



LOADING
PLEASE WAIT...



Biological Diversity Act, 2002

Kunal Satyarthi, IFS

Member Secretary

H.P. State Biodiversity Board (HPSBB)

HIMCOSTE Shimla

Biological Diversity Act

- 1) Four stories
- 2) Biodiversity
- 3) Legal position
- 4) HPSBB efforts



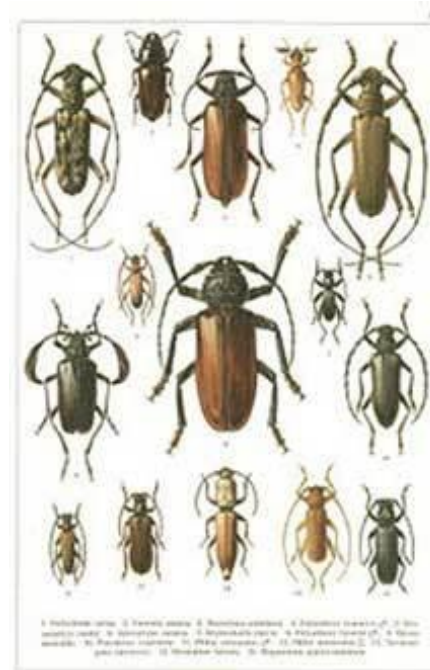
1) Four stories

THE TIMES OF INDIA

BDA case

DATE:
August, 2012

PLACE:
Darjeeling,
West Bengal



In **August 2012**, two Czech nationals were arrested “for stealing insects” near the Singalila National Park in Darjeeling. In September, the two — Prague-based entomologist Petr Svacha and his colleague Emil Kucera — were convicted by a local court under provisions of BDA, 2002.



THE TIMES OF INDIA

Baba Ramdev's firms to give Rs 12 crore to Uttarakhand

Biodiversity Board

TNN | Sep 7, 2016, 06.54 PM IST



DEHRADUN: Uttarakhand Biodiversity Board is going to charge Rs 12 crore from Baba Ramdev's firms which include Rs 10 crore from Patanjali Yogpeeth and Rs 2 crore from its subsidiary Divya Pharmacy for using natural resources of the state for their products. Under The Biodiversity Act, the industries using natural resources for their commercial venture has to either give 5% of the cost of the resources they are using or 0.1 to 0.5% as per their turnover to the Board annually under Access and Benefit Sharing (ABS) clause of the Act.

Chairman of the Board, Rakesh Shah told TOI, "There are some 3000 industries in the state. We have issued notice to some 600 so far to share their benefit with the board under ABS section of the Act. However since the companies never shared their benefit earlier so they are not forthcoming in doing so now. The big giants come up with seasoned lawyers of high court and Supreme Court who argue to minimize the cost under ABS."



DATE:
7th Sept 2016

PLACE:
Dehradun,
Uttarakhand

Konark Herbal & Health Care & Ors.

.....Petitioner

Versus

Madhya Pradesh Biodiversity Board & Ors.

.....Respondents

To

- R-1 Madhya Pradesh Biodiversity Board, Kisan Bhawan, 1st Floor, Arera Hills, Bhopal, Madhya Pradesh, through its Member Secretary.
- R-2 Divisional Forest Officer, Gwalior, Ghati Gaon, NH-3, Shivpuri, AB Road, Gwalior, Madhya Pradesh.
- R-3 Forest Range Officer, Forest Range Gwalior, District Gwalior, Madhya Pradesh.

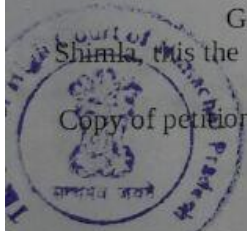
WHEREAS the petitioner above named has presented a petition under articles 226 and 227 of the constitution of India for issuing a writ, order or direction to the respondents AND whereas the said petition when came up for motion hearing on **13/06/2017** this court DOTH ORDER THAT a notice of admission be issued to the respondents. Notice is hereby given to you that the case will be laid before the court on **04th July 2017** for admission at 10 A.M. . "In the meanwhile, the petitioner to continue to join the investigation in terms of bail order dated 01.06.2017 but, however, no coercive steps shall be taken against the present petitioner. Also subject to the final outcome of the writ petition, operation of impugned letter dated 05.06.2017 , shall remain stayed"

2 Further take notice that the stay matter in **CMP No.XXXXX.....** has also been fixed for final orders on **XXXXXX** .

3. You are hereby informed to appear before this court on the initial date fixed and/or subsequent day, as the case may be, personally or through a duly authorized Advocate for this Court to show cause against the admission of the writ petition, failing which the matter will be decided in your absence.

Given under my hand and the seal of the High Court of Himachal Pradesh Shimla, this the 14th day of June ,2017.

Copy of petition attached



[Signature]
Section Officer (Judicial)

Note: You are hereby informed that the free legal services from the Sate Legal Services Authorities, High Court Legal Services Committees, District Legal Services

DATE:
14th June, 2017

PLACE:
HP High Court


Ravi s/o Swende
 w.r. : Devikoti, Palyak, Devikoti
 Tehsil Churah
 Chamba

- ① जंगली लहसुन 9500 रु प्र/कु-
- ② पनीश 8000 रु प्र/कु-
- ③ सालम पंजा 3000 रु प्र/कु-
- ④ कड़ मौड़ 500 रु प्र/कु-
- ⑤ मुश्कै बाला 80 रु प्र/कु-
- ⑥ बाग छतरी 2200 रु प्र/कु-
- ⑦ बनककड़ा 220 रु प्र/कु-
- ⑧ चुकरा 50 रु प्र/कु-
- ⑨ व्युप 200 रु प्र/कु-
- ⑩ ~~नीयस~~ मी 50 रु प्र/कु-

DATE:
 16th August 2017

PLACE:
 Devikoti, Churah,
 Chamba

2) Biodiversity

- 
- ▶ **Sec 2(b) Biological diversity** means the variability among living organisms from all sources and the ecological complexes of which they are part and includes diversity within species or between species and of eco-systems.



Genetic Diversity



Agri-Horticultural Biodiversity



***Swertia chirayita* (Chirayata)**



***Taxus wallichiana* (Rakhal)**



***Picrorrhiza kurroo* (Kutki)**



***Arnebia benthami* (Ratanjot)**

Species
Diversity



Ecosystem Diversity



Hotspots

- ▶ **25** major hotspots together represent 1.4 % of the earth's land area, they contain 44% of all plant species and 35% of all terrestrial vertebrate species in the world.

Number of Hotspots in India- 3

1. *Indo-Burma (earlier Eastern Himalayas)*
2. *Western Ghats and Sri Lanka.*
3. *Himalayas. (Newly added)*

Biodiversity

Biodiversity on Earth

- ▶ Plants & Animals : 5-10 million sp,
- ▶ 30 m?; 100m?.
- ▶ Identified in world so far: 1.77 million sp. (17,70,000)
- ▶ 1 million Animal (75% Insects);
- ▶ 2,48,000 Higher Plants,
- ▶ 69,000 Fungi

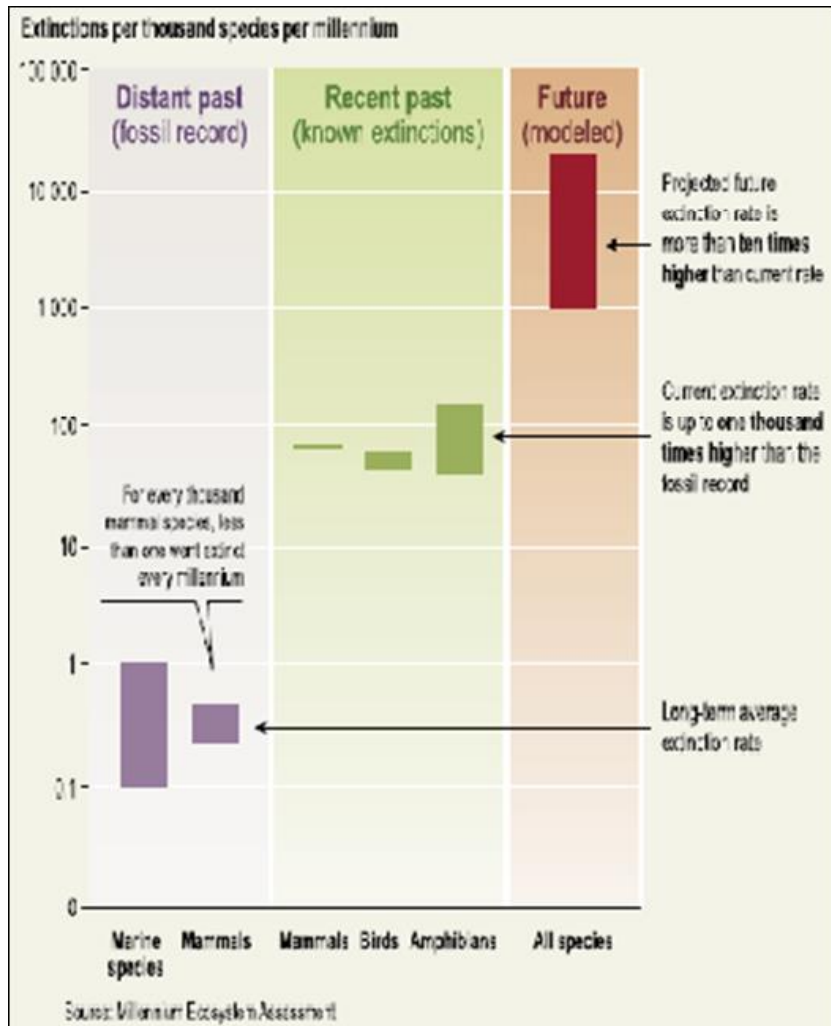
Biodiversity in India

- | | |
|--------------------|---------------------------|
| ▶ 31,000 Protozoa, | 91,000+Species of Animals |
| ▶ 27,000 Algae, | 45,500+ Species of Plants |
| ▶ 5,000 Bacteria & | Bacteria: 850+, |
| ▶ 1,000 Viruses | Fungi: 14500+ |

8+% of World's biodiversity in India + 3 Hotspots
(2% landmass, 16% Humans, 17% Cattle)

Species extinction

Extinctions per '000 species/millennium



- One million species already extinct!
- @150 species / day = 50000 species / year
- 1 in 100 species / year (0.7%)
- 2 million species in the next decade
- 50% species of insects

Western burrowing frog
Sphaerotheca pashchima

NEW SPECIES
of
burrowing frog from **western India**



Biodiversity: Concerns and issues

- Habitat destruction
- Over exploitation
- Genetic erosion and species extinction
- Alien species invasion
- Climate change
- Food security/
livelihood security
for present and
future generation

Biodiversity Loss:
Where Have
They Gone?



3) Legal position

Biological Diversity Act, 2002

(5th February, 2003)

An Act to provide for **conservation** of biological diversity, **sustainable use** of its components and *(fair and equitable sharing of the benefits)* arising out of the use of biological resources, *(knowledge)* and for matters connected therewith or incidental thereto.

BD as Common
heritage
of mankind

Over exploitation
Monopolisation



Sovereign rights of
the State over
their BD



संरक्षण

Conservation
of Biological
Diversity



सतत
उपयोग

Sustainable
Use of the
components



लाभ का
बटवारा

Fair and
equitable
sharing of
benefits

Biological Diversity Act 2002 : Chapters

1. PRELIMINARY

2. REGULATION OF ACCESS TO BIO-DIV

3. NATIONAL BIODIVERSITY AUTHORITY (NBA, Chennai)

4. FUNCTIONS AND POWERS OF THE -- N B A

5. APPROVAL BY THE - N B A

6. STATE BIODIVERSITY BOARD (HPSBB, Shimla)

*7. FINANCE, ACCOUNTS AND AUDIT OF N B A

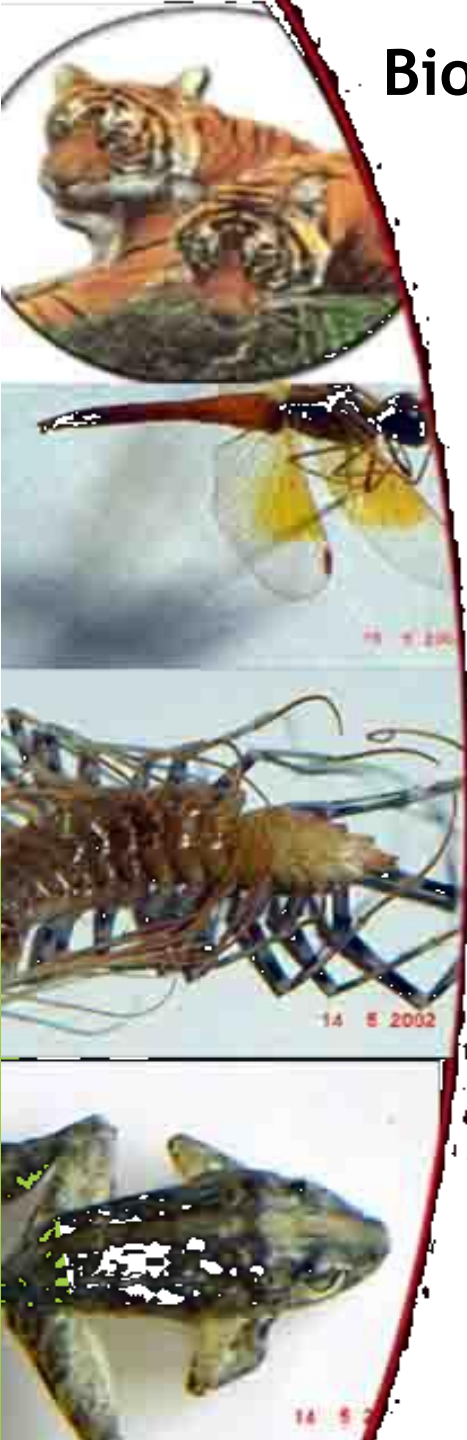
*8. FINANCE, ACCOUNTS AND AUDIT OF STATE BIO-DIV BOARD

9. DUTIES OF THE CENTRAL AND THE STATE GOVERNMENT

10. BIODIVERSITY MANAGEMENT COMMITTEES (150 BMC)

11. LOCAL BIODIVERSITY FUND

12. MISCELLANEOUS



BDA, 2002 Definitions (Sec. 2)

(c) **Biological resources** means plants, animals and microorganisms or parts thereof, their genetic material and byproducts *(excluding value added products)* with actual or potential use or value, *but does not include human genetic material.*

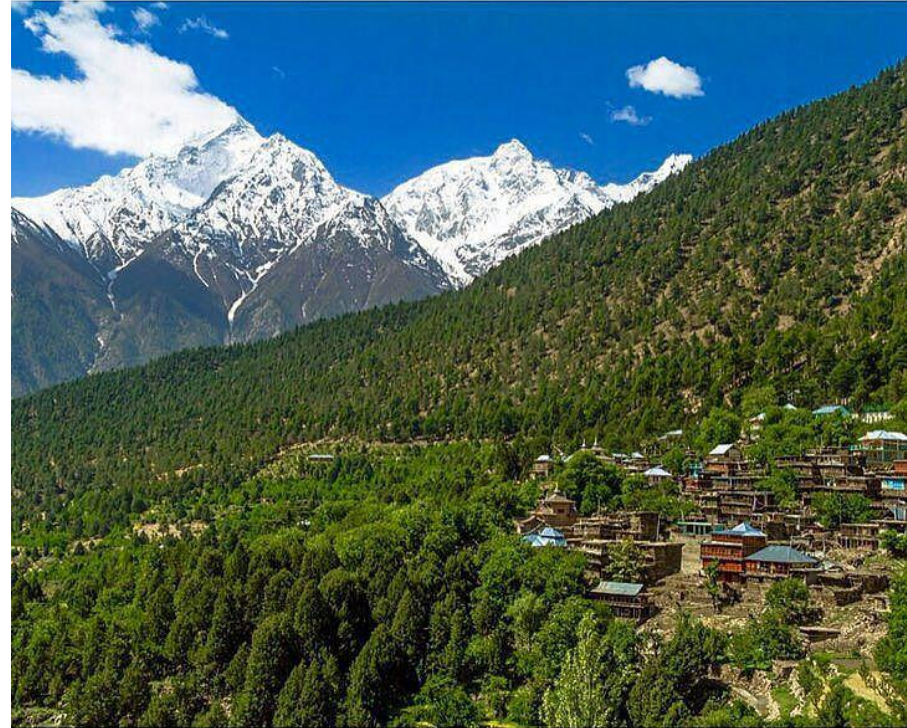
(d) **Bio-survey and Bio-utilization** means survey or collection of species, subspecies, genes, components and extracts of biological resource for any purpose and includes *characterization, inventorization and bioassay*

Definition (Sec. 2) contd...

- (f) **Commercial utilization** means end uses of biological resources for commercial utilization such as drugs, industrial enzymes, food flavours, fragrance, cosmetics, emulsifiers, oleoresins, colours, extracts and genes used for improving crops and livestock through genetic intervention, *but does not include conventional breeding or traditional practices in use in any agriculture, horticulture, poultry, dairy farming, animal husbandry or bee keeping;*
- (m) **Research** means study or systematic investigation of any biological resource or technological application, that uses biological systems, living organisms or derivatives thereof to make or modify products or processes for any use;

Three (plus+) tiers

- **NBA** (Sec 18)
- **HPSBB** (Sec 23)
- **BMC** (Sec 41)



Institutional Structure to implement the Act

National

National Biodiversity Authority

State

State Biodiversity Board

Local

Biodiversity Management Committee

HPSBB

Himachal Pradesh State Biodiversity Board (Sec 23) 9-17

- ▶ 2006 (1st 2006, 2nd 2016)
- ▶ Shimla
- ▶ Chairperson; Five ex-officio members; Five expert members
- ▶ Secretariat staff
- ▶ Consolidated fund of the State
- ▶ *Any citizen of India or body corporate or organization shall not obtain any biological resource for commercial utilization except after prior intimation to HPSBB*
- ▶ Research results & Patents benefits
- ▶ State Biodiversity Fund
 - ▶ BHS management
 - ▶ Conservation & promotion of biological resources
 - ▶ Socioeconomic development of the area

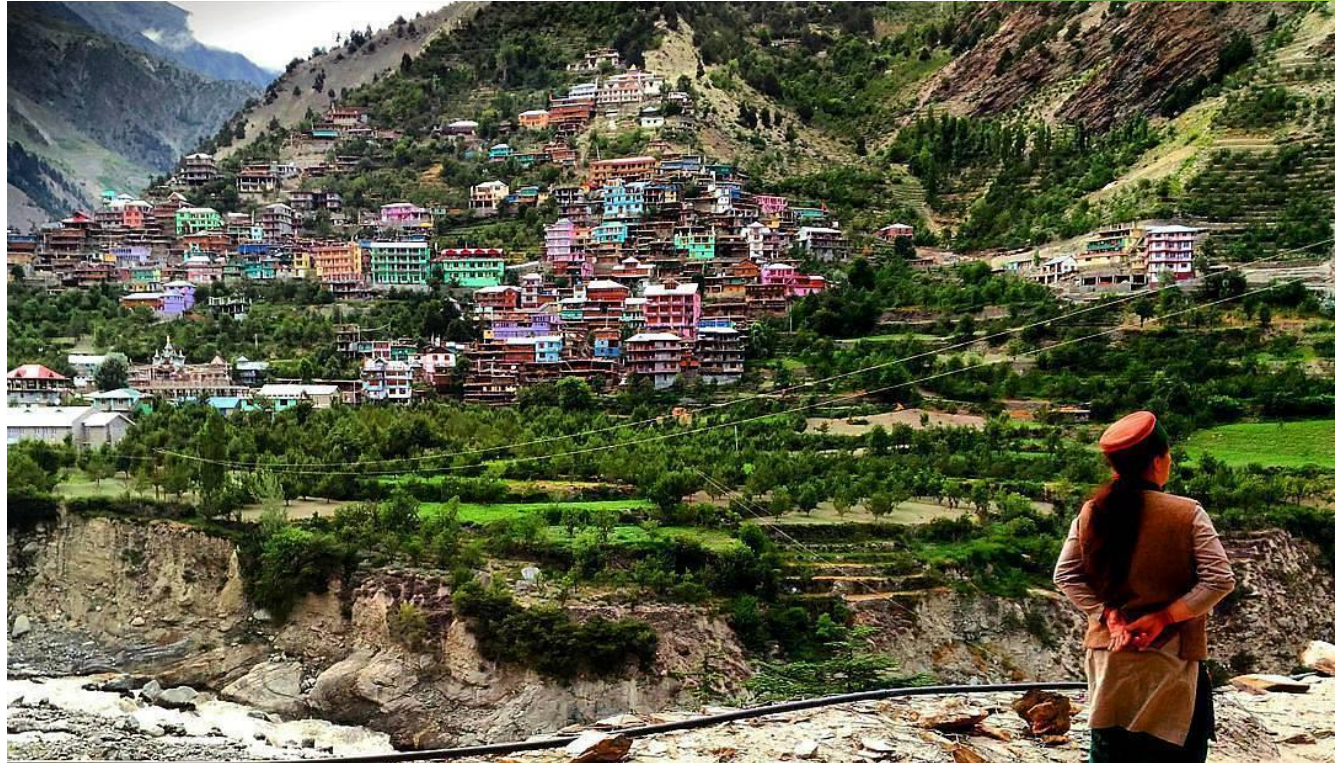
BMC

Biodiversity Management Committee (Sec 41)

- ▶ Section 41 & Rule 22 states that *‘Every local body shall constitute a Biodiversity Management Committee (BMC’s) within its area of jurisdiction’*.
- ▶ 2 General members, 2 females, 1 SC/ST, 1 President, 1 Secretary
- ▶ Territory
- ▶ Local bodies: Panchayats, Block, Zila and Municipalities
- ▶ *Prior consultation by NBA and HPSBB for utilization of local biological resource and knowledge*
- ▶ Collection of fees, if levied by BMC for accessing or collecting any biological resource for commercial purposes from areas falling within its territorial jurisdiction under sub-section (3) of section 41 of the Act, **shall be in addition to the benefit sharing payable** to the NBA/SBB under these regulations.

Terminology

- ▶ LBF
- ▶ PBR
- ▶ ABS
- ▶ BHS
- ▶ TS
- ▶ NTC



LBF

Local Biodiversity Fund

- ▶ any grants or loans by State of HP, NBA, HPSBB
- ▶ Levy of fees
- ▶ Fund to be used for conservation & promotion of biodiversity; for the benefit of the community
- ▶ Annual accounts to HPSBB/ Local Body



PBR

Peoples Biodiversity Register

- ▶ Documentation
- ▶ Maps and all primary data
- ▶ Register of the BMC containing details of:-
 - ▶ Plants
 - ▶ Animals
 - ▶ Microorganisms
 - ▶ Local cultivars, folk variety and land races
 - ▶ Local knowledge
 - ▶ Local customs
- ▶ Technical Support Groups (TSG)/NGO
- ▶ Funds for preparation of PBR

People's Biodiversity Register

Village Khera, District Shimla, Himachal Pradesh



The PBR Process

- PBR preparation: participatory process ---- intensive and extensive consultation with the people

A Step-wise process

Step 1

- Formation of Biodiversity Management Committee (BMC)

Step 2

- Sensitization of the public about the study, survey and possible management

Step 3

- Training of members in identification and collection of data on biological resources and traditional knowledge

Step 4

- Collection of data.

Step 5

- Analysis and validation of data in consultation with technical support group and BMC

Step 6

- Preparation of People's Biodiversity Register (PBR)

Step 7

- Computerization of information and resources

ABS

Access and Benefit Sharing Regulations, 21.11.2014

- ▶ Research (biosurvey & bioutilization),
- ▶ Transfer of research, Intellectual Property Rights, Third party transfer of research results.
- ▶ Commercial utilization of biological resource
- ▶ Purchase price:
 - ▶ Trader: 1-3% of the purchase price
 - ▶ Manufacturer: 3-5% of the purchase price
- ▶ Sale price:

0.1, 0.2 & 0.5% of the Annual gross ex-factory sale(minus government taxes); upto 1crore, 1-3 crore, above 3 crore
- ▶ High economic value: upfront payment
- ▶ Collection of fees by BMC (in addition to)
- ▶ Support conservation and sustainable use and to promote livelihoods of the local people
- ▶ Exemptions

ABS

- ▶ Access to GRs (Genetic Resources) is subject to **prior informed consent** (PIC) of the provider country.
- ▶ Users and providers to have bilateral agreement on **mutually agreed terms** (MAT), on sharing of benefits that may result from use of GRs.
- ▶ The benefit sharing components are determined on a **case by case basis**, following a sectoral approach
- ▶ The benefit sharing envisages **devolution of benefits to the BMCs** and/ or benefit claimers after retaining 5% of the component for administrative expenses. NBA or HPSBB 5%; BMC 95%

Access and Benefit Sharing: Legal TERMS

Biological Resources

- plants, animals and micro-organisms or parts thereof, their genetic material and by-products (excluding value added products) with actual or potential use or value, but does not include human genetic material;
- **Section 2(c)**

Value Added Products

- products which may contain portions or extracts of plants and animals in unrecognizable and physically inseparable form.
- **Section 2 (p)**

Commercial Utilization

- end uses of biological resources for commercial utilization such as drugs, industrial enzymes, food flavours, fragrance, cosmetics, emulsifiers, oleoresins, colours, extracts and genes used for improving crops and livestock through genetic intervention, but does not include conventional breeding or traditional in use in any agriculture, horticulture, poultry, dairy farming, animal husbandry or bee keeping;
- **Section 2 (f)**

Bio-survey and Bio-utilization

- survey or collection of species, subspecies, genes, components and extracts of biological resource for any purpose and includes characterization, inventorization and bioassay
- **Section 2 (d)**

Normally Traded Commodities

Pursuant to Central Government notifying any item including biological resources normally traded as commodities under this section, the same becomes exempted from the purview of the Act.

Such exemption is available only when the notified item is **normally traded as commodity**. When the same item is used as a resource in a process or for the development of a product, such item is not exempted and shall be treated as a biological resource, the access and obtainment of which is regulated by the provisions of this Act

Section 40

Access Benefit Sharing: LEGAL PROVISIONS

Section 7: Prior Intimation

- Prior intimation to the concerned SBB for obtaining any biological resource for commercial utilization, or bio-survey and bio utilization for commercial utilization
- Exemption: local people and communities of the area, including growers and cultivators of biodiversity, and vaid and hakims, who have been practicing indigenous medicine

Section 24: Order by the SBB

- After receiving the intimation, the SBB by an order prohibit/restrict any such activity (as mentioned above) if it is of the opinion that the same is detrimental or contrary to the objectives of conservation and sustainable use of biodiversity or equitable sharing of benefits arising out of the activity

Benefit Sharing between the SBB and the Applicant

- **Access to Biological Resources and Associated Knowledge and Benefit Sharing Regulations, 2014:**
- The share of benefit as paid by the Applicant depends on the level of Annual Gross ex-factory Sales:
- Up to Rs. 1,00,00,000: **0.1%**
- Between Rs. 1,00,00,000 and Rs. 3,00,00,000: **0.2%**
- Above Rs. 3,00,00,000: **0.5%**

Benefit Sharing with the BMCs

- Share of the SBB: **Maximum 5%** of the benefits accrued towards their administrative charges
- Share of the BMCs: **Minimum 95%** of the accrued to benefits
- In case BMC not identified: Funds to be used to support conservation & sustainable use of biological resources & support local livelihoods of the local people where bio-resources are accessed.

Biodiversity heritage sites (Sec. 37)

(1) Without prejudice to any other law for the time being in force, *the State Government* may, from time to time in consultation with the local bodies, notify in the Official Gazette, areas of Biodiversity heritage sites under this Act.

(2) The State Government, in consultation with the Central Government, **may frame rules** for the management and conservation of all the heritage sites.

(3) The State Government **shall frame schemes** for compensating or rehabilitating any person or section of people economically affected by such notification.

Biodiversity Heritage Sites (BHS)

Definition

- Well-defined areas that are unique, ecologically fragile ecosystems.
- These are spread over terrestrial, coastal and inland and marine waters having rich biodiversity.

Purpose

- Give legal conservation status to those which do not enjoy legal protection status under any other existing statute
- Strengthen biodiversity conservation in traditionally managed areas
- Stem rapid loss of biodiversity in intensively managed areas

Proposals and Notification

- Proposals for BHS should come from BMCs/gram sabhas/panchayats/urban wards/forest protection committees/tribal councils
- State government to notify (in consultation with local bodies) such areas of biodiversity importance as BHS

Management of BHS

- Management of BHS to be taken up by the BMC in addition to other duties
- BMC to prepare and implement a management plan for BHS covering a period of 5-10 years

TS

Threatened Species (Sec. 38)

Without prejudice to the provisions of any other law for the time being in force, *the Central Government*, in consultation with the concerned State Government, may from time to time notify any species which is on the verge of extinction or likely to become extinct in the near future as a threatened species and **prohibit or regulate** collection thereof for any purpose and take appropriate steps to rehabilitate and preserve those species.

H.P. (8 species) = Aconites (3species); Taxus; Dactylorrhiza;
Nardostachys; Jasminum and Eremostachys

NTC

Normally Traded as Commodities (Sec. 40)

, 7th April, 2016

- 385 entries
- Provisions of BDA,2002 shall not apply to:-

Items, Biological resource botanical name, Trade or
common name, Plant part, Source (cultivated, wild, mixed)

Products derived from 385 items and traded as a matter of
common practice

- Not-exempted:-

Used for any other purpose; Wild relatives of cultivated
species

Exemptions under the Act

Act provides exemption of certain activities from its purview :

- To local people and community for free access to use bioresources within India.
- To growers and cultivators, vaid and hakims (practitioners of traditional medicinal systems) to use bioresources.
- To biological resources, normally traded as commodities notified by the Central Government under section 40 of the Act.
- To collaborative research through government-sponsored institutes subject to conformity with guidelines and approval of the Central / State Governments.
- To access value added products.
- For research by Indians in India.
- Designated crop varieties listed in the Annex I of ITPGRFA by Department of Agriculture and Cooperation exempted from S 3 and 4. (MoEFCC Notification dated 17th December 2014)

Sec. 55. Penalties

- (1) Whoever contravenes or attempts to contravene or abets the contravention of the provisions of [section 3](#) or [section 4](#) or [section 6](#) shall be punishable with imprisonment for a term which may extend to **five years, or with fine which may extend to ten lakhs rupees** and where the damage caused exceeds ten lakhs rupees such fine may commensurate with the damage caused, or with both.
- (2) Whoever contravenes or attempts to contravene or abets the contravention of the provisions of [section 7](#) or any order made under [sub-section \(2\) of section 24](#) shall be punishable with imprisonment for a term which may extend to **three years, or with fine which may extend to five lakhs rupees**, or with both.

Sec. 56 Penalty for contravention of directions or orders of Central Government, State Government, National Biodiversity Authority and State Biodiversity Boards

If a person contravenes any direction given or order made by the Central Government, the State Government, the National Biodiversity Authority or the State Biodiversity Board for which no punishment has been separately provided under this Act, he shall be **punished with a fine which may extend to one lakh rupees and in case of a second or subsequent offence, with fine which may extend to two lakhs rupees** and in the case of continuous contravention with additional fine which may extend to two lakhs rupees everyday during which the default continues.

Sec. 58. The offences under this Act shall be cognizable and non-bailable.

Sec. 59. The provisions of this Act shall be in addition to, and not in derogation of, the provisions in any other law, for the time being in force, relating to forests or wildlife.

Sec. 60. The Central Government may give directions to any State Governments for execution of any of the provisions of this Act or Rules or regulations or orders.

Sec. 61 Authorized Officer

- ▶ No court shall take cognizance of any offense under this Act except on a complaint made by-
 - (a) The Central Government or any authority or officer authorized in this behalf by that Government; or
 - (b) Any benefit claimer who has given notice of not less than 30 days in the prescribed manner, of such offense and of his intention to make a complaint, to the Central Government or the authority or officer authorized as aforesaid

Officers authorised to file complaints under Sec 61(a)

Sl No	Officers authorised	Area of Jurisdiction
1	Officials of the NBA, not below the rank of Scientist 'C'	Whole of India
2	Officials of the SBB, not below the rank of Scientist 'C'	Whole of concerned state
3	Officers of the regional offices of MoEF, Gol, not below the rank of Scientist 'C'	Whole of the state under the jurisdiction of the respective regional offices
4	Forest officers not below the rank of range officers	In their respective jurisdiction

Sl. No. 1,2, and 3 vide SO 2708 (E) dated 17th Nov 2008

Sl. No. 4 vide SO 120(E) dated 7th Jan 2009

Guidelines

International Collaborative Research Projects	8 th Nov 2006
People's Biodiversity Register	2009, <i>revised ver.</i> in 2013
List of normally traded as commodities	26 th Oct 2009 (Revised in Apr. 2016)
Officers authorized to file complaints under Section 61(a) of the Act	17 th Nov 2008 7 th Jan 2009 (amendt.)
Biodiversity Heritage Sites	2010
Form filling guidelines to user groups	Feb, 2013
Operationalization of Biodiversity Management Committees	March, 2013
Access and Benefit sharing	21 st Nov 2014
Exempting Annex-I crops under ITPGRFA from Section 3 and 4	17 th Dec 2014

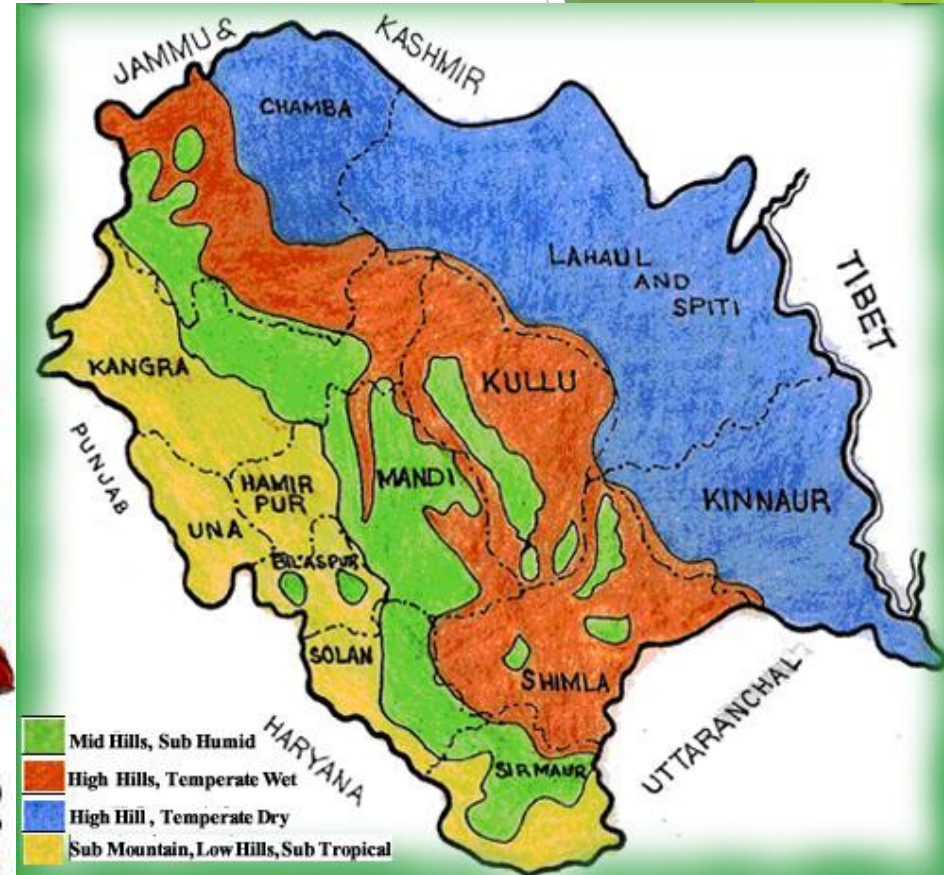
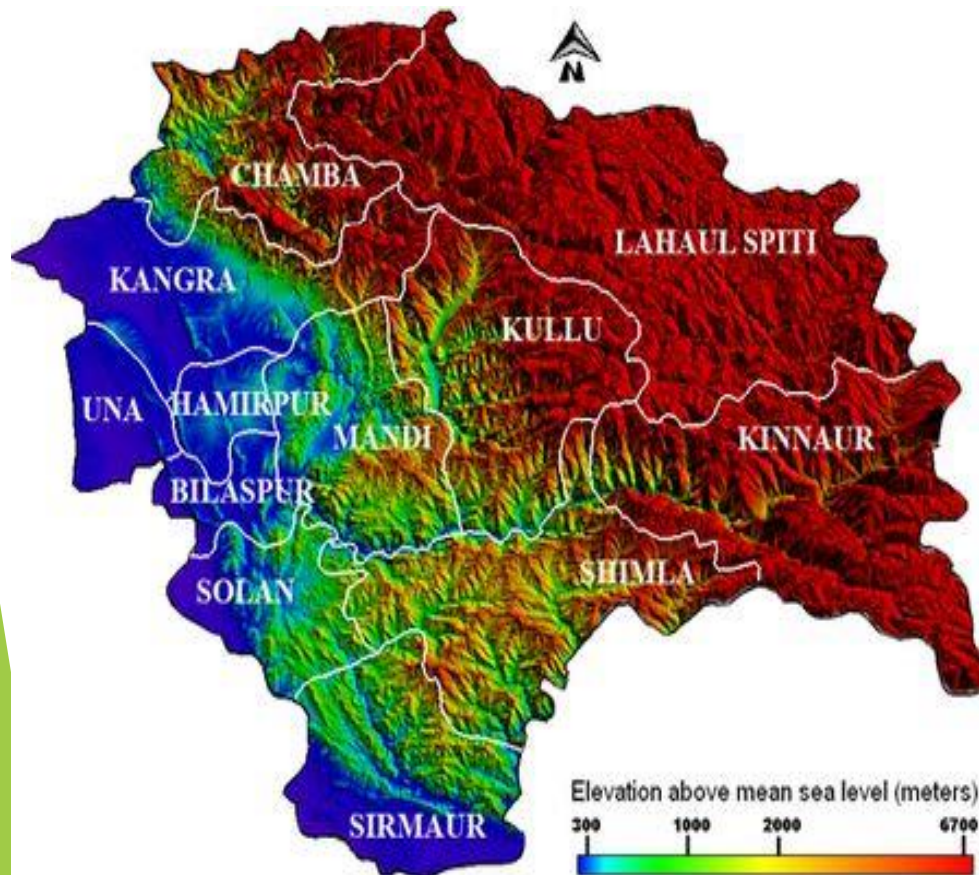
4) HPSBB efforts

S. N.	Name of the District	Number of Development Block	Number of Gram Panchayats
1	Bilaspur	4	151
2	Chamba	7	283
3	Hamirpur	6	229
4	Kangra	15	748
5	Kinnaur	3	65
6	Kullu	5	204
7	Lahaul-Spiti	2	41
8	Mandi	10	469
9	Shimla	10	363
10	Sirmour	6	228
11	Solan	5	211
12	Una	5	234
Grand Total		78	3226

12 + 78 + 2 + 3226 = **3306** BMC, PBR's & ABS points + BHS
(Financial year 2016-17 (prioritized 30% formula))



Priority Districts 2016-17



Sirmaur (22nd May16); Kullu (22nd June16);
Chamba (1st July 16); Shimla (9th Feb & 26th March 17)

Awareness Workshop to the Stakeholders of Biodiversity on BDA, 2002 and Rules, 2004

FY	District	Total no. of GP	No. of PRI participated	Venue & Date	Chief Guest
2016-17	Sirmaur	228	206	SFDA Hall, Nahan; 22/05/2016	Sh. Baldev Singh, Hon'ble District and Sessions Judge, District Sirmaur
	Kullu	204	168	Dev Sadan, Kullu; 22/06/2016	Sh. Thakur Singh Bharmouri Hon'ble Forest Minister to the GoHP
	Chamba	283	202	Hotel Ashiana Regency, 01/07/2016	Sh. Hans Raj Chauhan, Deputy Commissioner, District Kullu
	Shimla	289	202	CPRI, Bemloe; 09/02/2017	Sh. Virbhadra Singh, Hon'ble Chief Minister, H.P. & Sh. V.C. Pharka, Chief Secretary, GoHP
	Shimla	74	42	GSSS, Rampur; 26/03/2017	Mrs. Archana Sharma, Director, Department of Environment, Science and Technology
2017-18	Kinnaur	65	116	Bachat Bhawan, Reckong Peo; 22/05/2017	Sh. Jagat Singh, Hon'ble Deputy Speaker of Himachal Pradesh Legislative Assembly.
	Lahaul & Spiti	41	80	Gymnasium Hall, Keylong; 26/06/2017	Sh. Ravi Thakur, , Hon'ble MLA, Lahaul & Spiti
	Mandi & Kangra	To be covered in 2018			

Biodiversity Management Committees (BMCs) Constituted at Gram Panchayat, Development Block & Municipal Corporation Level

Sr. No	District	Total GP, Block & MC	BMC constituted	% age	% age in prioritize Distt.
1	Sirmour	228	48	21.1	31.25
2	Kullu	204	126	61.8	
3	Chamba	283	72	25.4	
4	Shimla	363	127	33.3	
5	Kinnaur	65	5	7.69	
6	Lahaul & Spiti	41	7	17.1	
7	Rest Distt.	2042	31	1.52	
8	Block level	78	1	1.28	
9	MC	2	1	50	
	Total	3306	416	12.5	

PBRs prepared under UNEP-GEF-MoEF Project

“Expert Group” evaluated and finalized 6 PBRs prepared under UNEP-GEF-MoEF Project:

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

Tripartite MoU details for the preparation of 122 PBRs

S.N.	District	MOU Signed	MOU to be Signed	Funds released to TSGs	Funds to be released to TSGs	HPSBB	UNEP-GEF	Total
1	Chamba	20	-	8	12	13	7	20
2	Kullu	33	10	25	18	39	4	43
3	Sirmour	20	0	17	3	19	1	20
4	Shimla	36	3	28	11	31	8	39
Total		109	13	78	44	102	20	122

TSG wise details of the Tripartite MoU for the preparation of PBRs

S. No.	District	Block	PBRs	TSG
1	Chamba (20)	Bhattiyat	8	Himachal Pradesh University, Shimla & Dr. Y. S. Parmar University of Horticulture & Forestry, Solan
		Chamba	3	
		Bharmour	3	
		Salooni	2	
		Mehla	3	
		Pangi	1	
2	Kullu (43)	Anni	3	CSK Himachal Pradesh Agricultural University, Palampur & GB Pant National Institute of Himalayan Environment and Sustainable Development, Kullu
		Banjar	14	
		Kullu	13	
		Naggur	13	
3	Sirmour (20)	Pachhad	3	Dr. Y. S. Parmar University of Horticulture & Forestry, Solan
		Nahan	2	
		Sangrah	6	
		Shillai	3	
		Rajgarh	1	
		Paonta	5	
4	Shimla (38)	Chhohara	3	Himalayan Forest Research Institute, Shimla And HP University, Shimla
		Chopal	7	
		Jubbal-Kotkhai	3	
		Nankhari	2	
		Theog	1	
		Mashobra	6	
		Basantpur	5	
		Narkanda	3	
		Rampur	4	
		Rohru	4	
5	MC	Shimla	1	
Total			122	

District: Chamba

S. N.	Name of BMC/Gram Panchayat	Block	District	MOU signed	Funds released to TSGs	Technical support Group (TSG)
1	Chalada	Bhatiyat	Chamba	✓	✓	Krishi Vigyan Kendra (KVK), Chamba O/o Dr. Y.S. Parmar University of Horticulture & Forestry, Nauni-Solan, H.P.
2	Pukhari	Chamba	Chamba	✓	✓	
3	Awanh	Bhatiyat	Chamba	✓	x	
4	Malunda	Bhatiyat	Chamba	✓	✓	
5	Manola	Bhatiyat	Chamba	✓	✓	
6	Taragarh	Bhatiyat	Chamba	✓	x	
7	Hatli	Bhatiyat	Chamba	✓	✓	
8	Kuthehar*	Bharmour	Chamba	✓	x	
9	Aura*	Bharmour	Chamba	✓	x	
10	Mehla*	Mehla	Chamba	✓	x	
11	Mindhal*	Pangi	Chamba	✓	x	
12	Kuned*	Mehla	Chamba	✓	✓	
13	Preena*	Mehla	Chamba	✓	x	
14	Ngali	Bhatiyat	Chamba	✓	x	
15	Bharmour*	Bharmour	Chamba	✓	x	
Total				15	6	

***BMCs under UNEP-GEF-MoEF Project**

District: Chamba

S. N.	Name of BMC/Gram Panchayat	Block	District	MOU signed	Fund released to TSGs	Technical support Group (TSG)
1	Mail	Bhatiyat	Chamba	✓	x	Himachal Pradesh University, Summer Hill, Shimla, H.P.
2	Pukhari	Salooni	Chamba	✓	✓	
3	Panjoh	Chamba	Chamba	✓	✓	
4	Chandi	Chamba	Chamba	✓	x	
5	Manjir	Salooni	Chamba	✓	x	
Total				5	2	

***BMCs under UNEP-GEF-MoEF Project**

District: Kullu

S. No.	BMC	BLOCK	DISTRICT	MOU signed	Fund released to TSGs	Technical support Group (TSG)
1	Biungal	Anni	Kullu	✓	✓	CSK Himachal Pradesh Agricultural University, Palampur
2	Mundal	Anni	Kullu	✓	✓	
3	Khani	Ani	Kullu	✓	✓	
4	Chakurtha	Banjar	Kullu	✓	✓	
5	Deuri Dhar	Banjar	Kullu	✓	x	
6	Larji	Banjar	Kullu	✓	✓	
7	Balagad	Banjar	Kullu	✓	✓	
8	Kothi Chehni	Banjar	Kullu	✓	✓	
9	Banogi	Banjar	Kullu	✓	✓	
10	Shainsher	Banjar	Kullu	✓	✓	
11	Seraj	Banjar	Kullu	✓	✓	
12	Mashiyar	Banjar	Kullu	x	x	
13	Kalwari	Banjar	Kullu	✓	x	
14	Bahu	Banjar	Kullu	x	x	
15	Bashona	Kullu	Kullu	✓	✓	
16	Nohanda	Banjar	Kullu	x	x	
17	Palahach	Banjar	Kullu	x	x	
18	Shikarighat*	Banjar	Kullu	✓	✓	
Total				14	12	

*BMCs under UNEP-GEF-MoEF Project

District: Kullu

S. No.	BMC	BLOCK	DISTRICT	MOU signed	Fund released to TSGs	Technical support Group (TSG)
1	Archandi	Naggar	Kullu	✓	✓	G.B. Pant National Institute of Himalayan Environment & Sustainable Development, Himachal Unit, Mohal, Kullu
2	Prini	Naggar	Kullu	✓	✓	
3	Jagat Sukh	Naggar	Kullu	✓	✓	
4	Naggar	Naggar	Kullu	✓	✓	
5	Duwara	Naggar	Kullu	✓	x	
6	Halan-I	Naggar	Kullu	x	x	
7	Halan-2	Naggar	Kullu	✓	x	
8	Nathan	Naggar	Kullu	✓	✓	
9	Shanag	Naggar	Kullu	✓	✓	
10	Brua	Naggar	Kullu	x	x	
11	Katrain	Naggar	Kullu	✓	x	
12	Soyal*	Naggar	Kullu	✓	✓	
13	Diyar	Kullu	Kullu	x	x	
14	Krarasu	Kullu	Kullu	✓	✓	
15	Jindour	Kullu	Kullu	✓	x	
16	Raila	Kullu	Kullu	✓	✓	
17	Bhalan-II	Kullu	Kullu	✓	✓	
18	Jalugran	Kullu	Kullu	✓	✓	
19	Mangarh	Kullu	Kullu	✓	✓	
20	Niyul	Kullu	Kullu	✓	✓	
21	Chheiunr	Kullu	Kullu	✓	✓	
22	Bastori	Kullu	Kullu	✓	✓	
23	Mohal*	Kullu	Kullu	✓	✓	
24	Shilirajgiri*	Kullu	Kullu	✓	x	
25	Vashisht	Naggar	Kullu	x	x	
Total				21	16	

*BMCs under UNEP-GEF-MoEF Project

District: Shimla

S.N.	Name of BMC/Gram Panchayat	Block	District	MOU signed	Fund released to TSGs	TSG
1	Municipal Corporation, Shimla	Shimla	Shimla	✓	✓	Himalayan Forest Research Institute (HFRI), Shimla
2	Chalahal	Basantpur	Shimla	✓	✓	
3	Nehra	Basantpur	Shimla	✓	x	
4	Thachi	Basantpur	Shimla	✓	x	
5	Karyali	Basantpur	Shimla	✓	✓	
6	Bhaloh	Mashobra	Shimla	✓	✓	
7	Thadi	Mashobra	Shimla	✓	✓	
8	Moolkoti	Mashobra	Shimla	✓	✓	
9	Shakrah	Mashobra	Shimla	✓	✓	
10	Shambla Ghat	Mashobra	Shimla	✓	✓	
11	Ganewag Nehra*	Mashobra	Shimla	✓	x	
12	Thaili Chakti	Nankhari	Shimla	✓	✓	
13	Khaneti	Narkanda	Shimla	✓	✓	
14	Mogra	Narkanda	Shimla	✓	✓	
15	Kangal*	Narkanda	Shimla	✓	x	
16	Darkali	Rampur	Shimla	✓	✓	
17	Devnagar	Rampur	Shimla	✓	✓	
18	Shahdhar	Rampur	Shimla	✓	✓	
19	Jeori*	Rampur	Shimla	x	x	
20	Kuddu*	Jubbal Kotkhai	Shimla	✓	x	
21	Basantpur	Basantpur	Shimla	✓	✓	
Total				20	15	

*BMCs under UNEP-GEF-MoEF Project

District: Shimla

S.N.	BMC	BLOCK	DISTRICT	MOU signed	Fund released to TSGs	TSG
1	Chanju	Chopal	Shimla	✓	✓	Himachal Pradesh University, Summer Hill, Shimla, H.P.
2	Dhabas	Chopal	Shimla	✓	✓	
3	Khund Neval	Chopal	Shimla	✓	✓	
4	Thana	Chopal	Shimla	✓	✓	
5	Jokhad	Chopal	Shimla	✓	✓	
6	Dhar Chandana	Chopal	Shimla	✓	✓	
7	Dhotali*	Chopal	Shimla	✓	x	
8	Dalgaoin	Rohru	Shimla	✓	✓	
9	Dharada	Rohru	Shimla	✓	✓	
10	Kadiwan	Rohru	Shimla	✓	✓	
11	Rantari*	Rohru	Shimla	✓	x	
12	Masli	Chhohara	Shimla	✓	✓	
13	Chirgaon*	Chhohara	Shimla	x	x	
14	Kaloti	Chhohara	Shimla	✓	x	
15	Baghi	Jubbal Kotkhai	Shimla	✓	✓	
16	Kiari*	Jubbal Kotkhai	Shimla	x	x	
17	Kot Shilaru	Theog	Shimla	✓	✓	
18	Sholi	Nankhari	Shimla	✓	✓	
Total				16	13	

*BMCs under UNEP-GEF-MoEF Project

District: Sirmour

S. N.	Gram Panchayat	Block	District	MOU signed	Fund released to TSGs	TSG
1	Tikkri Kuthar	Pachhad	Sirmour	✓	✓	Dr Y.S. Parmar University of Horticulture & Forestry, Nauni-Solan, H.P.
2	Dobri Salwala	Paonta	Sirmour	✓	✓	
3	Nohra Dhar*	Sangrah	Sirmour	✓	x	
4	Wasni	Pachhad	Sirmour	✓	x	
5	Bakras	Shillai	Sirmour	✓	✓	
6	Loja Manal	Shillai	Sirmour	✓	✓	
7	Bhattan Bhajaund	Sangrah	Sirmour	✓	✓	
8	Sainwala	Paonta	Sirmour	✓	✓	
9	Badripur	Paonta	Sirmour	✓	✓	
10	Nehar Pab	Rajgarh	Sirmour	✓	✓	
11	Korga	Paonta	Sirmour	✓	✓	
12	Rajana	Sangrah	Sirmour	✓	✓	
13	Surla	Nahan	Sirmour	✓	✓	
14	Malgi	Paonta	Sirmour	✓	✓	
15	Tikkri Dasakna	Sangrah	Sirmour	✓	✓	
16	Sangrah	Sangrah	Sirmour	✓	✓	
17	Nehar Swar	Nahan	Sirmour	✓	✓	
18	Mangarh	Pachhad	Sirmour	✓	✓	
19	Sainj	Sangrah	Sirmour	✓	x	
20	Naya Panjorh	Shillai	Sirmour	✓	✓	
Total				20	17	

***BMCs under UNEP-GEF-MoEF Project**

Project awarded to: WWF Shimla

Time period: 2 Years

Funds Allocated: Rs. 14,00,000/-

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

Block wise distribution of Sacred Groves **Shimla District (153)**

Kullu District (95)

- **Kullu-40**
- **Banjar-21**
- **Nirmand-5**
- **Anni- 14**
- **Naggar-15**
- **Chopal-6**
- **Jubbal-10**
- **Rohru-16**
- **Chirgaon-17**
- **Rampur-13**
- **Kumarsain-9**
- **Theog 31**
- **Basantpur-19**
- **Mashobra-32**



Trade Chain, Trade Pattern & Value Chain Economics

Work awarded to: Shoolini University, Solan (HP)

Time period allotted for report submission- 3 months

DoS: 9.2.2018 (Rs. 125,000 released)

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

Conservation of locally available traditional, *Ephedra gerardiana* tea through R&D and capacity building of BMCs (2 Nos.) in coordination with CSIR-IHBT, Palampur

- **R&D on active constituents**
- **Conservation of species through involvement of local stakeholders**
- **Incentives for transforming target BMCs in to model BMCs**

Five core strengths (BDA)

1. Sovereign rights (Checks biopiracy)
2. Decentralization (BMC-pivot)
3. Inventorisation (PBR)
4. Economic benefits (95%)
5. Penalty (differentiation & magnification)

For further curiosity, if any:-

Kunal Satyarthi, IFS

www.scste.gov.in

www.hpbiobiodiversity.gov.in

kunalsatyarthi@gmail.com

Whats app & Facebook

9410394349

