

## People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti :-Bakhar
Taluk / Block:- Siot
District:Rajouri
State:Jammu And Kashmir
Geographical Area of the Panchayat Samiti: 6.25 sq kms
Population under the Panchayat Samiti: Total 2625
Male: 1345          Female: 1280
Habitat and Topography :Hilly
Climate (Rainfall, Temperature and weather patterns) Rainfall : Subtropical Temperature with Moderate Rainfall
Land Use (Nine fold classification available with village records)
Date, Month and Year of PBR Preparation 2020-21 (Updation Date: 10-09-2022)
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: Kamlesh devi W/o Sukhdev Singh
Age:60
Gender :Female
Address:bakhar
Area of specialization:
2) Name:Bholi Devi W/o Karnail Singh
Age:44
Gender:female
Address:bakhar ward no.5
Area of specialization:Housewife
3) Name:Sushma Kumari W/o Rattan Singh
Age:43
Gender:female
Address:bakhar ward no.2
Area of specialization:Housewife
4)Name:Salim Mohd.S/o Syed Mohd.
Age:59
Gender:Male
Address:Bakhar
Area of specialization: Ex serviceman
5)Name: Babu Ram S/o Dewan Chand
Age: 56 Yrs
Gender: Male
Address: Ward No. 1 Bakhar
Area of specialization: Ex serviceman
6)Name: Rashpaul Sharma
Age: 60 Yrs
Gender: Male
Address: Ward No. 7 Bakhar
Area of specialization:
7)Name:Naresh singh S/o Sukhdev Singh
Age:37
Gender:Male
Address:Bakhar
Area of specialization: Shopkeeper

## 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 : Amarnath S/o Gopal Dass
Age: 65
Gender: Male
Address: Bathkhlara Ward No.4
Area of specialization: Traditional Health Care
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal Use: Treatment of Snake bite
2) Name: Dharam Chand
Age: 80 Yrs
Gender: Male
Address: Ward No.2 Gai di Kassi Bakhar
Area of specialization: Traditional Health Care
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal Use: Treatment of Dislocated Joints
3) Name: Raj Kumar
Age: 70 Yrs
Gender: Male
Address: Bakhar
Area of specialization: Hakim
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal Use: Treatment of Hernia

### Annexure 3

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

1) Name Raj Kumar

Age: 60

Gender: Male

Address: Bakhar

Area of specialization: Olericulture

2) Name : Bansi Lal S/o Dewan Chand

Age: 65

Gender: Male

Address: Ward No. 7 Godi Mohalla

Area of specialization: Agriculture

3) Name : Tirth Ram S/o Thakur Dass

Age: 70 Yrs

Gender: Male

Address: Ward No. 5 Bakhar

Area of specialization: Agriculture

4) Name : Jagannath S/o Sohan Lal

Age: 60 Yrs

Gender: Male

Address: ward no.1 Bakhar

Area of specialization: Agriculture

5) Name : Om Parkash

Age : 65 Yrs

Gender : Male

Address : Bakhar

Area of Specialization : Olericulture

## 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:suresh kumar school teacher

2) Contact Person: Panch &BMC Member Contact No. 9419172844

Name and Address: Naresh Singh S/o Sukhdev Singh R/o Bakhar

3) Contact Person:

Name and Address:

4) Contact Person:

Name and Address:

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

Annexure 5

<b>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>					
<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>

*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							
Black gram	<i>Vigna mungo</i>	Mahh Dal	Mash 114	High and Plains	5.1	Plenty	Normal	Kherif sowing Dwarf & Short duration	July	Food	Protein	Protein and Phosphoric acid	Farmers/ Department/Private Suppliers	Farmers
Wheat	<i>Triticum aestivum</i>	Kanak	HD3171/ HD 1605	Low land valleys	345	Plenty	Plenty	Tall variety High yielded	October November	Food and Fodder	Provides more energy		Farmers/ Department/Private Suppliers	Farmers
Sesame	<i>Sesamum indicum</i>	Tilli	Local	Lowland Valleys subtropical/dry & cool weather	0	Normal	Normal	oilseed crop	Kharif	seeds are edible & seed oil is used for massage	sesame seeds mixed with heated jaggery is made into balls & eaten as snacks	sesame oil has antibacterial, anti-inflammatory & antioxidant properties	Farmers/ Department/Private suppliers	Farmers
Maize	<i>Zea mays</i>	Maki	Double Dacklab Kanchan	Low land valleys	314.5	Plenty	Plenty	Tall variety High yielded	Kharif	Food and Fodder	Provides more energy	Raw Corn on the cob is roasted & then consumed (Bhutta)	Farmers/ Department/Private suppliers	Farmers
Mustard	<i>Brassica juncea</i>	Sarya/Sarso	Local	Low land valleys Subtropical/Dry & Cool Weather	156	Normal	Normal	oil seed crop	Rabi	leaves used as vegetable ,oil cake is used for feeding cattle	Mustard seeds & its oil is used for culinary purpose		Farmers/ Department/Private suppliers	Farmers
Pumpkin	<i>Cucurbita moschata</i>	Petha/Kandoli	Prevalent Hybrid Varieties	Low land valleys/Subtropical	3	Plenty	Plenty	pumpkin is round with smooth, slightly ribbed skin; thick shell contains seed & pulp	Kharif/ Summer	Pumpkin is used for making Ambal (very popular recipe of JK)	Pumpkin seeds are dried ,fried & then eaten	pumpkin is highly nutritious particularly rich in Vitamin A	Farmers/ Department/Private suppliers	Farmers
Bottle Gourd	<i>Lagearia siceraria</i>	Ghiya	Prevalent Hybrid Varieties	Low land valleys	1	Normal	Normal	vines vigorous profusely branched	Summer/ Kharif	used as vegetable	contains essential vitamins & Minerals		Farmers/ Department/Private suppliers	Farmers

Onion	<i>Allium cepa</i>	Ganday/Pyaz	Prevalent Hybrid Varieties	Low land valleys	5	Plenty	Plenty	herbaceous biennial plant grown for its edible bulb	Summer /Kharif	used as vegetable	Eaten Raw and used to make Chutneys	They are pungent when chopped & Contain certain chemical substances which may irritate the Eyes	Farmers/ Department/ Private suppliers	Farmers
Okra	<i>Abelmoschus esculentus</i>	Bhindi	Prevalent Hybrid Varieties	Low land valleys	2.6	Normal	Normal	tender green fruit used as vegetable	Summer/ Kharif	used as vegetable	contains dietary fibers,proteins,carbohydrates		Farmers/ Department/ Private suppliers	Farmers
Garlic	<i>Allium sativum</i>	Lehsun	Prevalent Hybrid Varieties	Low land valleys/ Cool & Moist Climate	5	Rare	Abundant	Bulb	Rabi	Used as Vegetable and spice	Rich source of Vitamin C,B6,Mn		Farmers / Department/ Private Suppliers	Farmers
Bitter Gourd	<i>Momordica charantia</i>	Karela	Prevalent Hybrid Varieties	Low land valleys/ Warm & Humid Climate	2.5	Normal	Normal	Herbaceous climbing annual with ridged stems	Kharif/ Summer	used as vegetable		Used for maintaining low Sugar Level	Farmers/ Department/ Private suppliers	Farmers
Potato	<i>Solanum tuberosum</i>	Aloo	Prevalent Hybrid Varieties	Plains/require cool weather		Normal	Normal	tubers are round to ovoid	Rabi	food	provides high carbohydrates		Farmers/ Department/ Private suppliers	Farmers
Beans	<i>Phaseolus vulgaris</i>	Phaliya	Prevalent Hybrid Varieties	Plains/cool weather		Rare	Rare	Tender green pods are used as vegetable	Summer Season	used as vegetable	High value protein,vitamins & Mn		Farmers/ Department/ Private suppliers	Farmers
Spinach	<i>Spinacia oleracea</i>	Palak	Prevalent Hybrid Varieties	Plains/cool season crop		Normal	Normal	tender green leaves used as vegetable	Rabi	used as vegetable	Vitamin A&C, fiber, folic acid & other nutrients		Farmers/ Department/ Private suppliers	Farmers
Horse gram legume	<i>Macrotyloma uniflorum</i>	Kulth	Local	Low land valleys/ subtropical/ dry & cool weather		Normal	Normal	legumecrop; climbing plant with a rhizome	Kharif	Horse gram seeds used for pulses	Kulth Dal eaten in winter season mostly, effective in relieving cough& cold	Seeds contain carbohydrates, protein, dietary fiber, calcium, phosphorus	Farmers/ Department/ Private suppliers	Farmers
Tomato	<i>Solanum lycopersicum</i>	Tamater	Prevalent Hybrid Varieties	Plains/ Subtropical/ Warm season crop		Normal	Normal	They are vines that have weak stem that sprawls & typically needs support	kharif/ Summer	the tomato is a vegetable for culinary purposes		tomato fruit is used in diverse ways like in salads, soups	Farmers/ Department/ Private suppliers	Farmers



Pigeon pea	<i>Cajanus cajan</i>	Taanr	Local	Low land valleys/ Subtropical/ Cool&Dry		Normal	Rare	enriches soil through symbiotic nitrogen fixation	Kharif	pulses crop;rich source of protein		legume crop	Farmers/ Department/ Private suppliers	Farmers
Cucumber	<i>Cucumis sativus</i>	Kheera	Prevalent hybrid varieties	grows in all climatic conditions		Normal	Normal	climbing vine bearing elongated thick cylindrical fruit	Kharif/ Summer	Mainly used as Salad		It is used as antipyretic &cause Cooling effect	Farmers/ Department/ Private suppliers	Farmers
Bitter Gourd	<i>Momordica charantia</i>	Karela	Prevalent Hybrid Varieties	Plains/ Warm&humid climate		Normal	Normal	Herbaceous climbing annual with ridged stems	Kharif/ Summer	used as vegetable		Used for maintaining low Sugar Level	Farmers/ Department/ Private suppliers	Farmers
Peas	<i>Pisum sativum</i>	Matar	Prevalent Hybrid Varieties	Plains/ Cool & Dry		Normal	Normal	Early maturing&high yielding	Rabi	used as vegetable		Source of protein/Energy	Farmers/ Department/ Private suppliers	Farmers
Garlic	<i>Allium sativum</i>	Thoom	prevalent hybrid varieties	Plains/ cool & moist		Rare	Abundant	Bulb	Rabi	Used as Vegetable and spice		Rich source of Vitamin C,B6,Mn	Farmers / Department/ Private Suppliers	Farmers
Coriander	<i>Coriandrum sativum</i>	daniya	prevalent hybrid varieties	Plains/ Cool & moist		Rare	Abundant	leaves are eatables	Rabi	leaves are used as vegetable and seeds as spice		Rich source of vitamin A,C dietary fibre,iron ,Mn etc	Farmers / Department/ Private Suppliers	Farmers
Taro	<i>Colocasia spp.</i>	Kachalu	prevalent hybrid varieties	Plains/ Warm & moist		Rare	Rare	Taro root is edible	Summer/ Kharif	Used as Vegetable for their Corms.Corms are used in Kachalu Chat Recipe		Taro root is rich source of dietary fibre & Carbohydrates	Farmers / Department/ Private Suppliers	Farmers
Turmeric	<i>Curcuma longa</i>	Aldi	Local Variety	Plains/ Cool & Moist		Rare	Rare	Perennial rhizomatous herbaceous plant	Kharif	Rhizomes are boiled in water,dried,then grounded into deep orange-yellow powder		Yellow powder used as coloring &Flavoring agent in many Asian cuisines	Farmers / Department/ Private Suppliers	Farmers
Ginger	<i>Zingiber officinale</i>	Adrk	Local Variety	Plains/Warm &dry		Rare	Rare	Herbaceous perennial which grows annual pseudostems	Summer/ Kharif	Ginger rhizomes are often pickled or cooked as an ingredient in many dishes	Used as an ingredient in traditional indian drink "Chai"	Ginger is a fragrant kitchen Spice	Farmers / Department/ Private Suppliers	Farmers

Brinjal	<i>Solanum melongena</i>	Pathe/Baingan	Prevalent hybrid varieties	Plains/Warm/Humid of Subtropical region		Rare	Rare	Delicate,tropical perennial plant	Rabi	Used in Baingan bharta Recipe	Fruit is cooked as a vegetable	Fruits contain soft edible seeds	Farmers / Department/ Private Suppliers	Farmers
Chilli	<i>Capsicum annuum</i>	Mirchi	Prevalent hybrid varieties	Plains/Warm and Humid of Subtropical Region		Normal	Normal	Fruits are peppers that may be green, Yellow, Orange or red when ripe	Summer/ Kharif	green chilli is used as salad	When Chillies become red, they are dried powdered & then used as a spice	Capsaicin Chemical creates a burning sensation which can last for several hours after ingestion	Farmers / Department/ Private Suppliers	Farmers
Ash Gourd	<i>Benincasa hispida</i>	Tuda Pitha	Local	Low land valleys/Warm and humid climate		Rare	Rare	Cucurbitaceous, annual Vine trailing on Ground	Kharif	Ash gourd juice is good for constipation problems	Petha Barfi a traditional indian sweet made from Gourd	Cool down the system; detoxify the body	Farmers / Department/ Private Suppliers	Farmers

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						
Orange	<i>Citrus X sinensis</i>	Santra	Hybrid	Semi Hilly	Medium		Horticulture Deptt.	Summer /Winter	Orange juice is recommended to the person suffering from Typhoid Fever	Fruit is Rich in Vitamin C & has several health benefits	Self/local Market	Locals
Lemon	<i>Citrus limon</i>	Nimbu	Hybrid	Semi Hilly	Medium		Horticulture Deptt.	Summer /Winter	In case of indigestion, lemon water can provide great relief	Lemon juice is a great natural remedy to detox any impurities of Intestine	Self/local Market	Locals

**Format 3: Fodder Crops / Species**

1	2	3	4	5		6	7	8	9	10
Plant	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 spp.</i>	Javi	Low land valleys/Cool & moist climate/Farm fields	Normal	Normal	Farmers/Department/Private Suppliers	Nutritious & palatable fodder,	Above ground part of plant	Fodder	Farmers
Sorghum	<i>Sorghum spp.</i>	cherri	Low land valleys/Cool & moist climate/Farm fields	Abundant	Abundant	Farmers/Department/Private Suppliers	Source of energy	Above ground part of plant	Fodder	Farmers
Maize	<i>Zea mays</i>	Charra	Low land valleys/Cool & moist climate/Farm fields	Abundant	Normal	Farmers/Department/Private Suppliers	Source of energy	Above ground part of plant	fodder	Farmers
Bajra	<i>Pennisetum americanum</i>	Bajra	Low land valleys/Cool & moist climate/Farm fields	Abundant	Normal	Farmers/Department/Private Suppliers	Source of energy	Above ground part of plant	Food & fodder	Farmers
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					
Carrot Grass	<i>Parthenium hysterophorus</i>	Congress Grass	All crops	Reduces yield	Plain and hilly/ Subtropical	NA	Plenty		Uprooting	Nil	Exotic	Farmers
Wild Kulthi	<i>Atylosia scarabaeoides</i>	Wild Kulthi	All crops	Reduces yield	Plain and hilly/ Subtropical	Fairly available	Plenty	Pulses	Uprooting	Nil	Indigenous	Farmers
Himalayan mimosa	<i>Mimosa rubicaulis</i>	Raal	All crops	Reduces yield	Plain and hilly/ Subtropical	Plenty	Plenty		Uprooting	Nil	Indigenous	Farmers
Common Vetch	<i>Vicia sativa</i>	Jowal	All crops	Reduces yield	Plain and hilly/ Subtropical	Plenty	Plenty		Uprooting	Nil	Indigenous	Farmers
Wild indigo	<i>Tephrosia purpurea</i>	Sirponkhi	All crops	Reduces yield	Plain and hilly/ Subtropical	Plenty	Plenty	Vegetable	Uprooting	Nil	Indigenous	Farmers
Caragana	<i>Caragana gerardiana</i>	Pattaki	All crops	Reduces yield	Plain and hilly/ Subtropical	Plenty	Plenty		Uprooting	Nil	Indigenous	Farmers
True Indigo	<i>Indigofera tinctoria</i>	Kathi	All crops	Reduces yield	Plain and hilly/ Subtropical	Plenty	Plenty	Natural dye	Uprooting	Nil	Indigenous	Farmers
Hemp	<i>Cannabis sativa</i>	Bang	Kharif Crops	Reduces yield	Plain and hilly/ Subtropical	Normal	Normal		Mechanical, Chemical	leaf juice induces sleep	Exotic	Farmers
Chick weed	<i>Ageratum conyzoides</i>	Nilibuti	Rabi Crops	Reduces yield	Plain and hilly/ Subtropical	Normal	Normal		Mechanical, Chemical	Nil	Exotic	Farmers
Dub Grass	<i>Cynodon dactylon</i>	Dub grass	Rabi/ Kharif	Reduces yield	Plain and hilly/ Subtropical	Abundant	Abundant	Fodder	Mechanical, Chemical	Nil	Exotic	Farmers

Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai/ Chaleri	Maize	Reduces yield	Plain and hilly/ Subtropical	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Exotic	Farmers
Lamb's quarters	<i>Chenopodium album</i>	Bathua/ Kanah/ Wild Spinach	Wheat, Pea, Potato	Reduces yield	Plain and hilly/ Subtropical	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein, Vit. A, Calcium, Phosphorous & potash	Exotic	Farmers
Canary Grass	<i>Phalaris minor</i>	Sitti	Wheat Grass Peas, mustard	Reduces yield	Plain and hilly/ Subtropical	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Exotic	Farmers
Meadow Pea	<i>Lathyrus aphaca</i>	Maintri	Wheat Grass Peas, mustard	Reduces yield	Plain and hilly/ Subtropical	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Exotic	Farmers
Canada Thistle	<i>Cirsium arvense</i>	creeping thistle	Wheat gram, Barley	Reduces yield	Plain and hilly/ Subtropical	Normal	Normal		Mechanical, Chemical	Nil	Exotic	Farmers
Wild oats	<i>Avena fatua</i>	Jangli Javi	Oats	Reduces yield	Plain and hilly/ Subtropical	Rare	Rare	Fodder	Mechanical, Chemical	Nutritive Fodder for Animals	Exotic	Farmers
Jhonson Grass	<i>Sorghum halepense</i>	Beru grass	Sorghum	Reduces yield	Plain and hilly/ Subtropical	Rare	Rare	Fodder	Mechanical, Chemical	Nutritive Fodder for Animals	Exotic	Farmers
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
Wheat	Wheat seed gall nematodes	<i>Anguina tritici</i>		Cool & Moist Climate/ Farm fields	October- November/Rabi Crops			Cause of Ear Cockle Disease	Farmers
Wheat	Ghujia weevil	<i>Sitophilus granarius</i>	Keede	Warm climate/ Farm fields	October- November/Rabi Crops				Farmers
Wheat	Wheat aphid	<i>Sitobion miscanthi</i>		Cool & Moist Climate /Farm fields	Throughout the year			Sucks the sap from plants	Farmers
Wheat	Gram pod borer	<i>Helicoverpa armigera</i>	Pangukuta	Warm climate/ Farm fields	Dec-Jan				Farmers
Wheat	Termite	<i>Microtermes obesi</i>	Keediya	Cool & Moist Climate/ Farm fields	Rabi crops			Feed on root,stem of growing plants	Farmers
Wheat	Army worm	<i>Spodoptera frugiperda</i>	Ludi	Cool & Moist Climate/ Farm fields	Oct-Feb			Larvae feed on leaves, chewing from the edges to the midrib or on the heads of cereal plants	Farmers

Maize	Spotted stem borer	<i>Chilo partellus</i>	Ludi	Cool & Moist Climate /Farm fields	August				Farmers
Maize	Maize leaf hoppers	<i>Dalbulus maidis</i>	Tridda	Cool & Moist Climate/ Farm fields	Kharif				Farmers
Maize	Stem borer stalk	<i>Busseola fusca</i>	Ludi	Cool & Moist Climate/ Farm fields	Kharif				Farmers
Wheat,Sorghum, Maize and other Crops	cut worm	<i>Agrotis ipsilon</i>	ludi	Cool & Moist Climate/ Farm fields	Throughout the year	Chemical measures			Farmers
Maize and Bajra	Grasshopper	<i>Hieroglyphus nigrorepletus</i>	Tridda	Cool & Moist Climate/ Farm fields	July-Sep	chemical measures			Farmers
Maize and Pulses	Blister beetle	<i>Mylabris spp</i>	Ghori	Cool & Moist Climate/ Farm fields	Jun-Oct	Chemical measures			Farmers
All Crops	Field rat	<i>Rattus meltada</i>	chua	Cool & Moist Climate/ Farm fields	Throughout the year	Chemical measures		Live in burrows,hidden in bushes	Farmers
All Crops	Monkey	<i>Rhesus macaque</i>	Bander	Forest & Human Habitat	Throughout the year	Traps & chemosterilization		Cause extensive damage to almost all crops, attacks humans	Farmers



All crops	Wild boar	<i>Sus scrofa</i>	Jangli Suar	Cool &moist climate/ Forest	Throughout the year			Cause extensive damage to almost all crops	Farmers
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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	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
<p><b>Note: [1] (D) – day; (M) – month;</b>  <b>[2] Types of animals may include: Poultry / Sheep / Goats / Cattle / Ducks / Pigs / Donkeys / Mules / Horses / Camels / Others (Specify)</b></p>								

**Format 7: Peoplescape**

1	2	3	4	5	6	7	8	9	10	11
<b>Community &amp; Population</b>	<b>Families &amp; Major occupation</b>	<b>Sub- occupation</b>	<b>Depending Landscape</b>	<b>Major resources accessed and seasons of access</b>	<b>Landscape management practices</b>	<b>Resource management practices</b>	<b>Cast / tribe</b>	<b>Social condition</b>	<b>Nature of inhabitants</b>	<b>No. of HHs</b>
Hindu / Muslim	Farming/ Labour	Animal Husbandry	Agriculture Landscape	Agricultural resources of different nature	Plantation, Construction of Roads etc.	Seasonal Practices;Modern as Well as Traditional	SC, ST, OT	Average	Permanent Settlers and few Nomads	718
Population :2170(A cc. To 2011 Census)										
<p>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</p>										

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												
Agricultural land			Maize	Open land	Private	Wheat, maize, dal mash, bajra, soyabean, till	Monkey, rabbit, porcupine, rat, wild boar, pigeon, sparrow	Locals	Crop rotation, terrace farming	Food and fodder			locals	
			Orchid	Close land										locals
			Vegetable	Garden							Vegetables			locals
Forest land					Forest	Chir, Khair, Sissoo, Kamila, Bamboo, Simble & Trimal etc	Monkey, leopard, peacock, jackel & pig etc	Locals and nomadic grazers		Timber, medicines, fruit			Locals	
Fallow land					Forest/State									
Pond				Standing water for habitat of plants and animals	Forest/ State/ Private	Algae, pteridophytes, fungi, bryophyllum, water lilies, water hyacinth, bhang, grass	Fishes, Frogs, Snakes, Snails & Leech	locals	Desilting, dredging, blue pond dye	Drinking and irrigation purpose			Locals, Wild Animals	
Provide a brief description of landscapes such as forests, plantations, cultivated land, estuary, pond, lake or other elements														



Nallah			Private,forest land	Algae	Amphibians	Domestic purpose, Ecotourism	Locals &Wild animals					Locals,Wild Animals	
				Pteridophyte	Prawn								
				Water hyacinth	Snail								
				Fern	Snakes								
					Leech								
					Crab								
Bowlis			forest/ State/ Private land			Domestic purpose,drinking	Locals &Wild animals					Locals,wild animals	
Hand pump			Private/State land			Domestic purpose like drinking, Bathing etc	Locals					Locals	
Well			Private/State/ Forest land			Domestic purpose like drinking, Bathing etc	Locals					Locals	
Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,													



Format 11: Fruit Trees

1	2	3	4	6	7		8	9	10	11	12	13
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	Communit y/ Know. holder
					Past	Present						
Citrus Fruit	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	<i>Citrus spp.</i>	Local Selection, Kagzi Lime etc.	Plains, mid hills/Subtropical	Plenty	Plenty	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc	Fruit, Pickle, Squashes etc	Marketing, Own Use	Locals
Guava	Amrood	<i>Psidium guajava</i>	Local, L49 etc.	Plains, Lower Hills/ Subtropical	Plenty	Plenty	Nurseries	Jul - Aug	Fruit	Fruit	Own Use	Locals
Grapes	Angoor	<i>Vitis vinifera</i>	Local Dakh, Perlette	Plains, Mid Hills/ Subtropical	Rare	Plenty	Nurseries	Jul - Aug	Fruit	Fruit	Own Use	Locals
Aonla	Ambla	<i>Phyllanthus emblica</i>	Local Selection, NA-7	Plains/ Subtropical	Plenty	Plenty	Nurseries, Local Collections	Nov.- Dec	Pickling Preserve etc	Pickling Preserve etc	Marketing, Own Use	Locals
Ber	Ber	<i>Ziziphus mauritiana lamk</i>	Gola, Varanasi	Plains/ Subtropical	Plenty	Plenty	Local	Jul - Aug	Fruit	Fruit	Own Use	Locals
Jamun	Jamun	<i>Syzygium cumini</i>	Local Selection	Plains/ Subtropical	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit	Fruit	Own Use	Locals
Pomegran ate	Anaar, Druni	<i>Punica granatum</i>	Ganesh, Kandhari, Local	Hills, Plains/ Subtropical	Rare	Rare	Nurseries, Local Raised, Wild	May - Aug	Fruit, Anardana	Fruit, Anardana	Own Use	Locals
Peach	Aaroo	<i>Prunus persica</i>	July Elberta, Quetta	Hills, Plains/ Subtropical	Rare	Plenty	Nurseries	Jun - Jul	Fruit	Fruit	Own Use	Locals
Karonda	Garnay	<i>Carissa carandas</i>	Local	Hills, Plains/ Subtropical	Rare	Rare	Wild, Local	Jun - Aug	Fruit	Fruit	Own Use	Locals
Banana	kela	<i>Musa paradisiaca</i>	Local	Plains, hills/ Subtropical	Rare	Rare	Locally raised	Sep-Jan	Fruit	Fruit	Own Use	Local people
Loquat	Lgaath	<i>Eriobotrya japonica</i>	Local	Plains, hills/ Subtropical	Normal	Normal	Locally raised	Sep-Jan	Fruit	Fruit	Own Use	Local people
Apple	Seb	<i>Malus pumila</i>	HRMN-99	Plains, hills/ Subtropical	Rare	Rare	Locally raised	June-Aug	Fruit	Fruit	Own Use	Local people
Pear	Naashpati	<i>Pyrus communis</i>	Local	Plains, hills/ Subtropical	Rare	Rare	Locally raised	July -Oct	Fruit	Fruit	Own Use	Local people
Litchi	Litchi	<i>Litchi chinensis</i>	Local	Plains, hills/ Subtropical	Rare	Moderate	Locally raised	July-August	Fruit	Fruit	Own Use	Local people



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	Datura	<i>Datura stramonium</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate	Seeds are analgesic, antihelminthic and anti-inflammatory so they are used in treatment of stomach & intestinal pain	Fruit/ Flowers/ Leaves/ Seeds	Leaves and fruits are offered to Lord Shiva on Special Days	Own use	Local people
Shrub	Aak	<i>Calotropis gigantea</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Leaves and milk is beneficial for skin related problems	Leaves/ Flowers	Leaves and Flowers are offered to Lord Shiva on Special days. Wood is used in Havan	Own use	Local people
Shrub	Nagfani (Cactus)	<i>Opuntia ficus-indica</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate		Leaves		Own use	Local people
Shrub	Amaltas	<i>Cassia fistula</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate			diabetes	Own use	Local people
Shrub	Billan	<i>Aegle marmelos</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Unripe fruits are used to make medicine	Leaves	Leaves are offered to Lord Shiva	Own use	Local people
Tree	Jammun	<i>Syzygium cuminii</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Rare		Fruit	Increases Hemoglobin count	Own use	Local people
Herb	Tulsi	<i>Ocimum sanctum</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Useful against common ailments like Common Cold, fever, cough, heart diseases, stomach disorders, kidney stones	Leaves	Considered Sacred acc. To Hindu Religion ; Used in funeral Ceremony in Hindu Community	Own use	Local people
Herb	Pudina	<i>Mentha spp.</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Fresh & Dried Leaves are used to make Chutney	Leaves	Treat indigestion	Own use	Local people

Shrub	Black berry	<i>Rubus allegheniensis</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate		fruits	Diarrhoea treatment	Own use	Local people
Shrub	Kakkar Singhi	<i>Pistacia khinjuk</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Rare	Rare		stem	Treating bronchitis	Own use	Local people
Shrub	Rumbal	<i>Ficus racemosa</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Fruits are edible and leaves are used for fodder	Root/ Wood/ Fruits	Wood is used in Havan and fruits are extensively eaten by monkeys	Own use	Local people
Tree	Trimbal	<i>Ficus auriculata</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Leaves are used for fodder and for plates	Fruit/ Leaves	Indigestion treatment	Own use	Local people
Tree	Fakor	<i>Ficus Palmata (Edible)</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Moderate	Fruits are edible	Fruit	Fruit is useful against stomach disorders	Own use	Local people
Tree	Bhor	<i>Ficus bengalensis</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Rare	Rare	Known for its broadest Canopy	Leaves, fruit	Treat diseases of blood and head, ulcers	Own use	Local people
Tree	Aamla	<i>Emblica officinalis</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Amla is rich in Vit. C which helps in improving immunity; Effective against jaundice too. Used in pickle; wood is used in Havan	Fruit/ Wood	Take an iron utensil add some water, put amla in it. keep it for some time & then use this water for hair washing. Hair will look black & it gives cooling effect too.	Own use	Local people
Tree	Behra	<i>Terminallia bellirica</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate		Fruit	Respiratory diseases	Own use	Local people
Shrub	Harad/Reed	<i>Terminalia chebula</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Rare	Known to increase appetite & improves digestion and absorption	fruit	Used as a vegetable and pickle. Used to treat dry cough	Own use	Local people
Shrub	Kakoa	<i>Flacourtia indica</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Moderate	Fruits are edible & leaves used as fodder for Sheep & Goats	fruit/ Leaves	Use in snake bite	Own use	Local people

Tree	Kamila	<i>Mallotus phillippensis</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good		fruit	Skin diseases	Own use	Local people
Shrub	Kayora	<i>Agave americana</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate	Intestinal gas & constipation	fruit/Leaves	Historically its leaves were used to make Ropes which were used to tie domestic animals to its place(pole)	Own use	Local people
Shrub	Kainth	<i>Pyrus pashia</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Moderate	Moderate	fruit is edible and leaves served as a fodder for sheep & goats	fruit	Fever, headache	Own use	Local people
Tree	Thor	<i>Euphorbia royleana</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Central portion of stem is used in making subzi & Pickle	stem	Paralysis ,earpain etc	Own use	Local people
Herb	Kwaadgndl	<i>Aloe barbadensis miller</i>		Plains & Lowland Valleys/Subtropical	Department/Private Suppliers	Good	Good	Possess antibacterial, antiviral & antiseptic properties	Gel of Leaves	Used against Skin related problems	Own use	Local people
Tree	Neem	<i>Azadirachta indica</i>		Lower shiwalik	Department/Private Suppliers	Moderate	Rare	leaves used to treat skin diseases	Leaves/ Bark	Dried neem leaves are mixed with the stored grains to protect them from insect pests	used as a teeth cleaning twig as it help to prevent tooth decay	Local people
Tree	Kalyaad	<i>Bauhinia variegata</i>		Lower shiwalik	Department/Private Suppliers	Moderate	Moderate	flowers & buds are antihelminthic	Leaves/ Flower	flowers and buds are boiled, added in curd and eaten as a recipe(Raita)	Own use	Generally, held by community
<p>Note: Uses: Food/ Veterinary Medicine./ Human Medicine (Sub-divisions like for children, women etc),/ Agricultural Purpose (Bio-pesticide)  Other details: Propagation methods, / Harvesting period,/ Cultivated or collected from wild or both,/ Perennial/annual/seasonal</p>												



**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					
Tree	Chir	<i>Pinus roxburghii</i>	Subtropical	Good	Good	Wild	Timber	Pine needle Vases are made	used for fuel wood,torch wood,funeral wood & furniture	Bakerwal,locals
Tree	Khair	<i>Acacia catechu</i>	Subtropical	Good	Good	Wild	Timber	Medicinal (Katha)		Locals
Tree	Kambel	<i>Lanea coromandelica</i>	Subtropical	Good	Good	Wild	Timber			Bakerwal,Locals
Tree	Tuni	<i>Toona ciliata</i>	Subtropical	Good	Good	Wild	Timber			Locals
Tree	Kamila	<i>Mallotus philippensis</i>	Subtropical	Good	Good	Wild	Timber	Medicinal		Local natives of area
Tree	Phulai	<i>Acacia modesta</i>	Subtropical	Good	Good	Wild	Timber	As tooth brush		Local natives of area
Tree	Draink	<i>Melia azedarach</i>	Subtropical	Good	Good	Wild	Timber	Dried leaves are mixed with the stored grains to protect them from insect pests		Local natives of area
Tree	Toot	<i>Morus alba</i>	Subtropical	Good	Good	Wild	Timber	Mulberry leaves are primary food source of Silkworm	Twigs used for making Baskets	Local natives of area
Tree	Tali	<i>Dalbergia sissoo</i>	Subtropical	Good	Good	Wild	Timber			Local natives of area
Tree	Safeda	<i>Eucalyptus</i>	Subtropical	Good	Good	Wild	Timber	Used for Construction purposes		Local natives of area
Tree	Akhrot	<i>Juglans regia</i>	Subtropical	Rare	Rare	Wild	Timber	Edible fruit		Local natives of area
Tree	Khirak	<i>Celtis australis</i>	Subtropical	Good	Good	Wild	Timber	Fodder/Fuel		Local natives of area
Tree	Simbal	<i>Bombax ceiba</i>	Subtropical	Good	Good	Wild	Timber	Wood is used for ply		Local natives of area
Trees	Kiker	<i>Acacia nilotica</i>	Subtropical	Rare	Rare	Wild	Timber	Fuel/Shade/Fodder	nil	Generally, held by community
Trees	Sree	<i>Albizia lebbeck</i>	Subtropical	Good	Good	Wild	Timber	Leaves used for fodder	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					
Cattle	Desi Gau	<i>Bos indicus</i>	local	Pronounced hump, long wide ears, large dewlap	stall feeding	Plenty	Rare	Dairy		Yes	Milk	Locals
	Jersey Gau	<i>Bos taurus</i>	CB Jersey	small in size,light brown in color	stall feeding	Normal	Normal	Dairy		Yes	Milk	Locals
	Amrecan Gau	<i>Bos taurus</i>	CB HF	Black &White Spot	stall feeding	Normal	Increased	Dairy		Yes	Milk	Locals
	Daand/Ox	<i>Bos taurus indicus</i>	Local	Fatty hump on their shoulders	stall feeding	Normal	Rare	Ploughing		No	Ploughing	Locals
Buffalo	Manj	<i>Bubalus bubalis</i>	Both	Large Size	Stall feeding	Medium	Medium	Milk		Yes	Nil	Locals
Goat	Bakri	<i>Capra hircus</i>	Both	Herbivorous.hollow horned	open herd of Goats	Medium	Medium	Milk/ Meat		Yes	Nil	Locals
Sheep	Pid	<i>Ovis aries</i>	Both	Herbivorous,highly developed flocking instinct	Open flock of sheep	Medium	Medium	Wool/Meat		Yes	Nil	Locals
Poultry	Kukkar	<i>Gallus domesticus</i>	local	Enriched meat flavour	Backyard	Normal	Decreased	Egg,Meat		Yes	egg,meat	Locals
	Broiler	<i>Gallus domesticus</i>	hybrid	white color fast growing	Backyard	Normal	Increased	Egg,Meat		Yes	egg,meat	Locals
Dog	kutta	<i>Canis familiaris</i>	local	black colored mostly	Pet,Stray	Normal	Normal	kept for guarding purpose		No		Locals
Cat	billi	<i>Felis catus</i>	local	Grey/white color Carnivores	pet/stray	Normal	Rare	pet		No		Locals
Horse	Kode	<i>Equus spp.</i>	local	Brown/Black/White colored	stall feeding	Normal	Rare	Cart,means of transportation		Some	Cart	Locals
Mule	Khacchar	<i>Equus mulus</i>	local	Heads are shorter,thicker &more closely resemble that of a donkey.Known for hardiness &docile nature	stall feeding	Normal	Rare	Working Animals,Cart;used to ferry people &goods		No	Means of transportation	Locals
Uses include milk, meat, skin, fur and etc												

**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					

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					
Evergreen Woody Perennial	Santha	<i>Dodonaea viscosa</i>	Shrub	Subtropical	Good	Good	Own use	Leaves	Cordage & Soil binder; Leaves used to reduce Swelling	Twigs used to make brooms which are used to clean Kutchha house (made for domestic animals)	Locals
Perennial	Brenker	<i>Adhatoda vasica</i>	Shrub	Subtropical	Good	Good	Own use	Leaves	Use in ripening of fruit	After Sowing of Vegetable seeds its been covered with Brenker leaves to stimulate Germination	Locals
Annual	Bhang	<i>Cannabis sativa</i>	Herb	Subtropical	Good	Good	Own use	Leaves	Sedative	Thandai, a beverage made up of bhang leaves is savoured on Shivaratri	Locals
Annual & Short Lived Perennial	Dhatura	<i>Datura metel</i>	Herb	Subtropical	Good	Good	Own use	Flower/Fruit	Aesthetic value and Religious Value	Used in Worshipping of Lord Shiva	Locals
Perennial	Thor	<i>Euphorbia royleana</i>	Shrub	Subtropical	Good	Good	Own use	Stem	Food(mixed with curd)		Locals
Annual/ Perennial	Akk	<i>Ipomea carnea</i>	Shrub	Subtropical	Good	Good	Own use	Root	Live hedge	Ornamental	Locals
Annual	Jari	<i>Parthenium hysterophorus</i>	Shrub	Subtropical	Good	Good	Own use		Weed		Locals
Perennial	Daduni	<i>Punica granatum</i>	Plant	Subtropical	Good	Good	Own use	fruit	Anardana		Locals
Annual /Perennial	Jojra	<i>Pupalia lappacea</i>	Herb	Subtropical	Good	Good	Own use	Leaves	Weed		Locals
Perennial	Bana	<i>Vitex nigundo</i>	Shrub	Subtropical	Good	Good	Own use	leaves	Aesthetic value , biopesticide ,Spiritual value, Fuel wood	Leaves are hanged on Doors on Diwali night.Spiritual healers use twig of Bana while reciting Mantras	Locals

Annual,biennial or Perennial	Timbru	<i>Zanthoxylum alatum</i>	Shrub	Subtropical	Good	Good	Own use	Fruit/Twig/ Seeds	Appetite booster ;used in chutney	Twigs used as a tooth stick for cleaning tooth;Wood is used in making paste(Danda) for grinding spices	Locals
Annual or Perennial	Amarbel	<i>Cuscuta reflexa</i>	Herb/ Subshrub	Subtropical	Good	Good	Own use	Stem	Medicinal		Locals
Perennial	Doab grass	<i>Cynodon dactylon</i>	Shrub	Subtropical	Good	Good	Own use	Leaves	Fodder		Locals
Perennial	Puthkanda	<i>Achyranthes aspera</i>	Herb	Subtropical	Good	Good	Own use	Stem/ Seeds/ Roots & Leaves	Aesthetic and Religious Value		Locals
Perennial	Kai	<i>Saccharum spontaneum</i>	Grass	Subtropical	Good	Good	Own use	Leaves	Aesthetic	used in making of Huts	Locals
Perennial	Giloe/ Gdund	<i>Tinospora cordifolia</i>	Climbing Shrub	Subtropical	Good	Good	Own use	Stem	Stomach treatment	Immunity booster;used against Typhoid fever	Locals
Perennial	Tulsi	<i>Ocimum sanctum</i>	Herb	Subtropical	Good	Good	Own use	Leaves	Aesthetic, Medicinal value & Religious Value	Considered Sacred in Hindu Religion.Tulsi Leaves extract is helpful against fever, Cold, Heart diseases, stomach disorders, kidney stones etc	Locals
Annuals	Tori	<i>Luffa cylindrica</i>	Climber	Subtropical	Good	Good	Own use	Fruit	Food	Highly fibrous vegetable	Locals
Perennial	Kasrod	<i>Diplazium esculentum</i>	Shrub	Subtropical	Good	Good	Own use	Fruit	Food		Locals
Annual	Chaleri saag	<i>Amaranthus viridis</i>	Shrub	Subtropical	Good	Good	Own use	Leaves	Grazing/Food	Eaten as a green Vegetable	Locals
Perennial	Ber	<i>Ziziphus jujuba</i>	Tree	Northern/ Sub-Tropical	Good	Good	Own use	Fruit	-	-	Local people
Deciduous	Plash/Plaa	<i>Butea monosperma</i>	Tree	Northern/ Sub-Tropical	Good	Good	Own use	Timber/ Firewood	Bark/Gum used to treat ulcers	leaves used for making plates & in Kriya karam (funeral ceremony in Hindu religion)	Local people
Perennial Evergreen	Garna/ Grunday	<i>Carissa spinarum</i>	Shrubs	Northern/ Sub-Tropical	Good	Good	Own use	Fruit/Fuel wood	Fruits are edible	leaves used for fodder	Local people

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

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance (as economic, social, cultural etc.)	Status
1	Tarad	<i>Dioscorea belophylla</i>		Food	Good
2	Simbal	<i>Bombax ceiba</i>		economic	Good
3	Pulah	<i>Butea monosperma</i>		Food wrapping items, cultural, aesthetic	Good
4	Krangal	<i>Cassia fistula</i>		Medicinal importance	Good
5	Safeda	<i>Eucalyptus citrodora</i>		Reduce cough,cold etc	Rare
6	Trimbali	<i>Ficus auriculata</i>		Fodder,fruit	Good
7	Bohar	<i>Ficus bengalensis</i>		Medicinal, cultural Aesthetic	Good
8	Fagora	<i>Ficus palmata</i>		Edible fruit,medicinal	Good
9	Rumble	<i>Ficus racemosa</i>		Healing power, used in tongue sore	Good
10	Kakoa	<i>Flacourtia indica</i>		Used in snakebite,arthritis	Good
11	Dhaman	<i>Grewia optiva</i>		Leaf fodder	Good
12	Kamila	<i>Mallotus philippensis</i>		As dye,antioxidant	Good
13	Aam	<i>Mangifera indica</i>		Fruit	Rare
14	Draink	<i>Melia azedarach</i>		Medicinal &,timber value	Good
15	Toot	<i>Morus alba</i>		Timber	Good
16	Chir	<i>Pinus roxburghii</i>		Timber,resin,medicinal	Good
17	Jamun	<i>Syzigium cumini</i>		Fruit,medicinal	Good
18	Ber	<i>Zyzyphus jujuba</i>		Food, medicinal	Good
19	Reetha	<i>Sapindus mukorossi</i>		Medicinal value	Good
20	Baans	<i>Dendrocalamus strictus</i>		Sticks used for construction &Fencing	Good
21	Khajuri	<i>Phoenix sylvestris</i>		leaves used for making baskets,hand fans,floor mats etc	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				
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	Water hyacinth	<i>Eichhornia crassipes</i>		Use as eggcollector in breeding of fish	
2	Water lettuce	<i>Pistia stratiotes</i>		Use as eggcollector in breeding of fish	
3	Lucky 4-leaf clover	<i>Marsilia mutica</i>		-----	
4	Penny wort	<i>Bacopa monnieri</i>		-----	
5	Water poppy	<i>Hydrocleys nymphoides</i>		-----	

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	Datura	<i>Datura stramonium</i>		Low land valleys/ Subtropical	Good	Good	Used in pooja	Medicinal, Religious	Fruit	Own use	Local people
Tree	Billan	<i>Aegle marmelos</i>		Low land valleys/ Subtropical	Good	Good	Liver tonic, Used in worship of Lord Shiva	Medicinal, Religious	Fruit	Own use	Local people
Shrub	Banah	<i>Vitex negundo</i>		Low land valleys/ Subtropical	Good	Good	Pesticide	Medicinal, Spiritual	Leaves	Own use	Local people
Shrub	Timru	<i>Xanthoxylum alatum</i>		Low land valleys/ Subtropical	Good	Good	Appetite booster, used in chutney	Medicinal	Fruit	Own use	Local people
Tree	Fakor	<i>Ficus palmata</i>		Low land valleys/ Subtropical	Good	Good	good for digestion	Medicinal	Fruit	Own use	Local people
Tree	Trimbal	<i>Ficus auriculata</i>		Low land valleys/ Subtropical	Good	Good	Fodder	Medicinal	fruit	Own use	Local people
Tree	Behra	<i>Terminalia bellirica</i>		Low land valleys/ Subtropical	Good	Good	trifla	Medicinal	Fruit	Own use	Local people
Tree	Harad/ Reed	<i>Terminalia chebula</i>		Low land valleys/ Subtropical	Good	Good	Trifla	Medicinal	Fruit	Own use	Local people
Tree	Amla	<i>Emblica officinale</i>		Low land valleys/ Subtropical	Good	Good	Trifla	Medicinal, Pickling	Fruit	Own use	Local people
Shrub	Kakoa	<i>Flacourtia Indica</i>		Low land valleys/ Subtropical	Good	Good	Immunity booster	Medicinal	Fruit	Own use	Local people
Shrub	Thor	<i>Euphorbia royleana</i>		Low land valleys/ Subtropical	Good	Good	After peeling from all sides ,central portion is used for cooking	Medicinal	Stem	Own use	Local people

Tree	Phulai	<i>Acacia modesta</i>		Low land valleys/ Subtropical	Good	Good	Used as a teeth cleaning twig	Medicinal	Branches	Own use	Local people
Shrub	Anardana/ Daduni	<i>Punica granatum</i>		Low land valleys/ Subtropical	Good	Good	Chutney	Medicinal	Fruit	Own use	Local people
Herb	Kayora	<i>Agave Americana</i>		Low land valleys/ Subtropical	Good	Good	Pickles/Ropes	Medicinal	Fruit	Own use	Local people
Herb	Kainth	<i>Pyrus pashia</i>		Low land valleys/ Subtropical	Good	Good	Wild fruit	Medicinal	Fruit	Own use	Local people
Herb	Bhang	<i>Cannabis sativa</i>		Low land valleys/ Subtropical	Good	Good	Sedative	Medicinal,Reli gious	Leaves	Own use	Local people
Shrub	ber	<i>Zyziphus jujuba</i>		Low land valleys/ Subtropical	Good	Good	Leaves are nutritious fodder for goats	Medicinal	Fruit	Own use	Local people
Shrub	Brenkad	<i>Adhatoda vasica</i>		Low land valleys/ Subtropical	Good	Good	Pesticide	Medicinal	leaves	Own use	Local people
Herb	Pudina/ Puttna	<i>Mentha spp.</i>		Low land valleys/ Subtropical	Good	Good	Improve appetite	Medicinal	leaves	Own use	Local people
<p>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</p>											





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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
Ashoka tree	<i>Polyalthia longifolia</i>	Wild	Subtropical	Ornamental	-		Local
Morpankhi	<i>Platyclusus orientalis</i>	Wild	Subtropical	Ornamental			Local
Saptarni tree	<i>Alstonia scholaris</i>	Wild	Subtropical	Ornamental	-		Local
Red bottle brush	<i>Callistemon citrinus</i>	Wild	Subtropical	Ornamental	-		Local
Money plant	<i>Epipremnum aureum</i>	Wild	Subtropical	Ornamental	-		Local
Life plant	<i>Bryophyllum pinnatum</i>	Wild	Subtropical	Ornamental	-		Local
Surajmukhi	<i>Helianthus annuus</i>	Wild	Subtropical	Edible oil	-		Local
Gulaab	<i>Rosa spp.</i>	Wild	Subtropical	ornamental	-		Local

China rose	<i>Hibiscus rosa-sinensis</i>	Wild	Subtropical	ornamental			Local
Bougainvillea	<i>Bougainvillea glabra</i>	Wild	Subtropical	Ornamental	-		Local
Amaltas	<i>Cassia fistula</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
African daisy	<i>Senecio pterophorus</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Cheeseberry	<i>Rubus ellipticus</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Paper mulberry	<i>Broussonetia papyrifera</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Garden violet	<i>Viola odorata</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Indian Borage	<i>Trichodesma indicum</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
South african daisy	<i>Senecio inaequidens</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Thistle	<i>Sonchus asper</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Creeping wood sorrel	<i>Oxalis corniculata</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people

Indian Sweet Clover	<i>Melilotus indicus</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Melancholy thistle	<i>Cirsium heterophyllum</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Indian fumitory	<i>Fumaria parviflora</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people
Spanish needle	<i>Bidens alba</i>	Wild	Subtropical	Ornamental/ Medicine	-----		Local people











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					
Bird	Eil	<i>Aegyptius monachus</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Few	Scavanger				Local natives of area
Insect	Titli	<i>Précis hierta</i>	Northern/ Sub-Tropical	Arboreal Herbivore	Throughout the year	Good	Good	Nector collector				Locals
Insect	Trida	<i>Poecilocerus pictus</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good	Pollination				Locals
Bird	Jangli Murga	<i>Gallus gallus domesticus</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good	Eggs				Bakerwal
Bird	Kaa	<i>Corvus splendens</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good					Bakerwal
Bird	Papiya	<i>Clamotor jacobinus</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good	Pollination				Locals
Insect	Demak	<i>Cryptotermes domesticus</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	Decomposer				Locals
Insect	Kronkal	<i>Scolopendra morsitans</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	Decomposer				Locals
Mammal	Khargosh	<i>Lepus nigricolis</i>	Northern/ Sub-Tropical	Herbivore	Throughout the year	Good	Good	Meat				Locals
Mammal	Chamgadard	<i>Pteropus giganteus</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	pollination				locals
Bird	Gtaary	<i>Acridotheres tristis</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	Pollination				Locals
Mammal	Gedhad	<i>Canis aureus</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	Carnivorous				Locals
Mammal	Gilhari	<i>Fanambulus pennatii</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good					Locals
Insect	Chakki	<i>Helix aspersa</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	Pollination				Locals

Bird	Bagla	<i>Bubalcuribis</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good	Scavenger				Locals
Amphibian	Mendak	<i>Rana tigrina</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	Scavenger				Locals
Insect	Madhumakhi	<i>Apis dorsata</i>	Northern/ Sub-Tropical	Herbivore	Throughout the year	Good	Good	Honey				Locals
Bird	Mor	<i>Pavo cristatus</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good	Aesthetic value				Locals
Reptiles	Saamp	<i>Naja naja</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Good	Good	.....				Locals
Mammal	Bander	<i>Simiformes catarrhini</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good	.....	Pest ;cause extensive damage to all crops			Locals
Mammal	Leopard	<i>Panthera pardus</i>	Northern/ Sub-Tropical	Carnivore	Throughout the year	Rare	Rare	.....				Locals
Mammal	Paada	<i>Muntiacus muntjak</i>	Northern/ Sub-Tropical/Wild	Rib faced deer	Throughout the year	Good	Rare	Meat				Local people
Mammal	Wild Boar	<i>Sus scrofa</i>	Northern/ Sub-Tropical	Omnivore	Throughout the year	Good	Good		Pest; cause extensive damage to all crops			Locals
Mammal	Porcupine/Say	<i>Erethizon dorsatum</i>	Northern/ Sub-Tropical	Porcupines have soft hair but on their back,sides &tail it is mixed with sharp quills	Throughout the year	Good	Good	Meat	-	-	destroy maize crop	Local people
Insects	ants/Keediya	<i>Brachymyrmex patagonicus</i>	Northern/ Sub-Tropical	Common insects	Throughout the year	Good	Good	-	-	-	-	Local people
Insects	Wasp/ Tarmudi	<i>Polistes versicolor</i>	Northern/ Sub-Tropical	Predatory :captures insects &feed on pollen &nectar	Throughout the year	Good	Good	It can be useful as a pollinator or as effective pest control				Local people
Reptiles	Monitor lizard/Kro	<i>Varanus spp</i>	Northern/ Sub-Tropical	Possess an elongated head &neck,heavy body,long tail,well developed legs	Throughout the year	Good	moderate					Local people
Reptiles	Kilkodi/ Kirli/Chipkli	<i>Hemidactylus frenatus</i>	Northern/ Sub-Tropical	The bulk of the diet of lizard is made up of invertebrate (cockroaches,termites,bees,wasps etc)	Throughout the year	Good	moderate					Local people

wild animal	Nyol	<i>Herpestes edwardsii</i>	Northern/ Sub-Tropical	lives in burrows, hedgerows & thickets among groves of trees	Throughout the year	Good	decreased					Local people
Birds	Indian cuckoo	<i>Cuculus micropterus</i>	Northern/ Sub-Tropical	solitary & Shy Bird	Throughout the year	Good	decreased					Local people
Birds	Koel	<i>Eudynamis scolopaceus</i>	Northern/ Sub-Tropical	long tailed cuckoo, very vocal during the breeding season	Throughout the year	Good	decreased					Local people
Birds	Quail/Batere	<i>Coturnix coturnix</i>	Northern/ Sub-Tropical	They have small heads & short broad wings along with long & square tail	Throughout the year	Good	decreased	Meat				Local people
Birds	Grey francolin/Titri	<i>Francolinus pondicerianus</i>	Northern/ Sub-Tropical	They are terrestrial birds that feed on insects, vegetable matter & seeds	Throughout the year	Good	few	Meat				Local people
Birds	Kabutr	<i>Columba spp</i>	Northern/ Sub-Tropical	They possess boat shaped streamlined body that is well adapted for aerial life	Throughout the year	Good	Good					Local people
Birds	Papiha	<i>Hierococcyx varius</i>	Northern/ Sub-Tropical	Medium sized cuckoo	Throughout the year	Good	moderate					Local people
Birds	Dove/Kuggi	<i>Columba spp.</i>	Northern/ Sub-Tropical	Relatively stout bodies with short legs & short beaks	Throughout the year	Good	moderate					Local people

Format 29: Flora

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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 30: Fauna

1	2	3	4	5	6
Sr. No.	Local Name	Scientific Name	Type of Animals (Mammals / Birds / Fish / Insect etc.)	Habitat	Remarks (Rare / Common etc.)

**Note:** Separate format should be used for road side plantation - habitat / 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**

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

*End of Part II*