

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: Bohordar-A

Taluk: Ramsoo

District: Ramban

State:J&K

Geographical Area of the Panchayat Samiti:

Population under the Panchayat Samiti: Total 3250

Male 1650 **Female** 1600

Habitat and Topography: Rainfall

Climate (Rainfall, Temperature and weather patterns)

Land Use (Nine fold classification available with village records)

Date, Month and Year of PBR Preparation 25/08/2020

Management Regime: Reserve Forest (RF)/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Managed Forest(COM)

Annexure 1

Details of Biodiversity Management Committee (BMC) of the Panchayat (One elected Chairperson and six persons nominated by the local body ; not less than one third to be women and not less than 18% belonging to SC/ST)

1)Name of the Chairperson: Mohd Hanief Sohil S/O Abdullah

Age: 70 yrs

Gender: Male

Address: Bohardar Kanhal

Area of specialization: Agriculture

2) Name: Shafeeqa Begum W/O Mohd Ashraf Bhat

Age: 40 yrs

Gender: Female

Address: Gugwani Bohardar A

Area of specialization: Agriculture

3)Name: Mohd Rafiq Shan S/O Gh. Mohd Shan

Age: 35 yrs

Gender: M

Address: Gagernag Bohardar A

Area of specialization: Agriculture

4)Name: Ab. Rahman Sheikh S/O Mohd Maqbool

Age: 60 Yrs

Gender: Male

Address: Gugwani Bohardar A

Area of specialization: Agriculture

5)Name: Nazir Ahmed GujjerS/O Noor Din

Age: 54 yrs

Gender: Male

Address: Gujar Basti Kanihal

Area of specialization: Agriculture

6)Name: Shabir Ahmed Sheikh S/O Mohd Yousf Sheikh

Age: 34 yrs

Gender: Male

Address: Gugwani Bohardar A

Area of specialization: Agriculture

7)Name: Mohd Rafiq S/O Ab. Rashid Naik

Age: 32 yrs

Gender: Male

Address: Topan Bohardar A

Area of specialization: Agriculture

Annexure-2

List of Vaid, hakims and traditional health care (Human and livestock) practitioners residing and or using biological resources occurring within the jurisdiction of the village

1) Name : Pawan Singh S/O Mangath Ram

Age: 47 yrs

Gender: Male

Address: Kanihal Bohardar A

Area of specialization: Agriculture

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use: Yes

2) Name: Sewa Singh S/O Jodha Ram

Age: 60 yrs

Gender: Male

Address: Kanihal Bohardar A

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use: Yes

3) Name: Pashpal S/o Mangath Ram

Age: 40 yrs

Gender: Male

Address: Kanihal Bohardar A

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use: Yes

Annexure 3

List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry

1) **Name of the Chairperson:** Ab. Qayoom Bohru S/O Gh Rasool Bohru

Age: 72 yrs.

Gender: Male

Address: Topan Bhordar A

Area of specialization: forestry

2) **Name of the Chairperson:** Ab. Gaffar Bhat S/O Rasool Bhat

Age: 58

Gender: Male

Address: Gugwani Bhordar A

Area of specialization: forestry

3) **Name of the Chairperson:** Nil

Age:

Gender:

Address:

Area of specialization:

4) **Name of the Chairperson:** Nil

Age:

Gender:

Address:

Area of specialization:

Annexure 4

Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR

1) **Contact Person:** Ab Rehman Bohru S/O Gaffar Bohru

1) **Name and Address :-** Tapan Bhardar A

2) **Contact Person:** Mohd Ramzan Bohru

Name and Address: Tapan Bhardar A

3) **Contact Person:** Rashid Malik

Name and Address: Tapan Bhardar A

4) **Contact Person:** Mohd Muzamal

Name and Address: Tapan Bhardar A

You may add names of more institutions/NGO/Individuals etc, if necessary

Annexure 5

Detail of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefit derived and the mode of their sharing

S.no	Name and address of the Person/Institute/company others	Local and Scientific Name of the biological material Accessed and quantity	Date and resolution of the BMC and endorsement by the Panchayat	Detail of collection fee imposed	Anticipated mode of sharing benefits or quantum of benefits shared

End of Part I

Part II
PBR – Formats
AGROBIODIVERSITY
Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape / Habitat	Approx. area shown	Local Status		Special features	Cropping season	Uses	Associated TK	Other details	Source of Seeds/ Plants	Community/ Knowledge Holder
						Past	Present							
Rice	<i>Oryza sativa</i>		Veliyan	Lowland valleys		Plenty	Rare	Tall variety High yield Resistant to drought, flood, pest & diseases		Food Fodder Roofing Fuel	Provides more energy	Suitable for “Valicha” cultivation		Kurichiya Kuruma W. Chetty
Maize	<i>Zea mays</i>	Mak/ Kakri		Tropical/ Sub Tropical		Plenty	Plenty			Food Fodder Roofing Fuel				
Wheat	<i>Triticum aestivum</i>	Kanak		Tropical/ Sub Tropical		Plenty	Plenty							
Knol Knol	<i>Brassica oleracea</i>	Kadam				Plenty	Plenty							
Potato	<i>Solanum tuberosum</i>	Aloo				Rare	Rare							
Joa	<i>Pennisetum glaucum</i>					Rare	Rare							
Sarso	<i>Brassica juncea</i>	Mustard				Rare	Rare							
pulses (Mash)	<i>Vigna mungo</i>					Rare	Rare							

The format 1 could be used for documenting information about Millets, Cereals, Oil seeds, Commercial crops, Tuber crops, Vegetables, Legumes, Aromatic crops etc. The column No. 9 'other details' vary with the nature of crops. For measuring local status, there need to identify a particular year – significant changes in ecology occurred – and compare the status as past and present (past = before the particular incident). We have to list out all possible features of a crop/plant and give short forms of the same. If relevant, cultivation practices, propagation techniques, usage etc can be included in the column 8, in associated TK.

Format 2: Fruit Plants

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder
					Past	Present						
Apple	<i>Malus domestica</i>	Saib	Red Delicious, Golden Delicious etc	Mid hills upto High hills	Rare	Plenty	Govt. Nursery/ Private Registered Nry	Rainy	Provide Nutrient and Energy	Fresh fruit, Juice, Jam etc	Consumed in local Market Mandi/Jammu	Farmer/ Department of Horticulture
Pear	<i>Pyrus communis</i>	Bagu Gosha, Nakh Nashpati	Red Bartlett, Punjab Beauty, Pathar Nakh, Star Krimson	Mid hills to High hills			Govt. Nursery/ Private Registered Nry	Rainy		Fresh Fruit		Farmer/ Department of Horticulture
Peach	<i>Prunus persica</i>	Asroo	FLA 16/13 July Alberta, Quetta, Florida sum, Florida Prenice	Lower hills upto High hills			Govt. Nursery/ Private Registered Nry	Summer		Fresh Fruit		Farmer/ Department of Horticulture
Apricot	<i>Prunus armeniaca</i>	Khobani Sarri	Bebco, Harkat	Lower hills upto High hills			Govt. Nursery/ Private Registered Nry	Summer		Fresh Fruit		Farmer/ Department of Horticulture
Plum	<i>Prunus saliciana</i>	Aloo Bukhara	Santa Rosa, Kala Amritsari, Alubukhara, Aloocho	Mid hills to High hills			Govt. Nursery/ Private Registered Nry	Summer		Fresh fruit,		Farmer/ Department of Horticulture
Walnut	<i>Juglans regia</i>	Akhroot	Burzal, Kagzi, Local Selections	High hills			Govt. Nursery/ Private Registered Nry	Rainy		Dry Fruit		Farmer/ Department of Horticulture
Fig	<i>Ficus carica</i>	Phogara	Local	Mid hills			Govt. Nursery/ Private Registered Nry	Rainy		Fresh Fruit		Farmer/ Department of Horticulture

Format 3: Fodder Crops / Species

1	2	3	4	5	6	5		6	7	8	9	10
Crop	Scientific Name	Local Name	variety	Landscape/Habitat	Apporax area (in Ha.)	Local Status		source of Seeds/Plants	Associated TK	Part Used	Other Details	Community/ Knowledge
						Past	Present					
Oats	<i>Avinasativa</i>	javi	Kent	Sub-tropical, Semi-tropical & Temperate	2 Ha.	plenty, in wild habitat	Plenty	Suitable for fodder	Rabi	Grain/seed used for favour leave stem for fodder	Nutritious and palatable fodder	Local Seed Deptt. Seed
Bajra	<i>Fennisetum glacicum</i>	Bajra		Sub-tropical, Semi-tropical & Temperate	3 Ha.	Local varieties	improved plenty varities	Suitable for fodder	Kharief	leaves and stem	Nutritious and palatable fodder	Local Seed Deptt. Seed
Sorghum	<i>Sorghum bicolor</i>	Charri		Sub-tropical, Semi-tropical & Temperate	3Ha.	Local varieties	improved plenty varities	Green Dry Fodder	Kharief	leaves and stem	Rich source of Energy Nutritious fodder	Local Seed Deptt. Seed
	<i>Celtis australis</i>	Kharak		Temperate		Rare	Rare					
	<i>Salix alba</i>	Veer		Temperate		Abundant	Abundant					
	<i>Quercus diliata</i>	Mohser		Temperate		Rare	Rare					
	<i>Quercus incana</i>	Banj		Temperate		Rare	Rare					

FORMAT - 4 : WEEDS

1	2	3	4	5	6	7		8	9	10	11	12
Crop	Scientific Name	Local Name	Affected Crops	Impact	Landscape/Habitat	Local Status		Uses if any	Management Option	Associated TK	Other Details	Community/ Knowledge Holder
						Past	Present					
Maize	<i>Cynodon dactylon</i>	Bamunda Grass	Maize	1. Grow faster than native plants and successfully compete for available nutrients, water, space and sunlight. 2. Reduce natural diversity 3.Reduce crop productivity 4.Cause Human Health Problems such as Respiratory skin irritation.	Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed
	<i>Commelina benghalensis</i>	Kaun Makki	Maize		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed
	<i>Cyprus rotundus</i>	Dila	Maize		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed
	<i>Digera arvensis</i>	Tandla	Maize		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed
	<i>Acrachne racemosa</i>	makra	Maize		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed

	Chenopodium album	Battua	Maize		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers	Used as vegetable	Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed
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Wheat	Chenopodium album	Bathua	Wheat		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers	Used as vegetable	Manual control/ chemical management through herbisides	Rich source of protein vitamin A, Calcium , Potasssium & Phosphorous	local	No. TK with knowledge of weed
	Avena Fatua	Wild Oats	Wheat		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Source for high quality	local	No. TK with knowledge of weed
	<i>Medicago denticulata</i>	Maina	Wheat		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Manual control/ chemical management through herbisides	local	No. TK with knowledge of weed
	Phlalaris Minor	Gully Danda	Wheat		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Source for high quality	local	No. TK with knowledge of weed
All Crop	Parthenimum hystrophorous	Gajjar Ghass (cangress grass)	all crop		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Abnoxious weed difficult to control	exotic	No. TK with knowledge of weed
	Vicia hirsua	Chingeri Sag	all crop		Hilly and Temperate & intermiadate ar of district	No weed management	Weed mgmt. on scientific lines being followed by farmers		Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed
	<i>Rumex maritimus</i>	Jangali Palak	all crop			No weed management	Weed mgmt. on scientific lines being followed by farmers	Used as vegetable	Manual control/ chemical management through herbisides	Nil	Nil	No. TK with knowledge of weed

Format 5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientific name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
Wheat	Field Rats	<i>Bendicota bangalensis</i> , <i>Torera indica</i> , <i>Millardia meltada</i>	Chuha	All Fields	All Season	1. Traps and chemicals	Nil	Nil	Nil
Maize	Cut Worm	<i>Agroris sp.</i>	Toka	maize	April to May	1. Chemical management through insecticide (Phorate)	Nil	Nil	Nil
	Stem Borer	<i>Chilo Partellus</i>	Padi	maize	June to July	1. Ploughing of field after harvest and destroy stubbles & weeds 2. Distruction of infected plant and removal of dead herts 3. Chemicals management through insectisides	Nil	Nil	Nil
	Cob Worm	<i>Helicoverpa armigera</i>		maize	June to July	1. Deep summer ploughnig 2. Installation of pheromone traps for monitoring 3. Chemicals management through insecticides	Nil	Nil	Nil
	Blister beetal	<i>Mylabris pustulata</i>	Khundi	maize	June to August	1. Avoid Excessive use of nitogenous fertilizers 2. Manual collection or collection with insect net and killing of adults in kerosenized water 4. Need based spray of carbrybl and fenthione	Nil	Nil	Nil
Mustard	Aphid	<i>Lipasphis erisyimi</i>		mustard	Mustard	1. Avoid late sowing a excessive use of nitrogen fertilizers crop should be sown before 20th oct. 2. Need base spray of dimethoate 30 EC or Methyl Demetone 25 EC	Nil	Nil	Nil

Other details may include possible reasons for insects/animal attack

Format 6: Markets for Domesticated animals

1	2	3	4	5	6	7	8	9
Name of the market & location	Weekly (D)/ Fortnightly (D) / Monthly (D) / Biannual (M) / Annual (M) [1]	Types of animals bought and sold [2]	Types and Average Number of animals transacted in a day	Places from which animals are brought	Places to which the animals are sold / transported	Name and location of fish market	Types of fishes sold	Source of fish
Nil	-	-	-	-	-	-	-	-

Note: [1] (D) – day; (M) – month;

[2] Types of animals may include: Poultry / Sheep / Goats / Cattle / Ducks / Pigs / Donkeys / Mules / Horses / Camels / Others (Specify)

Format 7: Peoplescape

1	2	3	4	5	6	7	8	9	10	11
Community & Population	Families & Major occupation	Sub- occupation	Depending Landscape	Major resources accessed and seasons of access	Landscape management practices	Resource management practices	Cast / tribe	Social condition	Nature of inhabitants	No. of HHs
3250	Farmers	Labours		NIL	NIL	NIL	OC	AREA		

Major occupation may be farming. Sub-occupations could be fishing, collection of NTFP animal husbandry, artisans, services Examples of depending landscapes are agriculture landscape, rivers, forest etc.

Major resources accessed could be agriculture resources of different nature, fish, birds, water, mud, and etc

How the community manages the landscapes they use for satisfying different needs, their strategies and perception

How the community manages the resources they access for satisfying different needs, their strategies and perception, conflicts etc

Format 8: Landscape

Format 8: Landscape													
1			2	3	4	5	6	7	8	9	10	11	12
Major Landscapes			Sub - Landscapes	Features and approx. Area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Agricultural land	Pond	Fallow Land											
Forest Land			Forest Land	20%	Govt/Private	Wild plantation	Insect and Amphibian	Unknown	Unknown				
Cultivated land			Cultivated land	55%	Agriculturely Land is privately owened.	Plant. Some wild plant	Insect	Nil	Unknown				Low income communitis
Non-Cultivated Land			Non-Cultivated Land	25%	Govt/Private	Plant. Some wild plant	Insect	Available for farming cattle rearing. Rat catching	Unknown				Low income communitis
Grazing land			Grazing land	20%	Private	Plant. Some wild plant	Insect	Unknown	Unknown				Low income communitis
Irregated Land			Irregated Land	0%	Government	Wild Plant	Insect and Amphibian	Unknown	Unknown				Low income communitis
Non-Irregated Land			Non-Irregated Land	55%	Government	Wild Plant	Insect and Amphibian	Unknown	Unknown				Low income communitis

Format 9 : Waterscape

1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape element type	Sub- type	Features and approx area	Ownership	General flora	General fauna	Major uses	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
River	Bislari		Govt under Land and revenue Dept. and Panchayat	Mostly Broyophytes and Pteridophytes	Amphibians	Daily Household and drinking	All the People of the area	Traditional management practices for strengthening of bunds and deepning of tanks beds.	For Drinking, washing clothes	Unknown	Unknown	General people of village
Canals			Govt under Land and revenue Dept. and Panchayat	All crops including fruits, vegetables, flowers	Frog, Tadpoles, Fishes Water snake	Irrigation, Hydro Power	Farmer	Small check Dams	For irrigation and drinking of domestic animal	Unknown	Unknown	Local Villagers
Nalas	Gagarnag Gagoni		Panchayat and Govt Dept.	All crops including fruits, vegetables, flowers	Frog, Tadpoles, Fishes Water snake	Irrigation	Farmer	Check Dams	For irrigation and drinking of domestic animal	Unknown	Unknown	Local Villagers
Khads	Gagarna		Gram Panchayat	Mostly Broyophytes and Pteridophytes	Frog, Tadpoles, Fishes Water snake	Irrigation	Farmer	Check Dams	For irrigation and drinking of domestic animal	Unknown	Unknown	Local Villagers

Format 10: Soil type

1	2	3	4	5	6	7	8
Soil Type	Color & Texture	Features	Soil management	Plants / crop suitable	Flora and fauna	Associated TK	Other information
Clay	Red	Clay soil holds a lot of water but it cannot hold much air. It has very good water holding capacity.	1. Amend with organic material. 2. Grow a crop cover. 3. Avoid compaction. 4. Use adequate quantity of Farm Yard Manures.	Vegetables			
Sandy	Yellow	Sandy soil can hold lot of air but can not hold water & also have very less nutrients.		Maize, Millets, Barley, Jowar etc			
Loamy	Brown	It contains humus. It holds sufficient water & air.		Wheat, vegetables, sugarcane, Paddy, pulses etc			
Red Soil	Red	Red soil can hold lot of water but it cannot hold much air. Water drains very slowly in it.		Paddy Maize, wheat, vegetables etc			

DOMESTICATED BIODIVERSITY

Format 11: FRUIT TREES

1	2	3	4	6	7		8	9	10	11	12	13
Plant Type	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Source of plant/seeds	Season of Fruiting	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
					Past	Present						
Apple	<i>Malus domestica</i>	Saib	Red Delicious, Golden Delicious etc	Mid hills upto High hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Fresh fruit, Juice, Jam etc	Consumed in local Market Mandi/Jammu	Farmer/ Department of Horticulture
Pear	<i>Pyrus communis</i>	BaguGosha, Nakh, Nashpati	Red Bartlett, Punjab Beauty, PatharNakh, Star Krimson	Mid hills to High hills	-	-	Do	Rainy	-	Fresh Fruit		Farmer/ Department of Horticulture
Peach	<i>Prunus persica</i>	Aaroo	FLA 16/13 July Alberta, Quetta, Florida sum, FloridaPrenice	Lower hills upto High hills	-	-	Do	Summer	-	Fresh Fruit		Farmer/ Department of Horticulture
Apricot	<i>Prunus armeniaca</i>	Khobani, Sarri	Bebco, Harkat	Lower hills upto High hills	-	-	Do	Summer	-	Fresh Fruit		Farmer/ Department of Horticulture
Plum	<i>Prunus saliciana</i>	Aloo Bukhara	Santa Rosa, Kala Amritsari, Alubukhara, Aloocho	Mid hills to High hills			Govt. Nursery/ Private Registered Nry	Summer	-	Fresh fruit,		Farmer/ Department of Horticulture
Walnut	<i>Juglans regia</i>	Akhroot	Burzal, Kagzi, Local Selections	High hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Dry Fruit		Farmer/ Department of Horticulture
Pecannut	<i>Caryaillinoensis</i>	Pacannut	Stuart, Western Shelley, Descrable	Mid hills	-	-	Govt. Nursery	Rainy	-	Dry Fruit		Farmer/ Department of Horticulture
Quince	<i>Cydoniaoblonga</i>	Bahie	Iraniam, Kashmiri Mumm	High hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Dried fruits/ seeds		Farmer/ Department of Horticulture
Fig	<i>Ficus carica</i>		Local	Mid hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Fresh Fruit		Farmer/ Department of Horticulture

Format 12: Medicinal Plants (Herbs, Shrubs, Trees etc.)

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/Habitat	Source of plant/seeds	Local status		Uses (usage)	Part used	Associated TK	Other details market/own	Community/ Know.
						Past	Present					
Herb	Gadikan/Ban tambaku	<i>Verbascum Thapsus</i>	Local	1600-3000m/ Temperate	seeds	abundant	rare	Antirheumatic, Astringent, demulcent & Emollient, wound Healing	Leaves	Antirheumatic		Generally, held by community
Herb	Bhang	<i>Cannabis sativa</i>	Local	cosmopolitan/ Temperate	seeds	abundant	abundant	Hempseed oil, Hallocinogenic, sedative, Analgesic, Anti-inflammatory, piles	All parts of the plant	Psychoactive		Generally, held by community
Herb	Dand jari	<i>Rhodiola himalensis</i>	Local	3600-4500m/ Temperate	seeds	rare	Rare	Reduce fatigue, depression and anxiety, altitude sickness	all parts of the plant			Generally, held by community
Herb	Sapp Google	<i>Arisaema flavum</i>	Local	3500-4000m/ Temperate	Seeds	rare	rare	Expectorent, tetanus, epilepsy ets	whole plant			
Herb	Soi	<i>Urtica dioica</i>	Local	everywhere/ Temperate	Seeds	abundant	abundant	arthritis,, prostatic hyperplasia, to ntreat urinary problems	Leaves and stem	Arthritis		

Format 13: Ornamental Plants/ Trees/Climbers etc.

1	2	3	4	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial/ non-commercial	Uses	Associated TK	Other details	Community/ Know. holder
Shrub	Spirea	<i>Spiraea sorbifolia</i>	local		Non-Commercial		N.A	N.A	Generally, held by community
Shrub	Jasmine	<i>Jasminum humile</i>	local		Non-Commercial		N.A	N.A	Generally, held by community
Shrub	Gandera	<i>Nerium oleander</i>	local		Non-Commercial		N.A	N.A	Generally, held by community
Shrub	Anardana	<i>Punica granatum</i>	local		Non-Commercial		N.A	N.A	Generally, held by community
Tree	veer	<i>Salix alba</i>	local		Non-Commercial		N.A	N.A	Generally, held by community
Tree	Horse chestnut	<i>Aesculus indicus</i>	local		Non-Commercial				
Tree	Chinar	<i>Platanus orientalis</i>	local		Non-Commercial				
Tree		<i>Rosa webbiana</i>	local		Non-Commercial				
Tree	Elm	<i>Ulmas wallichiana</i>	local		Commercial				

Format 14: Timber Plants / Trees

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Akhroot	<i>Juglans regia</i>	Temperate	Abundant	Abundant	Wild/Home garden	Commercial	bark is used as toothache, fruits	Nil	Generally, held by community
Trees	Kikur	<i>Robina pseudoacacia</i>	Temperate	Abundant	Abundant	Wild	Commercial	Nil	Nil	Generally, held by community
Trees	Champ	<i>Alnus nitida</i>	Temperate	rare	Rare	Wild	Own	Nil	Nil	Generally, held by community

Format 15: Domesticated Animals

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/ hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Sheep	Bhead	<i>Ovis-aries</i>	Local	Small size , rough coat	Flock rearing	Plenty	Rare	Mutton, wool and manure	Yes	Yes	Mutton, wool, manure, bones, hides and gutt	Local and nomads
Sheep	Bhead	<i>Ovis-aries</i>	Rambouillet cross	Large size, fine wool	Flock rearing	Rare	Plenty	Mutton, wool and manure	Yes	Yes	Mutton, wool, manure, bones, hides and gutt	Local and nomads
Goat	Bakri	<i>Capra-hircus</i>	Local	Small size, low body weight	Flock Rearing	Plenty	Rare	Mutton, hair and manure	Yes	Yes	Mutton, hair, manure, bones, hides and gutt	Local and nomads
Goat	Bakri	<i>Capra-hircus</i>	Kaghani (Bakerwali)	Large size, high body weight	Flock rearing	Rare	Plenty	Mutton, hair and manure	Yes	Yes	Mutton, hair, manure, bones, hides and gutt	Local and nomads
Goat	Bakri	<i>Capra-hircus</i>	Beetal	Large size, high body weight	Flock rearing	Rare	Rare	Mutton, hair and manure	Yes	Yes	Mutton, hair, manure, bones, hides and gutt	Local and nomads
Cow	Gaay	<i>Bos spp.</i>	Hybrid/ Local	High Milk, Low milk	Domesticated	Available	Available	Milk				
Ox	Bael	<i>Bos spp.</i>	Hybrid/ Local	Ploughing	Domesticated	Available	Available	Milk				
Buffalo	Bhains	<i>Bubalus spp.</i>	Local	High Milk	Domesticated	Available	Available	Guarding				

Dog	Kutta	<i>Canis lupus familiaris</i>	Hybrid/ Local	Pet	Domesticated	Available	Available					
Cat	Billi	<i>Felis spp.</i>	Hybrid/ Local	Pet	Domesticated	Available	Available					
Poultry	Kukad	<i>Gallus gallus domesticus.</i>	Local	Enriched meat	Backyard	Rare	Rare	Egg/ Meat				
Horse	Ghoda	<i>Equus caballus</i>	Hybrid/ Local	Pet	Domesticated	Rare	Rare	Carriage				
Mule	Kachar	<i>Equus asinus</i> × <i>Equus caballus</i>	Hybrid/ Local	Pet	Domesticated	Rare	Rare	Carriage				
Donkey		<i>Equus asinus</i>	Hybrid/ Local	Pet	Domesticated	Rare	Rare	Carriage				
Uses include milk, meat, skin, fur and etc												

Format 16: Culture Fisheries

1	2	3	4	5	6	7		8	9	10	11	12	13
Fish Type	Local Name	Scientific Name	Variety	Culture/ Capture	Features	Waterscape (pond/bheri /talao)	Local status	Commercial rearing	Uses	Associated TK	Commercial rearing	Other details	Community Know. Holders
Rainbow Trout	Trout	<i>Oncorhynchus mykiss/ Salmo gairdneri</i>	Exotic	Culture	Rainbow Trout have an elongated, laterally compressed body with rounded snout. Which becomes extend and the lower jaw turns up in breeding males as is common with other salmon ides Adult fish with reddish stripe along the lateral line	Snow fed rivers & steams & raceways	Due to continuous stocking programmes by the Deptt. of Fisheries and extension activities in the Pvt. Sector. The fish is now available both naturally & is also cultured locally	Yes				Breeding period Dec to Feb, Feeds on natural and artificial foods. Mode of catching – Cast Net and Drag Net	Deptt. & Local farmers

Note: Other details include mode of catching fish, time of availability, breeding time, feeds and etc

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers etc.

1	2	3	4	5	6		7	8	9	10	11
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial / own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Tree	Walnut	<i>Juglans regia</i>	Tree	Lesser Himalayas	Abundent	Abundent	Commercial	fruit,bark, stem		Nil	Generally held by the community
Herbs	Wild Strawberry	<i>Fragaria vesica</i>	Herb	Lesser Himalayas	rare	rare	Own Use	fruit		Nil	Generally held by the community
Bush		<i>Sambucus ebulus</i>	Shrub	Lesser Himalayas	rare	Rare	Own Use			Nil	Generally held by the community
Shrub	Solai	<i>Plectranthus rogosus</i>		Lesser Himalayas	Abundant	Abundant	Own Use			Nil	Generally held by the community
Shrub		<i>Daphne cannabina</i>		Lesser Himalayas	Abundant	abundant	Own Use			Nil	Generally held by the community
Shrub		<i>Rubus ellipticus</i>		Lesser Himalayas	Abundant	Abundant	Own Use	fruit		Nil	Generally held by the community
Climber		<i>clermatis spp</i>	Climber	Lesser Himalayas	rare	rare	Own Use			Nil	Generally held by the community
Climber		<i>Jasminum humile</i>	Climber	Lesser Himalayas	rare	rare	Own Use		ornamental	Nil	Generally held by the community
Climber		<i>Vitis spp</i>	Climber	Lesser Himalayas	Abundant	rare	Own Use	fruit		Nil	Generally held by the community

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
S. No.	Local Name	Scientific Name	Variety	Importance (as economic, social, cultural etc.)	Status
1	Gadikan/Ban tambaku	<i>Verbascum Thapsus</i>	Local	Antirheumatic, Astringent, demulcent & Emollient, wound Healing	Rare
2	Bhang	<i>Cannabis sativa</i>	Local	Hempseed oil, Hallucinogenic, sedative, Analgesic, Anti-inflammatory, piles	Abundant
3	Sapp Google	<i>Arisaema flavum</i>	Local	Expectorent, tetanus, epilepsy ets	Endangered
4	Fakil	<i>Ferula communis</i>	Local	antidiabetic, antiproliferative, Antimicrobial.	Abundant

Format 20: Aquatic Biodiversity

1	2	3	4	5	6		7	8	9	10
Local Name	Scientific Name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community/ Knowledge Holder
					Past	Present				
	<i>Lemna</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Wolffia</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Azolla</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Ranunculus aquaticus</i>	local		Streams,springs & ponds	Abundant	rare	N.A	N.A	N.A	Unknown
	<i>Arum arrow</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Hydrilla</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Nag babbaer	<i>Nasturtium</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Shaell	<i>Spirogyra</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Chara</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Zygnema</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
	<i>Nostoc</i>	local		Streams,springs & ponds	Abundant	Abundant	fertilizer	Fertilizer	N.A	Unknown
	<i>Chlamydomonas</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Himalayan toad	<i>Duttaphrynus himalayanus</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown

Common skittering frog	<i>Euphlyctiscyanophlyctis</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Indian Bull frog	<i>Hoplobatrachustigerinus</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Himalayan Paa frog	<i>Nanoranavicina</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Small Paa frog	<i>Nanoranaminica</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Common Frog	<i>Rana tigrana</i>	local		Streams,springs & ponds	Abundant	Abundant	N.A	N.A	N.A	Unknown
Desi Alma	<i>Schizothorax sps</i>	local		Streams,springs & ponds	Abundant	Abundant	Food	N.A	N.A	Unknown
Rainbow Trout	<i>Oncorhynchus mykiss/ Salmo gairdneri</i>	local		Streams,springs & ponds	Abundant	Abundant	Food	N.A	N.A	Unknown
Trout	<i>Oncorhynchus mykiss</i>	local		Streams,springs & ponds	Abundant	Abundant	Food	N.A	N.A	Unknown
Common Carp	<i>Cyprinus carpio</i>	local		Streams,springs & ponds	Abundant	Abundant	Food	N.A	N.A	Unknown

Other details may include mode of catching fish, time of availability, breeding time, etc

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance	Trends
1	Duckweed	<i>Lemna minor</i>	local	blocked nose & inflammation	
2		<i>Azolla</i>	local	Fodder for ducks ,chicken	
3	Water thyme	<i>Hydrilla</i>	local		
4	Nag babbaer	<i>Nasturtium</i>	local		

Format 22: Wild Plants of Medicinal Importance

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Landscape / Habitat	Local Status		Associated TK	Uses (usage)	Part used	Other details market/ own use	Community/ Knowledge Holder
					Past	Present					
Herb	Gadikan/Ban tambaku	<i>Verbascum Thapsus</i>	Local	1600-3000m/Temperate	abundant	rare	rare	Antirheumatic, Astringent, demulcent & Emollient, wound Healing	Leaves	Antirheumatic	
Herb	Bhang	<i>Cannabis sativa</i>	Local	cosmopolitan/Temperate	abundant	abundant	abundant	Hempseed oil, Hallucinogenic, sedative, Analgesic, Anti-inflammatory, piles	All parts of the plant	Psychoactive	
Herb	Sapp Google	<i>Arisaema flavum</i>	Local	3500-4000m/Temperate	rare	rare	rare	Expectorent, tetanus, epilepsy etc	whole plant		
Herb	Suchal	<i>Malva neglecta</i>	Local	1500-4000/Temperate	abundant	abundant	abundant	antiphlogistic, astringent, laxative, leaves and floerss can be eaten as a diet	Al parts of the plant	digestive disorders and laxative	
Herb	Soi	<i>Urtica dioica</i>	Local	everywhere/Temperate	abundant	abundant	abundant	arthritis,, prostatic hyperplasia, to ntreat urinary problems	Leaves and stem	Arthritis	
Herb	Crown lily	<i>Fritillaria imperialis</i>	Local	2000-3000m/Temperate	rare	rare	rare	Expectorent, increases brest milk	Bulb		
Herb	Datur	<i>Datura strimonium</i>	Local	1400-2500m/Temperate	Abundant	abundant	abundant	Antispasmodic, antihelmenthic, aanti-inflammatory	seeds m Root and fruit	Antispasmodic	
herb	Wan jawain	<i>Thymus linearis</i>	Local	2000-4000m/Temperate	abundant	abundant	abundant	Antispasmodic, gastrointestinal problems, respiratory disorders and many more	Seeds		
Herb	Kasrod	<i>Diplazium esculentum</i>	Local	1700-3500m/Temperate	abundant	abundant	abundant	Laxative, treatment of Cough etc	FronDs, Rhizomes	eating	

Format 23: Wild relatives of Crops

1	2	3	4	5	6	7	8	9	10
Local Name	Scientific Name	Associated crop	Landscape / Habitat	Local Status	Uses (usage)	Part Used	Associated TK	Other details	Community / Know holder
Wild Strawberry	<i>Fragaria nubicola</i>	<i>Fragaria ananassa</i>	Scattered in forest	Rare	Fruit	Fruit	Fruit		Generally, held by community
Jungli putna	<i>Mentha arvensis</i>	<i>Mentha longifolia</i>	Along the Nalla's	Abundant	Medicinal use	Leaf	chutney		Generally, held by community
wan-pran	<i>Allium humile</i>	<i>Allium sativum</i>	Scattered in forest	Rare	Vegetable	leaves	vegetable		Generally, held by community
Foxtail millet	<i>Setaria viridis</i>	<i>Setaria italica</i>	Scattered in forest	Abundant	Fodder	Leaf	Fodder		Generally, held by community
False barley	<i>Hordeum murinum</i>	<i>Hordeum vulgare</i>	Scattered in forest	Abundant	Fodder	Leaf	Fodder		Generally, held by community
Wheat grass	<i>Agropyron sps</i>	<i>Triticum sps</i>	Scattered in forest	Abundant	Fodder	Leaf	Fodder		Generally, held by community
Wild Soyabean	<i>Glycine soja</i>	<i>Glycine max</i>	Scattered in forest	Abundant	pod	Leaf	pod		Generally, held by community
Sochal	<i>Malva sylvestris</i>	<i>Malva sylvestris L.sterile</i>	Scattered in forest	Abundant	vegetable	Leaf	vegetable		Generally, held by community
Jungli Akhroot	<i>Juglans regia</i>	<i>Juglans regia var. orientis</i>	Scattered in forest	Abundant	Fruit	Fruit	Fruit		Generally, held by community

Format 25: Fumigate / Chewing Plants

1	2	3	4	5	6		7	8	9	10	11
S.No.	Local Name	Scientific Name	Variety	Habitat	Local Status		Uses (usage)	Part used	Associated TK	Other details (mode of use)	Community knowledge holder
					Past	Present					
1	Veer	<i>Salix alba</i>	Local	Locally present	Abundant	abundant	use for teeth Cleaning/ Medicinal Purpose	Twigs	-	-	Generally, held by community
2	Akhroot	<i>Juglanis regia</i>	Local	Locally present	Abundant	Abundant	use for teeth Cleaning/ Medicinal Purpose	Twigs and bark	-	-	Generally, held by community
4	Banj	<i>Quercus incana</i>	Local	Locally present	Rare	Rare	use for teeth Cleaning	Twigs			Generally, held by community

Format 26: Timber Plants

1	2	3	4		5	6	7	8
Local Name	Scientific Name	Habitat	Local Status		Other Uses, if any	Associated TK	Other Details	Community/ Knowledge Holder
			Past	Present				
Akhroot	<i>Juglans regia</i>	Temperate	Abundant	Abundant	Fruit edible	Bark and twigs used for teeth cleaning		Generally, held by community
Tul	<i>Morus nigra</i>	Temperate	Abundant	Abundant	Fruit edible	Unknown		Generally, held by community
Kikur	<i>Robina pseudoacacia</i>	Temperate	Abundant	Abundant	Fodder/firewood	Unknown		Generally, held by community
Champ	<i>Alnus nitida</i>	Temperate	rare	Rare		Unknown		Generally, held by community
Banj	<i>Quercus incana</i>	Temperate	Rare	Rare	Fodder, firewood	Unknown		Generally, held by community
veer	<i>Salix alba</i>	Temperate	Abundant	Abundant	Fodder	Unknown		Generally, held by community

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local Status		Uses (if any)	Associated TK	Mode of Hunting, collecting (if any)	Other details	Community/ Knowledge Holder
						Past	Present					
Mammals	Common Langur	<i>Semnopithecus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Himalayan Black Bear	<i>Ursus thibetanus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Himalayan Mouse Hare	<i>Ochotona roylei</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Jackal	<i>Canis aureus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Jungle Cat	<i>Felis chaus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Leopard	<i>Panthera pardus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Long Tailed Marmot	<i>Mamot caudate</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	The Indian Fox	<i>Vulpes bengalensis</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Five Stripped Palm Squirrel	<i>Funambulus Penanti</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	The Indian Field Mouse	<i>Mus booduga</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	The Indian Procupine	<i>Hystrix indica</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Alpine accentor	<i>Prunella collaris</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Bearded vulture or Lammergeier	<i>Gypaetus barbatus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Black-eared Kite	<i>Milvus migrans</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community

Birds	Black-naped green wood-pecker	<i>Picus canus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Blue rock pigeon	<i>Columba livia</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Blue whistling thrush	<i>Myophonus caeruleus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Brown dipper	<i>Cinclus pallasii</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Chukar partridge	<i>Alecturus chukar</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Common myna	<i>Acridotheres tristis</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Eagle owl	<i>Bubo bubo</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Griffon vulture	<i>Gyps fulvus</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community

Format 29:Flora

1	2	3	4	5	6	7
S. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)
Bordhar-A panchayat doesn't fall in Urban area.						

Format 30: Fauna

1	2	3	4	5	6	7
Animal Type	Local Name	Scientific Name	Type of Animals (Mammal/Bird/Fish/Insect etc.)	Habitat	Flowering Season	Remarks (Rare / Common etc.)
Bordhar-A panchayat doesn't fall in Urban area.						

Note: Separate format should be used for road side plantation / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat

Format 31: Any other information of local importance

1	2	3
Sr. No.	Information of local importance	Remarks

End of Part II