

## **Peoples' Biodiversity Register (PBR): General Details**

**Name of the Panchayat Samity:** Neera

**Taluk:** Ramban

**District:** Ramban

**State:** Ramban

**Geographical Area of the Panchayat Samity:** 423.17 Htc.

**Population under the Panchayat Samity: Total** 1343

**Male** 692      **Female** 651

**Habitat and Topography:** Hilly

**Climate (Rainfall, Temperature and other weather patterns)**

**Land use ( Nine fold classification available with village records)**

**Date, Month and Year of PBR preparation** 26/11/2019

**Management Regime: Reserve Forests (RF)/ Joint Forest Management (JEM)/ Protected Areas**

**(PA)/ Community Owned and Managed Forests (COM)**

**Annexure 1****Detail of biodiversity management committee (BMC) of the Panchayat - Balihote-A**

S.NO	Name of the Chairperson/Member	Designation	Age	Gender	Address	Area of Specilization
1	Jai Chand S/o. Sh. Mehant Singh	Chairperson	78	Male	Neera	
2	Kanta Devi W/o. Sh. Mani Ram	Women Member	30	Female	Neera	
3	Anshu Devi W/o. Sh. Late Hari Bhagat	Women Member	70	Female	Neera	
4	Kesari Singh S/o. Sh. Kanshi Ram	SC/ST Member	73	Male	Neera	
5	Salma W/o. sh. Liyaqat	Member	30	Male	Neera	
6	RaghubeerSingh S/o. Sh. Bamooj Singh	Member	40	Male	Neera	
7	Abdul Qayoom S/o. Sh. Mohd Akbar	Secretary	35	Male	Neera	

<b>Annexure-2</b>
<b>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</b>
<b>1) Name :</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>Location from which the person accesses biological material:</b>
<b>Medicinal Use:</b>
<b>2) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>Location from which the person accesses biological material:</b>
<b>Perception of the practitioner on the resource status:</b>
<b>Medicinal Use:</b>
<b>3) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>Location from which the person accesses biological material:</b>
<b>Perception of the practitioner on the resource status:</b>
<b>Medicinal Use:</b>

**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:**

**Age:**

**Gender:**

**Address:**

**Area of specialization:**

**2) Name of the Chairperson:**

**Age:**

**Gender:**

**Address:**

**Area of specialization:**

**3) Name of the Chairperson:**

**Age:**

**Gender:**

**Address:**

**Area of specialization:**

**4) Name of the Chairperson:**

**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:**

**Name and Address:**

**2) Contact Person:**

**Name and Address:**

**3) Contact Person:**

**Name and Address:**

**Name and Address:**

**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**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>S.no</b>	<b>Name and address of the Person/Institute/company others</b>	<b>Local and Scientific Name of the biological material Accessed and quantity</b>	<b>Date and resolution of the BMC and endorsement by the Panchayat</b>	<b>Detail of collection fee imposed</b>	<b>Anticipated mode of sharing benefits or quantum of benefits shared</b>
<b>nil</b>					

*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							
Pulses Moong and Mash	<i>Vigna radiata/Phaseolus vulgaris</i>	Moong/ Mash	Local/Shikha and Pant u-19, Shekher-3	Hilly and Temperate Areas	10 Ha.	Plenty	Plenty	Sown as inter crop or mixed crop with maize	Kharif	Green beans used as vegetables and Grains are used as pulses	Food		Local seed/ Department Seed	Progressive farmers/ community leaders
Maize	<i>Zea mays</i>	Makki/ Makka	DMH 849, Dekalb Double, B-52, Rasi- 4794 and KH-517	Sub-tropical, Semi-tropical & Temperate	216 Ha.	Plenty	Plenty	Corn and flour sweet in taste High yield yellow and white varieties	Kharif	Food, Fodder and straw used as dry fodder	Provide more energy and staple food		Departmental seed	Progressive farmers/ community leaders
Mustared	<i>Brassica juncea</i>	sarson	Local and KOS-1	Hilly and Temperate Areas	70 Ha.	Plenty	Plenty		Rabi	For Oil Purpose			Local seed/ Department Seed	Local seed/ Department Seed
Wheat	<i>Triticum aestivum</i>	Kanak	HD 2967, WH 1080, HD -3086 PBW -644	Sub-tropical, Semi-tropical & Temperate	80 Ha.	Plenty	Plenty	Hyv, Resistant to pests susceptible to rusts	Rabi	Food, Straw used as dry fodder pre-mature crop used as fodder	Staple food and provides more energy		Local Seed Deptt. Seed	
Pea	<i>Pisium sativum</i>	Matar		Sub- Tropical		Plenty	Plenty			Food				

### 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, Florda sum, Florda 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, Aloochoa	Mid hills to High hills			Govt. Nursery/ Private Registered Nry	Summer		<i>Fresh fruit,</i>		Farmer/ Department of Horticulture
Walnut	<i>Juglans regia</i>	Akhroot	Burzal, Kagzi, Local Selections	High hills			Govt. Nursery/ Private Registered Nry	Rainy		<i>Dry Fruit</i>		Farmer/ Department of Horticulture
Pomegranate	<i>Punica aratanum</i>	Anardana, Daroo	Anardana, Kandhari, Ganesh	Lower hills upto Mid hills			Govt. Nursery/ Private Registered Nry	Rainy		Fresh 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	7	8	9	10
Plant/Crop	Scientific Name	Local Name	Landscape / Habitat	Local Status		Source of Plants / Seeds	Associated TK	Part Used	Other details	Community / Knowledge holder
				Past	Present					
Oats	<i>Avena saiva</i>	Javi	Hilly	Rase	Plenty	Deppt.	Nutritive	Nutritive	Shoot for fodder	Farming Community
Bajra	<i>Penisetium glucon</i>	Bajra	Hilly Inermedate	Plenty	Plenty	Deppt.	Nutritive	Nutritive	Shoot for fodder	Farming Community
Chari	<i>Euchlena Maxicana</i>	Chari	Hilly	Plenty	Plenty	Deppt.	Nutritive	Nutritive	Shoot for fodder	Farming Community
Maiz Com	<i>Zea Mays</i>	Makki	Hilly	Rase	Plenty	Deppt.	Nutritive	Nutritive	Shoot for fodder	Farming Community
Kanak	<i>Triticum</i>	Kanak					Nutritive	Nutritive		

Other details include fodder for which animal, special features, medicinal uses if any, seasons of availability, propagation methods, collecting from wild or cultivated etc.

**Format 4: Weeds**

1	2	3	4	5	6	7		8	9	10	11	12
Plant	Scientific Name	Local Name	Affected crop	Impact	Landscape / Habitat	Local Status		Uses if any	Management options	Associated TK	Other details like exotic	Community / Knowledge holder
						Past	Present					
Cheelai	<i>Amaranthous spinosus</i>	Chalera	All Kharif Crops	Nutrients	Hilly	Plenty	Plenty	Leafy vefitables	Mechanical, Chemical	Used as fodder	Fast growing	Farmering Community
Bindweed	<i>Convolvulus arvensis</i>	-	Maize	Light, water	Hilly	Plenty	Plenty	-	Mechanical, Chemical	Used as fodder	Fast growing	Farmering Community
Congress grass	<i>Parthenium spp.</i>	-	All Kharif Crops	Shadding Effect	Hilly	Plenty	Plenty	Early maturity	Mechanical, Chemical	Problmetic	Spread fast	Farmering Community
Carb grass	<i>Digitaria Spp.</i>	-	All Kharif Crops	Nutrients, Water	Hilly	Plenty	Plenty	Fodder	Mechanical, Chemical	Problmetic	Fast growing	Farmering Community
Pig weed	<i>Amaranthous spinosus</i>	-	All Kharif Crops	Light, Water, Nutrients	Hilly	Plenty	Plenty	-	Mechanical, Chemical	Nutritive	Problmetic	Farmering Community
Lambsquarters	<i>Chenopodium album</i>	Bathua	All Kharif Crops	Light Water, Nutriensts	Hilly	Plenty	Plenty	Leafy vefitables	Mechanical, Chemical	-	Fast growing	Farmering Community
Bhang	<i>Cannabis sativa</i>	Bhang	Fodder Crops	Light Water, Nutriensts	Hilly	Plenty	Plenty	-	Mechanical	-	Fast growing	Farmering Community

Other details may include how long the weeds have been suppressing/adversely affecting the crops in this locality, when it came under notice, intensity of natural multiplication etc

### 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
Maize	Stem Borer	<i>Sesamia</i>	-	Hilly	Rainy	Chemical	Destructive	Rainy	Farming Community
Maize	White Grub	<i>Phyllophaga spp.</i>	-	Hilly	Sowing time	Deep ploughing	Destructive		Farming Community
Maize	Cut worm	<i>Agrotis Spp.</i>	-	Hilly	Seeding	Chemical	Attack during night	Weeken the plant	Farming Community
Maize	Grass hopper	<i>Malanoplus spp.</i>	-	Hilly	Stage of maturity	Deep ploughing	Eat all plant	Found every where	Farming Community
Tomato	Cut worm	<i>Agrotis Spp.</i>	-	Hilly	Seeding stage	Mechanical, Chemical	Destroy seeding	Damage by Catapiller	Farming Community
Brinjal	Cut worm	<i>Agrotis Spp.</i>	-	Hilly	Seeding	Mechanical, Chemical	Destroy seeding	Damage by Catapiller	Farming Community
Tomato	Fruit Borer	<i>Helicovespa annigera</i>	-	Hilly	Fruiting stage	Deep ploughing	Desrtactive	Pupa is under ground	Farming Community

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

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

1			2	3	4	5	6	7	8	9	10	11	12
Major Landscapes			Sub - Landscapes	Feature s and approx. area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Agricultur al land	Pon d	Fallow land											
Forest Land			Forest Land	50%	Govt/Private	Wild plantation	Insect and Amphibian	Unknown	Unknown				
Cultivated land			Cultivated land	35%	Agriculturely Land is privately owned.	Plant. Some wild plant	Insect	Nil	Unknown				Low income communitis
Non-Cultivated Land			Non-Cultivated Land	15%	Govt/Private	Plant. Some wild plant	Insect	Available for farming cattle rearing. Rat catching	Unknown				Low income communitis
Grazing land			Grazing land	30%	Private	Plant. Some wild plant	Insect	Unknown	Unknown				Low income communitis
Non-Irregated Land			Non-Irregated Land	0%	Government	Wild Plant	Insect and Amphibian	Unknown	Unknown				Low income communitis
Fallow land			Fallow land	35%	Private/	Plant. Some wild plant	Insect	Unknown	Unknown				Low income communitis

Provide a brief description of landscapes such as forests, plantations, cultivated land, estuary, pond, lake or other elements

**Format 9: Waterscape**

1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Waterscape element type</b>	<b>Sub- type</b>	<b>Features and approx area</b>	<b>Ownership</b>	<b>General flora</b>	<b>General fauna</b>	<b>Major uses</b>	<b>User groups</b>	<b>Management practices</b>	<b>General uses</b>	<b>Associated TK</b>	<b>Other details</b>	<b>Community accessed</b>
River	Chenab		Govt under Land and revenue Dept. and Panchayat	Mostly Bryophytes 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

Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,

**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			



**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, Aloochoa	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>Carya illinoensis</i>	Pacannut	Stuart, Western Shelley, Describable	Mid hills	-	-	Govt. Nursery	Rainy	-	Dry Fruit		Farmer/ Department of Horticulture
Quince	<i>Cydonia oblonga</i>	Bahie	Iraniam, Kashmiri Mumm	High hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Dried fruits/ seeds		Farmer/ Department of Horticulture
Olive	<i>Olea europea</i>	Zaitoon	Carolea, CoratinaFrontoio,	Mid hills	-	-	Govt. ACHD Ramban	Rainy	-	Oil		Farmer/ Department of Horticulture
Lime	<i>Citrus aurantifolia</i>	Nimboo	Kagzi, Eureka lime, Baramasi	Lower hills upto Mid hills	-	-	Govt. Nursery/ Private Registered Nry	Around the year	-	Fresh Fruit	-	Farmer/ Department of Horticulture
Pomegranate	<i>Punica granatum</i>	Anardana, Daroo	Anardana, Kandhari, Ganesh	Lower hills upto Mid hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Anardana		Farmer/ Department of Horticulture
Kiwi	<i>Actinidia deliciosa</i>	Kiwi	Allison, Abbot, Tomuri, Hayward	Mid hills upto High hills	-	-	ACHD Ramban	Rainy	-	Fresh Fruit		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 use	Community/ Know. Holders
						Past	Present					
Herb	Gadikan/Ban tambaku	<i>Verbascum Thapsus</i>	Local	1600-3000m/ Temperate	seeds	abundant	rare	Antirheumatic, Astringent,demulc ent & Emollient, wound Healing	Leaves	Antirheumatic		Generally, held by community
Herb	Wan wangoun/Bankak di/Himalayan May Apple	<i>Podophyllum hexandrum</i>	Local	Alt.2000-4000m/ Temperate	seeds and roots stocks	Rare	Critically endangered	Cancer, Gonorhea' Tyohoid fever, vermifuge	Rhizomes and Roots			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	Sapp Google	<i>Arisaema flavum</i>	Local	3500-4000m/ Temperate	Seeds	rare	rare	Expectorent,tetanu s,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 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	Oncorhynchus mykiss/ Salmo gairdneri	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 & streams & 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





**WILD BIODIVERSITY**  
**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	Chir	<i>Pinus roxburghii</i>		Sub-tropical	Abundant	Abundant	Timber, Resin, rosin, turpentine oil	Stem and needles			Generally held by community
Tree	Shisham	<i>Dalbergia sissoo</i>		Temprate	Abundant	Abundant	Timber	Stem			Generally held by community
Tree	Akhrot	<i>Juglans regia</i>		Sub-tropical	Abundant	Rare	Timber, Drybe fruit, Medicinal	Stem, leave, nuts			Generally held by community
Tree	Kau	<i>Olea cuspidata</i>		Sub-tropical	Abundant	Abundant	Diuretic, h/potensive etc.	Seed			Generally held by community
Tree	Banj	<i>Quercus incana</i>		Sub-tropical	Abundant	Abundant	Fodder, Fuelwood	Stem, leaves			Generally held by community
Tree	kainth	<i>Pyrus pashia</i>		Sub-tropical	Abundant	Abundant	Medicinal	Fruit, leaves, Bark			Generally held by community
Tree	Draink	<i>Melia azedarach</i>		Sub-tropical	Abundant	Abundant	Medicinal	Stem/leaves			Generally held by community
Tree	Apricot	<i>Prunus</i>		Sub-tropical	Abundant	Abundant	Medicinal	Seed			Generally held by community
Shrubs	Ban Kakri	<i>Podophyllum Hexandrum</i>		Temprate	Abundant	Rare	Medicinal	Root			Generally held by community
Shrubs	Timbru	<i>Zanthoxylum</i>		Sub-tropical	Abundant	Rare	Medicinal	Stem, leaves, seed			Generally held by community
Shrubs	Rasont	<i>Berberis</i>		Sub-tropical	Abundant	Abundant	Medicinal	Leaves, roots			Generally held by community
Herbs	Pudina	<i>Mentha longifolia</i>		Sub-tropical	Abundant	Rare	Medicinal	Root			Generally held by community
Herbs	Kandeli	<i>Meconopsis aculeata</i>		Temprate	Rare	Rare	Medicinal	Leaves, Flower, stem and bark			Generally held by community
Herbs	Bunafsha	<i>Viola Canescene</i>		Temprate	Abundant	Rare	Medicinal	Stem, Bark			Generally held by community
Herbs	Methi	<i>Trigonella foenumgraecum</i>		Sub-tropical	Abundant	Abundant	Medicinal	Stem, Bark			Generally held by community
Herbs	Dhunal	<i>Taraxacum Officinale</i>		Sub-tropical	Rare	Rare					Generally held by community

**Format 19: Wild Plant Species of Importance**

**Format 19: Wild Plant Species of Importance of Panchayat Pernote A of Gandhri Range**

1	2	3	4	5	6
S. No.	Local Name	Scientific Name	Variety	Importance (as economic, social cultural etc.)	Status
1	Chir	<i>Pinus roxburghii</i>		Resin/Timber	Abundant
2	Shisham	<i>Dalbergia sissoo</i>		Timber	Abundant
3	Akhrot	<i>Juglans regia</i>		Fruit/Timber	Rare
4	Kau	<i>Olea Cuspidata</i>		Timber	Abundant
5	Banj	<i>Quercus incana</i>		Fooder	Abundant
6	Kikar	<i>Acacia Nilotica</i>		Fooder	Abundant
7	Champ	<i>Alnus nepalensis</i>		Fooder	Abundant
8	Bunafsha	<i>Viola odorata</i>		Medicinal	Abundant
9	Kainth	<i>Pyrus pashia</i>		Fooder, Firewood, medicinal	Abundant
10	Rasont	<i>Berberis lycium</i>		Medicinal	Abundant
11	Toon	<i>Toona ciliata</i>		Fuelwood	Abundant
12	Timbru	<i>Zanthoxylum alata</i>		Medicinal	Abundant
13	Dhaman	<i>Grewia optiva</i>		Fodder	Abundant
14	Phokda	<i>Ficus palmata</i>		Medicinal	Abundant
15	Santha	<i>Dodonea viscosa</i>		Fodder, firewood	Abundant
16	Khirak	<i>Celtis austrelis</i>		Timber, Fodder	Abundant
17	Beri	<i>Zlyphus spp.</i>		Edible, medicinal	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				
Common Carp	<i>Glypthorax Spp.</i>	Indigenous	Body elongated, Head short, wide % big anteriority flattened body latterly compressed	Colder pockets, snow fed areas	Found in torrential water at higher reaches		Commercially important Fish Food and sports	-	Mode of catching: Cat net availibility round the year	Mahigirs & Local People
Common Carp	<i>Cyprinus Carpio</i>	Introduced	Deep laterly Compressed body which is dark brown or grey dorsall lighter on sides and whitish underside	Ponds and lakes	Found in lakes and pounds		Commercially important Fish Food	-	Mode of catching: Cat net availibility round the year	Mahigirs & Local People

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	Cuttail	<i>Typha angusta</i>	-	Edible to humans	-
2	Phragmites	<i>Phragmites</i>	-	used for soil stabillization	-
3	Nucifera	<i>Nilumbu</i>	-	Medicinal use	-
4	Paltata	<i>Nymphoides indica</i>	-	Used in Unani medicines	-

**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					
Trees	Kainth	<i>Pyrus pashia</i>		Sub- Tropical	Abundant	Abundant		Medicinal	Fruit, Bark and leaves		Generally held by community
Trees	Draink	<i>Melia azedarch</i>		Sub- Tropical	Abundant	Abundant		Medicinal	Stem/Leaves		Generally held by community
Trees	Kau	<i>Olea cuspidata</i>		Sub- Tropical	Abundant	Abundant		Medicinal	Seed		Generally held by community
Trees	Apricot	<i>Prunus</i>		Temprate	Abundant	Abundant		Fodder	Seed		Generally held by community
Shrubs	Trimal	<i>Ficus roxburghii</i>		Sub- Tropical	Abundant	Rare		Medicinal	Fruit and Leaves		Generally held by community
Shrubs	Timbru	<i>Zanthoxylum</i>		Sub- Tropical	Rare	Rare		Medicinal	Stem, Seed, Bark		Generally held by community
Shrubs	Rasont	<i>Berberis</i>		Sub- Tropical	Abundant	Abundant		Medicinal			Generally held by community
Herbs	Pudina	<i>Mentha longifolia</i>		Sub- Tropical	Abundant	Abundant		Medicinal	Leaves, Stem		Generally held by community
Herbs	Kandeli	<i>Meconopsis aculeata</i>		Sub- Tropical	Rare	Rare		Medicinal	Root		Generally held by community
Herbs	Banafsha	<i>Viola</i>		Temprate	Abundant	Abundant		Medicinal	Leaves		Generally held by community
Herbs	Saunf	<i>Foeniculum Vulgare</i>		Sub- Tropical	Abundant	Rare		Medicinal	Seed		Generally held by community

Note: Uses: Food/Veterinary Medicine/Human Medicine (Sub-divisions like for children, women etc)/Agricultural Purpose (Bio-pesticide)  
 Other details: Harvesting period /Perennial/annual/seasonal

**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
				Past	Present					
Dhusay	<i>Fiscus caria</i>	Fig	Hilly and Temperate areas of District	Available	Available	As fruit	Pulp of Fruit	Rich in Natural Sugar, Minerals including Ca, Mg, Fe, Cu	Good source of antibodies, Vitamin A, soluble fiber	Farming community of the District
Sehtoot	<i>Morus alba</i>	Mulberry	Hilly and Temperate areas of District	Available	Available	As fruit	Pulp of Fruit	Rich in protein Sugar, Vitamin C & E, K & Mineral including Ca, Mg, Fe, Cu	Good source of fiber	Farming community of the District
Kambery	<i>Cyanococcus sp.</i>	Blue Berry	Hilly and Temperate areas of District	Available	Available	As fruit	Pulp of Fruit	Rich in Vitamin C & K Minerals including Magnese	King of oxidants	Farming community of the District
Amlook	<i>Date Plum</i>	Date plum	Hilly and Temperate areas of District	Available	Available	As fruit	Pulp of Fruit	Rich in Vitamin A, C, E 7 K	Good source of fiber	Farming community of the District
Daru	<i>Punica granatum</i>		Sub-tropical	Abundant	Abundant	Edible, Medicinal	Seed			Generally held by Community
Akhrot	<i>Juglas regia</i>		Temprate/Sub-tropical	Abundant	Abundant	Edible, Medicinal	Nut			Generally held by Community
Saunf	<i>Foeniculum vulgare</i>		Sub-tropical	Abundant	Rare	Edible, Medicinal	Fruit, Seed			Generally held by Community
Wild apricot	<i>Prunus armeniaca</i>		Temprate/Sub-tropical	Abundant	Abundant	Edible, Medicinal	Fruit, Seed			Generally held by Community
Methi	<i>Trigonella foeniculum</i>		Sub-tropical	Abundant	Rare	Edible, Medicinal	Seed			Generally held by Community
Ber	<i>Ziziphus</i>		Sub-tropical	Abundant	Abundant	Edible, Medicinal	Fruit			Generally held by Community

Note: Other details may include 'function as a substitute plant' in the absence of a particular plant

**Format 24: Ornamental Plants**

1	2	3	4	5	6	7	8
Local Name	Scientific Name	Variety	Habitat	Commercial / Non-commercial Uses	Associated TK	Any other Detail	Community/ Knowledge Holder
Curpress	<i>Curpressus</i>		Temprate	Medicinal			Generally held by community
Weeping Willow	<i>Salix Babylonica</i>		Sub Tropical, Temprate	Medicinal, Economic			Generally held by community
Karir	<i>Rosa moschata</i>		Sub Tropical, Temprate	Medicinal			Generally held by community
Lal Kaner	<i>Nerium indicum</i>		Sub Tropcial	Medicinal			Generally held by community

**Format 25: Fumigate / Chewing Plants**

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Habitat	Local Status		Uses (usage)	Part used	Associated TK	Other details (mode of use)	Community knowledge holder
					Past	Present					
Tree	Khood	<i>Jugans regia</i>	Local	Temprate			As dry fruit 7 too overcome teeth ailments	Lead and bark	Overcomes mouth smell and teeth problems	-	Framing community of the District
Herb	Mulathi	<i>Glycyrrhiza glabra</i>	Local	All			Bark and stem used to overcome throat and lung	Stem and bark	Overcome throat and lung infection	-	Framing community of the District
Shrub	Timber	<i>Quercus sp.</i>	Local	All			overcome mouth smell	Stem and bark	Overcome mouth and teeth problems	Medicinal Value	Framing community of the District
	Timbru	<i>Zanthoxylum</i>		Temprate/ Sub-tropical			Chewing	Stem, Seed, Bark			Generally Held by Community
	Kembal	<i>Berberis</i>		Temprate/ Sub-tropical			Chewing	Flower, Seed			Generally Held by Community
	Banna	<i>Vitex Nigundo</i>		Temprate/ Sub-tropical			Chewing	Leaves,Bark			Generally Held by Community
	Pudina	<i>Mentha arvensisi</i>		Temprate/ Sub-tropical			Chewing	Leaves,Bark			Generally Held by Community
	Salix	<i>Salix Babylonica</i>		Temprate/ Sub-tropical			Chewing	Bark, Stem, Leaves			Generally Held by Community



**Format 26: Timber Plants**

1	2	3	4		5	6	7	8
Local Name	<i>Scientific Name</i>	Habitat	Local Status		Other Uses, if any	Associated TK	Other Details	Community/ Knowledge Holder
			Past	Present				
Chir	<i>Pinus roxburghii</i>	Sub-Tropical	Abundant	Abudant	Resin/Timber	-	-	Generally held by community
Shisham	<i>Dalbergia</i>	Sub-Tropical	Rare	Rare	Timber	-	-	Generally held by community
Akhrot	<i>Juglans regia</i>	Sub-Tropical	Rare	Rare	Fruit/Timber	-	-	Generally held by community
Kau	<i>Olea cuspidata</i>	Sub-Tropical	Rare	Rare	Timber	-	-	Generally held by community
Banj	<i>Quercus incana</i>	Temprate	Rare	Rare	Fooder	-	-	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	Jackal	<i>Canis aureus</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Mammals	Leopard	<i>Panthera pardus</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Mammals	Bandar	<i>Macaca mulutta</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Mammals	Langur	<i>Presbytis entellus</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	Chukur	<i>Alectoris gracela</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	Pijar	<i>Nemorchaedus goral</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	Common Cuckoo	<i>Calculus canorus</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	House sparrow	<i>Passer domesticus</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	Koel	<i>Eudynamys scolopaceas</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	Sparrow Hawk	<i>Accipiter nisus nisosimilis</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Birds	Tree Sparrow	<i>Passer montanus</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community
Mammals	Porcupine	<i>Hyxtrix indica</i>	Forest	-	-	-	-	-	-	-	-	Generally held by community





**Format 31: Any other information of local importance**

<b>1</b>	<b>2</b>	<b>3</b>
<b>Sr. No.</b>	<b>Information of local importance</b>	<b>Remarks</b>
nil		

*End of Part II*