

## People Biodiversity Register (PBR): General Details

**Name of the Panchayat Samiti:** Balgara

**Taluk:** Maira Mandrian

**District:** Jammu

**State:** J&K UT

**Geographical Area of the Panchayat Samiti:**

**Population under the Panchayat Samiti:**

**Male:**

**Female:**

**Habitat and Topography:**

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

**Land Use (Nine fold classification available with village records):**

**Date, Month and Year of PBR Preparation:** 30/11/2019

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

**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:** Deepa Rajput

**Age:** 36 years

**Gender:** Female

**Address:** Balgara

**Area of specialization:**

**2) Name:** Reeta Devi

**Age:** 55 years

**Gender:** Female

**Address:** Balgara

**Area of specialization:**

**3) Name:-** Chander Rekha

**Age:** 34 years

**Gender:** Male

**Address:** Targah

**Area of specialization:**

**4)Name:** Bulla Ram

**Age:** 74 years

**Gender:** Male

**Address:** Payan

**Area of specialization:**

**5)Name:** Man Mohan Sharma

**Age:** 39 years

**Gender:** Male

**Address:** Payan

**Area of specialization:**

**6)Name:** Angrej Singh

**Age:** 48 years

**Gender:** Male

**Address:** Targah

**Area of specialization:**

**7)Name:** Manga Ram

**Age:** 52 years

**Gender:** Male

**Address:** Payan

**Area of specialization:**

A
<b>List of Vaid, hakims and traditional health care (Human and livestock) practitioners residing and or using biological resources within the jurisdiction of the village</b>
<b>1) Name:</b> Reeta Devi
<b>Age:</b> 55 years
<b>Gender:</b> Female
<b>Address:</b> Balgara
<b>Area of specialization:</b> Gynic
<b>Location from which the person accesses biological material:</b> Balgara
<b>Perception of the practitioner on the resource status:</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>

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: Shiv Ram

Age: 71 years

Gender: Male

Address: Payan

Area of specialization: Agriculture

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:

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

1) **Contact Person:** Deepa Rajput

**Name and Address:** Balgara

2) **Contact Person:**

**Name and Address:**

3) **Contact Person:**

**Name and Address:**

4) **Contact Person:**

**Name and Address:**

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

**Forest Deptt., Agriculture Deptt., Fisheries Deptt.**

## 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

1	2	3		4	5	6
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
		Arjun	<i>Terminalia arjuna</i>	8/21/2020	Nil	Nil
		Amla	<i>Emblica officinalis</i>			
		Harad	<i>Terminalia chebula</i>			
		Behra	<i>Terminalia bellirica</i>			
		Sukchain	<i>Pongamia pinnata</i>			
		Jamun	<i>Syzygium cini</i>			

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	Local Name	Scientific Name	Variety	Landscape /Habitat	Approx Area Sown	Local Status		Special features	Uses	Associated TK	Other Details	Cropping Season	Source of Seeds / Plants	Community / Knowledge Holder
						Past	Present							
1	Maize	<i>Zea mays</i>	Maka	Dekalb double	Sub tropical / Upland	Rare	Plenty	Tall, high yielding with yellow in colour)	Food & Fodder	Provides energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				K-517		Plenty	Rare	Average tall with yellow in colour						
				Ujala		Normal	Plenty							
				K-612		Plenty	Normal							
				Pro Agro-4794		Plenty	Normal	Tall, high yielding with yellow in colour)						
2	Mash	<i>Vigna mungo</i>	Mhaa	PU-19	Warm / Humid of Sub tropical region	Normal	Normal	High yielding Variety	Food	Source of Vegetable Protein	-	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
				Utra		Normal	Normal							
3	Bajra	<i>Pennisetum americanum</i>	Bajra	Local Variety	Warm / Humid climate under Sandy loam Soil	Normal	Normal	Tall & low Yielding variety	Food & Fodder	Source of Energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				MHB-110		Normal	Normal							

4	Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PBW 644	Cool Climate during early part of its growth	Plenty	Plenty	High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Private Suppliers	Farmers
5	Chick-pea	<i>Cicer arietinum</i>	Chana	GNG-469/C 235	Cool & dry	Normal	Normal	High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers
6	Peas	<i>Pisum sativum</i>	Matar	Rachna	Cool & dry	Normal	Normal	Early maturing & High yielding	Food	Source of Protein/Energy	Used as Vegetable	Rabi	Farmers / Department/ Private Suppliers	Farmers
7	Onion	<i>Allium cepa</i>	Gamd	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas	Abundant	Normal	Bulbs Cash Crop	Vegetables	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Private Suppliers	Farmers
8	Mustard	<i>Brassica juncea/ Brassica compestris</i>	Sarson	Pusa Bold/ KOS -1	Cool & dry	Normal	Normal	Matures in 145-150 days with 40-42 % oil content	oil for Food	Source of energy i	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers
9	Gobhi Sarson	<i>Brassica napus</i>	Gobhi Saria	GSL-1,DGS-1,Local	Cool & dry	Normal	Abundant	Annual Herb,yellow flowers bearing Pods	oil for Food,leaves used as vegetable	Source of energy i,calciam,copper,potassium	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers



10	Linseed	<i>Linum usitatissimum</i>	Alsi	LC 54	Cool & dry	Normal	Rare	Medium duration	Food & fiber	Source of energy in the shape of Oil	Medicinal, industrial & domestic use	Rabi	Farmers / Department/ Private Suppliers	Farmers
11	Potato	<i>Solanum tuberosum</i>	Aalo	Kufri Sindhuri, Kufri Badsha, local	Potato is an herbaceous annual, requires cool weather, mostly rainfed conditions	Abundant	Normal	Tubers are round to ovoid, creamish white to light red in colour with shallow eyes	Under ground tubers are used as vegetable, chips etc	-	High carbohydrate, provide high n energy value	Rabi	Farmers / Department/ Private Suppliers	Farmers
12	Toria	<i>Brassica j. rapeseed cv. Toria</i>	Toria	RSPT-1, RSPT-2, Local var.	Cool & dry with bright sunshine	Normal	Normal	Short duration Annual Herb	oil for preparation of Food	Source of energy, calcium, copper, potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Private Suppliers	Farmers
13	Sesame	<i>Sesamum indicum</i>	Til	Punjab Til No.1/local	Warm / Humid of Sub tropical region	Normal	Normal	Medium Yielding	Food	Source of Vegetable oil	Religious and medicinal value	June - Oct.	Farmers / Department/ Private Suppliers	Farmers
14	Sugarcane	<i>Saccharum officinarum</i>	Ganna	COJ-64, COJ-81	Sub Tropical	Rare	Rare	Long duration crop for Nine months	Food	Source of energy in the shape of Gur/Sugar	Sugarcane Juice used as preferred drink for instant source of energy during summer besides	Spring season	Farmers / Department/ Private Suppliers	Farmers

15	Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropica/sub tropical vegetable, grows well warm humid conditions	Abundant	Normal	Pungency and flavor	Used as spice ,medicinal value	-	Contains good amount of vitamin A&C	winter season	Farmers / Department/ Private Suppliers	Farmers
16	Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa rubi, Pusa early dwarf, Manisha Plus/local	Warm season crop	Abundant	Normal	Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,salad, soup, Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Private Suppliers	Farmers
17	Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropical vegetable Hot and humid climate	Abundant	Normal	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dietary fibers, protein and carbohydrates	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
18	Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local, JL	Grows in all climatic conditions, Tropical, Sub tropical & temperate	Abundant	Normal	Limbing annual bearing elongated thick cylindrical fruit	Mainly used as salad	-	It also used as antipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
19	Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer & rainy season crop	Abundant	Normal	Vines vigorous, profusely branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Private Suppliers	Farmers

20	Bitter gourd	<i>Momordica charantia</i>	karela	Pusa Domausmi/Kundan	Warm and Humid climate	Abundant	Normal	Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maintaining low sugar level	Summer/kharif	Farmers / Department/ Private Suppliers	Farmers
21	Beans	<i>Phaseolus Spp.</i>	Phaliya	Contender	Cool weather crop/Sandy/loamy soil	Abundant	Rare	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High vale protein, Vitamine B1, B2 < B6 and Maganese	Summer season	Farmers / Department/ Private Suppliers	Farmers
22	Knol khol	<i>Brassica oleraceae var. gongyloides</i>	Kadam	White vienna, Purple vienna	cool & moist climate/sub tropical	Abundant	Normal	Swollen stem ,gren/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Private Suppliers	Farmers
23	Spanich	<i>Spinacea oleracea</i>	Palak	All Green, Delta	Cool season Crop, thrives well on well drained loam soils	Abundant	Normal	Tender green leaves & root used as Vegetable	Tender green leaves used as leafy Vegetable	-	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Private Suppliers	Farmers
24	Radish	<i>Raphanus sativus</i>	Mulli	Japanes White ,Koren Etc	Cool season Crop, thrives well on well drained Sandy loam soils	Abundant	Normal	Tender green leaves & roots used as Vegetable	Modified Roots are used as Vegetabke & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Private Suppliers	Farmers

25	Turnip	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool &moist climate/sub tropical&intermediate	Abundant	Rare	Modified Root is eatable	Root is used as Vegetable , Salad,.	-	Good source of Vit.C,Diatry Fiber &Potasium	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
26	Exocitic Vegetables	<i>Broccoli// Chinese Cabbage / Capsicum etc.</i>		Prevelent Hybrid varieties	Cool &moist climate/sub tropical&intermediate	Rare	Abundant	All Plants Carts and Fruits are eadable Ric Source of antioxidants	Salad and Vegetable		Ric Source of Multivitimi ns, Minierals and Antioxident s	Rabi	Farmers / Department/ Privaate Suppliers	Farmers



**Format 3:-Fodder Crops / Species**

1	2	3	4	5	6	7	8		9	10	11	12	13
S. No.	Plant	Scientific Name	Local Name	Habit	Area (Approx.)Rabi/ Kharif	Landscape/Habitat	Local Status		Part Used	Associated TK	Other details (mode of use)	Sources of Seeds and Plants	Community Kn. Holders
							Past	Present					
1	Barseem	<i>Trifolium alexandrium</i>	Chhatala	Annual	8030	Sub Humid & moderately cool	Abundant	Rare	Entire Plant	Nutritious & palatable fodder, Source of energy for animals	Fodder	Farmers / Department/ Private Suppliers	Farmers
2	Oats	<i>Avena spp.</i>	Javi	Annual		Cool & moist climate	Abundant	Rare	Above ground part of plant	Nutritious & palatable fodder,	Fodder		Farmers
3	Sorghum	<i>Sorghum spp.</i>	cherri	Annual	6840	Warm & humid	Abundant	Rare	Above ground part of plant	Source of energy	Fodder	Farmers / Department/ Private Suppliers	Farmers
4	Maize	<i>Zea mays</i>	Makki	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Food & fodder		Farmers
5	Bajra	<i>Pennisetium americanum</i>	Bajra	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Source of energy	Food & fodder	Farmers / Department/ Private Suppliers	Farmers
6	Cowpea	<i>Vigna unguiculata</i>	Rongi	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Kharif Legume with high protein	Fodder		Farmers

**Format-4 : Weeds**

1	2	3	4	5	6	7	8		9	10	11	12	13
S. No.	Plant	Scientific Name	Local Name	Affected Crop	Habit	Landscape/ Habitat	Local Status		Uses if any	Management options	Associated TK	Other details	Community Kn. Holders
							Past	Present					
1	Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Also Used as medicinal herb	Farmers
2	Lamb's quarters	<i>Chenopodium album</i>	Bathua/ Kanh/Wild Spinach	Wheat, Pea, Potato	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein, Vit. A, Calcium, Phosphorous & potash	Annual feed & fermentation of Beverages	Farmers
3	Nut Grass	<i>Cyperus rotundus</i>	Dilla/Mothai	Paddy, maize, sugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Traditionally used as medicine	Farmers
4	Barnyard Grass	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil	Farmers
5	Carrot grass	<i>Parthenum hysterophorus</i>	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Abundant	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage		Farmers
6	Bur Clover	<i>Medicago denticulata</i>	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder, vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Farmers

7	Canary Grass	<i>Phalaris minor</i>	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land	Farmers
8	Meadow Pea	<i>Lathyrus aphaca</i>	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land	Farmers
9	Canada Thistle	<i>Cirsium arvense</i>	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
10	Bang	<i>Cannabis indica</i>	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
11	Nilibuti	<i>Ageratum conyzoides</i>	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
12	Dub Grass	<i>Cynodon dactylon</i>	Dub Grass	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abudant	Normal	Fooder	Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
13	Wild oats	<i>Avena fatua</i>	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrativ Fodder for Animals	Farmers
14	Wild Rice	<i>Echinochloa colonum</i>	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrativ Fodder for Animals	Farmers
15	Jhonson Grass	<i>Sorghum helepense</i>	Beru grass	Sorghum	Perinneal	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrativ Fodder for Animals	Farmers
16	wild onion	<i>Allium humaie</i>	Jangli payas	Onion	Annual herb	Temprate/ sub tropical	Rare	Rare	Food and medicine	All parts used	-	-	Farmers





**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)

<b>Format 7: Peoplescape</b>										
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
Hindu,Muslim, SC/ ST/ General	Government Services, private services,Agriculture, Live stock etc	Labourers	Plane and Hilly	Paddy (June to ending July),Maize (April to ending may),Wheat (Oct to Nov),Mustard (Sep/Oct)	Check Dam	Check Dam	General cast/Scheduled Cast/Scheduled tribes	Average	Farmers, Labourers	4,402
					Nallah Bank Erosion Structure (Protective Banks)	Nallah Bank Erosion Structure (Protective Banks)				
					Concrete Channel	Concrete Channel				
					Lined Channel	Lined Channel				
					Water Harvesting Structures	Water Harvesting Structures				

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

<b>Format 8: Landscape</b>													
<b>1</b>			<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Major Landscapes</b>			<b>Sub - Landscapes</b>	<b>Features and approx. area</b>	<b>Ownership</b>	<b>General flora</b>	<b>General fauna</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>
<b>Agricultural land</b>	<b>Pond</b>	<b>Fallow land</b>											
Plains & Kandi areas			Plains	Hilly as well as	Forest land, Private, state lands,	Broad leaved mainly	Domestic animals, wildlife such as porcupine, jackal etc.	Public, as well as pvt, and Govt also	-	Plantation and agriculture	-	-	-
			Hillocks	Plain terrain with gentle slope	Forest land, Private, state lands,	Broad leaved and conifers	Domestic animals, wildlife such as porcupine, jackal etc.	Public, as well as pvt, and Govt also	-	Plantation and agriculture	-	-	-
Shiwalik areas			Hills	Hills with gentle slopes	Forest land, Private, state lands,	Broad leaved and conifers	Domestic animals, wildlife such as porcupine, jackal etc.	Public, as well as pvt, and Govt also	-	Plantation and agriculture	-	-	-

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





**Format 11: Fruit Trees**

1	2	3	4	6	7		8	9	10	11	12	13
Plant	Local Name	Scientific 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						
Mango	<i>Aam</i>	Mangifera indica	Desi, Dushari , Malta	Plains	plenty	plenty	Nurseries	June- August		Fruit,Picking, Preserves	Marketing, own use	
Citrus Fruits	<i>Khatti, Mosambi, santra, Nimbu,</i>	Citrus spp	Local,Kagzi lime, Italian limeHill lemon etc	plains,mid hills	plenty	Normal	Nurseries	throughout year		Fruit, picking Squashes etc.	Marketing, own use	
Litchi	<i>Litchi</i>	Litchi chinensis	Calcutta Dehradun	plains	plenty	Rare	Nurseries	June- August		fruit	Marketing	
Guava	<i>Amrood</i>	Psidium guajava	Local, Allahabadi, Safaida	plains lower hills	plenty	Normal	Nurseries	June- August		fruit	Marketing, own use	
Grapes	<i>Angoor</i>	Vitis vinifera Michx	Local Dakh perlette	plains mid hills	rare	Rare	Nurseries	June- August		fruit		
Aonia	<i>Ambla</i>	Emblica officinalis Syn Phyllanthus emblica	local selection NA-7	Plains mid hills	plenty	plenty	Nurseries local collection	Nov- Dec.		picking, fruit juices	Marketing, own use	
Ber	<i>ber</i>	Zizyphus mauritiana lamk	Gola Banarasi	Plains	plenty	plenty	local raised	July- August		fruit	Own use	
Jamun	<i>Jamun</i>	Syzygium cumini	local selection	plains	rare	rare	Nurseries, local raised	July- August		fruit	Own use	

Pomegranate	<i>Anar, Druni</i>	<i>Punica granatum</i>	Ganesh, Kandhari local	plains	rare	rare	Nurseries, local raised, wild	May- August		fruit, anardana	Own use	
pear	<i>Nakh</i>	<i>Pyrus app</i>	Patharmakh, china pear	plains mid hills	rare	rare	Nurseries	August-Sept		fruit	Own use	
Peach	<i>Aaroo</i>	<i>Prunus persica (L)</i> Batsch	July Elberta, quetta	plains mid hills	rare	plenty	Nurseries	June-July		fruit	Marketing, own use	
Strawberry	<i>Strawberry</i>	<i>Fragaria x ananassa</i> Duch	chandler	plains mid hills	rare	Rare	Nurseries	March-April		fruit	Marketing	
Karonda	<i>gernay</i>	<i>Carissa carandas</i>	local	plains/hills	rare	rare	Nurseries, wild	June-August		fruit	Marketing,own n use	
Papaya	<i>Papita</i>	<i>Carica papaya</i>	local	plains	rare	Normal	Nurseries, locally raised	August- October		fruit	own use	



**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	Local Status		Source of plant/seeds	Season of Fruiting	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
					Past	Present						
Herbs	Dudlu	<i>Taraxacum officinale</i>		Temperate area	Rare	Rare	Root			N.A	N.A	Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Herbs	Jungli putna	<i>Mentha arvensis</i>		Lower shiwalik/ Temperate area	Abundant	Normal	Root			N.A	N.A	Generally, held by community
Shrubs	Trimuru	<i>Zanthoxylum aurmatum</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Shrubs	brankad	<i>Adhatoda vesica</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Shrubs	Drainkdu	<i>Murraya koenigii</i>		Sub-Tropical area	Rare	Abundant	Seed			N.A	N.A	Generally, held by community
Shrubs	Dussa	<i>Colebrookia oppositifolia</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Shrubs	Thor/Shuu	<i>Euphorbia royleana</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Canabis sativa</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community

Tree	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Bair	<i>Ziziphus xylocarpa</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Bill-Patre	<i>Aegle mermelos</i>		Sub-Tropical area	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Tree	Drankh	<i>Melia azadirach</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>		Lower shiwalik	Abundant	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Tree	Kakad-Singhi	<i>Pistacia khinjuk</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Khair	<i>Acacia catechu</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Tree	Kringal	<i>Casia fistula</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Lusada	<i>Cordia dichotoma</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Tree	Mangoo	<i>Mangifera indica</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community

Tree	Retha	<i>Sapindus mukorossii</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Rumbal	<i>Ficus racemosa</i>		Lower shiwalik	Abundant	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Sree	<i>Albizzia lebbek</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>		Lower shiwalik	Abundant	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Amla	<i>Amblica officinales</i>		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Neem	<i>Azadirachta indica</i>		Lower shiwalik	Abundant	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Khair	<i>Accacia catechu</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Cannabis sativa</i>		Lower shiwalik	Abundant	Normal	Seed			N.A	N.A	Generally, held by community
Tree	Dhaman	<i>Ptyas mucosa</i>				Plenty						
Tree	Toot	<i>Morus alba</i>				Plenty						





**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					
Cattle	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	Jersy Gau	<i>Bos taurus</i>	CB Jersy	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
Buffalo	Manj	<i>Bubalus bubalis</i>	Local	Low yield	stall feeding	Abundant	Decreased	Dairy	Nil	No	Milk	All
Horse	ghoda	<i>Equus caballus</i>	Local	Red color body	Backyard	Abundant	Decrease	Pack/ Cart	Nil	No	Pack/ Cart	All
	Chakore	<i>Alectoris chukar</i>	Local	black and white stripes ,beak is short, strong, and orange in color	Backyard	few	Decrease	Egg,meat	Nil	Yes	Egg, Meat	All
	Parrot	<i>Psittaciformes</i>	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All
	Pigeon	<i>Columbidae</i>	Local	white color , fast growing	Backyard	few	Decrease	decorative	Nil	No	nil	All

Dog	Kutta	<i>canis familiaris</i>	Local	Nil	Pet ,Stray	Abundant	Abundant	Nil	Nil	No	Nil	All / stray
Cat	Billi	<i>felis catus</i>	Local	Grey /white color	Pet ,Stray	Abundant	Abundant	pet	Nil	No	Nil	All / stray
Rabbit	Khargosh	<i>Oryctolagus cuniculus</i>	White gaint	white	Pet ,wild	few	few	Pet	Nil	No	Nil	All / wild
Pig	Suar	<i>sus scrofa domesticus</i>	Yorkshire cross	white	Wild	few	Increased	Meat	Nil	Yes	Nil	Sikh /Christians/SCcommunity

### Format 16: Culture Fisheries

1	2	3	4	5	6	7		8	9	10	11	12
Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (Pond/Bheri/Talao)	Local status		Uses	Associated TK	Commercial Rearing	Other details	Community Know. Holders
						Past	Present					
Carp	Rohu	<i>Labeo rohita</i>	Indian Major Carp	Large Silver coloured fish, arched head	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	30%
	Mrigal	<i>Cirrhinus mrigala</i>	Indian Major Carp	Cycloid scales, mouth broad ,pharyngel teeth in 3 rows	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	30%
	Common Carp	<i>Cyprinus Carpio</i>	Exortic Carp	Have long dorsal fin,have small barbels,mouth opens in an accordion like fashion	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	30%
	Catla	<i>Catla catla</i>	Indian Major Carp	large & broad head,grey scales,protruding lower jaw	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	30%

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	Shisham	<i>Dalbergia sisoo</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Stem, Timber	-	-	-
Tree	Khair	<i>Acacia catechu</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	Katha	-	-
Tree	Amla	<i>Emblica officinalis</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	Food processing	-	-
Tree	Siris	<i>Albizzia lebeck</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Chir	<i>Pinus roxburghii</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	Resin	-	-
Tree	Lecunia	<i>Leucaena leucocephala</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Simbal	<i>Bombax ceiba</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Kamila	<i>Mallotus philippensis</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Krangal	<i>Cassia fistula</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Ber	<i>Ziziphus jujuba</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	-

Tree	Plash	<i>Butea monosperma</i>	Tree	Northern/Sub-Tropical	Rare	Rare	Commercial/own use	Timber/Firewood	-	-	-
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Timber/Firewood	-	-	-
Tree	Amb	<i>Mangifera indica</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	-
Tree	Kiker	<i>Acacia nilotica</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Timber/Firewood	-	-	-
Tree	Bel	<i>Aegle marmelos</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Leaves/ Fruit	-	-	-
Tree	kakoa	<i>Flacourtia indica</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	-
Grass	Bamboo	<i>Dendrocalamus strictus</i>	Grass	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Sticks	-	-	-
Herbs	Bhang	<i>Cannabis sativa</i>	herbs	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Leaves	-	-	-
Shrub	Jojra	<i>Pupalia lappacea</i>	Shrubs	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	-	-	-	-
Shrub	Garna	<i>Carissa spinarum</i>	Shrubs	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	-
Shrub	Panjphuli	<i>Lantana camara</i>	Shrubs	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	-	-	-	-
Shrub	Gandila	<i>Nerium indicum</i>	Shrubs	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Flower	-	-	-
Herbs	congress Grass	<i>Parthenium hysterophrous</i>	herbs	Northern/Sub-Tropical	Good	Moderate	-	-	-	-	-
Tree	Badh	<i>Ficus religiosa</i>	Tree	Northern/Sub-Tropical	Good	Moderate	-	-	-	-	-



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

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Status
1	Brenker	<i>Adhatoda vasica</i>	Shrub	-	Good
2	Bhang	<i>Cannabis sativa</i>	Shrub	Medicinal	Good
3	Aakh	<i>Ipomea carnea</i>	Shrub	Soil binder	Good

## 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				
Snail	<i>Gastropoda</i>		Land snails have a strong muscular foot, they use mucus to enable them to crawl over rough surfaces and to keep their soft bodies from drying out.		Good	Good	-	-	-	
Broun trout	<i>Salmo trutta</i>		An average length of 40-80 cm with a maximum length of 140 cm the spawning behaviour of brown trout is similar to that of the closely related atlantic salmon.		Good	Good	-	-	-	
Turtle	<i>Testudines</i>		Turtles spend most of their lives in water, they are adapted for aquatic life, freshwater turtles live in ponds and lakes, and they climb out of the water onto logs or rocks to bask in the warm sun		Good	Good	-	-	-	
Water Spinach	<i>Ipomoea aquaticum</i>		It contains abudnat quantities of water, iron, vitaminC, Vitamin A and other nutrients		Good	Good	-	-	-	

**Format 21: Wild Aquatic Plant Species of Importance**

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Trends
1	Water Spinach	<i>Ipomoea aquaticum</i>	-	It contains abundant quantities of water, iron, vitaminC, Vitamin A and other nutrients	-
2	Watercress	<i>Rorippa nasturtium - aquaticum</i>	-	It contains a plethora of antioxidants, which may lower your risk of heart disease and several types of cancer it's also a good source of minerals that protect your bones	-











**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	Any other detail	Community knowledge holder
			Past	Present				
Chir	<i>Pinus roxburghii</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Shisham	<i>Dalbergia sisoo</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Ber	<i>Ziziphus jujuba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Sagwan	<i>Tectona grandis</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Safeda	<i>Eucalyptus</i>	Northern/Sub-Tropical	Good	Rare	Commercial/ own use	Timber/ Firewood	-	-
Simbal	<i>Bombax ceiba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tunu	<i>Cidrela toona</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Jamun	<i>Ayngium cimini</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-





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

1	2	3	4	5	6	7		8	9	10	11
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local status		uses if any	Associated TK	Other details	Community/ Knowledge Holder
						Past	Present				
Wild Animal	Squirrels	<i>Sciuridae</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Indian Hare	<i>lepus nigricollis</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Monkey	<i>Cercopithecidae</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Bird	Red jungle fowl	<i>Gallus gallus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild bird	Rose ringed parakeet	<i>Psittaculidae</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Fox	<i>Vulpes</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Porcupine	<i>Erethizon dorsatum</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	Grasshopper	<i>Parallelus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	butterfly	<i>Chorthippus brunneus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	bees	<i>Apis mellifera</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	

wild insects	ants	<i>Brachymyrmex patagonicus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	Bumble bee	<i>Bombus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Amphibia	Frog	<i>Euphlyctis cyanophlyctis</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Reptiles	Tortoises	<i>Testudinidae</i>	Northern/ Sub-Tropical	-	-	Good	Rare	-	-	-	
Reptiles	Snake	<i>Serpentes</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	



## URBAN BIODIVERSITY

### Format 29: Flora

1	2	3	4	5	6	7
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)

**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*