

## People Biodiversity Register (PBR): General Details

**Name of the Panchayat Samiti:** Udrana A

**Taluk:** Bhaderwah

**District:** Doda

**State:** J&K UT

**Geographical Area of the Panchayat Samiti:** 161.3 Hac.

Population under the Panchayat Samiti: 3500

**Male:** 2000

**Female:** 1500

**Habitat and Topography:** Hilly and plain both

Climate (Rainfall, Temperature and weather patterns): Temperate with moderate rainfall

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

**Date, Month and Year of PBR Preparation:** 11/12/2020

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

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

**1)Name of the Chairperson:** Mohd Ramzan Butt

**Age:** 70

**Gender:** Male

**Address:** Udrana

**Area of specialization:** Sarpanch

**2) Name:** Amina Begum

**Age:** 65

**Gender:** Female

**Address:** Udrana

**Area of specialization:**

**3) Name:-** Brama Devi

**Age:** 65

**Gender:** Female

**Address:** Udrana

**Area of specialization:**

**4)Name:** Shiv devi

**Age:** 60

**Gender:** Male

**Address:** Udrana A

**Area of specialization:**

**5)Name:** Atta Mohd

**Age:** 82

**Gender:** Male

**Address:** Udrana

**Area of specialization:**

**6)Name-** Mohd Ashraf sheikh

**Age:** 70

**Gender:** Male

**Address:** Udrana

**Area of specialization:**

**7)Name:** Parveen Kousar

**Age:** 39

**Gender:** female

**Address:** Udrana

**Area of specialization:** panchayat secretary

<b>List of Vaid, hakims and traditional health care (Human and livestock) practitioners residing and or using biological resources within the jurisdiction of the village</b>
<b>1)Name:</b> Mohd Ashraf Sheikh
<b>Age:</b> 70
<b>Gender:</b> Male
<b>Address:</b> Udrana
<b>Area of specialization:</b> Traditional health care
<b>Location from which the person accesses biological material:</b> Forest
<b>Perception of the practitioner on the resource status:</b> Satisfactory
<b>Medicinal Use:</b> Satisfactory for livestock and human
<b>2) Name :</b> Narayan Singh
<b>Age:</b> 61
<b>Gender:</b> Male
<b>Address:</b> Udrana
<b>Area of specialization:</b> Traditional Health Care
<b>Location from which the person accesses biological material:</b> Udrana
<b>Perception of the practitioner on the resource status:</b> Satisfactory
<b>Medicinal Use:</b> Satisfactory for human
<b>3)Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>Location from which the person accesses biological material:</b>
<b>Perception of the practitioner on the resource status:</b>
<b>Medicinal Use:</b>

**List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry****1) Name of the Chairperson:** Nagesh Kotwal**Age:** 55**Gender:** Male**Address:** Udrana**Area of specialization:** farming**5) Name of the Chairperson:** Sajid Rashid**Age:** 44**Gender:** Male**Address:** Udrana**Area of specialization:** Agriculture**3) Name of the Chairperson:** Shaid Hussain**Age:** 45**Gender:** Male**Address:** Udrana**Area of specialization:** Agriculture**4) Name of the Chairperson:** Muzamil Sheikh**Age:** 35**Gender:** Male**Address:** Udrana**Area of specialization:** Fisheries

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

1) **Contact Person:** 9906072344

**Name and Address:** Mohd Sharief

2) **Contact Person:** 8082023742

**Name and Address:** Majid butt

3) **Contact Person:**

**Name and Address:**

4) **Contact Person:**

**Name and Address:**

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

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

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

*End of Part I*

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

**Format 1: Crop Plants**

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape /Habitat	Approx Area 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		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 <sup>th</sup> april.	NA	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Wheat	<i>Triticum aestivum</i>	Kanak, gandham	HS-240, VL-804, HS-507	Hilly, temperate and intermediate		Local varieties	Improved varieties	Late maturity	Rabi	Food item, used as flour, feed to cattle, poultry etc.	NA	NA	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Brown Mustard	<i>Brassica juncea</i>	Sarsoon	Local, KS-101, KOS-1	Temperate and intermediate		Local varieties and low production	Improved varieties and high production	Crop severely affected by the snowfall during the month of dec-feb	Rabi	Green leaves used as vegetables and seeds used for extracting oil used in cooking and for other relevant purposes		NA	Farm saved seed, from peer groups of farmers, from deptt. Of agriculture and other relevant sources	Cultivation and management practices among the farming communities across the district.
Rice	<i>Oryza sativa</i>	Dhan	Desi chawal	Temperate and intermediate		average production	improved varieties and average production		Kharief	Staple food	Energy rich	NA	HH kept seed, Deptt. Of agriculture, private seed dealers	Farmers of the area
Tomato	<i>Lycopersicum esculentum</i>	Ruwangum	cherry tomato, roma SS-1	temperate and intermediate		average production	average production	more sour in taste	kharief	rich in vitamin c and lycopene	suitable for plain areas		Seed being traditionally cultivated, 'department of agriculture	Local/ Aged farmers of rural communities possess TK
Kale	<i>Brassica oleracea</i>	Haak	G.M Dari, Khanyari	Hilly temperate and intermediate		Plenty	plenty	high yield production	Kharief and Rabi crop	Ass vegetable	Rich in fibre	Suitable for all areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Bottle gourd	<i>Lagenaria siceraria</i>	Aul	Local variety	Hilly temperate and intermediate		Plenty	plenty	high yield production	Kharief	As vegetable	good for health	Suitable for all areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK

Potato	<i>Solanum tuberosum</i>	Aalu	Pahadi aalu	Hilly temperate and intermediate		Plenty	plenty	high yield production	kharief	as vegetable and chips	rich in proteins and carbohydrates	suitable for almost plain areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
French beans	<i>Phaseolus vulgaris</i>	frashbean	pahadibean	Hilly temperate and intermediate		local varieties	Improved varieties and high production	high yield production	may to october	As vegetable	rich in iron and magnese	Suitable for all areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK



**Format-2 : Fruit Plants**

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape /Habitat	Local Status		Source of Seeds / Plants	Season of fruiting	Associated TK	Uses	Other Details markt / own use	Community /Knowledge Holder
					Past	Present						
Apple	<i>Malus domestica</i>	Saib	Red Delicious, Golden Delicious, Maharaji, American etc.	Temperate Hills	Rare	Plenty	Nurseries	Aug-Oct		Fruit, Economy Generation		department of horticulture
Pear	<i>Pyrus spp.</i>	Nakh	Patharnakh, China pear	Mid Hills	Plenty	Plenty	Nurseries	Aug-Sep		Fruit, Economy Generation		department of horticulture
Peach	<i>Prunus persica</i>	Aaroo	July Elberta, Quetta	Mid Hills	Rare	Rare	Nurseries	June-July		Fruit		department of horticulture
Apricot	<i>Prunus armeniaca</i>	Khubani, Sadi	Local apricot, Bebeo	Mid Hills	Plenty	Plenty	Nurseries	June-July		Fruit		department of horticulture
Walnut	<i>Juglans regia</i>	Akhrot	Paper/Thin Shelled, Hard & Medium Shelled	Temperate Hills	Plenty	Plenty	Nurseries& Locally raised	Sept-Oct		Dry-fruit, Economy generation		department of horticulture
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	Santa rosa. Aloo Bukhara	Mid Hills	Rare	Rare	Nurseries& Locally raised	July-Aug		Fruit		department of horticulture
Pecannut	<i>Carya illinoensis</i>	Pecan	Western shell	Mid/temperate hills	Rare	Rare	Nurseries	Sept-Oct		Dry Fruit	Marketing	department of horticulture
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	Santa rosa, Allo Bukhara	Mid Hills	Rare	Rare	Nurseries, locally raised	July-august		Fruit	Marketing, own use	department of horticulture
Persimmon	<i>Diospyros</i>	Amlook	Local	Mid/temperate hills	Rare	Rare	Locally raised	July-august		Fruit	Marketing	department of horticulture
Quince	<i>Cydonia oblonga</i>	Bhai	Local	Mid/temperate hills	Rare	Rare	locally raised	July-September		Fruit, Seed	own use, Marketing	department of horticulture
Grapes	<i>Vitis vinifera</i>	Dasch	local	Mid/ temperate	Average	Average	locally raised,govt nurseries	July to september		Fruit	own use, Marketing	department of horticulture
Pomegranate	<i>Punica granatum</i>	anaar	anaar	Mid/temperate hills	average	average	locally raised	July-September		Fruit	own use, Marketing	department of horticulture

**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 Seeds / Plants	Associated TK	Part Used	Other Details	Community /Knowledge Holder
				Past	Present					
Oats	<i>Avena sativa</i>	Ghaas	Temperate/ Intermediate/	Local varieties	Improved varieties	Self	Stored in locally made indigenous structure called “Tye”and rich fodder for diary animals	Steam and leaves	NA	NA
Berseem (Egyptian Clover)	<i>Trifolium alexandrium</i>	Gjaas	Irrigated areas	NA	Improved varieties	Self	NA	Crop	NA	NA
Sorghum	<i>Sorghum bicolor</i>	charri	Temperate/ Intermediate	local varities	local varities	self	NA	crop		local farmers of rural community
Jhonson grass	<i>Sorghum halepense</i>	Bray	Temperate/ Intermediate	local varities	Improved varieties	self	NA	crop	ciated with maize	local farmers of rural community
lambs quarters	<i>Chemoporium album</i>	kunah /bathua	Temperate/ Intermediate	local varities	Improved varieties	self	NA	crop	ciated with maize	local farmers of rural community
Loonder grass	<i>Themeda anathera</i>	ghass	Temperate/ Intermediate	local varities	local varities	self	NA	Whole	om making and use	local farmers of rural community

**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 sp.</i>	Zeharbael	Maize	Destroys the plant	Temperate and Intermediate	No weed management	Scientific based weed management	Nil	Proper and timely removal	competes with main crop	NA	NA
Ipomoea	<i>Ipomea aquatica</i>	Ghaas	paddy	Destroys the plant	Temperate and Intermediate	No weed management	Scientific based weed management	Nil	Proper and timely removal	Nil	NA	NA
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	NA	NA
Mash	<i>Cyprus esculentus</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
water clover	<i>Marsilia quadrifolia</i>	Ham, Aaw	Paddy	Affect crop yield	Temperate and Intermediate	plenty	Weed management on scientific lines being followed by the farmers	nil	weedicide Butachlore	competes with main crop	NA	local farmers
Dub grass	<i>Cynodon dactylon</i>	Dramun	vegetables	Affect crop yield	Temperate and Intermediate	Average	Weed management on scientific lines being followed by the farmers	nil	using weedicide	competes with main crop	NA	local farmers
Johnson grass	<i>Sorghum halepense</i>	Bray	Maize	Affect crop yield	Temperate/ Intermediate	average	Weed management on scientific lines being followed by the farmers	nil	hand picking	competes with main crop		local farmers of rural community
Milk weed	<i>Euphorbia thymifolia</i>	Dudli	maize	Affect crop yield	Temperate/ Intermediate	Average	Weed management on scientific lines being followed by the farmers	nil	using weedicide or hand picking	competes with main crop	NA	local farmers of rural community

### 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
	Leaf folder	<i>Cnaphalocracis</i>	Patta Modak	Paddy fields	Tillering stage/ monsoon	Dragging rope across the field, light traps, spraying chloropyryfos, cypermethrin or cartap hydrochloride to kill the larvae	Clipping of upper portion of seedlings	NA	NA
Paddy	Stem Borer	<i>Scirpophaga incertulas</i>	Tanna shedak	Paddy fields	July to September	Soil solarisation in May or June. Cartap hydrochloride 4G @1.25kg/Kanal or carbofuran 3G @1Kg/Kanal`	NA	ETL 5% dead heart	NA
	Aphids	<i>Sitoboin avenae</i>	Tella	Polyphagous	Feb-April	Proper spray of insecticides	NA	NA	NA
	Pink stem borer	<i>Sesamia inferens</i>	Ludi	Polyphagous/ debris	Nov-feb	Field sanitisation and continuous removal and destruction of infected plants	NA	NA	NA
Wheat	Termites	<i>Odontotermis</i>	Sink	Polyphagous/ sandy and loamy soils	Kharif	Field sanitisation and continuous removal and destruction of infected plants	NA	NA	NA
	Stem borer	<i>Chilo partellus</i>	Ludi	Polyphagous	Kharif	Field sanitisation and continuous removal and destruction of infected plants	NA	NA	NA
Maize	Corn worm	<i>Helicoverpa armigera</i>	Sundi	Maize cobs	Kharif	Field sanitisation and continuous removal and destruction of infected plants. Installing pheromone traps @ 6-10/acre	NA	NA	NA
Tomato	fruit borer	<i>Helicoverpa zea</i>	corn earworms	leaves ,shoots ,buds and flower	may -september	spray dimethoate	Reduces crop yield	NA	local farmers of rural community
vegetables	leaf borer	<i>Spodoptera exigua</i>	pediye	attack on leaves	Kharif	Proper spray of insecticides	Reduces crop yield	NA	local farmers of rural community

Bottleguard	fruitfly	<i>Dacus cucurbitae</i>	stem rot	pulp of the fruits	july to october	Dusting with some repellents	causes fungal and bacterial infection	NA	local farmers of rural community
Rajma	watery soft rot	<i>Sclerotinia sclerotiorum</i>	Dhoru	stem, leaves and pods	july to october		Reduces crop yield	NA	local farmers of rural community
Potato	white grab	<i>Holotrichia species</i>		root and tubers	march= nov	drench the soil with chloropyriphas	Reduces crop yield	NA	local farmers of rural community
Maize	Armyworm	<i>Spodoptera frugiperda</i>	Tokka	upper part of maize	Kharif	Proper spray of insecticides	Reduces crop yield	NA	local farmers of rural community

**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
Udrana	Anually	sheep , goat,		Loacally and outside valley	different areas of the villages			

**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 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	Associated TK	Uses	Other Details market / own use	Community /Knowledge Holder
						Past	Present						
Apple	<i>Malus domestica</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	Department of horticulture
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	Department of horticulture
Peach	<i>Prunus persica</i>	Aaroo	July Elberta, Quetta	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries	June-July	Fruit		Marketing, Own use	Department of horticulture
Apricot	<i>Prunus armeniaca</i>	Khubani, Sadi	Local apricot, Bebco	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	June-July	Fruit		Own Use	Department of horticulture
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	Department of horticulture
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	Department of horticulture
Almond	<i>Prunus amygdalus</i>	badam	local	Tree, regular bearing	Mid Hills	Average	Rare	locally raised or department of agriculture	july to sept	dry fruit economy generation		Marketing, Own use	Department of horticulture
Fig	<i>Ficus carica</i>	Anjeer	local	Tree, regular bearing	Mid/temperate hills	Average	average	Nurseries	Aug-Oct	fruit		Marketing, own use	Department of horticulture
		Tanchi	local	Tree, regular bearing	Mid/temperate hills	Average	average	Nurseries	July-august	fruit		Own use	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					
Tree	Anjeer	<i>Ficus carica</i>	Local	Temperate	Wild	Available	Available	To cure multiple uses	Whole tree	To cure multiple diseases	both	Local people
Herb	Tamatar	<i>Solanum lyopersicum</i>	Local	Temperate	Cultivated	available	Available	To reduce heart diseases, kidney stones and gall bladder stones	Fruit	Cure heart and stone diseases	Fruit	Local people
Herb	Dhaniya	<i>Coriandrum sativum</i>	local	Temperate	Cultivated	Available	Available	Used for loss of appetite, tooth aches	Seeds	Cure pain	Seeds	Local people
Herb	Pudina	<i>Mentha spicata</i>	Local/wild	Temperate	Cultivated/ naturally grown	available	Available	To cure infection	Leaf	Cure infection	both	Local people
Herb	Pyaz	<i>Allium cepa local</i>	Temperate	Cultivated	available	Available	To cure cold and cough	Roots	To relive cough and cold	Extract	both	Local people
Herb	Lahsun	<i>Allium sativum</i>	Local	Temperate	cultivated	Available	Available	To cure wounds	Whole plant	Used for wounds	As such	Local people
Herb	Green Chilly	<i>Capsicum annuum</i>	Local	Temperate	cultivated	Available	Available	To improve immune system	entire	Improve eye site	Fruit	naturally / rural farmers
Herb	chooray	<i>Angelica glauca</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	dysentery, stomach troubles, infantile atrophy,menorrhagia andrinderpest	stems	available	marketing and own use	naturally / rural farmers
Herb	Patreesh	<i>Aconitum heterophyllum</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	used against diarrhoea, general weakness and fever	roots	available	marketing and own use	naturally / rural farmers
Herb	Ceski	<i>Artemissia absinthium</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	remedy for indigestion, gastric pains, antiseptic etc	stem and leaves	available	marketing and own use	naturally / rural farmers
Herb	Bethri dhoop	<i>Juniperus communis</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	curing asthma, against swellings, stimulant and diuretic	flower fruits	available	marketing and own use	naturally / rural farmers

Shrub	Kuth	<i>Saussurea costus</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	dysentery,dental trouble, heart problems etc	leaves/ roots	available	marketing and own use	naturally / rural farmers
Herb	Baryan	<i>Acorus calamus</i>	Local/wild	swapmy marshy areas	naturally grown	plenty	average	treatment of gouts	rhizome/ lowe part	available	marketing	naturally / rural farmers
herb	Malzudi	<i>Ainsiaea apterea</i>	wild	Temperate	naturally grown	plenty	average	used to treat stomach ache and urinary disease	stem leaves	available	marketing and own use	naturally / rural farmers
Herb	Dramun	<i>Cynodon dactylon</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	used for cough	Stem/ leaves	available	marketing and own use	naturally / rural farmers
Shrub	Datura	<i>Datura stramonium</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Available	medicine	Seeds	available	marketing and own use	naturally / rural farmers
Shrub	Soi	<i>Urtica dioica</i>	Local/wild	Temperate	Cultivated/ naturally grown	Available	Average	Rehumitides	Leaves/ stem	available	marketing and own use	naturally / rural farmers
Herb	Bhang	<i>Cannabis sativa</i>	Local/wild	Temperate	naturally grown	Available	Available	treatment of pain , loss of appetite , insomania , depresssion etc	Leaves/ stem	available	marketing and own use	naturally / rural farmers



**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	Department of horticulture and local people
Tree	Banj	<i>Quercus incana</i>	Temperate	Plenty	Plenty	Wild	Firewood		Unknown	Department of horticulture and local people
Tree	Apricot	<i>Prunusar meniaca</i>	Temperate	Least	Plenty	Wild, home	Furniture, firewood		Unknown	Department of horticulture and local people
Tree	Peach	<i>Prunus persica</i>	temperate	Least	Plenty	Wild, home	Firewood		Unknown	Department of horticulture and local people
Tree	Keth	<i>Pyrus pashia</i>	Temperate	Plenty	Least	Wild	Firewood		Unknown	Department of horticulture and local people
Tree	Rubinkul	<i>Robinia sp</i>	Temperate	Plenty	least	wild/ home- garde	Furniture, firewood	NA	Unknown	Department of horticulture and local people
Tree	Drek	<i>Melia azedarach</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Unknown	Department of horticulture and local people
Tree	Moru oak	<i>Quercus floribunda</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Strongest wood	Department of horticulture and local people
Tree	Fur	<i>Abies pindrow</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Unknown	Department of horticulture and local people
perinnial	Kail	<i>Pinus wallichania</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Unknown	Department of horticulture and local people
perinnial	Tulkul	<i>Morus nigra</i>	Temperate	Plenty	Average	wild/ home- garde	fodder for silk worm and Firewood	NA	Unknown	Department of horticulture and local people
perinnial	Kikar	<i>Robinia pseudoacacia</i>	Temperate	Plenty	Average	wild	fodder for animals and firewood	NA	Unknown	Department of horticulture and local people

**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
Equine	Horse	Equus caballus	Local	Ht. < 9 hands	Backyard	Less No.	Very few	Pack Purpose	Nil	No	Pack	All
	Mule	-----	Local	Ht. < 9 hands	Backyard	Less No.	Inc. Pop.	Pack purpose	Nil	No	Load Carrying	All
Poultry	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
	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



Sheep	Bhaed	Ovis aries	Local	Small size/ rough coat	Flock rearing	Plenty	Rare	Mutton, wool, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
	Bhaed	Ovis aries	Rambouillet cross	Large size/fine wool	Flock rearing	Rare	Plenty	Mutton, wool, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
	Bakri	Capra hircus	Local	Small /less weight	Flock rearing	Plenty	Rare	Mutton, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
Goat	Bakri	Capra hircus	Kaghani (bakarwali)	Large size/ more weight	Flock rearing	Rare	Plenty	Mutton, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
Yak	Yak	Bos grunniens	Local	Large size/ more weight	Free Range & Stall Feeding	Average	Decreased	used for ploughing and threshing	nil	nil	agricultural purposes	Locals, nomads





**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	Forest , temperate	Dense	Less dense	Commercial, own use	Whole plant	Furniture, roofing	Furniture	local farmers of rural community
Tree	Kail	<i>Pinus wallichiana</i>	Tree	Forest , temperate	Dense	Less dense	Commercial, own use	Whole plant	Furniture, roofing	Furniture	local farmers of rural community
Herbs	Datura	<i>Datura stramonium</i>	Herb	Forest , temperate	dense	dense	Commercial, own use	seeds	Medicinal use	Medicinal	local farmers of rural community
Grasses	Ghass	<i>Rhodo dendron</i>	Grass	Forest	dense	dense	own use	Whole	Medicinal use	Medicinal use	local farmers of rural community
Tree	Tulkul	<i>Morus alba</i>	tree	forest temperate	dense	dense	own use	Fruit	used for rearing silkworm and berries are edible	medicinal uses	local community
Tree	doondkul	<i>Juglans regia</i>	tree	forests	dense	rare	own use	fruit		medicinal uses	local community
Tree	Rubinkul	<i>Robinia sp</i>	Temperate	Temperate	Plenty	least	Furniture, firewood	Whole plant	Firewood	Furniture	local farmers of rural community
Tree	Drek	<i>Melia azedarach</i>	Temperate	Temperate	Plenty	Average	Furniture, firewood	Whole plant	furniture, firewood	Furniture	local farmers of rural community
Tree	Moru oak	<i>Quercus floribunda</i>	Temperate	Temperate	Plenty	Average	Commercial, own use	Whole plant	Strongest wood	Furniture	local farmers of rural community

Tree	Fur	<i>Abies pindrow</i>	Temperate	Temperate	Plenty	Average	Furniture, firewood	Whole plant	Furniture, roofing	Furniture	local farmers of rural community
perinnial	Kikar	<i>Robinia pseudoacacia</i>	Temperate	Temperate	Plenty	Average	, own use	Whole plant	Firewood	fodder for animals and firewood	local farmers of rural community
Herb	Patreesh	<i>Aconitum heterophyllum</i>	Local/wild	Temperate	Available	Available	Commercial, own use	roots	used against diarrhoea , general weakness and fever	Medicinal use	local farmers of rural community
Herb	Ceski	<i>Artemissia absinthium</i>	Local/wild	Temperate	Available	Available	Commercial, own use	leaves/ stems	remedy for indigestion, gastric pains, antiseptic etc	Medicinal use	local farmers of rural community
Herb	Bethri dhoop	<i>Juniperus communis</i>	Local/wild	Temperate	Available	Available	Commercial, own use	flower fruits	curing asthma, against swellings, stimulant and diuretic	Medicinal use	local farmers of rural community
Shrub	Kuth	<i>Sassurea costus</i>	Local/wild	Temperate	Available	Available	Commercial, own use	leaves/ roots	dysentery,dental trouble, heart problems etc	Medicinal use	local farmers of rural community
Herb	jungli straberry	<i>Fragaria nubicola</i>	wild	Temperate	available	average	Commercial, own use	fruit	Stomach disorders	Medicinal use	local farmers of rural community
Shrub	Soi	<i>Urtica dioica</i>	Local/wild	Temperate	Available	Average	Commercial, own use	Leaves/ stem	Rehumitides	Medicinal use	local farmers of rural community
Herb	Bhang	<i>Cannabis sativa</i>	Local/wild	Temperate	Available	Available	Commercial, own use	Leaves/ stem	treatment of pain , loss of appetite , insomnia , depression etc	Medicinal use	local farmers of rural community
Herb	Teevnd	<i>Viburnum grandiflorum</i>	Herb	Temperate/ Intermediate	Available	Available	Commercial, own use	flowers /seeds	cough and anticold	Medicinal use	local farmers of rural community

**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	Plenty
2	Bhang	<i>Cannabis sativa</i>	wild	Commercial extraction banned, given to animals to improve their health	Plenty
6	kundi	<i>Peziza violacea</i>	wild	Used as vegetable, collected by locals and sold	average
7	Bankakri	<i>Podophyllum hexandrum</i>	wild	Used as vegetable, collected by locals and sold	average
8	Bhang	<i>Cannabis sativa</i>	wild	medicinal use	average
9	Bathappad	<i>Boletus edulis</i>	wild	Used as vegetable, collected by locals and sold	average
10	kulmosh	<i>Viburnum cotinifolium</i>	wild	fruits	Plenty
11	cauliflower fungus/ kakho	<i>Sparassis crispa</i>	wild	mushroom	average
12	Pendak	<i>Crataegus songarica</i>	wild	fruits	average
13	Faagu	<i>Ficus palmata</i>	wild/ local	fruits	average
14	Timru	<i>Zanthoxylum armatum</i>	wild	used as a flavouring agent , spice and medicinal use also	average
15	Chukru	<i>Oxyria digyna</i>	wild	Used as vegetable, collected by locals and sold	average
16	Fafra	<i>Fagopyrum cymosum</i>	wild	Used as vegetable, collected by locals and sold	average
17	shedi(bakar)	<i>Sparrasis radiata</i>	wild	Used as vegetable, collected by locals and sold	Plenty
18	Bhrami	<i>Taxus baccata</i>	Wild Plant	Medicinal Plant and used to cure cancer	Plenty







**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					
Herb	Dramun	<i>Cynodon dactylon</i>	Herb	Temperate	abundant	abundant	Available	used for cough	Stem/ leaves	own use /marketing	local farmers of rural community
Herb	Datura	<i>Datura stramonium</i>	Herb	Temperate	Available	Available	Available	medicine	Seeds	own use /marketing	local farmers of rural community
Herb	Soi	<i>Urtica dioica</i>	Herb	Temperate	abundant	Average	Available	Rehumitides	Leaves/ stem	own use /marketing	local farmers of rural community
Herb	Kaudh	<i>Picrorhiza kurroa</i>	Herb	Temperate	Available	Available	Available	Pain reliever		own use /marketing	local farmers of rural community
Herb	Kishmay	<i>Berberies lycium</i>	Herb	Temperate	Available	Available	Available	used to tereat Jaundice		own use /marketing	local farmers of rural community
Herb	Teevnd	<i>Viburnum grandiflorum</i>	Herb	Temperate	plenty	average	Available	cough and anticold	flowers /seeds	own use /marketing	local farmers of rural community
herb	Malzudi	<i>Ainsiaea apterea</i>	wild	Temperate	naturally grown	plenty	average	used to treat stomach ache and urinary disease	stem leaves	own use /marketing	local farmers of rural community
Plant	Bankakri	<i>Podophyllum hexandrum</i>	plant	Temperate	Available	Available	Available	It has been found to be effective in contolling skin diseases and recently attracted attention for use in certain form of cancer	Fruit	own use	local farmers of rural community
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	own use /marketing	local farmers of rural community
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 though rhizome.	Tuber	own use	local farmers of rural community



**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
Bull bay	<i>Magnolia grandiflora</i>	Local	Natural	Both	Ornamental and medicinal		Self observed
Green spire	<i>Euonymus japonicus</i>	Local	land scape plant	non commercial	Ornamental		Self observed
Rose	<i>Rosa sanctum</i>	Red rose	Low land	Commercial	Ornamental	Not Known	Self observed
Merigold	<i>Tagetes erecta</i>	Local	Natural	Both	Ornamental	-	Self observed



### Format 26: Timber Plants

1	2	3	4	5	6	7	8
Local Name	Scientific Name	Habitat	Local	Other uses, if any	Associated Tk	Any other detail	Community knowledge holder
Deodar	<i>Cedrus deodara</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Forestry
Fir	<i>Abies pindrow</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Forestry
Spruce	<i>Picea smithiana</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Forestry
Kail	<i>Pinus wallichiana</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Forestry
Banj	<i>Quercus incana</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Apricot	<i>Prunus armeniaca</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Peach	<i>Prunus persica</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Keth	<i>Pyrus pashia</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Rubinkul	<i>Robinia sp</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	Forestry
Drek	<i>Melia azedarach</i>	Terrestrial temperate	Forest, Temperate	,firewood , furniture	NA	Commercial, own use	local people
Moru oak	<i>Quercus floribunda</i>	Terrestrial temperate	Forest, Temperate	furniture, roofing ,ploughing equipment etc	NA	Commercial, own use	Forestry
Kikar	<i>Robinia pseudoacacia</i>	Terrestrial temperate	Forest, Temperate	use for fodder ,firewood	NA	Commercial, own use	Forestry
Chinar	<i>Platanus orientalis</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	Forestry
Shisham	<i>Dalbergia sissoo</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	Forestry
Teak	<i>Tectona granis</i>	Terrestrial temperate	Forest, Temperate	furniture, roofing etc	NA	Commercial, own use	Forestry
Tulkul	<i>Morus nigra</i>	Terrestrial temperate	Forest, Temperate	firewood , fodder for silkworm etc.	NA	Commercial, own use	local people
Walnut	<i>Juglans regia</i>	Terrestrial temperate	Forest, Temperate	Furniture, tooth cleaner	NA	Commercial, own use	Forestry





**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					
Mammals	Chitra	<i>Panthera pardus</i>	Forest	endangered	Winter season	Least	More	-	-	Weapon	endangered	-
Mammal	Bhalu	<i>Ursus americanus</i>	Forest	-	summer	Least	More	-	-	Weapon	-	-
Mammal	Fox	<i>Vulpes vulpes</i>	Forest	-	All season	More	More	-	-	Weapon	-	-
Mammal	Monkey	<i>Cercopithecidae</i>	Forest	-	All season	More	More			Weapon	-	-
Mammal	Roons	<i>Lophophorus</i>	Forest	endangered	All season	Least	Least	-	-	Weapon	endangered	-
Birds	Neel	<i>Gyps africanus</i>	forest	Endangered	All season	Least	Least	-	-	Weapon	Endangered	-
Birds	Gid	<i>Pheasant</i>	Forest	Critically Endangered	All season	Least	Least	-	-	Weapon	Critically Endangered	-
Birds	Chakore	<i>Columba livia</i>	Forest	Endangered	All season	Least	Least	-	-	Weapon	Endangered	-
Birds	kabutar	<i>Ptyas mucosa</i>	Forest	-	All season	More	More	-	-	Weapon	-	-
Reptile	Saanf	<i>Lycodon mackinmoni</i>	Forest	-	summer	More	More	-	-	Stick	-	-
Reptile	Saanf	<i>Hemidactylus brookii</i>	Forest	-	Summer	More	More	-	-	Stick	-	
Lizards	chipkali	<i>Oncorhynchus mykiss</i>	Forest/Local	-	Summer	More	More	-	-	Stick	-	
Aquatic	Fish	<i>Gyps himalayensis</i>	Pond / Nalla	-	all	More	More	-	-	Hook n Net	-	
Insects	spider	<i>Clamator jacobinus</i>	Local/ Forest	-	All	More	More	-	-	-	-	-
Insects	Ant	<i>Picus chlorolophus</i>	Local/ Forest	-	All	More	More	-	-	-	-	



Bird	Kova	<i>Corvus macrorhynchos</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	Self-observed
Snake	Surf /sap	<i>Serpentes</i>	Forest /water		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	Self-observed
Fishes	Machli	<i>Raiamas guttatus</i>	Water		All time	Available	Available	No		Prohibited	Maintains forest ecosystem	Self-observed
Bird	Myna	<i>Acridotheres tristis</i>	Forest		all time	common	common	No		Prohibited	Maintains forest ecosystem	Self-observed
Insect	Tuller	<i>Apis mellifera</i>	Temperate region	Dark brown colour body	Spring and summer	common	common	extraction of honey		NA	pollinating agent	Self-observed
Insect	Mohh	<i>Aedes sp.</i>	Temperate region	white marking on their legs and body	summer	common	common	Na		NA	body parasite of human and animals	Self-observed
Insect	spider	<i>Araneus mitificus</i>	Temperate region	males are smaller and less colourful than females	all time	common	common	Na		NA	NA	Self-observed
Insect	Bomsin	<i>Pheretima posthuma</i>	Temperate region	individual are hermaphrodite with segmented bodies	during summers	common	common	Na		Na	known as farmers friends	Self-observed
Insect	Raeii	<i>Tapinoma sessile</i>	nests in open soil ,under stones etc	small sized insects with varied body	during summers	common	common	NA		NA	Strongly attracted to sweet substances	Self-observed
Insect	Tcharr	<i>Cimex lectularius</i>	Temperate region	Adult cimex are light brown in colour ,flat oval	during summers	common	common	NA		na	nuisance pest	Self-observed
Amphibian	Meinn	<i>Hoplobatrachus tigerinus</i>	semi aquatic	solitary and nocturnal in nature	during spring to autumn	common	common	extraction of honey		NA	pollinating agent	Self-observed



**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.)

<b>Format 31: Any other information of local importance</b>		
<b>1</b>	<b>2</b>	<b>3</b>
<b>Sr. No.</b>	<b>Information of local importance</b>	<b>Remarks</b>

*End of Part II*