

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: Derka

Taluk: Bhalla

District: Doda

State: J&K UT

Geographical Area of the Panchayat Samiti: 399.5 Hac.

Population under the Panchayat Samiti: 2382

Male: 1246

Female: 1136

Habitat and Topography:

Climate (Rainfall, Temperature and weather patterns):

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

Date, Month and Year of PBR Preparation: 16.11.2019

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

Annexure 1

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

1)Name of the Chairperson: Mohd. Amin

Age: 65 years

Gender: Male

Address: Bhalla

Area of specialization: Agriculture / Revenue

2) Name: Naseema Begum

Age: 48 years

Gender: Female

Address: Duggar

Area of specialization: Farming

3) Name:- Fehmida Begum

Age: 45

Gender: Female

Address: Bhalla

Area of specialization: Farming

4)Name: Jagdish Raj

Age: 55 years

Gender: Female

Address: Bhalla
Area of specialization: Farming, Animal Husbandry
5)Name: Abdul Rehman
Age: 60
Gender: Male
Address: Bhalla
Area of specialization: Farming/ Animal Husbandry
6)Name: Mohd. Shrif
Age: 50 years
Gender: Male
Address: Duggar
Area of specialization:
7)Name: Ali Mohd. (ST)
Age: 49 years
Gender: Male
Address: Duggar
Area of specialization:

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: Parvaiz Ahmed S/o Mohd. Iqbal

Age: 35 years

Gender: Male

Address: Upper Bhadir

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name:

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

3)Name:

Age:

Gender:

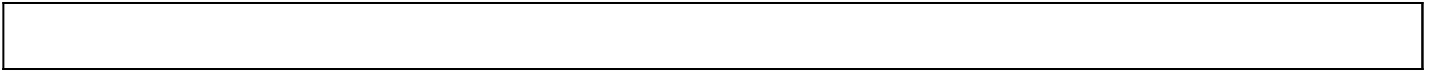
Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:



Annexure 3

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

1) Name of the Chairperson: Ashok Kumar

Age: 45

Gender: Male

Address: Bhalla

Area of specialization: Forest

2) Name of the Chairperson: Mohd. Shafi

Age: 55

Gender: Male

Address: Bhalla

Area of specialization: Agriculture

3) Name of the Chairperson: Asif Tantrey

Age: 32

Gender: Male

Address: Bhalla

Area of specialization: Ayurveda

4) Name of the Chairperson: Mohd. Ashraf

Age: 45

Gender: Male

Address: Bhalla

Area of specialization: Fisheries



Annexure 4

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

1) Contact Person:

Name and Address:

2) Contact Person:

Name and Address:

3) Contact Person:

Name and Address: Mubarak Ahmed (GRS)

4) Contact Person:

Name and Address:

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

Annexure 5

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

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

End of Part I

Part II
PBR – Formats
AGROBIODIVERSITY

Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape /Habitat	Approx Area Sown	Local Status		Special features	Cropping Season	Uses	Associated TK	Other Details	Source of Seeds / Plants	Community /Knowledge Holder
						Past	Present							
Maize	<i>Zea mays</i>	Kookri	Plandri, Rashi4794, Bio-9621, Bio-9220	Hilly temperate and intermediate	21205ha	Local	Improved varieties	April sown, local variety dentles, corn & flour sweet in taste	Kharif	Major food item, used as flour, feed to cattle, poultry etc.	Local variety plandri sown before 15 th april.		HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Wheat	<i>Triticuma estivum</i>	Kanak, gandham	HS-240, VL-804, HS-507	Hilly, temperate and intermediate	5603ha	Local varieties	Improved varieties	Late maturity	Rabi	Food item, used as flour, feed to cattle, poultry etc.			HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Rice	<i>Oryza sativa</i>	Chawal	Veliyan	Lowland valleys	n/a	Plenty		Tall variety , High yield, resistant to drought, flood, pest,and diseases	May to October	Food, Fodder, Fuel, Roofing, Matting	Energy production	Suitable for Valichia Cultivation	Self, Agriculture Department	Kurichiya, Kuruma, W. Chetty
Barley	<i>Hordeum vulgare</i>	Joo	Local barley, ratna, sonu	Hilly, temperate and intermediate	3450 ha	Local varieties	Improved varieties	Most efficient under rainfall conditions	Rabi	Grains used as cattle feed besides, green crop used as fodder.			Self, Agriculture Department	Local/ Aged farmers of rural communities possess TK
Black gram	<i>Vignamungo</i>	Kaali dhal	Local, PU-19, PU-31, Shekher-3	Temperate and intermediate	850 Ha	Local varieties	Improved Varieties	-	Kharif	Used as pulse in human diet	Local varieties has distinct taste and get cooked in less time	-	Farm saved seed, Department of agriculture or private seed dealers	Local seed possessed by the farming community of the district

Format-2 : Fruit Plants

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape /Habitat	Local Status		Source of Seeds / Plants	Season of fruiting	Associated TK	Uses	Other Details market / own use	Community /Knowledge Holder
					Past	Present						
Apple	<i>Malus Domestica, Borkh</i>	Saib	Red Delicious, Golden Delicious, Maharaji, American etc.	Tree, regular bearing	Temperate Hills	Rare	Plenty	Nurseries	Aug-Oct	Fruit, Economy Generation		Marketing, Own use
Pear	<i>Pyrus Spp.</i>	Nakh	Patharnakh, China pear	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	Aug-Sep	Fruit, Economy Generation		Marketing, Own use
Peach	<i>Prunus Persica(L) Batsch</i>	Aaroo	July Elberta, Quetta	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries	June-July	Fruit		Marketing, Own use
Apricot	<i>Prunus Armeniaca</i>	Khubani, Sadi	Local apricot, Bebco	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	June-July	Fruit		Own Use
Walnut	<i>Juglans Regia</i>	Akhrot	Paper/Thin Shelled, Hard & Medium Shelled	Tree, regular bearing	Temperate Hills	Plenty	Plenty	Nurseries& Locally raised	Sept-Oct	Dry-fruit, Economy generation		Marketing, Own use
Plum	<i>Prunus Salicina</i>	Aaloo Bukhara	Santa rosa. Aloo Bukhara	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries& Locally raised	July-Aug	Fruit		Own use
Persimmon	<i>Dios Spyrus</i>	Amlook	Local	Tree, regular bearing	Mid/ Temperate Hills	Rare	Rare	Locally Raised	July-Aug	Fruit		Own use

Pecannut	<i>Carya illinoensis</i>	Pecan	western shell	Mid/temperate hills	rare	rare	Nurseries	Sept-Oct		Dry Fruit	Marketing	
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	santa rosa, Allo Bukhara	Mid Hills	Rare	Rare	Nurseries, locally raised	July-august		fruit	Marketing, own use	
Persimmon	<i>Diospyrus</i>	Amlook	Local	Mid/temperate hills	rare	rare	locally raised	July-august		fruit	Marketing	
Olive	<i>Olea europea</i>	Khao, jaiton	Local, Carotina	Mid/temperate hills	rare	rare	Govt. Nurseries	August-October		fruit	Marketing	
Quince	<i>Cydonia oblonga</i>	bhai	local	Mid/temperate hills	rare	rare	locally raised	July-September		fruit, seed	own use, Marketing	

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					
Ipomoea	<i>Ipomea spc.</i>	Zeharbael	Maize	Destroys the plant	temperate and intermediate	No weed management`	Scientific based weed management	Nil	Proper and timely removal	Nil	N/A	N/A
Ipomoea	<i>Ipomeaaqatica</i>	Ghaas	paddy	Destroys the plant	temperate and intermediate	No weed management`	Scientific based weed management	Nil	Proper and timely removal	Nil	N/A	N/A
Celosia	<i>Celosia Argentina</i>	Neeli	Paddy	Destroys the plant	temperate and intermediate	No weed management`	Scientific based weed management	Nil	Proper and timely removal	Nil	N/A	N/A
Mash	<i>Cyprus esceluntus</i>	Ghass	-		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed

Paddy	<i>Ipomeeaqatica</i>				Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
Paddy	<i>Celosia argentina</i>	Neeli	Cocks comb		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
All crops	<i>SolanumXanthocarpum</i>	Janglipatha	Wild eggplant		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
Paddy	<i>Eichhorniacrassepes</i>	Pannijadi	Water hyacinth		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
All crops	<i>Viciahirsua</i>	-	Chingarisak		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
All crops	<i>Cardiospermumhalicacabum</i>	-	Lataphatkari		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed

All crops	<i>Rumexcrispus</i>	Janglipalak			Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
All crops	<i>Setariaglauca</i>	Shitta	Foxtail		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
All fields	<i>Partheniumhysperophorus</i>	Chittaka			Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed

Format-5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect /Animals	Scientific Name	Local Name	Habitat	Time / Season of Attack	Management mechanism	Associated TK	Other Details	Community /Knowledge Holder
Paddy	Leaf folder	<i>Cnaphalocrocis medinalis</i>	Patta modak	Paddy fields	Tillering stage/Rainy season (monsoon)	Dragging rope across the field, light traps, spraying chloropyfos, cypermethrin, or Cartap hydrochloride to kill the larvae	Clipping of upper portion of seedlings is considered very effective management		
	Stem borer	<i>Scirpophaga incertulas</i>	Tanna shedak	Paddy fields	July to September	Soil solarisation in May or June.	ETL 5% Dead heart		
						1. Apply granules of Cartap Hydrochloride 4G @1.25 kg/kanal or Carbofuran 3G @1kg/kanal granules in 5-7.5 cm standing water & do not drain or irrigate the field for 72 hrs of application. 2. Or spray Cartap hydrochloride 50 SP @ 1gm/ lt water or Chloropyriphos 20 EC @ 2.5 ml/ lt water at ETL 5% Dead hearts			
	Aphids	<i>Sitobin avenae</i>	Tella	Polyphagous	Feb-April	Proper spray of insecticides			
	Pink stem borer	<i>Sesamia inferns</i>	Ludi	Polyphagus / debris	Nov-feb	Field sanitation and continuously remove and destroy the affected plants and stubbles completely.			

Paddy	Rice Hispa	<i>Dicladispa armigera</i>	kida	Paddy fields	July to September	Removal of weeds, Clipping of the leaf tips containing larva mines, In situations of high hispa incidence, skip nitrogen fertilizer top-dressing Spray crop with Chlorophyriphs 20 EC @ 2ml/lit or Quinophos 25 EC @ 1.5 ml per litre of water.		Top- dressing after the pest management measures can enhance recovery	
	Brown Plant Hopper	<i>Nilaparvata lugens</i>		Paddy fields	July to September	Remove weeds(co-host), install straw bundles to conserve predatory spiders, delay application of nitrogen fertilizer, Spray Imidachloropid 200 SL @ 3ml per 10 liter water or Acephate 75 WP @ 50 gm per kanal.			
Paddy	Grass hopper	<i>Hieroglyphus banian</i>	Tidda	Polyphagous	June to October	Scrap the bunds, Apply Methyl parathion 2% dust or malathion 5% @1.25 kg per kanal on the bunds. Spray Chloropyriphos 25 EC @ 2.4 ml or Malathion 50 EC @ 3.7 ml per liter of water.			
	Thread worm	<i>Strongyloides stercoralis</i>	Viscal	Low lying areas/paddy fields	July to October	Deep ploughing 2 to 3 times Crop rotation, Soil application with neem cake @ 100-120 kg/ ha Soil Application of Cartap Hydrochloride 4G @1.25kg/kanal or Carbofuran 3G @ 1kg/kanal or Chloroprifos 10G @ 500 gm/ kanal			

	Termites	<i>Odontotermis obesus</i>	Sink	Polyphagous/ sandy loam soils.	October to April	Thiamethoxam 30% FS @ 1.32 Kg per 40 Kg seeds or Chlorpyrifos 20% EC @ 3 – 4 ml/Kg seed and 0.8-1.2 l/acre as soil application		Avoid undecomposed FYM	
	Stem Borer	<i>Chilo partellus</i>	ludi	Polyphagous	Kharif	Field sanitation and continuously remove and destroy the affected plants and stubbles completely.			
Wheat	Grass hopper					Deep ploughing, follow crop rotation.			
						Use <i>Trichogramma</i> spp., <i>Chrysoperla carnea</i> and coccinellids cards. Application of Cartap Hydrochloride 4G @ 1.25kg/kanal or Carbofuran 3G @ 1kg/kanal in whorls of infested plants. Spray Cypermethrin 10% EC @ 1 ml lt water or Cartap hydrochloride 50 SP @ 1gm/ lt water at ETL 5% Dead hearts.			
		<i>Hieroglyphus banian</i>	Tidda	Polyphagous	March to May	Scrap the bunds, Apply Methyl parathion 2% dust or malathion 5% @ 1.25 kg per kanal on the bunds. Spray Chloropyrifos 25 EC @ 2.4 ml or Malathion 50 EC @ 3.7 ml per liter of water.			
						Eradicate/destroy the weeds Field sanitation Deep summer ploughing,		Schedule spray application only when approx 50% of eggs are	

Wheat	Cereal Leaf Beetle	<i>Oulema melanopus</i>		Kharif	Kharif	Destroy the eggs manually if possible.		50% of eggs are hatched as the chemicals are mostly effective against larval stage then eggs or adult stage.	
						Spray Chloropryphos 50% + Cypermethrin 5% EC @ 2.5 ml/lit water or chloropryphos 20EC@ 2.5 ml/lit water or cypermethrin 10 % EC @ 1ml per lit water or Thiamethoxam 12.6 % or acetamiprid 20 SP @ 1gm / lit water or spinosad @ 1gm/ lit water.			
Maize	Corn worm	<i>Helicoverpa armigera</i>	sundi	Maize cobs	Kharif	Weeds eradication, Setting up light traps for adults @ 1/acre.			
						Installing pheromone traps @ 6-10/acre.			
						Spray NSKE 5% against eggs and first instar larvae.			
						Spray crop with BT (<i>Bacillus thuringiensis</i>) @ 1 kg/ hectare or NPV formulations @ 250 LE in 500 lt water for hectare .			
						Spray crop with spinosad @ 1gm/ litre or or Malathion 50 EC @ 1ml per litre of water or Quinalphos 25 EC @ 2ml/lit water.			

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

Note: [1] (D) – day; (M) – month;

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

Format 7: Peoplescape

1	2	3	4	5	6	7	8	9	10	11
Community & Population	Families & Major occupation	Sub- occupation	Depending Landscape	Major resources accessed and seasons of access	Landscape management practices	Resource management practices	Cast / Tribe	Social condition	Nature of inhabitants	No. of HHs
	Govt. Employees	Farming	Farmlands	Do	Do	Timely & Proper fertilizers, Insecticides, fungicides and anti-bacterial sprays	GEN	NA	NA	136
	Farmers	Farming	Farmlands	Do	Do	Do	SC	NA	NA	69
	Farmers	Farming, Animal Husbandry	Farmlands	Do	Do	Do	GEN	NA	NA	121
	Farmers	Farming, Animal Husbandry	Farmlands	Do	Do	Do	ST	NA	Na	55
	Govt. Employees	Agriculture, Horticulture	Farmlands	Traditional Practices and accessed mainly after February till October	Land Levelling, Terrace formation	Do	SC	NA	NA	58

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

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

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

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

Format 8: Landscape

1			2	3	4	5	6	7	8	9	10	11	12
Major Landscapes			Sub - Landscapes	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			Cultivated	Fertile land 120 ha	Private	Plants, Herbs	Rodents, insects	Villagers	Crop Rotation, Terracing	Cultivation	Used for farming	Nil	Low income communities
Non Cultivated			Non-Irrigated Land	Less fertile 15 ha	Govt. as well as private	Marshy, Swampy plants	Insects and Amphibians	Villagers	Crop Rotation, Terracing	Cultivation	Available for farming	Nil	Low income communities
Forest Land			Forest Land	Forests 120 ha	Govt. Land	Deodar, Pine, Spruce etc.	Wild animals, Insects	Villagers	Afforestation, Closers	Firewood, timber, medicinal plants etc.	N/A	Nil	Every Community
Grazing Land			Non-Irrigated Land	Lush Green 45 ha	Govt. Land	Plants, Herbs	Rodents, insects	Villagers	Nil	N/A	N/A	Nil	Every Community
Irrigated Land			Irrigated land	Fertile land 99.5 ha	Private land	Rice, Vegetables flowers etc.	Amphibians, Insects	Zamindars	Canals, Channels, Khuls, Distributories etc	Crop Cultivation	Available for farming	Nil	Every Community

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

Format 11: Fruit Trees

1	2	3	4	5	6	7		8	9	10	11	12	13
Plant	Scientific Name	Local Name	Variety	Habit	Landscape /Habitat	Local Status		Source of Seeds / Plants	Season of fruiting	Usage	Associated TK	Other Details markt / own use	Community /Knowledge Holder
						Past	Present						
Apple	<i>Malus Domestica, Borkh</i>	Saib	Red Delicious, Golden Delicious, Maharaji, American etc.	Tree, regular bearing	Temperate Hills	Rare	Plenty	Nurseries	Aug-Oct	Fruit, Economy Generation		Marketing, Own use	
Pear	<i>Pyrus Spp.</i>	Nakh	Patharnakh, China pear	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	Aug-Sep	Fruit, Economy Generation		Marketing, Own use	
Peach	<i>Prunus Persica(L) Batsch</i>	Aaroo	July Elberta, Quetta	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries	June-July	Fruit		Marketing, Own use	
Apricot	<i>Prunus Armeniaca</i>	Khubani, Sadi	Local apricot, Bebco	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	June-July	Fruit		Own Use	

Walnut	<i>Juglans Regia</i>	Akhrot	Paper/Thin Shelled, Hard & Medium Shelled	Tree, regular bearing	Temperate Hills	Plenty	Plenty	Nurseries & Locally raised	Sept-Oct	Dry-fruit, Economy generation		Marketing, Own use	
Plum	<i>Prunus Salicina</i>	Aaloo Bukhara	Santa rosa. Aloo Bukhara	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries & Locally raised	July-Aug	Fruit		Own use	
Persimmon	<i>Diospyrus</i>	Amlook	Local	Tree, regular bearing	Mid/ Temperate Hills	Rare	Rare	Locally Raised	July-Aug	Fruit		Own use	
Pomegranate	<i>Punica granatum</i>	Anar, Druni	Ganesh, Kandhari, Local	Tree, shrub, regular bearing	plains, mid hills	rare	rare	Nurseries, locally raised, wild	May-August	fruit, anardana		own use	
Olive	<i>Zaitoon</i>	<i>Oleaeuropea</i>	Carolea, CoratinaFrontoio		Mid hills	-	-	Govt. ACHD Ramban	Rainy	-	Oil		Farmer/ Department of Horticulture
Persimmon	<i>Diospyrus kaki</i>	<i>Amlook</i>	Fuyu, Jiro, Hachia		Mid hills	-	-	Govt. Nurseries	Rainy	-	Fresh/Dry Fruit		Farmer/ Department of Horticulture

Lime	<i>Nimboo</i>	<i>Citrus aurantiifolia</i>	Kagzi, Eureka lime, Baramasi		Lower hills upto Mid hills	-	-	Govt. Nursery/ Private Registered Nry	Around the year	-	Fresh Fruit	-	Farmer/ Department of Horticulture
Pomegranate	<i>Anardana, Daroo</i>	<i>Punicagranatum</i>	Anardana, Kandhari, Ganesh		Lower hills upto Mid hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Anardana		Farmer/ Department of Horticulture
Kiwi	<i>Kiwi</i>	<i>Actinidiadelicosa</i>	Allison, Abbot, Tomuri, Hayward		Mid hills upto High hills	-	-	ACHD Ramban	Rainy	-	Fresh Fruit		Farmer/ Department of Horticulture
Fig	<i>Ficuscarica</i>		Local		Mid hills	-	-	Govt. Nursery/ Private Registered Nry	Rainy	-	Fresh Fruit		Farmer/ Department of Horticulture

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

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Source of Plant/seeds	Location Status		Uses (usage)	Part used	Associated TK	Other details market/own use	Community know Holders
						Past	Present					
Herb	Pyaz	<i>Allium cepa</i>	Local	Temperate	cultivated	Available	Available	To cure cough and cold	Root	Used for cough and cold	Extract	Self-observation
Herb	Lahsun	<i>Allium sativum</i>	Local	Temperate	cultivated	Available	Available	To cure wounds	Whole plant	Used for wounds	As such	Self-observation
Herb	Pudina	<i>Menthe spicata</i>	Local/wild	Temperate	cultivated	Available	Available	To cure infections	Leaf	Used for infection	Medicated acupressure	Self-observation
Herb	Tamatar	<i>Solarium lycopersium</i>	Local	Temperate	cultivated	Available	Available	To cure heart and kidney diseases	Fruit	Heart and kidney diseases	Fruit	Self-observation
Shrub (evergreen)	Kimbal	<i>Berberis lycium</i>	Local	Temperate- usually grow on hot dry slopes	Natural /cultivated	Available	Available	Medicinal use and used as fodder for goats and rabbits	Whole including roots	Roots have the potential to cure jaundice .Besides, a yellow dye is obtained from roots.	Both	Self-observation
Tree	Pear (Nashpati)	<i>Pyrus communis</i>	Local	Home-garden	graftings	Available	Available	Fruits are eddible	Fruit	-----	Both	Self-observation
Tree	Appricot (Khubani)	<i>Prunus armeniaca</i>	Local	Home garden	graftings	Available	Available	Fruits are eddible	Fruit	Leaves are used as fodder	Both	Self-observation

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	Walnut	<i>Juglans regia</i>	Temperate	Least	plenty	Wild , home	Furniture, tooth cleaner		unknown	
Tree	Banj	<i>Quercus incana</i>	Temperate	Plenty	plenty	Wild	Firewood		Unknown	
Tree	Apricot	<i>Prunusar meniaca</i>	Temperate	Least	plenty	Wild, home	Furniture, firewood		Unknown	
Tree	Peach	<i>Prunus persica</i>	temperate	Least	plenty	Wild, home	Firewood		Unknown	
Tree	Kharsoo	<i>Quercus semicarpifolia</i>	Temperate	Plenty	plenty	Wild	Firewood		unknown	
Tree	Khau	<i>Olea cuspidata</i>	Temperate	Plenty	least	Wild	Firewood		unknown	

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 Gai	Bos indicus	ND	Small, Low milk produce	Free range/ semi intensive	Plenty	Number decreased	Females= Dairy Males= Draft	Nil	No	Milk, Butter, curd, Ghee etc	All
	Jersey Gai	Bos taurus	CB Jersey	Larger, More Milk Produce	Free range/ semi intensive	Few	Number increased	Dairy	Nil	No	Milk, Butter, curd, Ghee etc	All
	Shari/Durangi Gai	Bos taurus	CB HF	Black & white	Free range/ semi intensive	Few	Number increased	Dairy	Nil	No	Milk, Butter, curd, Ghee etc	All
	Horse	Equus caballus	Local	Ht. < 9 hands	Backyard	Less No.	Very few	Pack Purpose	Nil	No	Pack	All
Equine	Mule	-----	Local	Ht. < 9 hands	Backyard	Less No.	Inc. Pop.	Pack purpose	Nil	No	Load Carrying	All
	Desi murgi	Gallus domesticus	Local	Colored, Good meat	Backyard	Constant	Constant	Egg, meat	Nil	No	Egg, meat	All
	Farmi murgi	Gallus domesticus	Chabro Cross	Colored, more eggs	Backyard	Few	Increased	Egg, meat	Nil	No	Egg, meat	All
Poultry	Broiler	Gallus domesticus	Hybrid	White color	Deep litter	Few	Increased	Meat	Nil	Yes	Meat	All
Dog	Kutta	Canis Familiaris	Local	-----	Stray	Abundant	Abundant	Nil	Nil	No	No	Stray
Cat	Billi	Felis Catus	Local	Grey colored	Pet	Abundant	Abundant	Nil	Nil	No	Nil	Nil

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					
Fresh Water Fish	Carp Fish	<i>Cyprinus carpio</i>	European	Dorsal fin based long with 17-22 branched rays	Snow fed stream	Plenty	Abundant	Food	Nil	No	n/a	Mehigirs & Deptt. Of fisheries
Cold Water	Desi Gad	<i>Schizothorax</i>	Indigenous	Elongated tube form with short snout barbules, lower lip folded	Snow fed stream	Plenty	Abundant	Food	Nil	No	n/a	Mehigirs & Deptt. Of fisheries
Cold Water Fish	Trout	<i>Rainbow Trout</i>	Indigenous	Body elongated with small scales and adipose fin	Snow fed stream, colder region	n/a	In govt. farms, Pvt. Ponds	Food	Nil	Yes	n/a	Mehigirs & Deptt. Of fisheries

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

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

1	2	3	4	5	6		7	8	9	10	11
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial / own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Tree	Deodar	<i>Cedrus deodara</i>	Tree	Temperate	dense	Least	Commercial, own use	Whole for different uses		Roofing, furniture etc	Gh Hassan
Tree	Kail	<i>Pinus wallichiana</i>	Tree	Temperate	dense	Least dense	Commercial, own use	Whole for different uses		Roofing, furniture etc	Khalid hussain
Tree	Chir	<i>Pinus roxburghii</i>	Tree	Temperate	dense	Least dense	Commercial, own use	Whole for different uses		Roofing, furniture etc	Sant Ram
Plant	Bankakri	<i>Podophyllum hexandrum</i>	Plant	Temperate	Available	Available	Commercial, own use	Fruit		It has been found to be effective in controlling skin diseases and recently attracted attention for use in certain form of cancer	

Herb	Banafsha	<i>Viola odorata</i>	Herb	Temperate	Available	Available	Commercial, own use	Flower		Flowers are used in perfumery and are also used medicinally as demulcent and biliousness and lungs troubles	
Climber	Kins	<i>Dioscorea deltoidea</i>	Climber	Temperate	Available	Available	Commercial, own use	Tuber		The tubers yield Diosgenin, which is used to synthesize sex hormones and Corisone, Cortisone is extensively used in rheumatism and allergic conditions. Propagation of the species is through rhizome.	
Mushroom	Guchhies	<i>Morchella spp.</i>	Mushroom	Temperate	Available	Available	Commercial, own use	Whole plant		Used in medicines preparation	
Shrub	Tiundh	<i>Viburnum tinus</i>	Shrub	Forest	Good availability	Good availability	Own use	Whole plant	Medicinal values, fruits are edible	Fruit is edible	Self observation
Fungus	Gucchi	<i>Morchella esculenta</i>	Fungus	Forest	Good availability	low	Commercial, own use	Whole part	Medicinal values and are edible	-	Self observation

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Status
1	Akhroot	<i>Juglans regia</i>	wild	Economically important as farmer fetches good price, socially important for different cuisines, improves good cholesterol	
2	Bhang	<i>Cannabis sativa</i>	wild	Commercial extraction banned, given to animals to improve their health	
3	Wild Pomegranate	<i>Punica grantum</i>	wild	Used in making chutney	Extracted by farmers by along roadside of hilly areas of the district
4	GuchiMashroom	<i>Morchella esculenta</i>	wild	Dried and sold which fetches Rs.10000-15000 per Kg Used in making pulao (cuisine), as aphrodisiac in medicine	
5	Kasrod	<i>Diplazium</i>	wild	Used as vegetable, collected by locals and sold	

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Trends
Nil	Nil	Nil	Nil	Nil	Nil

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	Part used	Other details market/own use	c.knowledge holder
					Past	Present					
Plant	Bankakri	<i>Podophyllum hexandrum</i>	plant	Temperate	Available	Available	Available	It has been found to be effective in controlling skin diseases and recently attracted attention for use in certain form of cancer	Fruit		
Herb	Banafsha	<i>Viola spp.</i>	Herb	Temperate	Available	Available	Available	Flowers are used in perfumery and are also used medicinally as demulcent and biliousness and lungs troubles	Flower		
Climber	Kins	<i>Dioscorea deltoidea</i>	Climber	Temperate	Available	Available	Available	The t yield Diosgenin, which is used to synthesize sex hormones and Corisone, Cortisone is extensively and used in rheumatism and allergic conditions. Propagation of the species is through rhizome.	Tuber		
Mushroom	Guchhies	<i>Morchellaspp</i>	Mushroom	Temperate	Available	Available	Available	Used in medicines prepration	Whole plant		

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	Ass. TK	Mode of hunting	Other details	Community/ Knowledge Holder
						Past	Present					
Mammal Carnivore	Chitra	<i>Panthera pardus</i>	Forest		All time	Available	Less	no		Prohibited	Maintains forest ecosystem	Self-observed
Mammal	Reech	<i>Selenarctost hibetanus</i>	Forest		Summer season	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	GhorBla	<i>Felis bengalensis</i>	Forest		All season	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mamal	Jungle bili	<i>Felis Chaus</i>	Forest		summer	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	shal	<i>Herpetesauropunctatus</i>	Forest		summer	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Gidh	<i>Cains aureseus</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Fakal	<i>Vulpes vulpes</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Dink	<i>Martes foina</i>	Forest		summer	Available	Less	No		Prohibited	Maintains forest ecosystem	

Rodent	Navel	<i>Lepus nigricollis</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Titar	<i>Frabcikuby sfrancolinus</i>	Forest		Not available	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Chakor	<i>Alectoris graeca</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Ghugi	<i>Strepto peliadecaocto</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Iel	<i>Gyps himayensis</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Khukhow	<i>Clamato rJacabinu</i>	Forest		Spring season	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	DhikCharak	<i>Picus chololorolphus</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Kova	<i>Corvus smacrorhynchos</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Snake	Surf /sap		Forest /water		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Fishes	Machli	<i>Himaliyan trout</i>	water		All time	Available	Available	No		Prohibited	Maintains forest ecosystem	
Birds	Eagle owl	<i>Bubo bubo</i>	Forest/village		All season	Common	Common	-	Unknown	-	-	Generally, held by community
Birds	Gold billed blue magpie	<i>Urocissa flavirostris</i>	Forest/village		All season	Common	Common	-	Unknown	-	-	Generally, held by community

Birds	Green backed tit	<i>Parus monticolus</i>	Forest/village		All season	Common	Common	-	Unknown	-	-	Generally, held by community
Birds	Griffon vulture	<i>Gyps fulvus</i>	Forest/village		All season	Rare	Rare		Unknown			Generally, held by community
Birds	Himalayan pied wood-pecker	<i>Dendrocopos himalayensis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Himalayan tree-creeper	<i>Certhia discolor</i>	Forest		All season	Common	Common		Unknown			Generally, held by community
Birds	House sparrow	<i>Passer domesticus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Jungle crow	<i>Corvus macrorhynchos</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Koel	<i>Eudynamys scolopaceas</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Pariah kite	<i>Milvus migrans govinds</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Peregrine	<i>Falco peregrines</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Pied or white wagtail	<i>Motacilla alba</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Plumbeous water-redstart	<i>Rhyacornis fuliginosus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Red jungle fowl	<i>Gallus gallus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community

Birds	Rose ringed parakeet	<i>Psittacula krameri</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Rufous trustle dove	<i>Streptopelia orientalis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Scaly-bellied green woodpecker	<i>Picus squamatus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Slaty blue flycatcher	<i>Muscicapa leucomelana</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Slaty-headed parakeet	<i>Psittacula himalayana</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Sparrow hawk	<i>Accipiter nisus nisosimilis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Spotted forktail	<i>Enicurus maculates</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Starling	<i>Sturnus vulgaris</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Swallow	<i>Hirundo rustica</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Swift	<i>Apus apus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Tickells leaf-warbler	<i>Phylloscopus affinis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Tree sparrow	<i>Passer montanus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community

Birds	Tytlér's leaf-warblers	<i>Phylloscopus tytléri</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Variégated laughing thrush	<i>Garrulax variegates</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Western tragopan	<i>Tragopan melanocephalus</i>	Forest		All season	Common	Common		Unknown			Generally, held by community
Birds	White breasted kingfisher	<i>Halcyon omyrnensis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	White cheeked bulbul	<i>Pycnonotus leucogenys</i> <i>Leucogenys</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	White cheeked nuthatch	<i>Sitta leucopsis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	White throated tit	<i>Aegithalos leucogenys</i>	Forest/village		All season	Rare	Rare		Unknown			Generally, held by community
Birds	White-breasted dipper	<i>Cinclus cinclus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	White-browed rosefinch	<i>Carpodacus thura</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	White-capped water-redstart	<i>Chairmarrornis leucocephalus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	White-winged redstart	<i>Phoenicurus erythrogaster</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Wren	<i>Troglodytes troglodytes</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community

Birds	Wryneck	<i>Jynx torquilla</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Yellow wagtail	<i>Motacilla flava</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Yellow-headed wagtail	<i>Motacilla citreola</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Wren	<i>Troglodytes troglodytes</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Wryneck	<i>Jynx torquilla</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Yellow wagtail	<i>Motacilla flava</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Birds	Yellow-headed wagtail	<i>Motacilla citreola</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Himalayan bent toad Gecko	<i>Cyrtodactylus himalayanus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Lawder's bent toad gecko	<i>Cyrtodactyluslawderanus</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Baltistan gecko	<i>Altiphylaxstoliczkai</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Thin toad gecko	<i>Cyrtopodionmontiumalsorum</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Kashmir rock agama	<i>Laudakiatuberculata</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community

Reptiles	Himalayan Agama	<i>Paralaudakiahimalayana</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Oriental garden lizard	<i>Calotes cf. versicolor</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Theobald's toad-headed agama	<i>Phrynocephalus theobaldi</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community
Reptiles	Ladakh ground skink	<i>Asymblepharus ladacensis</i>	Forest/village		All season	Common	Common		Unknown			Generally, held by community

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.)
1	Leopard	<i>Panthera pardus</i>	Mammals	Forest/village	Rare
2	The Indian Fox	<i>Vulpes bengalensis</i>	Mammals	Forest/village	Rare
3	Five Stripped Palm Squirrel	<i>Funambulus Penanti</i>	Mammals	Forest/village	Rare
4	The Indian Field Mouse	<i>Mus booduga</i>	Mammals	Forest/village	Rare
5	The Rhesus Macaque	<i>Macaca mulatta</i>	Mammals	Forest/village	Rare
6	Blue rock pigeon	<i>Columba livia</i>	Birds	Forest/village	Common
7	Blue whistling thrush	<i>Myophonus caeruleus</i>	Birds	Forest/village	Common
8	Cinamon tree sparrow	<i>Passer rutilans</i>	Birds	Forest/village	Common
9	Common kingfisher	<i>Alcedo atthis</i>	Birds	Forest/village	Common
10	Himalayan Rufous Turtle Dove	<i>Streptopelia orientalis meena</i>	Birds	Forest/village	Common
11	Slaty-headed parakeet	<i>Psittacula himalayana</i>	Birds	Forest/village	Common
12	Snow partridge	<i>Larwa lerwa</i>	Birds	Forest	Rare

13	Spotted dove	<i>Stigmatopelia chinensis</i>	Birds	Forest/village	Common
14	Swallow	<i>Hirundo rustica</i>	Birds	Forest/village	Common
15	Swift	<i>Apus apus</i>	Birds	Forest/village	Common
16	White breasted kingfisher	<i>Halcyon omyrnensis</i>	Birds	Forest/village	Common
17	White cheeked bulbul	<i>Pycnonotus leucogenys</i> <i>Leucogenys</i>	Birds	Forest/village	Common
18	White throated tit	<i>Aegithalos leucogenys</i>	Birds	Forest/village	Rare
19	Common skittering frog	<i>Euphlyctiscyanophlyctis</i>	Amphibians	Forest/village	Common
20	Indian Bull frog	<i>Hoplobatrachustigerinus</i>	Amphibians	Forest/village	Common

Format 31: Any other information of local importance

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

End of Part II