

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

Name of the Panchayat Samity: **KEWA**

Taluk: **BUNJWAH**

District: Kishtwar

UT: Jammu & Kashmir

Geographical Area of the Panchayat Samity: 5.5 sq km

Population under the Panchayat Samity: Total = 2410

Male: 1300

Female 1110

Habitat and Topography: Hilly terrain

Climate (Rainfall, Temperature and other weather patterns) Land Use (Nine fold classification available with village records) Date, Month and Year of PBR preparation: 14/09/2022

Management Regime: Reserve Forests (RF) / Joint Forest Management (JFM) / Protected Areas (PA) / Community Owned and Managed Forests (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: Ved Raj

Age: 72

Gender: Male

Address: Kewa

Area of specialization:

2) Name: Masheera Begum

Age: 32 years

Gender: Female

Address: Kewa

Area of specialization:

3) Name: Amina Begum

Age: 42 years

Gender: Female

Address: Kewa

Area of specialization: Housewife

4) Name: Nisha Devi

Age: 40 years

Gender: Female

Address: Kewa

Area of specialization: Agriculture

5) Name: Mohd Shafi

Age: 58 years

Gender: Male

Address: Kewa

Area of specialization: Agriculture

6) Name: Altaf Hussain

Age: 40 Years

Gender: Female

Address: Kewa

Area of specialization: Agriculture

7) Name: Ahrar Toyeb

Age: 29 years

Gender: Male

Address: Kishtwar

Area of specialization: RDD

## Annexure 2

<b>List of Vaid, hakims and traditional health care (human and livestock) practitioners residing and or using biological resources occurring within the jurisdiction of the village</b>
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Name:
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Age:
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Gender:
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Address:
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Area of Specialization:
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Location from which the person accesses biological material: -Forest
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Perception of the practitioner on the resource status: Medicinal use
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Name:
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Age:
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Gender:
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Address:
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Area of Specialization: traditional healthcare
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Location from which the person accesses biological material: Forest
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Perception of the practitioner on the resource status: Medicinal use: treatment of fracture etc.
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Name:
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Age:
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Gender:
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Address:
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Area of Specialization:
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Location from which the person accesses biological material: Forest
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Perception of the practitioner on the resource status: Medicinal use:
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### Annexure 3

<b>List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry</b>
Name:- Sewa Ram
Age:55
Gender:
Address: Kewa
Area of specialization:
Name:
Age:35
Gender:
Address:
Area of specialization:HORTICULTE
Name:
Age:
Gender:
Address:
Area of specialization:
Name:
Age:
Gender:
Address:
Area of specialization:

## Annexure4

<b>Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR</b>
1) Contact Person Name and Address:
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

**Annexure5****Details of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefits derived and the mode of theirsharing**

<b>S No</b>	<b>Name and address of the Person /institution/ 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>Details of collection fee imposed</b>	<b>Anticipated mode of sharing benefits or quantum of</b>

**Part II**  
**PBR – Formats**  
**AGROBIODIVERSITY**

**Format 1: Crop Plants**

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Approx. area shown	Local Status		Special features	Cropping season	Uses	Associated TK	Other details	Source of Seeds/Plants	Community/ Knowledge Holder
						Past	Present							
Rice	<i>Oryza sativa</i>	Dhan / tamul	Veliyan	Temperate conditions	NA	Plenty	Rare	Tall, high yield variety resistant to drought,pests & diseases	Aug-Sept	Food, Fodder	Provides more energy	Not-known	Local preserved	Locals/ Deptt. Of Agriculture
Wheat	<i>Triticum aestivum</i>	Gundam	Local	Temperate conditions	NA	Plenty	Plenty	-do-	May-June	Food, Fodder	Provides more energy	Not-known	Local preserved / Agriculture Deptt.	Locals/ Deptt. Of Agriculture
Barley	<i>Hordeum vulgare</i>	Jow	Local	Temperate conditions	NA	Plenty	Rare	Tall, high yield variety resistant to drought,pests & diseases	May-June	Food, Fodder	Provides more energy	Not-known	Local preserved	Locals/ Deptt. Of Agriculture
Maize	<i>Zea mays</i>	Makki	Local	Temperate conditions	NA	Plenty	Plenty	-do-	Sept-Oct	Food, Fodder	Provides more energy	Not-known	Local preserved	Locals/ Deptt. Of Agriculture
Oat	<i>Avena sativa</i>	Lawn	Local	Temperate conditions	NA	Rare	Plenty	-do-	May-June	Food, Fodder	Provides more energy	Not-known	Local preserved / Agriculture Deptt.	Locals/ Deptt. Of Agriculture
Beans	<i>Phaseolus vulgaris</i>	Rajmash	Local	Temperate conditions	NA	Plenty	Plenty	Resistant to drought, pests & diseases	Sept-Oct	As vegetable and pickle	Provides more energy	Not-known	Local preserved	Locals/ Deptt. Of Agriculture
Cucumber	<i>Curmis sativus</i>	Khira	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty		Aug-Sept	Eaten raw as a salad	Nutritious value	Commercial/ own use	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture

Radish	<i>Raphanus sativus</i>	Mooli	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	NA	2-3 crops in a year	Eaten raw, used as vegetable and pickle making	Used as a remedy to treat jaundice	Rich source of antioxidants and minerals	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture
Tomato	<i>Lycopersicum esculentum</i>	Tamatar	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	NA	July-Sept	As vegetable and ketchup	Rich in vitamin C and Lycopene	NA	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture
Kale	<i>Brassica oleracea</i>	Haak	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	Twice in a year	Relished as pickle and as vegetable	Rich in fibre	NA	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture
Bottle gourd	<i>Lagenaria siceraria</i>	Ghiya	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable	Good for health	NA	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture
Potato	<i>Solanum tuberosum</i>	Aalu	Local pahadi aalu	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable	Rich in proteins and carbohydrates	NA	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture
Green Chilly	<i>Capsicum annum</i>	Mirchi	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable and pickle	Improve immune system	NA	Local preserved / Seed shops	Locals/ Deptt. Of Agriculture
Pumpkin	<i>Cucurbita moschata</i>	Kaddu	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable	Good for digestion and immune system	NA	Local preserved / Seed shops	Locals and Deptt. Of Agriculture



**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 (Ripening)	Associated TK	Uses	Other details market/own use	Community / Knowledge holder
					Past	Present						
Apple	<i>Malus domestica</i>	Saib	Red delicious, Golden delicious, Ambri	Lowland valley / home gardens	Plenty	Plenty	Local preserved / Horticulture Deptt./ Pvt. Nursery	Aug-Sept	Reducing cholesterol, lowering blood sugar level	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Apricot	<i>Prunus armeniaca</i>	Khubani	Safeda, Qadri	-do-	Plenty	Rare	Local preserved / grafting	June-July	Cures heart diseases	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Walnut	<i>Juglans regia</i>	Akhroot	Local	Lowland valley / Agricultural land	Plenty	Plenty	Local preserved / Horticulture Deptt.	Aug-Sept	Reduces prostate cancer and diabetes	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Pear	<i>Pyrus communis</i>	Tang	Babugosha, Moti Daddi, Half red Naak, Misri Tang	-do-	Plenty	Moderate	Local preserved / grafting	Aug-Sept	Uses for mild digestion problems, diarrhea, severe cholera	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Pomegranate	<i>Punica granatum</i>	Anardana	Local wild / Ganesh, Kandhari	-do-	Plenty	Rare	Local preserved	Sept-Oct	Provides more energy	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Plum	<i>Prunus domestica</i>	Alu Bukhara	Santa Rosa / Local	Agriculture land	Rare	Rare	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Quince	<i>Cydonia oblonga</i>	Beehi	Local	Agriculture land	Plenty	Rare	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	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					
Oak	<i>Quercus ilex</i>	Heru	Lowland / Forest	Plenty	Plenty	Natural propagation	Green leaves as fodder which provides more energy to livestock	Green Leaves	Also used as fuel wood & soil binder	Locals
Robenia	<i>Robinia pseudoacacia</i>	Kikar	Lowland / Forest	Common	Common	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also a good soil binder plant	Locals
Ban oak	<i>Aescules indica</i>	Gug	Lowland / Forest	Common	Rare	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	Locals
Ailanthus	<i>Ailanthus altissima</i>	Fak kul	Lowland / Forest	Plenty	Plenty	Natural propagation	-do-	Green Leaves	Also used as fuel wood	Locals
Willow	<i>Salix alba</i>	Ier kul	Lowland / Forest	Plenty	Common	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	Locals
Fig	<i>Ficus carica</i>	Figura/Fog	Lowland / Forest	Plenty	Common	Natural propagation	Provides fodder and more energy to livestock	Green / dry Leaves	Fruit edible & also used as fuel wood	Locals
Rice	<i>Oryza sativa</i>	Dhan / tamul	Temperate/ Lowland valleys	Common	Common	Local preserved	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Wheat	<i>Triticum aestivum</i>	Gundam	Temperate/ Lowland valleys	Plenty	Plenty	Local preserved / Agriculture Deptt.	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Barley	<i>Hordeum vulgare</i>	Jow	Temperate/ Lowland valleys	Plenty	Moderate	Local preserved	Green & dry plant used as fodder for the livestock	Whole plant	Also provides food grains	Locals
Maize	<i>Zea mays</i>	Makki	Temperate/ Lowland valleys	Plenty	Plenty	Local preserved	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Oat	<i>Avena sativa</i>	Lawn	Temperate/ Lowland valleys	Rare	Plenty	Local preserved / Agriculture Deptt.	Green & dry plant used as fodder for the livestock	Whole plant	Fodder crop	Locals
Bathua	<i>Chenopodium album</i>	Kunh	Temperate/ Lowland valleys	Plenty	Plenty	Natural propagation	As Fodder	Whole plant	Eaten as a highly nutritious vegetable	Locals

Narrow leaf plantain	<i>Plantago lanceolata</i>	Plantain	Temperate	Plenty	Plenty	Natural propagation	Provides a mineral rich forage to the animals	Leaves	NA	Locals
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**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					
Grass	<i>Parthenium hysterophorus</i>	Congress grass	Every crop	Less growth of affected crop and causes severe itching in humans	Forest / Lowland	Absent	Abundant	-	Bio-control through <i>Zygodramma bicolorata</i> & manual plucking out	Causes severe skin problems	Exotic weed	Locals
Grass	<i>Cynodon dactylon</i>	Dhrub	Every crop	Less growth of affected crop	Forest / Lowland	Plenty	Plenty	Fodder grass	Manual plucking out	Religious purpose	Not reported	Locals
Grass	<i>Marsilea quadrifolia</i>	Grass	Rice	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Grass	<i>Echinochloa crus-galli</i>	Grass	Rice	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Grass	<i>Anagallis arvensis</i>	Grass	Maize	-do-	Lowland	Common	Common	-	Manual plucking out	Weed	Not reported	Locals
Grass	<i>Lolium temulentum</i>	Rye grass	Wheat	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed adversely affect crop quality	Not reported	Locals
Herb	<i>Malva sylvestris</i>	Sotsal	Vegetables	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Medicinal use	Not reported	Locals
Herb	<i>Cannabis sativa</i>	Bhang	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking out	Religious purpose	Making Charas (intoxicating drug)	Locals
Herb	<i>Carduus nutans</i>	Kond posh	Every crop	-do-	Forest /Lowland	Moderate	Plenty	-	Manual plucking out	Weed	Not reported	Locals

Herb	<i>Utrica dioica</i>	Soi	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Herb	<i>Plantago lanceolata</i>	Plantain	Every crop	-do-	Temperate/ low land	Plenty	Plenty	As fodder	Manual plucking out	NA	Exotic species	Locals and farmers
Shrub	<i>Xanthium spinosum</i>	Cockleburr	Every crop	-do-	Temperate/ low land	Moderate	Plenty	None	Manual plucking out	Fruit gets attached to the animal fur causing economic loss to the livestock industry	Exotic species	Locals and farmers
Herb	<i>Phalaris minor</i>	Sitli	Wheat	-do-	Temprate & intermediate	Common	Plenty	Nil	Manual plucking out	Reduces the yield of the crop	Local	Locals and farmers
Herb	<i>Amaranthus viridis</i>	Cholai	Rice, Maize	-do-	Temperate/ Fields	Plenty	Plenty	Eaten as a vegetable	Pesticide spraying / plucking out	Rich source of proteins and amino acids	Not reported	Locals and farmers
Herb	<i>Xanthium strumarium</i>	Cockleburr	Every crop	-do-	Temperate/ low land	Moderate	Plenty	None	Manual plucking out	Fruit gets attached to the animal fur causing economic loss to the livestock industry	Exotic species	Locals and farmers
Herb	<i>Ipomoea purpurea</i>	Sornai, morning glory	Every crop	-do-	Temperate/ low land	Plenty	Common	As fodder	Manual plucking out	NA	Not reported	Locals and farmers
Shrub	<i>Datura stramonium</i>	Dhatura	Every crop	-do-	Temprate & intermediate	Common	Plenty	None	Manual plucking out	Religious purpose	Not reported	Locals and farmers

**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
Deodar tree	Insect	<i>Ectropis deodarae</i>	Deodar defoliator	On host	July to Oct	Insecticide application	Not reported	Leaf defoliator	Farmers, locals
Kail tree	Fungi	<i>Lophodermium macci</i>	Fungus	On host and fallen needles	July to Oct	Insecticide application	Not reported	Leaf defoliator	Farmers, locals
Fir tree	Fungi	<i>Fusarium pallidoroseum</i>	Fungus	On host and fallen needles	July to Oct	Insecticide application	Not reported	Leaf defoliator	Farmers, locals
Maize	Insect	<i>Helicoverpa zea</i>	Corn earworm	Farm fields	-	Insecticide application	Leaf damager	Not known	Farmers, locals
Maize	Animal	<i>Rattus norvegicus</i>	Rat	Farm fields	After flowering	Chemical pesticide	Roots and fruit damager	Not known	Farmers, locals
Polyphagus	Insect	<i>Pieris brassicae</i>	Pediyani/ White cabbage butterfly	Farm fields	May- Sept	Insecticide application	Damages plant and reduces the yield	Not known	Farmers, locals
Peach, plum	Insect	<i>Brachycaudus helichrysi</i>	Leaf- curling aphid	On host	May- October	Insecticide application	Damages the crop	Leaf defoliator	Farmers, locals
Apple, Pear	Insect	<i>Eriosoma lanigerum</i>	Wooly aphid	On host and fallen leaves	May- October	Insecticide application	Damages the plant and crop	Not known	Farmers, locals
Polyphagous	Mammal	<i>Rhesus macaque &amp; Semnopithecus ajax</i>	Monkey	Forests around habitation	Summers	Scaring them away manually & by using scarecrows in the fields	Damages the plant and crop	cause great economic loss to the farmers	Farmers, locals
Maize	Mammal	<i>Ursus americanus</i>	Reech// Bhalu	Forests	Summers	Scaring them away manually and by using scarecrows in the fields	Damages the plant and crop	cause great economic loss to the farmers	Farmers, locals



**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>
General and Scheduled cast	Agriculture	Collection of NTFP, Cattle rearing, Artisans & Govt. Servants	Forest (Hilly terrain) / Agriculture landscape	Agriculture for the purpose of food grains and fodder	Terrace farming	Traditional resource management practices	General / SC	Socially privileged	Most of them do own jobs, economically less privileged	510



**Panchayat: Kewa**

**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											
Cultivated	nil	nil	Mountainous	Rocky/ sandy land	Property/ shamlat	Aloo	Leopard	Local Inhabitants	Self management	cultivation	Indigenous knowledge of local communities	---	---
						Dhan	Black bear						
						Sosal	Monkey						
						Annar	Fox						
						Akhroot	Wild cat						
						Rajmash	Rat						
						Kadam	Lizard						
						Apricot	Snake						
						Heru	Pigeon						
						Mohru	House Sparrow						
						Kiker	Sparrow						
						Guchhies	Butterfly						
						Kumlaie	Bulbul						

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

**Format-9 : Waterscape.**

1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape Element type	Sub-type	Features and Approx	Ownership	General Flora	General Fauna	Major Sues	User Group	Management Practices	General uses	Associated TK	Other Detail	Community Accessed
Lotic	Nallah	Allagad, Moopa nallah	Govt.	Mostly trees, ferns, bryophytes & pteridophytes	Amphibians, insects, annelids etc.	Irrigation & drinking	Panchayat villages, locals	Occasional de-silting, bunding	Irrigation, washing, drinking	NA	NA	Locals
	Springs	Noor, Kewa, Pathan-pani	Govt.	Mostly planktons, trees, ferns, bryophytes & pteridophytes	Amphibians, insects, annelids etc.	Drinking, irrigation	Panchayat villages, locals	Occasional de-silting	Irrigation, washing, drinking	NA	NA	Locals
	River	Kalinag river	Govt.	Mostly planktons, trees, ferns, bryophytes & pteridophytes	Amphibians, fishes, insects, annelids etc.	Irrigation	Panchayat villages, locals	Unknown	irrigation, fishing, washing	NA	NA	Locals

**Format 10: Soil type**

1	2	3	4	5	6	7	8
Soil Type	Color & Texture	Features	Soil management	Plants / crop suitable	Flora and fauna	Associated TK	Other information
Clay soil and sandy loamy soil, Mountainous.	Black, Red and white	Does not retain water frequent irrigation	Recharged with leaf manure, animal waste compost	Conifer plants, broad leaved plants, Fruit plants, NTFP species, Wheat, barley, maize, rice and some seasonal vegetables.	Domesticated /wild plants and animals	Provides good quality of timber, fuelwood, NTFP, food and fodder	-

**Format 11: Fruit Trees**

**DOMESTICATED BIODIVERSITY**

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 (Ripening)	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
					Past	Present						
Tree	Aloo bukhara/ Plum	<i>Prunus domestica</i>	Local / Hybrid	Mountainous/ Temperate	Common	Available	Local preserved	June- Sept	Nutritious value	Reducing cholesterol, lowering blood sugar level	Market / own use	Locals & Deptt. Of Horticulture
Tree	Khubani/ Apricot	<i>Prunus armeniaca</i>	Safeda, Qadri	Mountainous/ Temperate	Plenty	Moderate	Local preserved / grafting	June-July	Used as a fruit and dry fruit	Cures heart diseases	Market / own use	Locals & Deptt. Of Horticulture
Tree	Akhroot/ Walnut	<i>Juglans regia</i>	Local	Mountainous/ Temperate	Plenty	Plenty	Local preserved / Horticulture Deptt.	Aug-Sept	Used a dry fruit	Reduces prostrate cancer and diabetes	Market / own use	Locals & Deptt. Of Horticulture
Tree	Tang/ Pear	<i>Pyrus communis</i>	Babugosha, Alle tang, Dud tang, Konternal, Tanchi, Wut, Kyuth, Nakh tang	Mountainous/ Temperate	Common	Rare	Local preserved / grafting	Aug-Sept	Nutritious value	Uses for mild digestion problems, diarrhea, severe cholera	Market / own use	Locals & Deptt. Of Horticulture
Tree	Beehi/ Quince	<i>Cydonia oblonga</i>	Local	Mountainous/ Temperate	Plenty	Rare	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals & Deptt. Of Horticulture
Tree	Saib/ Apple	<i>Malus domestica</i>	Red delicious, Golden delicious, Ambri	Mountainous/ Temperate	Common	Plenty	Local preserved / Horticulture Deptt.	Aug-Sept	Nutritious value	Reducing cholesterol, lowering blood sugar level	Market / own use	Locals & Deptt. Of Horticulture
Tree	Anardana/ Pomegranate	<i>Punica granatum</i>	Wild / Hybrid	Mountainous/ Temperate	Plenty	Wild Rare/ Hybrid plenty	Local preserved	Sept-Oct	As fruit, juice and as chutney	Rich source of iron, good for digestion	Market / own use	Locals & Deptt. Of Horticulture

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

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Source of plant/ seeds	Location status		Uses (usage)	Part used	Associated Tk	Other details market/ own use	Community Know Holders
						Past	Present					
Herb	Rohan-hak/ Pran/ Gogcheegma	<i>Allium carolinianum</i>	MFP	Forest	Natural	Plenty	Rare	Contain sulphur compounds (which give them their onion flavour)help to reduce blood cholesterol levels,acts as a tonic to the digestive system	Bulbs, Leaves, Flowers			
Herb	Drub	<i>Cynodon dactylon</i>	MFP	Forest	Natural	Plenty	Rare	used as a laxative,coolant,expectorant, & as a brain & heart tonic used for all types of bleedings & skin troubles.	Whole plant			
Tree	Horse chest nut	<i>Aesculus hippocastanum</i>	B/L	Forest	Natural	Plenty	Rare	used for treatment of dysentery,bronchitis,hemorrhoids.	Leaves			
Herb	Vena	<i>Mentha longifolia</i>	MFP	Forest	Natural	Plenty	Endangered	Respiratory ailments, treat wounds	Leaves			
Shrub	Anar	<i>Punica granatum</i>	MFP	Forest	Natural	Plenty	Rare	Treatment of cancer,osteo-arthritis, appetizer	Whole plant			
Tree	Haadi	<i>Prunus armeniaca</i>	B/L	Forest	Natural	Plenty	Rare	Antispasmodic, chronic bronchitis	Whole plant			
Herb	Suchal	<i>Malva neglecta</i>	MFP	Forest	Natural	Plenty	Rare	Astringent,demulcent,diuretic	Leaves,Flowers,R oot			
Tree	Fog, feku	<i>Ficus palmata</i>	B/L	Forest	Natural	Plenty	Rare	used for skin diseases, treatment of lungs & bladder diseases	Fruit			
Tree	Akhroot	<i>Juglans regia</i>	B/L	Forest	Natural	Plenty	Rare	leaves are used in treatment of of chronic coughs,asthma & purify blood and treat diabetes	Leaves,Fruit,			

Tree		<i>Populus alba</i>	B/L	Forest	Natural	Plenty	Rare	used in the treatment of arthritis,gout,lower back problem and reduce fever	Stem,Bark
Tree	Kahu	<i>Olea cuspidata</i>	B/L	Forest	Natural	Plenty	Rare	bark used for fracture, leave use for treatment of malaria, UTI	Bark,Leaves
Herb	Hamesh-Bahar	<i>Calendula officinalis</i>	MFP	Forest	Natural	Plenty	Rare	Applied on Skin disease,Burns	Flower,leaf
Herb	Banafsha	<i>Viola odorata</i>	MFP	Forest	Natural	Plenty	Rare	Throat problem,Cold,cough	Flower
Herb		<i>Amaranthus viridis</i>	MFP	Forest	Natural	Plenty	Rare	Treatment of fever, pain, asthma	Whole part
Herb	Onion, piyaz	<i>Allium cepa</i>	MFP	Forest	Natural	Plenty	Rare	Anti inflammatory, antiseptic	Bulb, Leaves
Herb		<i>Allium humile kunth</i>	MFP	Forest	Natural	Plenty	Rare	Treatment of cholera, dysentery, cough	Bulbs
Herb	Thom, Garlic	<i>Allium sativum</i>	MFP	Forest	Natural	Plenty	Rare	Fever, diabetics, swellings	Bulbs
Herb	Dhaniya	<i>Coriandrum sativum</i>	MFP	Forest	Natural	Plenty	Rare	Measles, hemorrhoids, toothache & joint pain	Leaves, Seeds
Herb	Mooli	<i>Raphanus sativus</i>	MFP	Forest	Natural	Plenty	Rare	To treat constipation,chronic tracheitis & hypertension	Leaves root
Herb	Sunflower	<i>Helianthus annuus</i>	MFP	Forest	Natural	Plenty	Rare	High fever, snake bite	Leaf, Seed
Climber	Kheera	<i>Cucumis sativus</i>	MFP	Forest	Natural	Plenty	Rare	Blemished skin, heart rash, burns, sores	Whole part
Climber	kaddu	<i>Cucurbita pepo</i>	MFP	Forest	Natural	Plenty	Rare	Anti inflamentry, anti viral, anti ulcer	Whole part
Tree	Shehtut	<i>Morus alba</i>	MFP	Forest	Natural	Plenty	Rare	Asthma, Bronochits	Bark
Herb	Green Chilly, mirchi	<i>Capsicum annum</i>	Local	Temperate	Cultivated	Plenty	Plenty	Improve immune system, anti-inflammatory, good for eye sight	Fruit

**Format 13: Ornamental Plants/ Trees/Climbers etc.**

1	2	3	4	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial/ non-commercial	Uses	Associated TK	Other details	Community/ Know. holder
Shrub	Gainda	<i>Tagetes erecta</i>	Local	Preserved seed	Non-commercial	Provides beauty to the home garden	NA	Used for religious purpose	Locals
Shrub	Gulab	<i>Rosa indica</i>	Local	From cuttings	Non-commercial	Provides beauty to the home garden	Used to make gulkand- a remedy for gastric troubles and as a refreshing drink in summers	Used for religious purpose	Locals
Shrub	Dhaliya	<i>Dahlia pinnata</i>	Local	Rhizomes of flower plant	Non-commercial	Provides beauty to the home garden	NA	Used for religious purpose	Locals
Climber	Ivy	<i>Hedera helix</i>	Wild	Cuttings	Non- commercial	Provides beauty to the home garden	NA	Used for religious purpose	Locals
Herb	Cock's comb	<i>Celosia cristata</i>	Local	Seeds	Non-commercial	Provides beauty to the home garden	NA	Used for religious purpose	Locals

**Format-14 : Timber Plants/ Trees.**

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home garden	Other uses (multi)	Associated TK	Other details	Community/ Know holder
				Past	Present					
Trees	Kikar	<i>Robinia pseudoacacia</i>	Forest	Plenty	Common	Wild/homegrown	Fuel wood, fodder	NA		Locals
Trees	Akhrot	<i>Juglans regia</i>	Forest	Plenty	Common	Wild/homegrown	Firewood,medicine			
Trees	Phrast	<i>Populus alba</i>	Forest	Plenty	Common	Wild/homegrown	Firewood,Fodder			
Trees	Kharshu	<i>Quercus semecarpifolia</i>	Forest	Plenty	Common	Wild	Firwood			
Trees	Heru	<i>Quercus ilex</i>	Forest	Plenty	Common	Wild	Firwood/Fodder			
Trees	Kahu	<i>Olea cospidate</i>	Forest	Plenty	Common	Wild	Firwood/timber			



**Format 15: Domesticated Animals**

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Sheep	Bhead	<i>Ovis aries</i>	Local	Small size rough coat	Flock rearing	Plenty	Common	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/ Nomads
Sheep	Bhead	<i>Ovis aries</i>	Rambouillet cross bread	Large size low body weight	Flock rearing	Rare	Plenty	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/ Nomads
Goat	Bakri	<i>Capra hircus</i>	Local	Small size low body weight	Flock rearing	Plenty	Rare	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/ Nomads
Goat	Bakri	<i>Capra hircus</i>	Kaghani, bakasooli	Large size high body weight	Flock rearing	Rare	Plenty	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/ Nomads
Cow	Gaay	<i>Bos taurus</i>	Local/ Desi/Jersey	Cow have hooves on there feet and can weight upto 400 pounds	Flock rearing/ Domestication	Plenty	Rare	Milk, Cow dung	Milk good for health	Yes	High milk production	Local/ Nomads
Buffalo	Bhains	<i>Bubalus bubalis</i>	Local	Dark slab colour less	Domestication	Common	Plenty	Milk, Dung	Milk good for health	Yes	High milk production	Local/ Nomads
Ox	Bael	<i>Bos taurus</i>	Local	For ploughing	Domestication	Plenty	Rare	For ploughing	Use for ploughing	Yes	Use for ploughing	Local/ Nomads

Dog	Kutta	<i>Canis familiaris</i>	Local/ Bakerwal	Small to median height, white, brown black in colour	Domestication	Plenty	Common	Guard, hunting dog	Nil	No	Nil	Local/ Nomads
Cat	Billi	<i>Felis catus</i>	Local	Small, greyish black, white in colour	Wild/ Domestication	Common	Common	Pest control	Nil	No	Nil	Local/ Nomads
Horse	Ghoda	<i>Equus caballus</i>	Local	Large strong animals, 60- 70 inches in height	Domestication/ Flock rearing	Common	Common	Used in riding and transport	Nil	Yes	NA	Local/ Nomads
Mule	Khacchar	<i>Equus mulus</i>	Local	Generally brown, grey or black in colour, 55 to 65 inches in height	Domestication	Plenty	Plenty	Used as draught and pack animal	Nil	Yes	Nil	Local/ Nomads
Poultry	Kukad	<i>Gallus domesticus</i>	Desi/ Hybrid	Enriched meat flavour, high egg yield	Domestication/ Rearing	Common	Common	Egg/Meat	Nil	Yes	Nil	Local
Donkey	Gadha	<i>Equus asinus</i>	Local	White, black or grey in colour, smaller than a horse	Domestication	Plenty	Common	Used as a beast of burden	Nil	Yes	NA	Local/ Nomads





**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					
Herb	Rohan-hak/Pran/ Gogcheegma	<i>Allium carolinianum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Bulbs, Leaves, Flowers	Contain sulphur compounds (which give them their onion flavour)help to reduce blood cholesterol levels,acts as a tonic to the digestive system		
Shurb	Dhatura	<i>Datura stramonium</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Seeds	Used to treat hydrophobia,epilepsy,convulsion,syphilis,inflammation of the breasts,smallpox,mumps & leprosy,also used as a pesticide.		
Climber	Shingli-mingli	<i>Dioscorea deltoidea</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Roots	Rhizomes used for the treatment of different diseases such as digestive disorders, sore of throat for struma,dirrhea,wounds,burns & anemia.		
Herb	Handh	<i>Taraxacum officinale</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	Has a special effect on the organs involved in digestion,its coffee helps with liver damage & liver weakness as well as bile weakness,stimulate pancreas & kidney function.		
Shurb	Kasrore	<i>Diplazium esculentum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	Used as vegetable,dried rhizomes are used as an insecticide,decoction of this plant is used in the treatment of cough & sometimes as a tonic.		

Herb	Rumkath, Budarkath, Bantambaku (Gidar Tambakoo)	<i>Verbascum thapsus</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves	Useful to treat pulmonary problems ,inflammatory diseases,asthma,diarrhoea & migraine headaches.
Tree	Zum	<i>Prunus cornuta</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Timber	Helpful in the treatment of cancer.
Climber	Agranth	<i>Hedera nepalensis</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves	Used for cure of benign wart, anti-inflammatory & anti-arthritis properties.
Herb	Gentheer	<i>Adiantum capillus-veneris</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	used for antibacterial,anti-implantation,antihyperglycemic.
Herb	Decla	<i>Cyperus rotundus</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Rhizomes, Roots	Malaria,diarrhea,dibaties
Herb	Drub	<i>Cynodon dactylon</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole plant	used as a laxatie,coolant,expectorant, & as a brain & hert tonic used for all types of bleedings & skin troubles.
Herb	Chuku	<i>Oxalis corniculata</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole plant	used in the treatment of influenza,fever,urinary tract infections & poisonous snake bites.
Shrub	Beri	<i>Ziziphus oxyphylla</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Fruit	used to treat diabetes,fever,dysentery,as well as blood & skin diseases
Tree	Horse chest nut	<i>Aesculus hippocastanum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	used for treatment of dysentery,bronchitis,hemorrhoids.
Herb	Neelkanth	<i>Ajuga bracteosa</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Wood	Used for making walking sticks
Herb	Jungli pudina	<i>Mentha arvensis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	Inflammatory diseases,asthma,cough,diarrhoea
Herb	Vena	<i>Mentha longifolia</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaf	Treats agues, diarrhoea& dysentery
Herb	Kal viuth	<i>Prunella vulgaris</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves	As a food, stomach problem & allergy

Shrub	Anar	<i>Punica granatum</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Roots	kidney & gall bladder stone
Tree	Ringkul	<i>Crataegus songarica</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Bark	Help the body to resist physical, chemical & environmental stress
Herb	Wild Strawberry	<i>Fragaria nubicola</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole plant	Herbal remedy for diptheria, ring worm, treats pimples, acne etc.
Tree	Haadi	<i>Prunus armeniaca</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Wood	used for handles walking sticks
Herb	Sow thistle	<i>Sonchus arvensis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Root	anti ulcer, anti cancer
Herb		<i>Sonchus asper</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Whole Plant	antifungal and phytotoxic
Herb	Handh	<i>Taraxacum officinale</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	used in treatment of fever and skin diseases
Herb	Milkweed, doodil	<i>Euphorbia helioscopia</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves & Buds	treat skin disease,external parasite
Herb	Soy	<i>Urtica dioica</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Seed Stem	Breathing disorder,asthma
Tree		<i>Ulmus wallchiana</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves, Stem,Root	used in pharmaceutical industry.
Herb		<i>Cannabis sativa</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaf,root	used against constipation
Herb		<i>Stellaria media</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaf,Flower	used for cough .cold,flu,fever & malaria
Herb		<i>Hypericum elodeoides</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flowers	Respraitory tract congestion asthma ,sore throat
Shrub		<i>Hypericum oblongifolium</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flowers	chronic bronchitic,asthma
Herb		<i>Hypericum perforatum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flowers	used to stimulates urinary system,digestive system & bowels
Herb	Suchal	<i>Malva neglecta</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Not Available	used for production of photographic films

Herb		<i>Trifolium fragiferum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves,Bark	Coagulant,fever reducer
Herb	White clover	<i>Trifolium repens</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Fruits	Treatment of phthisis
Tree	Fog, feku	<i>Ficus palmata</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Floers ,Branches	branches are used as basket making it is also used as fuel
Tree		<i>Morus serrata</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flowering & Fruiting Branches	used to treat nervous disorders,asthama, liver disease
Tree	Akhroot	<i>Juglans regia</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flowers, Leaves	used as green manure & flowers are used to make jelly
Tree	Champ	<i>Alnus nitida</i>	wild	Forest	Plenty	Rare	Commercial/ own use	Stem , Leaves	Reduce fever
Tree		<i>Quercus baloot</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Fruit	used for treatment of longs & bladder diseases
Tree		<i>Populus alba</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Root ,Wood	juice of the root is used as an anthelmintic.wood is used for making furniture
Tree		<i>Populus ciliata</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Dried leaves	Making fabric dye,
Shrub	Kaimal/Daruhalidi	<i>Berberis lycium</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Bark	Bark is used for writing lengthy scriptures & texts,also used for packaging
Herb	Poppy	<i>Papaver somniferum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Stem,Bark	used in the treatment of arthritis,gout,lower back problem and reduce fever
Herb	Pit papara, papara	<i>Fumaria indica</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Roots ,Stem,Bar k	used an immunity booster
Herb	Shephard's purse, toree ghas	<i>Capsella bursa- pastoris</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Rhizomes	usedto treat gynecology infections
Herb	Nargis	<i>Narcissus tazetta</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole Plant	its drug is used in the form of decoction
Herbs	Phulee	<i>Dipsacus inermis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Rhizomes	used in treatment of digestive disorders ,wound & burns

NA

the area.



Herbs		<i>Cirsium arvense</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Whole Plant	Used for sinus Pain ,Hay Fever& Headache.
Herbs		<i>Cirsium falconeri</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Root	used for the treatment of dermatological disorders,used for phenols
Herbs		<i>Dubyaea hispide</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Root	Usedb orally for anxiety& Psychological stress.
Herbs		<i>Echinops cornigerus</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Fresh & Dried Leaves	used in ayurvedic system of medicine
Herbs		<i>Erigeron canadensis</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole Plant	Stem, leaves & flowers used as digestive, emetic & stomachic
Herbs		<i>Filago germanica</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Aerial Parts	above ground parts used in cold, tonic & astringent
Herbs		<i>Galinsoga parviflora</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Roots	roots used to relieve stomachache, acute fever & constipation
Herbs		<i>Gnaphalium luteoalbum</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Aerial Parts	used as aromatic & antimicrobial
Herbs		<i>Anagallis arvensis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaf ,Stem	plants rich source of essential oil
Herbs		<i>Jasminum grandiflorum</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole Plant	whole plant & roots used for treating oedema
Tree	Kahu	<i>Olea cuspidata</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Root	root are aphrodisiac, whole plant antipyretic & analgesic
Shrub		<i>Buddleja paniculata</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Whole Plant	whole plant diuretic, hemostatic & antidiarrheal
Grass	Congress grass /Jadi	<i>Parthenium hysterophorus</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves	treatment of constipation, didysentry, fever
Tree	Bren	<i>Ulmus villosa</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Dried Plant	dried plant used against bronchitis, asthma,cough
Tree	Bankhoor	<i>Aesculus indica</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Flowering,Leaves	Industrial usage.
Herb	Hamesh-Bahar	<i>Calendula officinalis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flower,Leaves	flower & leaves are edible, used to make tea

Herb	Banafsha	<i>Viola odorata</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Flower,Leaves	asthma & digestive problems
Herb	Tengu,Tyangu	<i>Hyssopus officinalis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Root,Flower	root juice used against ringworm, flowers used to cure intestinal problems
Fungi	Gucchi	<i>Morchella esculenta</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Leaves	used for treatment of skin disease, malaria
Fungi		<i>Agaricus campestris</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Root	used against diarrhea, loss of appetite, heart burn
Herb		<i>Amaranthus viridis</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Flower	Throat problem,Cold,cough
Herb	Khoree	<i>Aralia cachemirica</i>	Grow Annually	Forest	Rare	Rare	Commercial/ own use	Whole part	treatment of cancer,Type-2 diabetes,high- cholestrol,digestive problem
Herb		<i>Sonchus asper</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Aerial Part	Garden uses beds & borders
Tree		<i>Quercus baloot</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Whole part	Traditional Medicines
Tree		<i>Quercus semecarpifolia</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves	Edible
Tree		<i>Ficus carica</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Leaves	Inflammatory diseases
Tree		<i>Morus alba</i>	Wild	Forest	Plenty	Rare	Commercial/ own use	Flowers	Traditional Medicines

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

1	2	3	4	5	6
S. No.	Local Name	Scientific Name	Variety	Importance (as economic, social, cultural etc.)	Status
1	Akhrot	<i>Juglans regia</i>	Broad Leave	Ecnomical & Social	Do exist
3	Phrast	<i>Populus alba</i>	Broad Leave	Ecnomical & Social	Do exist
4	Kiker	<i>Acacia nilotica</i>	Broad Leave	Ecnomical & Social	Do exist
5	Champ	<i>Alnus nitida</i>	Broad Leave	Ecnomical & Social	Do exist
6	Heru	<i>Quercus ilex</i>	Broad Leave	Ecnomical & Social	Do exist
8	Mohru	<i>Quercus floribunda</i>	Broad Leave	Ecnomical & Social	Do exist
9	Bren	<i>Ulmus wallichiana</i>	Broad Leave	Ecnomical & Social	Do exist
12	Pudina	<i>Mentha longifolia</i>	Broad Leave	Ecnomical & Social	Do exist
13	Socchal	<i>Malva neglecta</i>	Broad Leave	Ecnomical & Social	Do exist
18	Ber	<i>Ziziphus mauritiane</i>	Broad Leave	Ecnomical & Social	Do exist
19	Plum	<i>Prunus persica</i>	Broad Leave	Ecnomical & Social	Do exist
24	Ban tambaku	<i>Verbascum thapsus</i>	Broad Leave	Ecnomical & Social	Do exist
25	Banafsha	<i>Viola odorata</i>	Broad Leave	Ecnomical & Social	Do exist
28	Bhang	<i>Cannabis sativa</i>	Broad Leave	Ecnomical & Social	Do exist
41	Hamesh bahar	<i>Calendula officinalis</i>	Broad Leave	Ecnomical & Social	Do exist
42	Handh	<i>Taraxacum officinale</i>	Broad Leave	Ecnomical & Social	Do exist
45	Kaimal	<i>Berberis lyceum</i>	Broad Leave	Ecnomical & Social	Do exist
69	Suchal	<i>Malva neglecta</i>	Broad Leave	Ecnomical & Social	Do exist
80	Dandelion	<i>Taraxacum officinale</i>	Broad Leave	Ecnomical & Social	Do exist
89	Kashmir Sage	<i>Salvia hians</i>	Broad Leave	Ecnomical & Social	Do exist
109	Wild Rose	<i>Rosa webbiana</i>	Broad Leave	Ecnomical & Social	Do exist
110	Wild Strawberry	<i>Fragaria nubicola</i>	Broad Leave	Ecnomical & Social	Do exist
111	Kasrore	<i>Diplazium esculentum</i>	Wild	Economic	Common
113	Gucchi	<i>Morchella esculenta</i>	Wild	Economic	Rare

### 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				
Frog (Mundak)	<i>Rana tigrina</i>	-	Long very powerful back led and web feet	Pond/river	Plenty	Rare	Important role in food chain	Frog are natures pharmacy and provide a very efficient transfer of solar energy	Maintain food chain and food wed.	Locals
Watercress (Nag Biber)	<i>Nasturtium officinale</i>	Aquatic flowering plant	Rapid growing perennial plant	Pond / watery place	Plenty	Plenty	As vegetable	Oldest known leafy vegetable consumed by humans	Its high content of Vitamin C makes it remedy such that particular valuable for chronic illnesses	Locals
Maiden hair (Ghvtheer)	<i>Adiantum caudatum</i>	Aquatic Grass	It is a perennial fern producing fronds	Found in shaded areas	Plenty	Plenty	As an ornamental and medicinal plant	Fronds are said to be antiasthmatic and antispasmodic	It is used n the treatment of chest infection, cough, diabetes, fever and skin disease	Locals
Gaad	<i>Schizothorax richardsonii</i>	Indigenous	Elongated tube form with short snout, barbules, lower lip folded	Snow fed streams and rivers	Plenty	Abundant	Food/ Commercial	NA	NA	Locals & Deptt. of fisheries
Dragonfly/ jahaz	<i>Orthetrum triangulre</i>	Wild	Bluish and black in colour, with a large head	Found around slow moving waters	Common	Common	Acts as pollution indicator and as a biocontrol agent for mosquitoes, midges, etc.	Important in the maintenance of ecological balance	Nymphs completely aquatic while adults seen flying above the water source	NIL

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

1	2	3	4	5	6
S. No.	Local Name	Scientific Name	Variety	Importance	Trends
1	Watercress (Nag Biber)	<i>Nasturtium officinale</i>	Aquatic flowering plant	Oldest known leafy vegetable consumed by humans. Its high content of Vitamin C makes it a good remedy for chronic illnesses.	
2	Maiden hair (Ghvtbeer)	<i>Adiantum caudatum</i>	It is a perennial fern producing fronds	Fronds are said to be antiasthmatic and antispasmodic. It is used to treatment of chest infection, cough, diabetes, fever and skin disease	

**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	Kanees	<i>Dioscorea deltoidea</i>	Wild	Low Lands	Abundant	Rare	Local having good knowledge with respect to identification of the species and their uses.	Rhematoid	Roots	Medicinal use	Zamindars living in the vicinity of the forest are well versed with the medicinal uses of NTFPs found in the forest
	Handh	<i>Taraxacum officinale</i>	Wild	Low Lands	Abundant	Rare		Anti rheumatic	leaves / Roots	Medicinal use	
	Soi	<i>Urtica dioica</i>	Wild	High altitude	Abundant	Rare		To Heal Cuts/ wounds	Roots	Causes acute skin Allergy	
	Pudina	<i>Mentha longifolia</i>	Wild	High altitude	Abundant	Rare		Cooling Medicine	Leaves	Also used cooling Mouth Freshner	
Trees	khordun	<i>Juglanas regia</i>	Wild	Low Lands	Abundant	Rare		to treat toothache	Leavrs, bark, Pericarp	Medicinal use	
	Gugu	<i>Aesculus indica</i>	Wild	Low Lands	Abundant	Rare		to Treat rheumatism	seeds	Medicinal use	
	Feku	<i>Ficus palmata</i>	Wild	Low Lands	Abundant	Rare		To Trat skin dieases	Latex fruit	Medicinal use	
Shurb	Khumblai	<i>Berberis aristata</i>	Wild	Low Lands	Abundant	Rare		Laxative	Roots	Also Used as fencing	
	Anardana	<i>Punica granatum</i>	wild/ Home grown	Low Lands	Abundant	Rare		To traet juandice	seeds	Pericarp Used as dye	
	Bhang	<i>Cannabis sativa</i>	wild/Home grown	Low Lands	Abundant	Rare		Narcotic	seeds/Leaves	Medicinal use	
	Datura	<i>Datura stramonium</i>	wild/Home grown	Low Lands	Abundant	Rare	totreat headache, joint pain	seeds	Medicinal use		



**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
Safeda	<i>Populus alba</i>	Local	Temperate/ terrestrial	Commercial	Provides scenery/ beauty tothe area	Used in fruit packing industries	Locals
Gainda	<i>Tagetes erecta</i>	Local/wild	Temperate/ terrestrial	Non-commercial	Ornamental	Religious	Locals
Gulab	<i>Rosa acicularis</i>	wild	Temperate/ terrestrial	Non-commercial	Ornamental	Religious	Locals



**Format-25 : Fumigate/ Chewing Plants.**

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Habitat	Local status		Uses (usage)	Part used	Associated TK	Other details (mode of use)	Community Knowledge Holder
					Past	Present					
	Jungli pudina	<i>Mentha longifolia</i>	Wild	Temperate	Plenty	Plenty	Cooling medicine	Leaves			
	Chuku	<i>Oxalis corniculata</i>	Wild	Temperate	Plenty	Rare	Used in the treatment of influenza, fever, urinary tract infections & snake bites.	Leaves			
	Bantambaku	<i>Verbascum thapsus</i>	Wild	Temperate	Plenty	Rare	Narcotic	Leaves			
Shrub	Bhang	<i>Cannabis sativa</i>	Wild	Temperate	Plenty	Plenty	Do	leaves			
Tree	Khor/Dun	<i>Juglanas regia</i>	Local	Temperate	Plenty	Plenty	Teeth cleaning, toothache	Leaves, bark			

**Format-26 : Timber Plants.**

1	2	3	4		5	6	7	8
Local Name	Scientific Name	Habitat	Local status		Other Uses, if any	Associated TK	Other Details	Community Knowledge Holder
			Past	Present				
Kiker	<i>Robinia pseudoacacia</i>	Temperate/ terrestrial	Plenty	Moderate	Fuel wood, fodder	Provide good timber	Hard wood	
Akhroot	<i>Juglans regia</i>	Temperate/ terrestrial	Common	Common	Fruit and furniture	Provide good timber / fruit	Hard wood	
Phras	<i>Populus alba</i>	Temperate/ terrestrial	Plenty	Moderate	Packing industries	Provide good timber	Hard wood	
Champ	<i>Alnus nitida</i>	Temperate/ terrestrial	Plenty	Moderate	Firewood,fodder	Provide good timber	Hard wood	
Kharshu	<i>Quercus semecarpifolia</i>	Temperate/ terrestrial	Plenty	Plenty	Firewood,fodder	Provide good timber	Hardwood	
Heru	<i>Quercus ilex</i>	Temperate/ terrestrial	Plenty	Common	Firewood,fodder	NA	Hardwood	
Bankhori	<i>Aesculus indica</i>	Temperate/ terrestrial	Plenty	Common	Firewood,fodder	NA	Hardwood	





**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	Session when seen	Local status		Uses (if any)	Associated TK	Mode of Hunting, collecting (if any)	Other details	Community Knowledge Holder
						Past	Present					
Mammal	Suh/Leopard	<i>Panthera pardus</i>	High altitude	Fur with dark rosettes	Throughout the year	Plenty	Moderate					
	Jackal/ Gidur	<i>Canis aureus</i>	Around Habitation	Nocturnal	winter	Plenty	Common					
	Reech/ Bhalu	<i>Ursus americanus</i>	High altitude	Omnivore, black in colour	Throughout the year	Common	Moderate					
	Red fox	<i>Vulpus vulpus</i>	High altitude	Nocturnal	Throughout the year	Plenty	Moderate					
	Langoor	<i>Semnopithecus ajax</i>	Temperate	Greyish in colour with black face	Throughout the year	Common	Plenty					
	Monkey	<i>Rhesus macaque</i>	Temperate	brownish in colour	throughout year	Common	Abundant					
Rodents	Chuha	<i>Mus booduga</i>	fields	Common in houses	throughout year	Plenty	Common					
	Porcupine/ Shale	<i>Hystrix indica</i>	Rocky Hills	Has sharp spikes	throughout year	Plenty	Common					
Reptiles	Himalayan pit viper	<i>Agkistrodon himalayanus</i>	Rocky Hills	Limbless, carnivore with mobile jaw	Summer	Plenty	Common					
	Lal saanp	<i>Ptyas mucosa</i>	Rocky Hills	Limbless, carnivore with mobile jaw	Throughout the year	Plenty	Common					
	Russell's viper/ Gunus	<i>Vipera russelii</i>	Rocky Hills	Limbless, carnivore with mobile jaw	Throughout the year	Plenty	Common					

	Common Skink/ Lishik	<i>Lygosoma himalayanus</i>	Temperate	Quadrepedal, Black with a reddish ventral side & thin tail	Throughout the year	Common	Common				
Birds	Chidya/ seid	<i>Passer domesticus</i>	Around habitation	Small birds with sexual dimorphism, feed on seeds & grains	Throughout the year	Plenty	Common	Necessary for maintanenc e of Ecological balance	Prohibited	Locals having good knowledge with respect to their identification	
	Koel	<i>Eudynamys scolopaceus</i>	Around habitation	Feeds on seeds , weeds, grain	Throughout the year	Plenty	Common				
	Tota	<i>Psittacula himalayana</i>	Migratory	Green in colour with a slaty head	Throughout the year	Common	Common				
	Kaav	<i>Corvus splendens</i>	Around habitation	Black in colour with a greyish neck, smaller than the jungle crow	Throughout the year	Plenty	Common				
	Kabutar	<i>Columba livia</i>	Around habitation	Grey &black in colour, feed on seeds, grain	Throughout the year	Common	Plenty				
	Cheel	<i>Milvus migrans</i>	Temperate	Carvinore, solitary bird	Throughout the year	Plenty	Common				
	Shaar	<i>Acridotheres tristis</i>	Around habitation	Omnivore, brown in colour with a yellow beak	Throughout the year	Plenty	Common				
	Chakor	<i>Alectoris chukar</i>	Low lands	Small grey coloured bird feeds on grains and domesticated commonly	Throughout the year	Abundant	Rare				
	Cheel	<i>Milvus migrans</i>	Temperate	Carnivore, solitary bird	Throughout the year	Plenty	Common				
	Kaav	<i>Corvus macrorhynchus</i>	Around habitation	Dark black in colour with a strong beak	Throughout the year	Plenty	Common				
Amphibian	Frog	<i>Rana tigrina</i>	Ponds, ditches	Green in colour with small black spots, omnivore	summer	Abundant	Common				
Arachnid	Bichoo	<i>Typhlochactas mitchelli</i>	Moist low land		summer	Abundant	Common				
	Dragonfly/ jahaz	<i>Orthetrum triangulre</i>	Near waterbodies	Bluish and black in colour	Summer	Common	Common				

	Cabbage butterfly	<i>Pieris brassicae</i>	Low lands	Farms and vegetable gardens	Summer	Abundant	Abundant		
	Cockroach	<i>Periplaneta americana</i>	Around Habitation	Waste material, food	Summer	Rare	Common		
	Bed bug	<i>Cimex lectularius</i>	Temperate region, mostly on animals	Light brown in colour, flat oval	Summer	Common	Common		
	Ant/ Chinti	<i>Solenopsis invicta</i>	Cosmopolitan, nuisance pest	Black in colour	Throughout the year	Common	Plenty		
	Makhi	<i>Musca domestica</i>	Cosmopolitan, nuisance pest	Small, black in colour with hairy body	Summer	Common	Plenty		
	Machar	<i>Culex spp.</i>	Temperate region	Small, light coloured, vector of many diseases	Summer	Common	Plenty		
Annelid	Earthworm	<i>Pheritima posthuma</i>	Temperate region	Slender, pinkish in colour with a segmented body.	Summer	Common	Common		
	Leech	<i>Hirudo medicinalis</i>	Temperate region	Soft, segmented body	Summer	Common	Common		

**Format-29 : Flora.**

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

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
S. No.	Information of local importance	Remarks
1		
2		