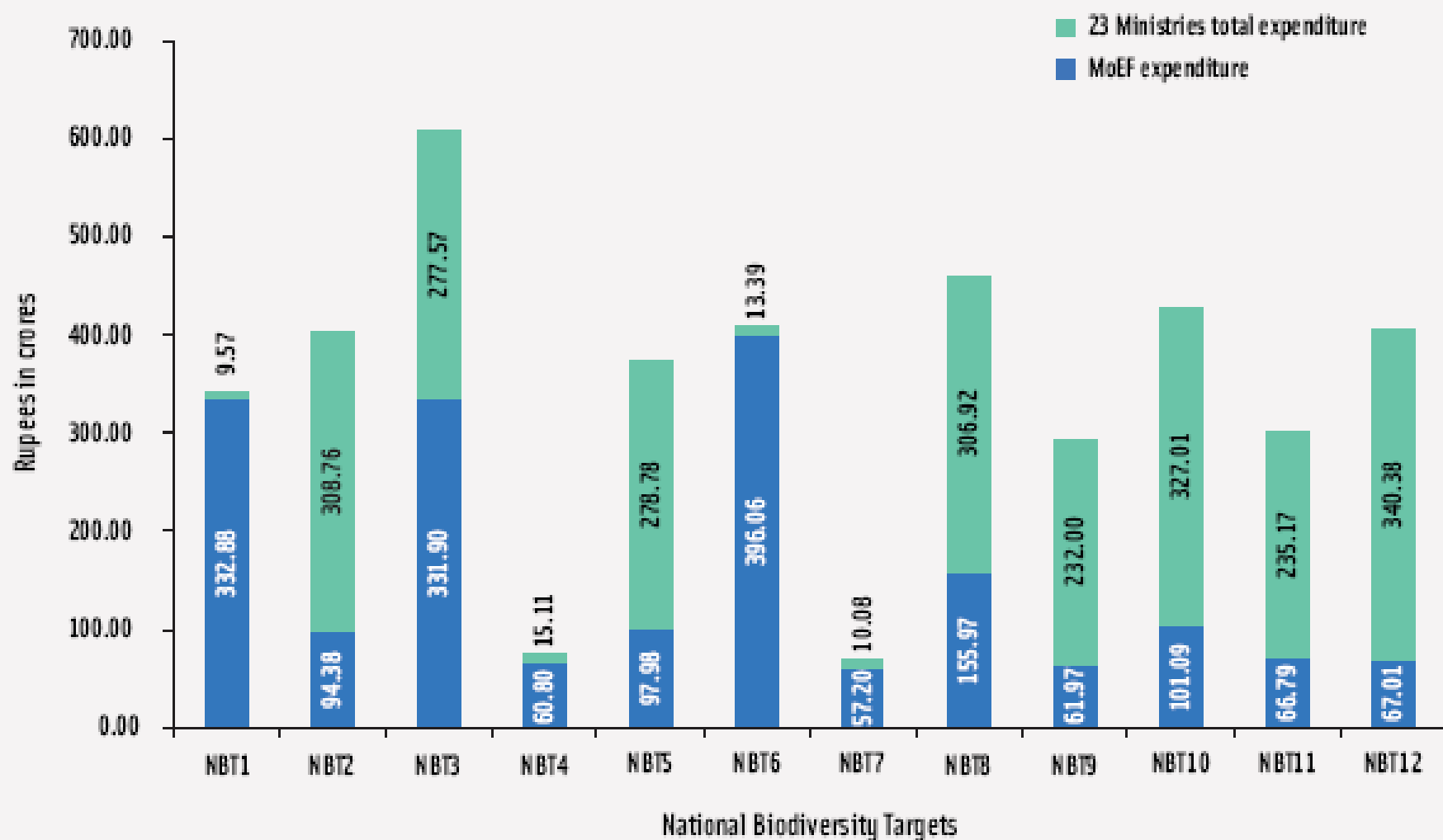
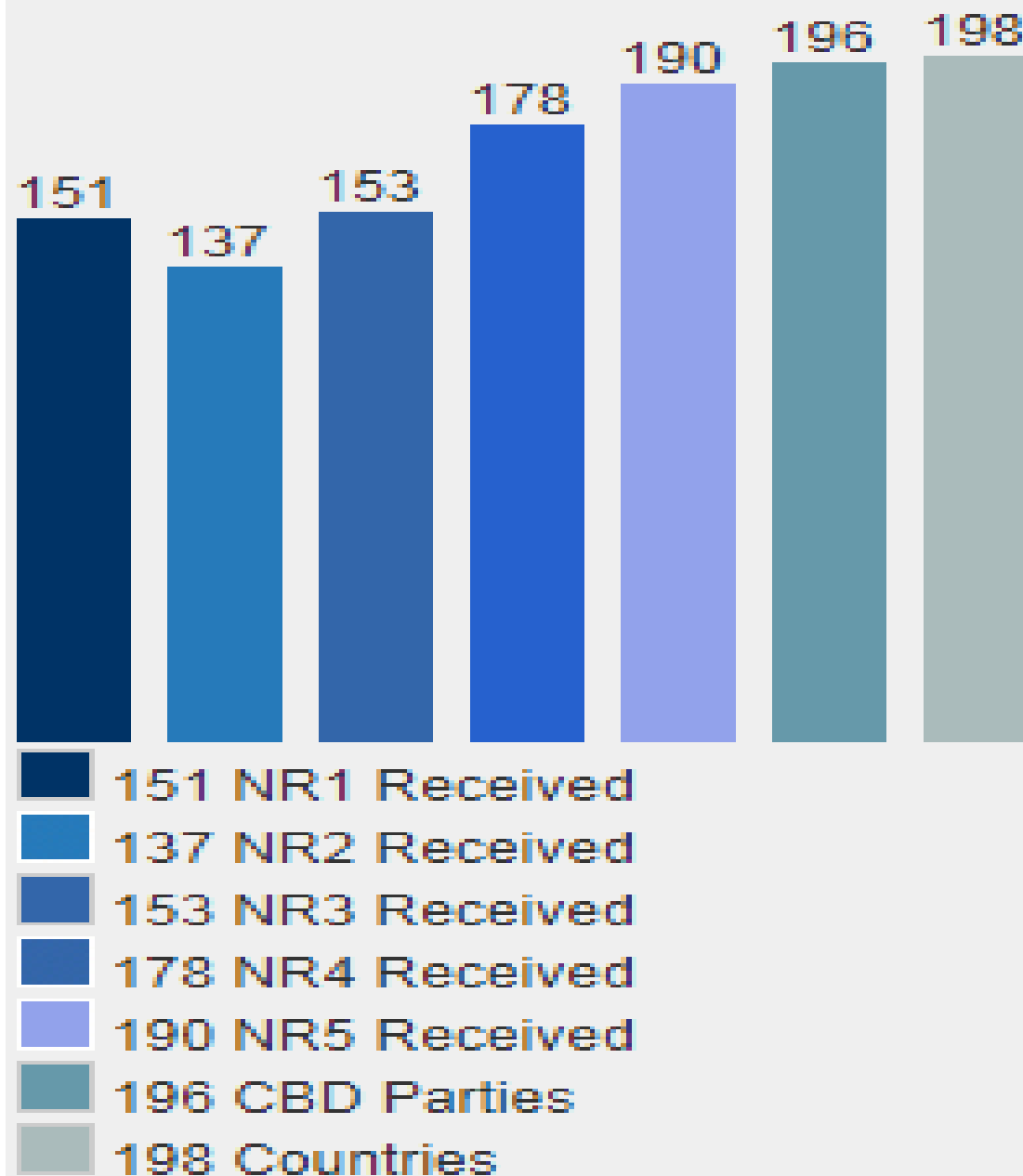


Figure 3. Combined allocation of funds (2013-2014) of MoEF and 23 Ministries/ Departments of GoI that contribute towards NBTs

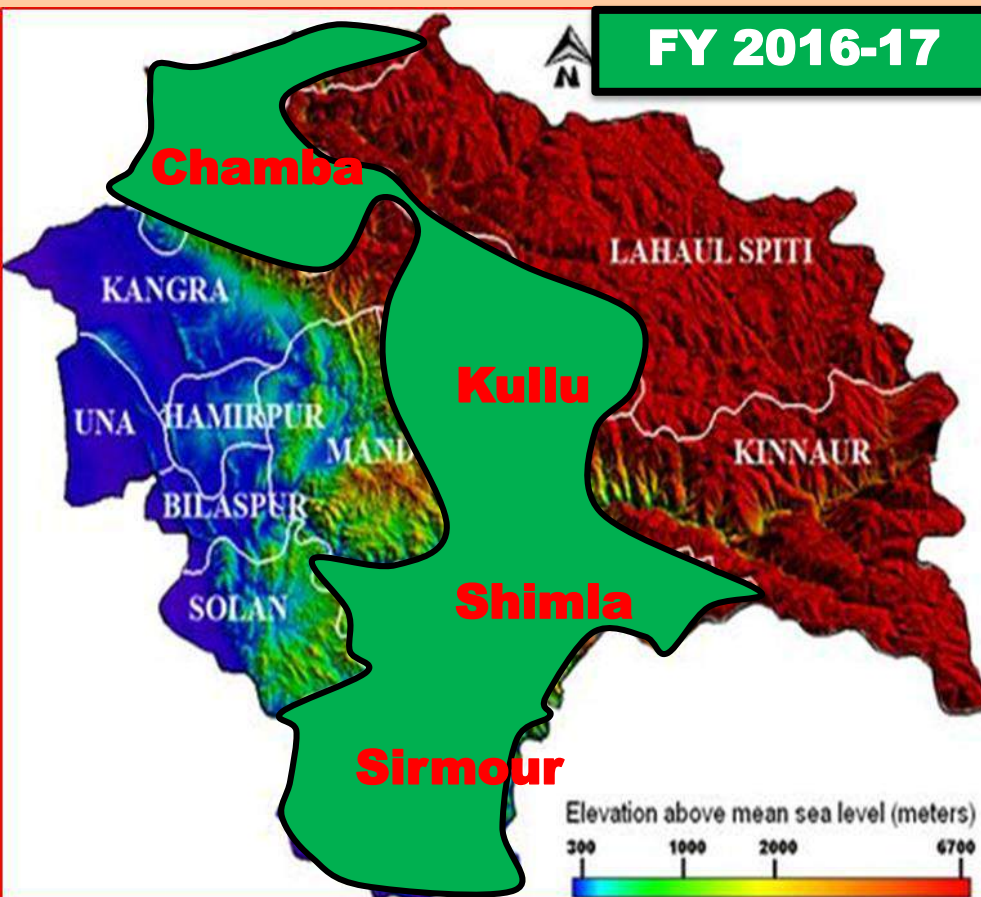


## NR Status



**Implementation of the Biological Diversity Act,  
2002:  
Scenario and Approaches Adopted at HPSBB**

# BMC: Prioritization & Strategy



2016-17	Sirmaur (22 <sup>nd</sup> May); Kullu (22 <sup>nd</sup> June); Chamba (1 <sup>st</sup> July); Shimla (9 <sup>th</sup> Feb & 26 <sup>th</sup> March 2017)
2017-18	Kinnaur (22 <sup>nd</sup> May) & Lahaul & Spiti (26 <sup>th</sup> June)

❖ Mandi and Kangra to be covered, Feb2018=



# **Approaches in BMCs Constitution: > 400**

- **Besides selected ecosystem types, districts prioritized on the basis of bio-resources richness**
- **District and block level workshops for the PRIs organized**
- **Involvement of Government**
- **Involvement of different line departments of the State: Forest, Panchayati Raj & RD, District Administration, Police, Education, Ayurveda (Ayush), Animal Husbandry, Public Relations, Revenue, Agriculture, Horticulture etc.**



# BIODIVERSITY MANAGEMENT COMMITTEES (BMCs)

Constituted at Gram Panchayat, Development Block & Municipal Corporation Level  
as on 31<sup>st</sup> Oct., 2017

Sr. No.	District	Total GP, Block & MC	BMC constituted	% age	% age in prioritized Distt.
1	<b>Sirmour</b>	<b>228</b>	<b>46</b>	<b>20.2</b>	<b>31.33</b>
2	<b>Kullu</b>	<b>204</b>	<b>123</b>	<b>60.3</b>	
3	<b>Chamba</b>	<b>283</b>	<b>69</b>	<b>24.4</b>	
4	<b>Shimla</b>	<b>363</b>	<b>121</b>	<b>33.3</b>	
5	<b>Kinnaur</b>	<b>65</b>	<b>5</b>	<b>7.69</b>	
6	<b>Lahaul &amp; Spiti</b>	<b>41</b>	<b>7</b>	<b>17.1</b>	
7	Rest Distt.	<b>2042</b>	<b>31</b>	<b>1.52</b>	
8	Block level	<b>78</b>	<b>1</b>	<b>1.28</b>	
9	MC	<b>2</b>	<b>1</b>	<b>50</b>	
	<b>Total</b>	<b>3306</b>	<b>404</b>	<b>12.2</b>	



# Innovations in PBR Documentation

GoHP vide notification no. **STE -A (3)-1/2004 dated 17/12/2016**, notified **Expert Group (10 members)** to supervise the preparation, evaluation of PBRs and certify their authentication on behalf of the HPSBB.

Government of Himachal Pradesh  
Department of Environment, Science & Technology

Na. STE-A (3)-1/2004  
Dated: Shimla-2, 17-12-2016

**NOTIFICATION**

The Himachal Pradesh State Biodiversity Board (HPSBB) has expressed its concern with regard to evaluation of Peoples Biodiversity Registers in the State.

Now, therefore, the Governor of Himachal Pradesh, is pleased to hereby notify the Expert Group consisting of the following to supervise the preparation, evaluate draft PBRs and certify their authenticity on behalf of the H.P. State Biodiversity Board:-

Sr. No.	Name	Designation & Address
1.	Dr. S.K. Sharma (Agro biodiversity group/panel)	Retd. Director, NBPGRI, New Delhi
2.	Dr. N.S. Chaudhary (Medicinal Plants/herbs/Forestry)	Retd. Professor, UIHP Narni, Solan, HP
3.	Dr. B.D. Sharma (Agriculture/Forestry)	Retd. Head, NBPGRI Pnaghi, Shimla, HP
4.	Dr. T.N. Laksharwal (Micro-diversity)	Retd. Chairman, Bio-Sciences Department HPU, Summer Hill, Shimla-5
5.	Dr. D.R. Nag (Medicinal/Aromatic Plants)	Retd. Head, Herbal Garden, Jagdishnagar, District Shimla, HP
6.	Dr. V.K. Maini (Entomology)	Retd. Director, Integrated Institute of Himalayan Environment Studies, HPU, Summer Hill, Shimla
7.	Dr. S.P. Bhartiya (Horticulture biodiversity)	Retd. Associate Director, Regional Fruit Research Station UIHP, Narni, Solan & Mashobra, Shimla, HP
8.	Dr. Y.P. Sharma (Agro-horticulture biodiversity)	Retd. Head, Indian Institute of Agriculture (Horticulture) B/o Anantara Cottage, Shimla, HP

Contd....3/2-

3-

9.	Dr. Subhan Sharma (Fisheries)	Retd. Director, Department of Fisheries, Bhampur, HP
10.	Dr. J.K. Mandal (Animal/Livestock Biodiversity)	Professor, Medicinal, College of Veterinary & Animal Sciences, HP KVV, Palampur, HP

By order  
Taran Kapoor  
P. Secretary (Env., Sc & Tech.) to the Government of Himachal Pradesh.

Encls. No : STE-A (3)-1/2004  
Dated: Shimla-2, 17-12-2016.

Cc: forwarded for information and necessary action to:

1. The Secretary to the Governor, Himachal Pradesh, Shimla-2.
2. The SP/PS to the Chief Minister/Minister/CPS, H.P. Shimla-2.
3. The Private Secretary to the Chief Secretary to the Govt. of H.P.
4. All the Chairmen/Members of the above mentioned Committees.
5. The Member Secretary, HPS BB, Shimla-5 to ensure that being Convener of both the Committees, the Reports are submitted within prescribed time frame.
6. Guard file

9/2  
Sd/- (Env. Science & Tech.) to the Government of Himachal Pradesh  
2017 +91-177-2626597

\*\*\*\*\*



Sr. No.	Meeting	Date	Venue
1.	1 <sup>st</sup> Expert Group Meeting	02/02/2017	Paryavaran Bhawan, DEST
2.	2 <sup>nd</sup> Expert Group Meeting	30/03/2017	Conference Hall, SCSTE
3.	3 <sup>rd</sup> Expert Group Meeting	25/04/2017	Conference Hall, SCSTE

☐ **Verification of PBRs:**

1. **Narwana Khas (Kangra)**
2. **Tandi (Kullu)**
3. **Jana (Kullu)**
4. **Batal (Sirmaur)**
5. **Sainj (Shimla)**
6. **Shakrori (Shimla)**





# Tripartite Memorandum of Understanding (MoU)

### Tripartite MoU signed between:-

- ❖ **HP State Biodiversity Board (HPSBB)**
- ❖ **Biodiversity Management Committees (BMCs)**
- ❖ **Technical Support Group (TSG)**



**Tripartite MoU signed b/w of HPSBB, BMC-MC Shimla & TSG (HFRI), Shimla, on 3/5/2017**



**BMC** **TSG** **HPSBB**





# Digitization of PBRs

## People's Biodiversity Register (PBR)

### General Information of Panchayat

State:

District:

Block:

Panchayat:

Himachal Pradesh

Kullu

Banjar

Tandi

Print PBR

Home

### People's Biodiversity Register (PBR): General Details

1. Name of the Gram Panchayat

Tandi

2. Name of the State

Himachal Pradesh

3. Name of the District

Kullu

4. Name of the Block

Banjar

5. Geographical Area of the Panchayat

57396 heactare

6. Population Under the Gram Panchayat

The Gram Panchayat Tandhi has eighteen revenue villages namely Sum,Narhan,Bhartidhar,Bhalagran,Tandi,Seri,Dughli,Shach,Dalicha,Mihar,Khanala,Lushal,Kandhi,Chamnal,Lotla,Dhar,Bhua and Falia and divided into five wards.  
1.Narhan - Sum,Narhan, Dughli,Shach 2.Bhartidhar - Dalicha,Mihar Khanala,Lushal,Bhartidhar 3.Bhlagran - Kandhi,Bhlagran,Chamnal,Lotla 4.Tandi - Dhar,Bhua,Tandi 5.seri

Table -II: Details of Population

Ward No.	Male	Female	Total
Ward No.1	135	118	251
Ward No.2	123	102	225
Ward No.3	120	127	247
Ward No.4	186	181	367
Ward No.5	112	123	235
<b>Grand Total</b>	<b>676</b>	<b>649</b>	<b>1325</b>

### 7. Location

The Gram Panchayat Tandhi is located in Right side of Jalori Way in Banjar block of Kullu District of Himachal Pradesh. The panchayat is located at 60 km from Kullu District headquarter. Bhahu Panchayat is situated in its North, Karshala and Khanag in its South, Chaini and Kharagaad in its East and in West Teel and Mohni Panchayat is situated. It is situated at a height of 2600 m from above mean sea level.

### History of Villages

Village	History
Tandi and Bhua	A man came with his brother from another place which was very far away. They started to live there. Then Deity Sheshnaag came there. They started to worship him. This village was named Tandhi. They had many fields to work and these were scattered in a large area. One brother started to live in another place which was below the Tandhi village. This place was named Bhua village.
Seri and Lotla	Once there was a place and there were no habitations. Lomesh Rishi came there and saw that the place was good for habitation. He brought a man from class "Thakur" to live there. Thakur preyed to Lomesh Rishi to provide for a source of water. So Rishi hit his silver rod on ground and water erupted. It became a water body. He divided the waterbody in to two parts. Left part was for Thakur and right one for him. He made a rule that Thakur will use only left side of waterbody and the other side of waterbody will be his. Then Lomesh Rishi brought a Harijan from Balidhar village traditional folk music called Baza. Then he brought a Brahmin person to alm and for worshipping. Then a family called "Shildu" came from Rampur - Khumarshal and resides firstly in B then came to Ser village in Tandhi Panchayat. They asked "Thakur" person to reside there. Faliyau also came there to live. There used to be a diety called Thamut Devta, he said that this "Sar" so this village was named as Seri. Faliyau people threw straw in field and grew crops. When their crops flourished and production was good, then Shildu people forced them far away their boundry which was a water stream called "Jalodi khadd". That area was under deities Shringa Rishi and Budhi Nagin. They started to live there and worked also. One of them knew work and they were earning good. When Shildu and other people of Seri village realized their skills, they called them back to Seri and resided them in Kutla of Brahmins. Those Brahmin accidentally so they left the place as they were ashamed of it. Then other Brahmins were called from Thata village situated in Mandi District to live there. The place where they resided w



## PART-2

### Agro-Biodiversity

#### Format-1 Crop Plants

Serial No.	PBR ID	Crop	Scientific Name	Local Name	Variety	Landscape/Habitat	Approx. Area Shown	Local Status Past	Local Status Present	Special Features	Cropping Season	Use	Associated TK	Other Details	Seed Source	Community	Image
1	10001	Amaranthus spp	Amaranthus spp	Sariyara		Agricultural Field		Available	Available	Round, small sized, yellow seeds	Kharif	Food, Inddu	Traditional food (Isari)	High nutrient value	Last year preserved seeds	Asha Devi	
2	10001	Cereals and Millet	Zea Mays	Makki	Not Reported	Sloppy Landscape	Not Reported	More	Less	Long, Green Leaves and Yellow Seeds	Kharif	Fodder, Roti Purpose	Good For Health	Roasted Seeds used in Snacks	Last Year Preserved seeds	Nirmala Devi	
3	10001	Amaranthus spp	Amaranthus spp	Sariyara		Agricultural Field		Available	Available	Round, small sized, yellow seeds	Kharif	Food, Inddu	Traditional food (Isari)	High nutrient value	Last year preserved seeds	Asha Devi	
4	10001			Gehun	Not Reported	Slopy Landscape	Not Reported	Available	Available	Soft plant, Seeds are red and long plant	Rabi	Roti Purpose	Very Nutritious	Fodder	Local Seed	Nirmala Devi	
5	10001	Brassica Oleracea Botrytis Group	Brassica Oleracea Botrytis Group	Fulgobhi	Not Reported	Agricultural Field	Not Reported	Less	More	White flower and green leaves, disease free	Kharif	Used vegetable	Unknown	Fom Bazar	Yung plants bought from market	Mahesh Thakur	
6	10001	Trigonella foenum-graecum	Trigonella foenum-graecum	Methi	Not Reported	Agricultural Field	Not Reported	Less	More	Green soft plant, less height white and yellow flower colour, seed colour yellow	Rabi	Used as food and for vegetable preparation	Unknown	Nil	Last year preserved seeds	Kaushaliya	
7	10001	Spinacia oleracea	Spinacia oleracea	Palak	Not Reported	Agricultural Field	Not Reported	Less	More	Soft, green stem and broad leaves	Rabi	Used as food and for chutney preparation	High Nutritional value	Nil	Seeds bought from bazar	Kaushaliya	

# Tripartite MoU signed for the preparation of **98 (47+50+1) PBRs**

S. No.	District	Block	PBRs	TSG
1	Chamba (13)	Bhattiyat	8	<b>Himachal Pradesh University, Shimla &amp; Dr. Y. S. Parmar University of Horticulture &amp; Forestry, Solon</b>
		Chamba	3	
		Salooni	2	
2	Kullu (36)	Anni	3	<b>CSK Himachal Pradesh Agricultural University, Palampur &amp; GB Pant National Institute of Himalayan Environment and Sustainable Development, Kullu</b>
		Banjar	12	
		Kullu	10	
		Naggar	11	
3	Sirmour (19)	Pachhad	3	<b>Dr. Y. S. Parmar University of Horticulture &amp; Forestry, Solon</b>
		Nahan	2	
		Sangrah	5	
		Shillai	3	
		Rajgarh	1	
		Paonta	5	
4	Shimla (29)	Chhohara	1	<b>Himalayan Forest Research Institute, Shimla</b>
		Chopal	3	
		Jubbal-Kotkhai	1	
		Nankhari	2	
		Theog	1	
		Mashobra	5	
		Chopal	3	
		Chirgaon	1	
		Basantpur	4	
		Narkanda	2	
		Rampur	3	
		Rohru	3	
5	MC	Shimla	1	
Total			<b>118</b>	



# Innovations in ABS Mechanism

- Therefore, 10 threatened and endemic species of medicinal plants identified/prioritized for conservation through cultivation:
  - *Aconitum heterophyllum* (Ateech), *Saussurea lappa* (Kuth), *Inula racemosa* (Pushkarmool),
  - *Valeriana wallichii* (Sugandhbala), *Picrorrhiza kurroa* (Kutaki), *Hedychium spicatum* (Kapurkachri),
  - *Arnebia benthamii* (Ratanjot), *Nardostachys jatamansi*, *Abies webbiana* (Talispatra)
  - *Pistacia integerrima* (Zebrawood, Kakkarsingi)
- Resource use pattern in Himachal based Ayurvedic pharma units
- **Recommendation to the Central Govt:** threatened species of medicinal plants viz. *Aconitum heterophyllum*, *Pdophyllum hexandrum* and *Taxus wallichaina* should be re-notified as threatened species with a clause for exemption of cultivated material from the provision of Section 38 of the Biological Diversity Act, 2002 (by constituting a Committee, Gazette notification no. STE-A(3)-1/2004 dated 17<sup>th</sup> December 2016)



# Online ABS platform



## Himachal Pradesh State Biodiversity Board



Sign in to your account

Username:

Password:

Login

New User Registration

Back

[Forgot Password](#) | [Forgot Username](#)



# Significant Best Practice at SBB

Trade Chain, Trade Pattern & Value Chain Economics

Work awarded to

Shoolini University, Solan (HP)

Time period allotted for report submission- 3 months

Medicinal plant species:

- *Aconitum heterophyllum* (Ateech), *Saussurea lappa*  
(Kuth),
- *Inula racemosa* (Pushkarmool), *Picrorhiza kurroa* (Kutaki)
- *Pistacia integerrima* (Zebrawood, Kakkarsingi)

- Trade chain, trade pattern and Value chain economics
- Market system and marketing mechanisms
- Harvesting, cultivation, collection, storage, processing, manufacturing, marketing practices and value addition
- Demand and supply analyses -Economic feasibility analyses of harvesting from wild and the cultivated sources
- Dependence of local stakeholders on trade of medicinal plants
- Indigenous uses, quality control measures, at source as well as at industry level



# Books for publication

## Status of biological diversity found in the State (Chapters from experts):

- Microbial diversity in Himachal Pradesh
- Naturally occurring medicinal plants in Himachal Pradesh and their importance w.r.t. their conservation and sustainable utilization
- Biodiversity of Medicinal Plants in Himachal Pradesh: Conservation and Cultivation
- Wild edible resources of Himachal Pradesh
- Plant resource utilization in Pragpur: First heritage village of India
- Ethnobotanical database on wetland plant resources of district Bilaspur
- Ethnobotanical resources of district Hamirpur
- Bee flora of District Chamba
- Butterfly diversity of subalpine forests of Himachal Pradesh
- Noctuid (Lepidoptera) diversity of conifer forests of Himachal Pradesh
- Status of Animal Biodiversity in Himachal Pradesh



# **Books prepared in collaboration with State Centre on Climate Change , HP**

- **Wild edible fruits of Himachal Pradesh**
- **Traditional crops of Himachal Pradesh**
- **Wild fruit resources of Himachal Pradesh**
- **Hidden treasures: An insight to diminishing traditional crops of Himachal Pradesh**

- **Included in 100 day target of the Government of Himachal Pradesh**





## **Review of the list of Threatened Species of H.P for re-notification, Sec. 38**

**GoHP vide Notification No. STE-A(3)-I/2004, Dated 17-12-2016** notified two Committees for Threatened Animal & Plant spp to review the list of threatened species of HP.

Two meetings were organized on 1<sup>st</sup> Feb. 2017 under the chairmanship:

- ❖ **Director, Himalayan Forest Research Instituted (HFRI),**
- ❖ **Addl. PCCF (Biodiversity Conservation), (HP Forest Department)**

**22 species of plants &**

**16 species of animals recommended**



# Re-notification, of Threatened Species of H.P under (Sec. 38)

Two meetings were organized on **1<sup>st</sup> Feb. 2017** under the chairmanship:

- ❖ Director, Himalayan Forest Research Instituted (HFRI),
- ❖ Addl. PCCF (Biodiversity Conservation), HP Forest Department

THE GAZETTE OF INDIA: EXTRAORDINARY	
(I)	(II)
(11) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(11) <b>Conservation (Wildlife)</b>
(12) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(12) <b>Conservation (Wildlife)</b>
(13) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(13) <b>Conservation (Wildlife)</b>
(14) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(14) <b>Conservation (Wildlife)</b>
(15) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(15) <b>Conservation (Wildlife)</b>
(16) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(16) <b>Conservation (Wildlife)</b>
(17) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(17) <b>Conservation (Wildlife)</b>
(18) <b>संघीय संरक्षण और संवर्धन अधिनियम, 2002</b>	(18) <b>Conservation (Wildlife)</b>
ANNEXURE	
Condition	
No.	
1. No plant or animal species notified should be referred to this or that condition by any person, for purpose mentioned below, with the approval of the concerned State Biodiversity Board, and also in accordance with the provisions of the Wildlife (Protection) Act, 1972 (53 of 1972) and the Wildlife (Conservation) Act, 1952 (35 of 1952) of the Government of India and the Wildlife (Conservation) Act, 1952 (35 of 1952) of the Government of India.	
(a) Scientific research;	
(b) Education and research of scientific and academic institutions;	
(c) Propagation; and	
(d) Any other scientific investigation.	
2. The concerned State Biodiversity Board shall initiate or conduct:—	
(a) studies on all aspects of the notified species for better understanding;	
(b) propagation of the notified species for the purpose of in situ and ex situ conservation and rehabilitation; and	
(c) awareness programmes and provide educational materials on notified species for forest department personnel, Biodiversity Management Committees, academic programmes, and forest dwellers and tribals.	
[P. No. 28-13/2004-EE]	
A. N. GOVIL, & Secy.	

MINISTRY OF ENVIRONMENT AND FORESTS  
NOTIFICATION  
New Delhi, the 17th March, 2009.

S.O. 783(3)—In exercise of powers conferred by Section 38 of the Biodiversity Act, 2002 (19 of 2002), the Central Government in consultation with the Government of Himachal Pradesh, hereby notifies the species of plants and animals which are on the verge of extinction, notified in column (I) of the Table given below, and prohibit or regulate the collection thereof subject to the conditions specified in the Annexure to this Notification, for the State of Himachal Pradesh, namely:—

Sr. No.	Name of the species
(I)	(II)
<b>Plants</b>	
1.	<i>Abies indica</i> (Swartz)
2.	<i>Abies delavayi</i> (Walld.) ex B.S.P.
3.	<i>Abies religiosa</i> (Lam.) ex B.S.P.
4.	<i>Emmenanthe indica</i> (Lam.) ex B.S.P.
5.	<i>Abies pindii</i> (Swartz)
6.	<i>Abies pindii</i> (Swartz)
7.	<i>Abies pindii</i> (Swartz)
8.	<i>Abies pindii</i> (Swartz)
<b>Animals</b>	
9.	<i>Abies pindii</i> (Swartz)
10.	<i>Abies pindii</i> (Swartz)

MoEFCC vide notification no. SO 783(3), dated 17<sup>th</sup> March, 2009, notified:

- 8 spp of plants
- 10 spp of animals

**Threatened spp of HP**



# LIST OF THE THREATENED **PLANT SPECIES** OF HIMACHAL PRADESH

Sr. No.	Scientific Name	Common Name	Family
1	<i>Aconitum deinorrhizum</i> Stapf	Mohra	Ranunculaceae
2	<i>Aconitum heterophyllum</i> Wall	Atis	Ranunculaceae
3	<i>Arnebia benthamii</i> (Wall. ex G.Don) I. M. Johnst.	Ratanjot	Boraginaceae
4	<i>Atropa acuminata</i> Royle ex. Lindl.	Jharka	Solanaceae
5	<i>Berberis aristata</i> DC.	Kashmal	Berberidaceae
6	<i>Betula alnoides</i> Buch.-Ham. ex D.Don	Himalayan birch	Betulaceae
7	<i>Dactylorhiza hatagirea</i> D. Don	Salam panja	Orchidaceae
8	<i>Eremostachys superba</i> Royle ex Benth	Gajar Mula	Lamiaceae
9	<i>Fritillaria roylei</i> Hook.	Kakoli/Jangli lasen	Liliaceae
10	<i>Gentiana kurroo</i> Royle	Kutki	Gentianaceae
11	<i>Habenaria edgeworthii</i> Hook. f. ex Collett	Jeevak	Orchidaceae
12	<i>Jasminum parkeri</i> Dunn	Dwarf Jasmine	Oleaceae
13	<i>Lilium polyphyllum</i> D. Don	Ksheer kakoli	Liliaceae
14	<i>Malaxis muscifera</i> (Lindl.) Kuntze	Ridhi	Orchidaceae
15	<i>Nardostachys grandiflora</i> DC	Jatamansi	Boraginaceae
16	<i>Paris polyphylla</i> Sm.	Dudhia bach	Liliaceae
17	<i>Sinopodophyllum hexandrum</i> (Royle) T.S. Ying	Bankakri	Berberidaceae
18	<i>Skimmia laureola</i> (DC.) Siebold & Zucc. ex Walp.	Ner dhoop	Rutaceae
19	<i>Staphylea emodi</i> Wall. ex Brandis	Himalayan bladdernut/ Nag Danu	Staphyleaceae
20	<i>Swertia chirayita</i> (Roxb. ex Fleming) Karsten	Chiretta/Chirayata	Gentianaceae
21	<i>Taxus wallichiana</i> Zucc <b>Synonym:</b> <i>Taxus contorta</i> Griff.	Rakhal/Birmi	Taxaceae
22	<i>Trillium govanianum</i> Wall. ex D.Don	Himalayan Trillium/Nag chhatri	Melanthiaceae



# LIST OF THE THREATENED **ANIMAL SPECIES** OF HIMACHAL PRADESH

Sr. No.	Scientific Name	Common Name	Family
1	<i>Aquila nipalensis</i> Hodgson	Steppe eagle	Accipitridae
2	<i>Canis lupus chanco</i> Gray	Tibetan wolf	Canidae
3	<i>Capricornis thar</i> Hodgson	Himalayan serow	Bovidae
4	<i>Catreus wallichii</i> Hardwicke	Chir pheasant	Phasianidae
5	<i>Gypaetus barbatus</i> Linnaeus	Bearded vulture	Accipitridae
6	<i>Gyps bengalensis</i> Gmelin	White-rumped vulture	Accipitridae
7	<i>Gyps tenuirostris</i> Gray	Slender billed vulture	Accipitridae
8	<i>Hemitragus jemlahicus</i> C.H. Smith	Himalayan tahr	Bovidae
9	<i>Moschus chrysogaster</i> Hodgson	Himalayan musk deer	Moschidae
10	<i>Parnassius charltonius</i> Gray	Regal apollo	Papilionidae
11	<i>Parnassius stoliczkanus</i> Felder & Felder	Ladakh banded Apollo	Papilionidae
12	<i>Pucrasia macrolopha</i> Lesson	Koklass pheasant	Phasianidae
13	<i>Sarcogyps calvus</i> Scopoli	Red-headed vulture	Accipitridae
14	<i>Tragopan melanocephalus</i> Gray	Western tragopan/Jujurana	Phasianidae
15	<i>Tor putitora</i> Hamilton	Golden Mahseer	Cyprinidae
16	<i>Uncia uncia</i> Schreber	Snow leopard	Felidae



## SACRED GROVES

(Dev-van), rich biodiversity spots and exclusively conserved and protected by local community since time immemorial .

Primary & secondary data is being collected from the field to know the present status/health and its potential to be declared as **BIODIVERSITY HERITAGE SITES**.

HPSBB identified **248 SG** in Kullu and Shimla distt.

Block wise distribution of Sacred Groves



### Kullu District (95)

- Kullu-40
- Banjar-21
- Nirmand-5
- Anni- 14
- Naggar-15

### Shimla District (153)

- Chopal-6
- Jubbal-10
- Rohru-16
- Chirgaon-17
- Rampur-13
- Kumarsain-9
- Theog 31
- Basantpur-19
- Mashobra-32



- **Project Sacred Groves of HP, for detail documentation is being carried out by WWF-India, Shimla, Himachal Unit.**
- **Project duration = 2 years (2017-18)**
- **Total budget= ₹ 14 lakhs (1<sup>st</sup> instalment of 3.5 lakhs released)**

### **Plan of action**

S.No	Activities	Timeframe(months)					
		1-4	4-8	8-12	12-16	16-20	20-24
1.	Conceptualization and recruitment of staff						
2.	Collection of primary secondary data about the sacred Groves of HP						
3.	Field surveys community interactions and PRA's						
4.	Expert level consultation and compilation of the data base						



# ACCESS AND BENEFIT SHARING



Scrutinized 2125 Industries using Bio-resources in HP as under:

Districts/Units	Total no. units	No. of Units using bioresource
Ayurvedic Units	195	195
Kullu	1937	1098
Hamirpur	2945	46
Sirmour	216	149
Una	2358	378
Kangra	1096	259
Mandi	4066	List to be Scrutinized
Solan	5677	List to be Scrutinized
Shimla	1911	List to be Scrutinized
Lahaul & Spiti	590	No units using bio resource
Kinnaur	598	No units using bio resource
Bilaspur	2406	List to be procured
Chamba	1810	List to be procured
Total	<b>25805</b>	<b>2125</b>

**HPSBB is holding “Industrial Dialogue Meet on Access and Benefit Sharing (ABS) Implementation in Himachal Pradesh” in collaboration with CII, Directorate of Industries and Directorate of Ayurveda in the month of Dec. 2017**

# AWARENESS creation & CAPACITY BUILDING programmes



Sr. No	Conclave/workshops/Capacity Building Prog.	Date & Venue	Target Group
1	National Conclave of Biodiversity Management Committees for Experience Sharing on ABS and National Dialogue on Traditional Knowledge"	2nd to 4th May, 2017 at Hotel Holiday Home	Chairpersons & MS of SBB and Chairpersons of BMCs and TK holders
2	One day workshop on BD Act, 2002 & ABS provisions	11 <sup>th</sup> May 2017, at Hotel Holiday Home	State programme for media persons
3	One day workshop on BD Act, 2002 & ABS provisions	11 <sup>th</sup> July 2017, at Forest Training Institute Sundernager	CCF, DFO, RFO of GHNP CF, DFOs, RFOs of Forest Circles Kullu, Mandi & Bilaspur
4	Awareness Advocacy workshop for University Law Students on BD Act, 2002 & ABS provisions	25 <sup>th</sup> Aug., 2017 at Conference Hall, HPU, Shimla	Final year students of Law College
	One day workshop on BD Act, 2002 & ABS provisions	4 <sup>th</sup> Sept., 2017 at Hotel Holiday Home	Judges of HP High Court, Members of Bar Association of HP, Lawyers of High Court
5	One day workshop on BD Act, 2002 & ABS provisions	5 <sup>th</sup> Sept., 2017 at Forest Training School, Chail	CCF, DFOs, RFOs of Wildlife circle (South, Shimla) CF, DFOs, RFOs of Forest Circles Shimla, Rampur & Nahan
6	One day workshop on BD Act, 2002 & ABS provisions	7 <sup>th</sup> Sept., 2017 at CF Conference Hall, Dharamsala.	CCF, DFOs, RFOs of Wildlife circle (North, Dharamsala) CF, DFOs, RFOs of Forest Circles Dharamsala, Chamba & Hamirpur

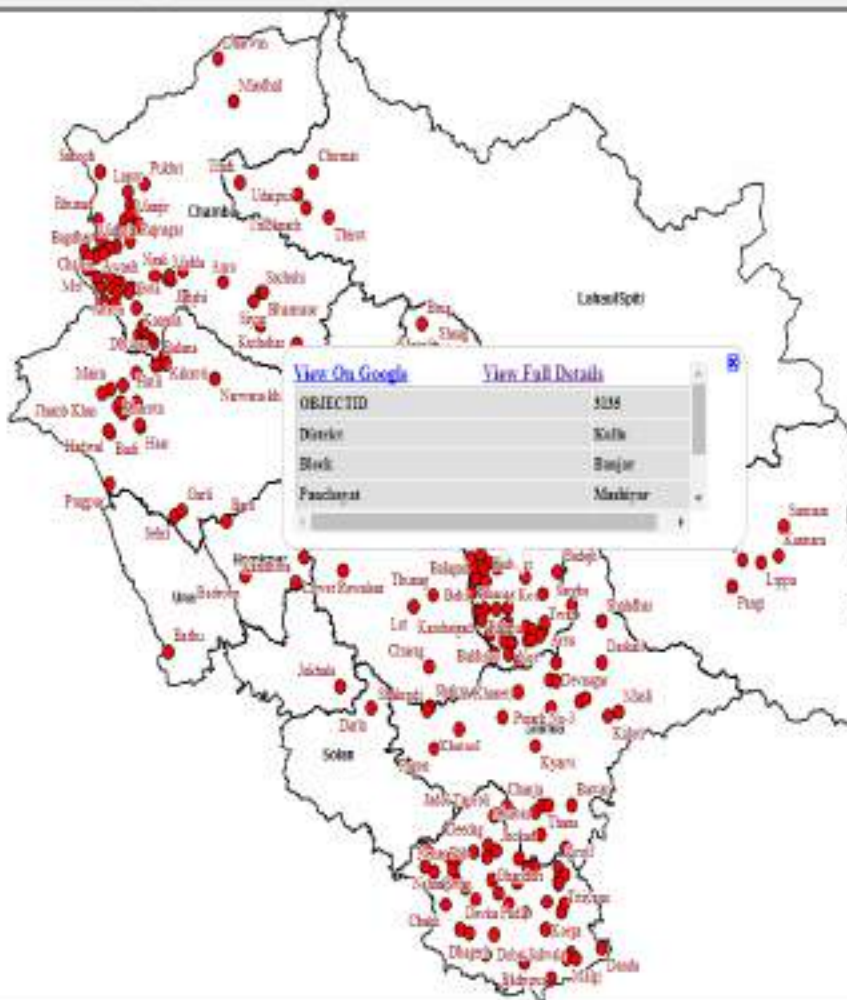




# Himachal Pradesh State Biodiversity Board



District  Block  ☒ BMC ☐ PBR [Home](#)



## Full Detail of BMC

District Kullu				
Block Banjar				
BMC Manhiyar				
SrNo	Name	Designation	Address	Designation
1	Sh. Nar Dass	Member	Sh. Sh. Brijani Singh, Village Ghalingcha, PO Bathad, Dist. Kullu-175123	Member
2	Sh. Thoma Ram	Secretary	Sh. Sh. Mohar Singh, Ward No. 5, NPO Bathad, Dist. Kullu-175123	Secretary
3	Sh. Sh. Chand	Chairman	Sh. Sh. PO Bath Kullu	Chairman
4	Smt. Gopi Devi	Women Member	W/o Sh. Har Ram, Village Manhiyar PO Bathad, Dist. Kullu-175123	Women Member
5	Sh. Dule Ram	Member (SC/ST)	Sh. Sh. Jee Ram, Ward No. 5, Sarai, PO Bathad, Dist. Kullu-175123	Member (SC/ST)
6	Sh. Utkam Ram	Member	Sh. Sh. Bal Ram, Ward No. 2, Kameda, PO Bathad, Dist. Kullu-175123	Member
7	Smt. Pushpa Devi	Women Member	W/o Sh. Sangeet Ram, Ward no. 1, Village Ghalingcha, PO Bathad, Dist. Kullu-175123	Women Member

## Bank Account Information for Local Biodiversity Fund

SrNo	Bank	IFSC Code	Account No
1	SBI Guharni	SBIO0000663	85276203467

<http://www.hpbiodiversity.gov.in>



**Thank you**