

Biodiversity Register (PBR): General Details

Name of the Panchayat Samity: Lachkhazana

Taluk:KISHTWAR

District: Kishtwar

UT: Jammu & Kashmir

Geographical Area of the Panchayat Samity: 418 hact.

Population under the Panchayat Samity: Total 2725

Male: 1861 Female: 864

Habitat and Topography: Hilly terrain

Climate (Rainfall, Temperature and other weather patterns) Land Use (Nine fold classification available with village records) Irrigated area : Nil

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

End of Part Ist

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: Hari Lal
Age: 70 years
Gender: Male
Address: Barelgam
Area of specialization: Medical Assistant Retired
2) Name: Chaman Lal
Age: 63 Years
Gender: Male
Address: Kuleed
Area of specialization: Agricultural
3)Name: Meena Kumari W/o Parshotam
Age: 38 years
Gender: Female
Address: Kuleed
Area of specialization: Housewife
4)Name: Nisha Kumari W/o Arvind
Age: 33 years
Gender: FEMALE
Address: BunKuleed
Area of specialization: Housewife
5)Name: Rakesh Sen
Age: 64 years
Gender: MALE
Address: Kuleed
Area of specialization: Agricultural
6)Name: Ashok Kumar S/o jamit Ram (SC)
Age: 60 years
Gender: MALE
Address: Kuleed
Area of specialization: Agricultural
7)Name: Jagdish Raj S/o Lt. Dina Nath
Age: 67 years
Gender: MALE

Address: Kuleed

Area of specialization: Agricultural

Annexure 2

List of *Vaids*, *hakims* and traditional health care (human and livestock) practitioners residing and or using biological resources occurring within the jurisdiction of the village

Name: Kashmiri Lal

Age:

Gender: Male

Address: Wasser

Area of Specialization: Vaid

Location from which the person accesses biological material: Fields, Forest

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
Name: Tilak Raj S/o Kunj Lal
Age: 61 years
Gender: Male
Address: Kuleed
FOREST SPECIALIST : Agriculture
Name: Rajesh Kumar S/o Munshi Ram
Age: 60 years
Gender: MALE
Address: Kuleed
Area of specialization: AGRICULTURE
Name: Madan Lal S/o Khushi Ram
Age: 60 years
Gender: Male
Address: Kuleed
Area of specialization : Agriculture
Name: Karan kumar S/o Bodh Raj
Age: 45 years
Gender: Male
Address: Kuleed
Area of specialization : Agriculture

Annexure 4

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

1) Contact : 9622290029

Name and Address: Sonika Sen, Teacher

2) Contact : 9419877087

Name : Seema Rathore, Agriculture Extension Assistant

3) Contact : 9018480482

Name and Address: Jaffer Hussain, Animal Husbandry

3) Contact: 7298147667

Name and Address: Gautam Singh, Farmer

Annexure 5

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 their sharing					
No	Name and address of the Person /institution/ company/ others	Local and Scientific Name of the biological material Accessed and quantity	Date and resolution of the BMC and endorsement by the panchayat	Details of collection fee imposed	Anticipated mode of sharing benefits or quantum of benefits shared
	NIL	NIL	NIL	NIL	NIL

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							
Wheat	<i>Triticum aestivum</i>	Gundam	Local	Temperate conditions	56.7	Plenty	Plenty	Resistant to drought, pests & diseases	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	57.4	Plenty	Rare	-do-	May-June	Food Fodder	Provides more energy	Not-known	Local preserved	Locals & Deptt. Of Agriculture
Maize	<i>Zea mays</i>	Makki	Local	Temperate conditions	15.25	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	10.35	Rare	Plenty	-do-	May-June	Fodder	Provides more energy	Not-known	Local preserved / Agriculture Deptt.	Locals & Deptt. Of Agriculture
Beans	<i>Phaseolus vulgaris</i>	Rajmash	Local	Temperate conditions	25.2	Plenty	Plenty	Resistant to drought, pests & diseases	Sept-Oct	Food Fodder	Provides more energy	Not-known	Local preserved	Locals & Deptt. Of Agriculture
Saffron	<i>Crocus sativus</i>	Kung, kesar	Local	Temperate conditions	5 hac	Plenty	Plenty		April- May	Spice, cosmetic & medicinal use	Added to milk as an aphrodisiac	Religious purpose	Saved from previous year crop	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	Plant is a climber with green, elongated fruit	Local preserved / Seed shops	Locals & Deptt. Of Agriculture
Radish	<i>Raphanus sativus</i>	Mooli	Local turnip shaped radish	Temperate conditions	NA	Plenty	Plenty	NA	2-3 crops in a year	Eaten raw, used as vegetable and pickle making	Traditional variety and cultivation practice	Round and elongated shape, white colored, eaten raw as well as cooked. Juice of leaves a good remedy to treat jaundice	Local preserved	Locals & Deptt. Of Agriculture
Tomato	<i>Lycopersicum esculentum</i>	Tamatar	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	NA	July-Sept	as vegetable and jam	Rich in vitamin C and Lycopene	Plant small, branched, fruits of varied taste, colour and shape based on the variety planted	Local preserved	Locals & Deptt. Of Agriculture
Kholrabi	<i>Brassica oleracea</i>	Kadam, monj	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	Twice in a year	As vegetable	Rich in fibre	Leaves and stem relished as vegetable and pickle.	Local preserved / Agriculture Deptt.	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	Highly nutritious. Dried by the local people for winters.	Local preserved / Agriculture Deptt.	Locals & Deptt. Of Agriculture
Green Chilly	<i>Capsicum annuum</i>		Mirchi	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production		May- Aug	As vegetable	Improve immune system	Green and red in colour. Used in cooking and also eaten raw

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 (Repining)	Associated TK	Uses	Other details market/ ownuse	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.	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 prostrate cancer and diabetes	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Pear	<i>Pyrus communis</i>	Tang	Babugosha, Alle tang, Dud tang, Konternal, Tanchi, Wut, Kyuth, Nakh tang	-do-	Plenty	Plenty	Local preserved / grafting	Aug-Sept	Uses for mild digestion problems, diarrhea, severe cholera	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture

Peach	<i>Prunus persica</i>	Aadu	Local, Shan-e-Punjab, Amba	-do-	Plenty	Rare	Local preserved	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals & Deptt. Of Horticulture
Plum	<i>Prunus domestica</i>	Alu Bukhara	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
Pomegranate	<i>Punica granatum</i>	Anardana	Local / Hybrid	-do-	Plenty	Wild Rare/ Hybrid plenty	Local preserved	Sept-Oct	Rich source of iron, good for digestion	As fruit, juice and as chutney	Market / own use	Locals & Deptt. Of Horticulture
Grapes	<i>Vitis vinifera</i>	Angoor	Local / Hybrid	-do-	Common	Common	Local preserved	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals & Deptt. Of Horticulture
Quince	<i>Cydonia oblonga</i>	Beehi	Local	-do-	Plenty	Common	Local preserved	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals & Deptt. 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 Plants / Seeds	Associated TK	Part Used	Other details	Community / Knowledge holder
				Past	Present					
Oat	<i>Avena sativa</i>	Lawn	Lowland valleys	Rare	Plenty	Local preserved / Agriculture Deptt.	Green & dry plant used as fodder for the livestock	Whole plant	Fodder for livestock	Locals
Robenia	<i>Robinia pseudoacacia</i>	Kikar	Lowland / Forest	Plenty	Rare	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also a good soil binder plant	Locals
Ailanthus	<i>Ailanthus altissima</i>	Fak kul	Lowland / Forest	Plenty	Plenty	Natural propagation	-do-	Green Leaves	Also used as fuel wood	Locals
Fig	<i>Ficus carica</i>	Figura/Fog	Lowland / Forest	Plenty	Rare	Natural propagation	Provides fodder and more energy to livestock	Green / dry Leaves	Fruit edible & also used as fuel wood	Locals
Willow	<i>Salix alba</i>	Ier kul	Lowland / Forest	Plenty	Plenty	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	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
Bathua	<i>Chenopodium album</i>	Kunh	Temperate/ Lowland valleys	Rare	Common	Natural propagation	As Fodder	Whole plant	Eaten as a highly nutritious vegetable	Locals

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>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>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	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Herb	<i>Utrica dioica</i>	Soi	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking	Weed	Not reported	Locals
Herb	<i>Anthemis cotula</i>	Stinking chamomile	Every crop	-do-	Temperate	Plenty	Plenty	None	Manual plucking out	Medicinal use	Exotic species	Locals
Herb	<i>Centaurea calcitrapa</i>	Purple star thistle	Every crop	-do-	Temperate/ low land	Plenty	Plenty	None	Manual plucking out	NA	Exotic species	Locals

Herb	<i>Plantago lanceolata</i>	Plantain	Every crop	-do-	Temperate/ low land	Plenty	Plenty	As fodder	Manual plucking out	NA	Exotic species	Locals
Herb	<i>Amaranthus viridis</i>	Cholai	Rice, Maize	-do-	Temperate/ Field	Plenty	Plenty	Eaten as a vegetable	Pesticide spraying / plucking out	Rich source of proteins and amino acids	Not reported	Locals

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
Maize	Insect	<i>Helicoverpa zea</i>	Corn earworm, true wire worm	Farm fields	-	Insecticide application	Leaf damager	Not known	Locals and Deptt. of agriculture/ Horticulture
Maize	Animal	<i>Rattus norvegicus</i>	Rat	Farm fields	After flowering	Chemical pesticide	Roots and fruit damager	Not known	
Polyphagous	Whitefly	<i>Bemisia tabaci</i>	Chithi makhi	Farm fields	July-August	Insecticide application	Damages the plant	Not known	
Wheat	Insect	<i>Odontotermes obesus</i>	Termites	Farm fields,	Ripening period	Insecticide application	Root feeder	Not known	
Polyphagous	Insect	<i>Pieris brassicae</i>	Pediyan/ White cabbage butterfly	Farm fields	May- Sept	Insecticide application	Damages plant and reduces the yield	Not known	
Peach, plum	Insect	<i>Brachycaudus helichrysi</i>	Leaf- curling aphid	On host	May- October	Insecticide application	Damages the crop	Leaf defoliator	
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	
Apple, Peach, Pear	Insect	<i>Quadraspidiotus perniciosus</i>	San jose scale	On host plant	May- October	Insecticide application	Damages the plant and crop	Scale insect	

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
General and Schedule caste	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	

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	AGRICULTURAL LAND / PROVATELY OWNED	Deodar	Leopard	Local Inhabitants	Self management	cultivation	Indigenous knowledge of local communities	---	---
						Kail	Black bear						
						Fir	Jackal						
						Spruce	Bee						
						Champ	Owl						
						Anar	Mosquito						
						Akhroot	Fox						
						Nunar	Rat						
						Sosal	Bulbul						
						Apricot	Snake						
						Hiroo	Pigeon						
						Mohru	House Sparrow						
						Kiker	Koel						
						Kadam	Crow						
Apple	Spider												

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	Khubani	Butterfly
	Kumlaie	Cat

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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	Grayish, brown, small grained mixture	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(Repining)	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
					Past	Present						
Tree	Saib/ Apple	<i>Malus domestica</i>	Red delicious, Golden delicious, Ambri	Lowland valley / home gardens	Rare	Plenty	Local preserved / Horticulture Deptt.	Aug-Sept	Nutritious value	Reducing cholesterol, lowering blood sugar level	Market / own use	Locals
Tree	Khubani/ Apricot	<i>Prunus armeniaca</i>	Safeda, Qadri	-do-	Plenty	Rare	Local preserved / grafting	June-July	Nutritious value	Cures heart diseases	Market / own use	Locals
Tree	Akhroot/ Walnut	<i>Juglans regia</i>	Local	Lowland valley / Agricultural land	Plenty	Plenty	Local preserved / Horticulture Deptt.	Aug-Sept	Nutritious value	Reduces prostate cancer and diabetes	Market / own use	Locals
Tree	Tang/ Pear	<i>Pyrus communis</i>	Babugosha, Alle tang, Dud tang, Konternal, Tanchi, Wut, Kyuth, Nakh tang	-do-	Plenty	Plenty	Local preserved / grafting	Aug-Sept	Nutritious value	Uses for mild digestion problems, diarrhea, severe cholera	Market / own use	Locals
Tree	Aadu/ Peach	<i>Prunus persica</i>	Local, Shan-e- Punjab, Amba	-do-	Plenty	Plenty	Local preserved	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Tree	Anardana/ Pomegranate	<i>Punica granatum</i>	Local / Hybrid	-do-	Plenty	Wild Rare/ Hybrid plenty	Local preserved	Sept-Oct	Nutritious value	Provides more energy	Market / own use	Locals
Climber	Angoor/ Grapes	<i>Vitis vinifera</i>	Local / Hybrid	-do-	Common	Common	Local preserved	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Tree	Aloo bukhara/ Plum	<i>Prunus domestica</i>	Local / Hybrid	-do-	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals

Tree	Beehi/ Quince	<i>Cydonia oblonga</i>	Local	-do-	Plenty	Common	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Tree	Cherry	<i>Prunus avium</i>	Hybrid	-do-	Rare	Common	Dept. Of Horticultu	June- July	Nutritious value	Provides more energy	Own use	Locals & Deptt. Of Horticulture
Tree	Nimbu	<i>Citrus limon</i>	Local	-do-	Common	Common	Horticulture Deptt.	June- July	Nutritious value	rich source of Vitamin C	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	Local status		Uses (usage)	Part used	Associated TK	Other details market/own use	Community/ Know. Holders
						Past	Present					
Shrub	Khumlai	<i>Berberis lycium</i>	Wild (NTFP)	Lowlands / forests	Naturally grown	Plenty	Rare	Used as a cooling agent and also as a remedy for acidity.	Fruit	Used in various Ayurvedic formulations	Own use	Locals
Herb	Panchalan	<i>Rheum moorcroftianum</i>	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Wound healing	Roots	Ayurvedic formulations	Own use	Locals
Herb	Dhrub	<i>Cynodon dactylon</i>	MFP	Forest	Natural	Plenty	Rare	Used as a laxative,coolant. Also useful in bleeding & skin troubles.	Whole plant	Religious purpose Used in sauces and dips as a cooling agent	Own use	Locals
Herb	Pudina	<i>Mentha longifolia</i>	MFP	Forest	Natural	Plenty	Endangered	Respraitory ailments, to treat wounds	Leaves		Own use	Locals
Tree	Haadi	<i>Prunus armeniaca</i>	B/L	Forest	Natural	Plenty	Rare	Antisposmodic, chronic bronchitis	Whole plant		Market/ own use	Locals
Herb	Suchal	<i>Malva neglecta</i>	MFP	Forest	Natural	Plenty	Rare	Astringent,demulce nt, diuretic	Leaves,Flowe rs		Market/ own use	Locals
Tree	Fog, feku	<i>Ficus palmata</i>	B/L	Forest	Natural	Plenty	Rare	used for skin diseases, treatment of lungs & bladder diseases	Fruit		Own use	Locals

Tree	Akhroot	<i>Juglans regia</i>	B/L	Forest	Natural	Plenty	Rare	leaves are used in treatment of chronic coughs, asthma, purification of blood and to treat diabetes	Leaves, Fruit,	Market/ own use	Locals	
Herb	Hamesh-Bahar	<i>Calendula officinalis</i>	MFP	Forest	Natural	Plenty	Rare	Used for skin disease, burns	Flower, leaf	Own use	Locals	
Herb	Banafsha	<i>Viola odorata</i>	MFP	Forest	Natural	Plenty	Rare	Throat problem, Cold, cough	Flower	Own use	Locals	
Herb	Ganda	<i>Allium cepa</i>	MFP	Forest	Natural	Plenty	Plenty	Anti inflammatory, antiseptic	Bulb, Leaves	Market/ own use	Locals	
Herb	Thom	<i>Allium sativum</i>	MFP	Forest	Natural	Plenty	Plenty	Fever, diabetics, swellings	Bulbs	Market/ own use	Locals	
Herb	Dhaniya	<i>Coriandrum sativum</i>	MFP	Forest	Natural	Plenty	Plenty	Measles, hemorrhoids, toothache & joint pain	Leaves, Seeds	Market/ own use	Locals	
Herb	Mooli	<i>Raphanus sativus</i>	MFP	Forest	Natural	Plenty	Plenty	To treat constipation & hypertension	Leaves root	Market/ own use	Locals	
Climber	All, kaddu	<i>Cucurbita pepo</i>	MFP	Forest	Natural	Plenty	Plenty	Anti inflammatory, anti viral, anti ulcer	Fruit	Market/ own use	Locals	
Herb	Green Chilly	<i>Capsicum annum</i>	Local	Temperate	Cultivated	Plenty	Plenty	Good for immune system, eye sight.	Fruit	Market/ own use	Locals	
Herb	Rohan-hak/Pran	<i>Allium carolinianum</i>	MFP	Temperate	Plenty	Rare	Commercial /Own use	Useful in maintaining blood cholesterol, also used as a digestive tonic	Bulbs, Leaves, Flowers	Used in curries as a substitute for onion.	Market/ own use	Locals

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	Used for religious purpose	Provides beauty to the home garden	NA	Locals
Shrub	Gulab	<i>Rosa indica</i>	Local	From cuttings	Non- commercial	Used for religious purpose	Used to make gulkand- a remedy for gastric troubles and also used as a refreshing drink in summers	NA	Locals
Shrub	Dhaliya	<i>Dahlia pinnata</i>	Local	Rhizomes of flower plant	Non- commercial	Used for religious purpose	Provides beauty to the home garden	NA	Locals
Climber	Ivy	<i>Hedera helix</i>	NA	Cuttings	Non- commercial	Ornamental	Provides beauty to the home garden	NA	Locals

Broad leaved	Akhroot	<i>Juglans regia</i>	Private land / Forest	Plenty	Plenty	Wild / home garden	Furniture / agricultural implements	Walnut used as nutritious fruit. Its bark and leaves as well as the husk of seeds are used in different medicines and dyes	Deciduous tree	locals
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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/ Domestication	Plenty	Rare	Mutton and wool	Wool used to make blankets	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Sheep	Bhead	<i>Ovis aries</i>	Rambouillet cross breed	Large size low body weight	Flock rearing/ Domestication	Rare	Plenty	Mutton and wool	Wool used to make blankets	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Goat	Bakri	<i>Capra hircus</i>	Local	Small size low body weight	Flock rearing/ Domestication	Plenty	Rare	Mutton and wool	Milk good for health	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Goat	Bakri	<i>Capra hircus</i>	Kaghani, bakasooli	Large size high body weight	Flock rearing/ Domestication	Rare	Plenty	Mutton and wool	Milk good for health	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Cow	Gaay	<i>Bos taurus</i>	Local/ Desi/Jersey	Cows have hooves on there feet and can weight upto 400 pounds	Flock rearing/ Domestication	Plenty	Rare	Milk, Cow dung	Milk good for health	Yes	Milk, manure	Local/Nomads
Ox	Bael	<i>Bos taurus</i>	Local	For ploughing	Domestication	Plenty	Rare	For ploughing	NA	Yes	Used 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	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	Locals
Horse	Ghoda	<i>Equus caballus</i>	Local	Large strong animals, 60- 70 inches in height	Domestication/ Flock rearing	Common	Common	Used for 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	Common	Common	Used as a draught and pack animal	Nil	Yes	Nil	Local/Nomads

Poultry	Kokad	<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	Common	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					
Tree	Deodar	<i>Cedrus deodara</i>	Terrestrial	Temperate areas	Plenty	Common	Commercial and own use	Wood	Cedrus oil is often used for its aromatic property	It's has a conic crown with level branches and dropping branchlet	Locals
Tree	Kail	<i>Pinus wallichiana</i>	Terrestrial	Temperate areas	Plenty	Common	Commercial and own use	Wood	Provide durable timber	Conifer plant	Locals
Tree	Oak/ Hiroo	<i>Quercus ilex</i>	Terrestrial	Temperate areas	Plenty	Plenty	Own uses	Leaves & Wood	Fodder & Fuel wood	Evergreen B.L tree	Locals
Tree	Brun	<i>Ulmus villosa</i>	Terrestrial	Temperate areas	Plenty	Plenty	Own use	Wood	Fodder and fuel wood	For religious purpose	Locals
Tree	Willow	<i>Salix alba</i>	Terrestrial	Temperate areas	Plenty	Plenty	Commercial /Own use	Leaves & Wood	Cricket Bat	Fodder	Locals
Shurb	Khumlai	<i>Berberis lycium</i>	Terrestrial	Temperate areas	Plenty	Plenty	Own use	Fruits, leaves	Used as a remedy for acidity	NTPF	Locals
Grass	Dhrub	<i>Cynodon dactylon</i>	Terrestrial	Temperate areas	Plenty	Plenty	Own use	Branch	Medicinal use	Religious purpose	Locals

Herb	Seski/ mooin	<i>Artemisia maritima</i>	Terrestrial	Temperate areas	Plenty	Rare	Commercial /Own use	Leaves	Used to treat gastric troubles in infants and in adults	Used in medicines	Locals
Herb	Rohan-hak/ Pran	<i>Allium carolinianum</i>	Terrestrial	Temperate	Plenty	Rare	Commercial /Own use	Bulbs, Leaves, Flowers	Useful in maintaining blood chloesterol, also used as a digestive tonic	Contain sulphur compounds which gives them their onion flavour	Locals
Tree	Shehtut	<i>Morus alba</i>	Terrestrial	Temperate	Common	Common	Commercial /Own use	Bark, fruit	Asthma, Bronochits		Locals
Herb	Handh	<i>Taraxacum officinale</i>	Terrestrial	Temperate	Common	Common	Commercial /Own use	Leaves	Useful for digestive troubles and also used as a stimulant for pancreas and kidney function.	Tea useful to treat liver damage	Locals

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance (as economic, social, cultural etc.)	Status
10	Hund	<i>Taraxacum officinalis</i>	NTFP	Economic and social	Common
11	Hamesh bahar	<i>Calendula officinalis</i>	Wild	Economic, social & religious	Rare
15	Sosal	<i>Malva neglecta</i>	Wild	Economic & Social	Plenty
16	Bhang	<i>Cannabis sativa</i>	Wild	Economic and social	Plenty
17	Kiker	<i>Robenia pseudoacacia</i>	Wild	Economic & Social	Common
18	Heru	<i>Quercus semecarpifolia</i>	Wild	Economic & Social	Plenty
19	Seski	<i>Artemisia maritima</i>	Wild	Economic & Social	Rare
20	Rohan-hak/Pran	<i>Allium carolinianum</i>	Wild	Economic & Social	Common
21	Kail	<i>Pinus wallichiana</i>	Wild	Economic & Social	Common
22	Banafsha	<i>Viola odorata</i>	Wild	Economic & Social	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>	Wild	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
Dragonfly/ jahaz	<i>Orthetrum triangulre</i>	Wild	Bluish and black in colour, with a large head	Found around slow moving waters	Common	Common	Act as pollution indicators and as a biocontrol agent for mosquitoes, midges, etc.	Important in the maintenance of ecological balance	Nymphs completely aquatic while adult are seen flying above the water source	NIL
Maiden hair (Ghvtheer)	<i>Adiantum caudatum</i>	Wild	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

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance	Trends
NIL	NIL	NIL	NIL	NIL	NIL
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 (usage)	Part used	Other details market/ own use	Community/ Knowledge Holder
					Past	Present					
Herb	Pamchalan	<i>Rheum australe</i>	NTFP	Temperate forest	Plenty	Rare	Medicinal use	Useful in wound healing	Root	Own use	Locals
Shrub	Khumlai	<i>Berberis lycium</i>	Thorny shrub	Temperate forest	Plenty	Rare	Medicinal use and for brush wood fencing	Used as a cooling agents and as a remedy for acidity	Fruit, leaves	Own use	Locals
Tree	Kail	<i>Pinus wallichiana</i>	Wild	Temperate	Plenty	Common	Medicinal, timber, fuel	Used to treat fever, wheezing cough & cold.	Seeds, leaves	Market/ Own use	Locals
Herb	Seski, mooin	<i>Artemisia maritima</i>	Wild	Temperate	Plenty	Rare	Medicinal use	As a remedy for stomach issues in infants and adults	Leaves	Market/ Own use	Locals
Herb	Rohan-hak/ Pran	<i>Allium carolinianum</i>	Wild	Temperate	Plenty	Rare	Medicinal use	Useful in maintaining blood cholesterol, also used as a digestive tonic	Bulbs, Leaves, Flowers	Market/ Own use	Locals
Herb	Banafsha	<i>Viola odorata</i>	Wild	Temperate	Plenty	Rare	Medicinal use	Used as an ingredient in tea to treat cough and cold	Flowers	Market/ Own use	Locals
	Bhang	<i>Cannabis sativa</i>	Wild	Temperate	Plenty	Plenty	Used as a recreational or narcotic drug	Used in medicine to treat nausea, depression, migraine and other conditions		Leaves	Market/ Own use
Herb	Handh	<i>Taraxacum officinale</i>	Wild	Temperate	Common	Common	Tea useful to treat liver damage	Useful for digestive troubles and also used as a stimulant for pancreas and kidney function.	Leaves	Market/ Own use	Locals

Format 23: Wild relatives ofCrops

1	2	3	4	5		6	7	8	9	10
Local Name	Scientific Name	Associated crop	Landscape / Habitat	Local Status		Uses (usage)	Part Used	Associated TK	Other details	Community / Know holder
				Past	Present					
Rohan-hak/Pran	<i>Allium carolinianum</i>	Agricultural crops	Temperate	Plenty	Rare	Used to treat liver damage	Bulbs, leaves	Used as a substitute for onion in curries	Contains sulphur which gives them their characteristic onion smell	Locals

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
Chinar	<i>Platanus orientalis</i>	Wild	Temperate/ terrestrial	Non-commercial	Leaves are used as kangri fuel	Provide cool shade and home for many birds	Locals
Safeda	<i>Populus ciliata</i>	Wild	Temperate/ terrestrial	Non-commercial	Provide durable timber	Hardwood tree	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					
Herb	Pudina	<i>Mentha longifolia</i>	Herbaceous, perennial	Temperate	Plenty	Plenty	Cooling agent and used in various ayurvedic medicines	Whole plant	Good for digestion	Locals use it in making Chatni, dips and spices	Locals
	Chuku	<i>Oxalis corniculata</i>	Herbaceous plant	Temperate	Plenty	Rare	Used in the treatment of influenza, fever, urinary tract infections & snake bites.	Leaves		Locals eat the raw leaves which are sour in taste	Locals
Shrub	Bantambaku	<i>Verbascum thapsus</i>	Herbaceous plant	Temperate	Plenty	Rare	Used in medicines	Leaves	Narcotic		Locals
	Bhang	<i>Cannabis sativa</i>	Wild	Temperate	Plenty	Plenty	Used in medicines	Leaves	Narcotic	Locals crush the leaves and consume it as a narcotic drug	Locals
Trees	Khor/Dun	<i>Juglanas regia</i>	Local	Temperate	Plenty	Plenty	Teeth cleaning, toothache	Leaves, bark		Locals use the leaves and dried bark to clean the teeth	Locals

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				
Deodar	<i>Cedrus deodara</i>	Temperate	Plenty	Common	Religious purpose	Provide durable timber	Soft wood timber	Local
Kail	<i>Pinus wallichiana</i>	Temperate	Plenty	Common	Furniture and fruit packing	Provide durable timber	Soft wood timber	Local
Spruce	<i>Picea smithiana</i>	Temperate	Plenty	Rare	fruit packing industries	Provide good timber	Soft wood timber	Local
Akhroot	<i>Juglans regia</i>	Temperate	Plenty	Common	Fruit and furniture	Provide good timber / fruit	Hard wood	Local
Popular	<i>Populus ciliata</i>	Temperate	Plenty	Plenty	Packing industries	Provide good timber	Hard wood	Local
Chinar	<i>Platanus orientalis</i>	Temperate	Plenty	Common	Fuel wood, fodder	Provides cool shade and home to many birds	Dried leaves are used as Kangri fuel	Locals

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

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local Status		Uses (if any)	Associated TK	Mode of Hunting, collecting (if any)	Other details	Community/ Knowledge Holder
						Past	Present					
	Jackal	<i>Canis aureus</i>	Temperate	Nocturnal	Throughout the year	Plenty	Plenty	-	-do-	Nil	-	Local
	Wild cat	<i>Felis chaus</i>	Temperate	Grey, light brown in colour	Throughout the year	Common	Common	-	-do-	Nil	-	Local
	Lombri/ Fox	<i>Vulpus vulpus</i>	Temperate	Omnivore	Throughout the year	Plenty	Common		-do-	Nil	-	Local
	Leopard	<i>Panthera pardus</i>	Forest	Natural habitat	Summer	Plenty	Absent	-	-do-	Nil	-	Local
	Hapat/ Bhalu	<i>Ursus americanus</i>	High altitude	Omnivore	Throughout the year	Plenty	Absent		-do-	Nil	-	Local
	House crow	<i>Corvus splendens</i>	Temperate	Dull black in colour with grey neck, smaller than jungle crow	Throughout the year	Plenty	Plenty	-	-do-	Nil	-	Local
	Chidya/ Seid/ House sparrow	<i>Passer domesticus</i>	Temperate	Small birds with sexual dimorphism, feed on seeds & grains	Throughout the year	Plenty	Common	-	-do-	Nil	-	Local
	Himalayan Griffon	<i>Gyps himalayensis</i>	Temperate	Natural habitat	Throughout year	Plenty	Absent	-	-do-	Nil	-	Local

	Blue rock pigeon	<i>Columba livia</i>	Temperate	Grey in colour, feed on seeds, grain	Throughout the year	Common	Abundant	-	-do-	Nil	-	Local
	Common myna	<i>Acridotheres tristis</i>	Temperate	Brown in colour with a yellow beak, feeds on seeds, grain	Throughout the year	Plenty	Common	-	-do-	Nil	-	Local
	Common cuckoo/koel	<i>Eudynamys scolopaceus</i>	Temperate	males brown colour and females dull grey with small black spots over the	Throughout the year	Plenty	Plenty	-	-do-	Nil	-	Local
	Jungle Crow	<i>Crovis macrorhynchus</i>	Temperate	Black in colour with a strong beak, omnivore in nature	Throughout year	Plenty	Plenty					
	Tota	<i>Psittacula himalayana</i>	Temperate	Green with a slaty black head and a red beak. Feed on seeds, grain & fruits.	Throughout the year	Plenty	Common					
	Cheel	<i>Milvus migrans</i>	Temperate	Carnivore, solitary bird	Throughout the year	Plenty	Common					
	Chakor	<i>Alectoris chukar</i>	Temperate	Grey in colour, feed on seeds & grains	Throughout the year	Abundant	Rare	-				
Insects	Dragonfly/ jahaz	<i>Orthetrum triangulre</i>	Temperate	Bluish and black in colour	Summer	Common	Common					
	Cabbage butterfly	<i>Pieris brassicae</i>	Temperate	White in colour with black spots on fore wings.	Summer	Abundant	Abundant					
	Cockroach	<i>Periplaneta americana</i>	Temperate	Waste material, food	Summer	Rare	Common					
	Bed bug	<i>Cimex lectularius</i>	Temperate	Light brown in colour, flat oval	Summer	Common	Common					
	Makhi	<i>Musca domestica</i>	Temperate	Small, black in colour with hairy body, nuisance pest	Summer	Common	Plenty					

	Ant/ Chinti	<i>Solenopsis invicta</i>	Temperate	Black in colour, nuisance pest	Throughout the year	Common	Plenty
	Machar	<i>Culex</i> sp.	Temperate	Small light coloured with black and white abdomen	Summer	Common	Abundant
	Earthworm	<i>Pheritema posthuma</i>	Temperate	Pinkish in colour with a slender, segmented body.	Summer	Common	Common
Rodents	Rat/ Gagud	<i>Rattus rattus</i>	Temperate	Grey colour, large size	Throughout the year	Plenty	Plenty
	Porcupine/ Shale	<i>Hystrix indica</i>	Temperate	Has sharp spikes	Throughout the year	Plenty	Common
Reptiles	Saanp	Serpentes (Sub-order)	Temperate	Limbless, carnivore with mobile jaw	Summer	Plenty	Common

Used in vermicompost. Commonly known as farmer's friend.

Venomous and non-venomous both found commonly

Format 29: Flora

URBAN BIODIVERSITY

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

Format-30 : Fauna.

1	2	3	4	5	6
S. No.	Local Name	Scientific Name	Type of Animals (Mammals/ Birds/ Fish/ Insect etc.)	Habitat	Remarks (Rare/ Common etc.)
1	Leopard	<i>Panthera pardus</i>	Mammal	Forest	Rare
2	Jackal	<i>Canis aurus</i>	Mammal	Forest	Common
3	Black bear	<i>Ursus americanus</i>	Mammal	Forest	Rare
4	Shail/ Porcupine	<i>Hystrix indica</i>	Mammal	Forest	Rare
5	Chuha/Rate	<i>Mus booduga</i>	Mammal	Home/forest	Common
6	Wild shawl	<i>Nudibranchs</i>	Mammal	Home/forest	Rare
7	Wild goat	<i>Capra aegagrus</i>	Mammal	Home/forest	Rare
8	Wild dog	<i>Lycan pictus</i>	Mammal	Home/forest	Rare
9	Wild fox	<i>Vulpes vulpes</i>	Mammal	Home/forest	Common
10	Wild cat	<i>Felis silvestris</i>	Mammal	Home/forest	Common
11	Chakor	<i>Alectoris chukar</i>	Bird	Home/forest	Rare
12	Pintail	<i>Anas acuta</i>	Bird	Every where	Rare
13	parrot	<i>Psittaciformes</i>	Bird	Every where	Rare
14	Pigeon	<i>Columbidae</i>	Bird	Every where	Rare
15	House Sparrow	<i>Passer domesticus</i>	Bird	Every where	Rare
16	Sparrow	<i>Passer domesticus</i>	Bird	Every where	Rare
17	crow	<i>Corvus</i>	Bird	Every where	Rare
18	Peacock	<i>Pavo cristatus</i>	Bird	Every where	Rare
19	Bearded Vulture	<i>Gypaetus barbatus</i>	Bird	AS, RO, AE	Rear
20	Black Kite	<i>Milvus migrans</i>	Bird	GD, PC, FD, AE	Rear
21	Black- eared Kite	<i>Milvus [migrans] lineatus</i>	Bird	GD, AE	Summer Visitors
22	Bonelli's Eagle	<i>Aquila fasciata</i>	Bird	AE, OH	Winter Visitors
23	Booted Eagle	<i>Hieraaetus pennatus</i>	Bird	PS, AE, RO	Winter Visitors
24	Cinereous vulture	<i>Aegyptius monachus</i>	Bird	TB, OH, AE	Winter Visitors
25	Eastern Imperial Eagle	<i>Aquila heliaca</i>	Bird	TC, OH, AE	Winter Visitors

26	Egyptian Vulture	<i>Neophron percnopterus</i>	Bird	GD, AE, FD	Summer Visitors
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Format 31: Any other information of local importance

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