

Peoples' Biodiversity Register (PBR): General Details**Name of the Panchayat Samity: Chingam-A****Taluk: Inderwal****District: Kishtwar****UT: Jammu & Kashmir****Geographical Area of the Panchayat Samity: 5 sq.km****Population under the Panchayat Samity: Total = 1433****Male: 733****Female: 700****Habitat and Topography: Hilly terrain****Climate (Rainfall, Temperature and other weather patterns) Land Use (Nine fold classification available with village records) Date, Month and Year of PBR preparation: 24 /09/2022****Management Regime: Reserve Forests (RF) / Joint Forest Management (JFM) / Protected Areas (PA) / Community Owned and Managed Forests (COM)**

Annexure 1

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

1) Name of the Chairperson: Gh Rasool S/o Qadir Butt

Age: 70

Gender: Male

Address: Chingam

Area of specialization: Agriculture

2) Name: Ab Rashid S/o Ahmed Sheikh

Age: 35 years

Gender: Male

Address: Naryan

Area of specialization: Agriculture

3) Name: Ab. Latief S/o Abdullaha

Age: 35 years

Gender: Female

Address: Kandiwar

Area of specialization: Housewife

4) Name: Muni Devi W/o Krishan Lal

Age: 55 years

Gender: Female

Address: Budgam

Area of specialization: Housewife

5) Name: Shmima Begum W/o Manzoor

Age: 27 years

Gender: Female

Address: Bonda

Area of specialization: Housewife

6) Name: Maqbool Ahmed

Age: 35 Years

Gender: Male

Address:

Area of specialization: Agriculture

7) Name: Jameela Begum

Age: 29 years

Gender: Female

Address:

Area of specialization: Agriculture

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: Shaheena Begum W/o Lt. Gh Hassan

Age: 50

Gender: Female

Address: Shangam

Area of Specialization: Ortho

Location from which the person accesses biological material: Forest

Perception of the practitioner on the resource status: Medicinal use:

Name: Jameela Begum W/o Ab Rashid

Age: 40

Gender: Female

Address: Narayan Chingam

Area of Specialization: Ortho

Location from which the person accesses biological material: 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: Bakhtawer S/o Ab Rehman

Age: 38 years

Gender: Male

Address: Shangam Chingam

Area of specialization: Preparation of net for fishing

Name: Rehamta Begum W/o Lt. Gh Hassan

Age: 70 years

Gender: Female

Address: Shangam Chingam

Area of specialization: Horticulure

Name: Mukesh Sharma S/o Mohan Lal

Age: 32 years

Gender: Male

Address: Butgam Chingam

Area of specialization:

Name: Atta Mohd S/o Gh Rasool Wani

Age: 48 years

Gender: Male

Address: Shangam Chingam

Area of specialization: Paddy (rare species) Cultivation

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: Akhter Hussain Butt
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Name and Address: Sarpanch PRI

2) Contact Person : Gh Rasool S/O Qaddus Butt

Name and Address: Shangam Chingam

3) Contact Person: Rehmata Begum W/o Gh Hassan
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Name and Address: Shangam Chingam

4) Contact Person: Irshad Ahmad Giri

Name and Address: B.O Sinthan

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					
S 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

Part II
PBR – Formats
AGROBIODIVERSITY
Format 1: Crop Plants

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

Radish	<i>Raphanus sativus</i>	Mooli	Local / Hybrid	Temperate conditions	Na	Plenty	Plenty	NA	2-3 crops in a year	Eaten raw, used as vegetable and pickle making	Used as a remedy to treat jaundice	Rich source of antioxidants and minerals	Local preserved	Locals/ Deptt. Of Agriculture
Tomato	<i>Lycopersicon esculentum</i>	Tamatar	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	NA	July-Sept	As vegetable and ketchup	Rich in vitamin C and Lycopene	NA	Local preserved/shops	Locals/ Deptt. Of Agriculture
Kale	<i>Brassica oleracea</i>	Haak	Local / Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	Twice in a year	Relished as pickle and as vegetable	Rich in fibre	NA	Local preserved/shops	Locals/ Deptt. Of Agriculture
Bottle gourd	<i>Lagenaria siceraria</i>	Ghiya	Local/ Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable	Good for health	NA	Local preserved/shops	Locals/ Deptt. Of Agriculture
Potato	<i>Solanum tuberosum</i>	Aalu	Local pahadi aalu	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable	Rich in proteins and carbohydrates	NA	Local preserved / Agriculture Deptt.	Locals/ Deptt. Of Agriculture
Green Chilly	<i>Capsicum annum</i>	Mirchi	Local/ Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable and pickle	Improve immune system	NA	Local preserved/shops	Locals/ Deptt. Of Agriculture
Pumpkin	<i>Cucurbita moschata</i>	Kaddu	Local/ Hybrid	Temperate conditions	NA	Plenty	Plenty	High yield production	May- Aug	As vegetable	Good for digestion and immune system	NA	Local preserved/shops	Locals and Deptt. Of Agriculture
Lentil	<i>Lens eculenta</i>	Masoor Dal	Local	Temperate & intermediate	7 Ha	Plenty	Common	Distinct Taste	Rabi	Used as Pulses in diet	Sown in Month of Oct-Nov	Local vartiey has distinct taste	Seeds saved from previous year crop	Generally aged farmer communities
Mash	<i>Vigna mungo</i>	Kali Mash	Local	Temperate and Intermediate	3 Ha	Plenty	Common	Distinct Taste	Kharif	Used as Pulse	-	Black in colour	Farmer saved seeds	Farmer
Moong	<i>Vigna radiata</i>	Moongi daal	Local	Temperate and Intermediate	-	Common	Rare	Distinct taste	Kharef	Used as pulse	Small in size	Green in colour	Farmer saved seeds	Locals and farmers

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 / own use	Community / Knowledge holder
					Past	Present						
Apple	<i>Malus domestica</i>	Saib	Red delicious, Golden delicious, Ambri	Lowland valley / home gardens	Plenty	Plenty	Local preserved / Horticulture Deptt./ Pvt. Nursery	Aug-Sept	Reducing cholesterol, lowering blood sugar level	Nutritious value	Market / own use	Locals
Apricot	<i>Prunus armeniaca</i>	Khubani	Safeda, Qadri	-do-	Plenty	Common	Local preserved / grafting	June-July	Cures heart diseases	Nutritious value	Market / own use	Locals
Walnut	<i>Juglans regia</i>	Akhroot	Local	Lowland valley / Agricultural land	Plenty	Common	Local preserved / Horticulture Deptt.	Aug-Sept	Reduces prostate cancer and diabetes	Nutritious value	Market / own use	Locals
Pear	<i>Pyrus communis</i>	Tang	Babugosha, Moti Daddi, Half red Naak, Misri Tang	-do-	Plenty	Common	Local preserved / grafting	Aug-Sept	Uses for mild digestion problems, diarrhea, severe cholera	Nutritious value	Market / own use	Locals
Peach	<i>Prunus persica</i>	Aadu	Local, Shan-e-Punjab, Amba	-do-	Plenty	Common	Local preserved	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals
Grapes	<i>Vitis vinifera</i>	Angoor	Local / Hybrid	-do-	Rare	Moderate	Local preserved	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals
Plum	<i>Prunus domestica</i>	Alu Bukhara	Santa Rosa / Local	Agriculture land	Rare	Rare	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals
Quince	<i>Cydonia oblonga</i>	Beehi	Local	Agriculture land	Plenty	Rare	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals

Format 3: Fodder Crops / Species

1	2	3	4	5		6	7	8	9	10
Plant	Scientific Name	Local Name	Landscape / Habitat	Local Status		Source of Plants / Seeds	Associated TK	Part Used	Other details	Community / Knowledge holder
				Past	Present					
Oak	<i>Quercus ilex</i>	Heru	Lowland / Forest	Plenty	Plenty	Natural propagation	Green leaves as fodder which provides more energy to livestock	Green Leaves	Also used as fuel wood & soil binder	Locals
Robenia	<i>Robinia pseudoacacia</i>	Kikar	Lowland / Forest	Common	Common	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also a good soil binder plant	Locals
Ban oak	<i>Aescules indica</i>	Gug	Lowland / Forest	Common	Rare	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	Locals
Ailanthus	<i>Ailanthus altissima</i>	Fak kul	Lowland / Forest	Plenty	Plenty	Natural propagation	-do-	Green Leaves	Also used as fuel wood	Locals
Willow	<i>Salix alba</i>	Ier kul	Lowland / Forest	Plenty	Common	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	Locals
Fig	<i>Ficus carica</i>	Figura/Fog	Lowland / Forest	Plenty	Common	Natural propagation	Provides fodder and more energy to livestock	Green / dry Leaves	Fruit edible & also used as fuel wood	Locals
Rice	<i>Oryza sativa</i>	Dhan / tamul	Temperate/ Lowland valleys	Common	Common	Local preserved	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals

Wheat	<i>Triticum aestivum</i>	Gundam	Temperate/ Lowland valleys	Plenty	Plenty	Local preserved / Agriculture Deptt.	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Barley	<i>Hordeum vulgare</i>	Jow	Temperate/ Lowland valleys	Plenty	Moderate	Local preserved	Green & dry plant used as fodder for the livestock	Whole plant	Also provides food grains	Locals
Maize	<i>Zea mays</i>	Makki	Temperate/ Lowland valleys	Plenty	Plenty	Local preserved	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Oat	<i>Avena sativa</i>	Lawn	Temperate/ Lowland valleys	Rare	Plenty	Local preserved / Agriculture Deptt.	Green & dry plant used as fodder for the livestock	Whole plant	Fodder crop	Locals
Bathua	<i>Chenopodium album</i>	Kunh	Temperate/ Lowland valleys	Plenty	Plenty	Natural propagation	As Fodder	Whole plant	Eaten as a highly nutritious vegetable	Locals
Narrow leaf plantain	<i>Plantago lanceolata</i>	Plantain	Temperate	Plenty	Plenty	Natural propagation	Provides a mineral rich forage to the animals	Leaves	NA	Locals

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>Marsilea quadrifolia</i>	Grass	Rice	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Grass	<i>Echinochloa crus-galli</i>	Grass	Rice	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Grass	<i>Anagallis arvensis</i>	Grass	Maize	-do-	Lowland	Plenty	Common	-	Manual plucking out	Weed	Not reported	Locals
Grass	<i>Lolium temulentum</i>	Rye grass	Wheat	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed adversely affect crop quality	Not reported	Locals
Plant	<i>Malva sylvestris</i>	Sotsal	Vegetables	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Medicinal use	Not reported	Locals
Plant	<i>Cannabis sativa</i>	Bhang	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking out	Religious purpose	Making Charas (intoxicating drug)	Locals
Plant	<i>Carduus nutans</i>	Kond posh	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals

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

Format 5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientific name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
Deodar tree	Insect	<i>Ectropis deodarae</i>	Deodar defoliator	On host	July to Oct	Insecticide application	Not reported	Leaf defoliator	Farmers, locals
Kail tree	Fungi	<i>Lophodermium macci</i>	Fungus	On host and fallen needles	July to Oct	Insecticide application	Not reported	Leaf defoliator	Farmers, locals
Fir tree	Fungi	<i>Fusarium pallidoroseum</i>	Fungus	On host and fallen needles	July to Oct	Insecticide application	Not reported	Leaf defoliator	Farmers, locals
Maize	Insect	<i>Helicoverpa zea</i>	Corn earworm	Farm fields	-	Insecticide application	Leaf damager	Not known	Farmers, locals
Maize	Animal	<i>Rattus norvegicus</i>	Rat	Farm fields	After flowering	Rodenticide treatment	Roots and fruit damager	Not known	Farmers, locals
Polyphagus	Insect	<i>Pieris brassicae</i>	Pediyani/ White cabbage butterfly	Farm fields	May- Sept	Insecticide application	Damages plant and reduces the yield	Not known	Farmers, locals
Peach, plum	Insect	<i>Brachycaudus helichrysi</i>	Leaf- curling aphid	On host	May- October	Insecticide application	Damages the crop	Leaf defoliator	Farmers, locals
Apple, Pear	Insect	<i>Eriosoma lanigerum</i>	Woolly aphid	On host and fallen leaves	May- October	Insecticide application	Damages the plant and crop	Not known	Farmers, locals
Polyphagous	Mammal	<i>Rhesus macaque & Semnopithecus ajax</i>	Monkey	Found around habitations	Summers	Scaring them away manually & by using scarecrows in the fields	Damages the plant and crop	cause great economic loss to the farmers	Farmers, locals
Maize, Fruits	Mammal	<i>Ursus americanus & U. thibetanus</i>	Reech/ Bhalu/ yecch	Forests	Summers	Scaring them away manually and by using scarecrows in the fields	Damages the plant and crop	cause great economic loss to the farmers	Farmers, locals
Maize	Mammal	<i>Hystrix indica</i>	Porcupine/ Shale	Forests	Summers	Manual	Damages the plant and crop	causes economic loss to the farmers	Farmers, locals

Walnut	Mammal	<i>Eoglaucomys fimbriatus</i>	Flying squirrel/ een	Forests	Summers	NA	Damages the crop	causes economic loss to the farmers	Farmers, locals
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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 Scheduled cast	Agriculture	Collection of NTFP, Cattle rearing, Artisans & Govt. Servants	Forest (Hilly terrain) / Agriculture landscape	Agriculture for the purpose of food grains and fodder	Terrace farming	Traditional resource management practices	General / SC	Socially privileged	Most of them do own jobs, economically less privileged	

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/ Non- cultivated	Nil	Non- cultivated	Mountainous	NA	Govt. & privately owned	Deodar	Cow	Local Inhabitants	NA	Agriculture	NA	NA	Locals & Govt.
						Kail	Mule						
						Grasses	Jackal						
						Champ	Dog						
						Akhroot	Cats						
						Chinar	Rat						
						Fig	Lizard						
						Apricot	Snake						
						Hiroo	Pigeon						
						Mohru	House sparrow						
						Kiker	Mosquito						
						Dandelion	Crow						
						Banafsha	Spider						
						Brun	Butterflies						
Fak kul	Owl												
Kumlaie	Dragonflies												

Format 9: Waterscape

1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape element type	Sub- type	Features and approx area	Ownership	General flora	General fauna	Major uses	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Lotic	River	Chingam	Govt.	Mostly planktons, trees, ferns, bryophytes & pteridophytes	Amphibians, fishes, insects, annelids etc.	Irrigation drinking	Panchayat villages, locals	Unknown	irrigation, fishing, washing	NA	NA	Locals
	Nallah	Ginsir, Gagradi, Boonda nallah	Govt.	Mostly planktons, trees, ferns, bryophytes & pteridophytes	Amphibians, fishes, insects etc.	Irrigation purpose	Panchayat villages, locals	Occasional de-silting, bunding	Irrigation, fishing, washing, drinking	NA	NA	Locals
	Springs	Boonda, sainyan, gagradi	Govt.	Mostly planktons, trees, ferns, bryophytes & pteridophytes	Amphibians, insects, annelids etc.	Drinking, irrigation	Panchayat villages, locals	Occasional de-silting	Irrigation, washing, drinking	NA	NA	Locals

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
Sandy	Red and Sandy	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						
Apple	Saib	<i>Malus domestica</i>	Red delicious, Golden delicious, Ambri	Lowland valley / home gardens	Plenty	Plenty	Local preserved / Horticulture Deptt.	Aug-Sept	Nutritious value	Reducing cholesterol, lowering blood sugar level	Market / own use	Locals
Apricot	Khubani	<i>Prunus armeniaca</i>	Safeda, Qadri	-do-	Plenty	Common	Local preserved / grafting	June-July	Nutritious value	Cures heart diseases	Market / own use	Locals
Walnut	Akhroot	<i>Juglans regia</i>	Local	Lowland valley / Agricultural land	Plenty	Common	Local preserved / Horticulture Deptt.	Aug-Sept	Nutritious value	Reduces prostrate cancer and diabetes	Market / own use	Locals
Pear	Tang	<i>Pyrus</i>	Babugosha, Moti Daddi, Half red Naak, Misri Tang	-do-	Plenty	Common	Local preserved / grafting	Aug-Sept	Nutritious value	Uses for mild digestion problems, diarrhea, severe cholera	Market / own use	Locals
Peach	Aaadu	<i>Prunus armwniaca</i>	Local, Shan-e- Punjab, Amba	-do-	Common	Common	Local preserved	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Grapes	Angoor	<i>Vitis vinifera</i>	Local / Hybrid	-do-	Moderate	Moderate	Local preserved	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Plum	Ore	<i>Prunus domestica</i>	Local / Hybrid	-do-	Plenty	Rare	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals

Quince	Beehi	<i>Cydonia oblonga</i>	Local	-do-	Plenty	Rare	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
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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 (NTPF)	Lowlands / forests	Naturally grown	Plenty	Plenty	Rasaunt as cooling agent	Roots	Used in various Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Dhrub	<i>Cynodon dactylon</i>	Wild	Temperate	Natural	Plenty	Common	Used as a laxative,coolant. Also useful in bleeding & skin troubles.	Whole plant	Religious purpose	Own use	Locals
Herb	Pudina	<i>Mentha longifolia</i>	Wild	Temperate	Natural	Plenty	Plenty	Used in sauces and dips as a cooling agent	Leaves	Respraitory ailments, to treat wounds	Own use	Locals
Tree	Haadi	<i>Prunus armeniaca</i>	Local	Temperate	Natural	Plenty	Rare	as a fruit	Whole plant	Antisposmodic, chronic bronchitis	Market/ own use	Locals
Tree	Fog, feku	<i>Ficus palmata</i>	Wild	Temperate	Natural	Plenty	Rare	as fruit and fodder	Fruit	used for skin diseases, treatment of lungs & bladder diseases	Own use	Locals
Tree	Akhroot	<i>Juglans regia</i>	Local	Temperate	Natural	Plenty	Moderate	fruit relished as as nut	Leaves,Fruit,	leaves are used in treatment of chronic coughs,asthma, purifation of blood and to treat diabetes	Market/ own use	Locals
Herb	Hamesh- Bahar	<i>Calendula officinalis</i>	Wild	Temperate	Natural	Plenty	Rare	As an ornamental	Flower,leaf	Used for skin disease, burns	Own use	Locals
Herb	Ganda/ Onion	<i>Allium cepa</i>	Local/hybrid	Temperate	Farmers/ shops	Plenty	Plenty	as a spice and salad	Bulb, Leaves	Anti inflammatory, antiseptic	Market/ own use	Locals

Herb	Thom/ Garlic	<i>Allium sativum</i>	Local/hybrid	Temperate	Farmers/ shops	Plenty	Plenty	as a spice in curries	Bulbs	Fever, diabetics, swellings	Market/ own use	Locals
Herb	Mooli	<i>Raphanus sativus</i>	Local/hybrid	Temperate	Farmers/ shops	Plenty	Plenty	as vegetable and as salad	Leaves root	To treat constipation & hypertension	Market/ own use	Locals
Climber	All, kaddu	<i>Cucurbita pepo</i>	Local/hybrid	Temperate	Farmers/ shops	Plenty	Plenty	as vegetable	Fruit	Anti inflamentry, anti viral, anti ulcer	Market/ own use	Locals
Herb	Green Chilly	<i>Capsicum annuum</i>	Local/hybrid	Temperate	Farmers/ shops	Plenty	Plenty	as spice and salad	Fruit	Good for immune system, eye sight.	Market/ own use	Locals
Herb	Rohan-hak/ Pran	<i>Allium carolinianum</i>	Wild/Local	Temperate	Natural/ farmers	Plenty	Rare	Used in curries as a substitute for onion.	Bulbs, Leaves, Flowers	Useful in maintaining blood chloesterol, also used as a digestive tonic	Market/ own use	Locals
Herb	Banafsha	<i>Viola odorata</i>	Wild	Temperate	Natural	Plenty	Common	As an ornamental	Flower	Remedy for sore throat, cold & cough	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
Broad leaved	Chinar	<i>Platanus orientalis</i>	Local	Forest / private nurseries	Non-commercial	Ornamental	Provides cool shade and home for many birds	Dried leaves are used as Kangri fuel	Locals
Broad leaved	Ier kull	<i>Salix alba</i>	Willow local	From cutting of willow tree	Commercial	Ornamental	Provides beauty of home garden etc	Also used in making cricket bats	Locals
Broad leaved	Safeda	<i>Populus ciliata</i>	Local	From cutting of populus tree	Commercial	Ornamental	Provides beauty of land	Used in fruit packing and plywood industries	Locals
Shrub	Gainda	<i>Tagetes erecta</i>	Local	Preserved seed	Non-commercial	Ornamental	Provides beauty of home garden	Also used for religious purpose	Locals
Shrub	Gulab	<i>Rosa indica</i>	Local	From cuttings	Non-commercial	Ornamental	Provides beauty of home garden	Also used for religious purpose	Locals
Shrub	Dhaliya	<i>Dahlia pinnata</i>	Local	Rhizomes of flower plant	Non-commercial	Ornamental	Provides beauty of home garden	Also used for religious purpose	Locals
Herb	Nargis	<i>Narcissus tazetta</i>	Wild	Bulbs	Non-commercial	Religious purpose	NA	NA	Locals
Climber	Chameli	<i>Jasminum officinale</i>	Wild	Cuttings	Non-commercial	Religious purpose	NA	NA	Locals

Format 14: Timber Plants / Trees

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Conifer	Dair	<i>Cedrus deodara</i>	Forests	Plenty	Plenty	Wild	Cedrus oil is used as a treatment of piles, kidney stone and diabetes etc.	Provides durable timber, fuelwood and for religious purpose	Evergreen tree having a conic crown with level dropping branches like X-mass tree	Locals
Conifer	Kail	<i>Pinus wallichiana</i>	Forests	Plenty	Plenty	Wild	Timber and furniture	Provides durable timber & fuelwood	Evergreen tree native to the Himalaya, Karakoram and Hindukush mountain	Locals
Conifer	Fir	<i>Abies pindrow</i>	Forests	Plenty	Plenty	Wild	Timber and furniture	It helps in treating fever, cough and cold. Provides timber and furniture for houses.	Evergreen tree growing to 40-60 m tall with conical crown and level branches	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

Format 15: Domesticated Animals

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Sheep	Bhead	<i>Ovis aries</i>	Local	Small size rough coat	Flock rearing	Plenty	Rare	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Locals
Sheep	Bhead	<i>Ovis aries</i>	Rambouillet cross bread	Large size low body weight	Flock rearing	Rare	Plenty	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Locals
Goat	Bakri	<i>Capra hircus</i>	Local	Small size low body weight	Flock rearing	Plenty	Rare	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Locals
Goat	Bakri	<i>Capra hircus</i>	Kaghani, bakasooli	Large size high body weight	Flock rearing	Rare	Plenty	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Locals
Cow	Gaay	<i>Bos taurus</i>	Local/ Desi/ Jersey	Cow have hooves on there feet and can weight upto 400 pounds	Flock rearing/ Domestication	Plenty	Rare	Milk, Cow dung	Milk good for health	Yes	High milk production	Locals
Buffalo	Bhains	<i>Bubalus bubalis</i>	Local	Dark slab colour less	Domestication	Common	Common	Milk, Dung	Milk good for health	Yes	High milk production	Locals
Ox	Bael	<i>Bos taurus</i>	Local	For ploughing	Domestication	Plenty	Rare	For ploughing	Use for ploughing	Yes	Use for ploughing	Locals
Dog	Kutta	<i>Canis familiaris</i>	Local/ Bakerwal	Small to median height, white, brown black in colour	Domestication	Plenty	Common	Guard, hunting dog	Nil	No	Nil	Locals
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	Plenty	Common	Used in riding and transport	Nil	Yes	NA	Locals
Mule	Khacchar	<i>Equus mulus</i>	Local	Generally brown, grey or black in colour, 55 to 65 inches in height	Domestication	Common	Plenty	Used as draught and pack animal	Nil	Yes	Nil	Locals
Poultry	Kukad	<i>Gallus domesticus</i>	Desi/ Hybrid	Enriched meat flavour, high egg yield	Domestication/ Rearing	Plenty	Common	Egg/Meat	Nil	Yes	Nil	Locals
Donkey	Gadha	<i>Equus asinus</i>	Local	White, black or grey in colour, smaller than a horse	Domestication	Plenty	Common	Used as a beast of burden	Nil	Yes	NA	Locals

Format 17: Markets / Fairs for Domesticated Animals, Medicinal Plants and other products

1	2	3	4	5	6	7	8	9
Name of the Weekly Market / Fair	Location	Weekly / Fortnightly & Others Bi-annual / Annual	Day held	Month incase of bi-annual or annual market fair	Types of animal bought and sold	Number of animals (average) transacted in a day	Places from where the animals are arrived	Places to where the animals are transported

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>	Land	Forest	Plenty	Common	Commercial and own use	Wood	Cedrus oil is often used for its aromatic property	It has a conic crown with level branches and dropping branch let	Locals
Tree	Kail	<i>Pinus wallichiana</i>	Land	Forest	Plenty	Common	Commercial and own use	Wood	Provide durable timber	Conifer plant	Locals
Tree	Fir	<i>Abies pindrow</i>	Land	Temperate forest	Plenty	Common	Commercial and own use	Wood	It helps in mitigating the level of anxiety	It help in treating fever, cough and cold	Locals
Tree	Oak	<i>Quercus ilex</i>	Land	Forest/ Private land	Plenty	Common	Own uses	Leaves & Wood	Fodder & Fuel wood	Evergreen B.L tree	Locals
Tree	Bren	<i>Alnus villosa</i>	Land	Forest	Plenty	Common	Own use	Wood	Fodder and fuel wood	For religious purpose	Locals
Tree	Champ	<i>Alnus nitida</i>	Land	Forest	Plenty	Common	Own use	Wood	Fuel wood	Found on riverside	Locals
Tree	Zum	<i>Prunus cornuta</i>	Land	Forest	Plenty	Common	Own use	Wood	Fuel wood	-	Locals
Tree	Willow	<i>Salix alba</i>	Land	Forest/ Pvt	Plenty	Common	Commercial /Own use	Leaves & Wood	Cricket Bat	Fodder	Locals
Herb	Dhoop	<i>Jurinea macrocephala</i>	Land	Pasture	Plenty	Rare	Own use	Root	Dhoop / Agarbati sticks	NTPP	Locals

Herb	Kour	<i>Picrorhiza kurroa</i>	Land	Mountain region	Plenty	Rare	Own use	Root	Medicinal use	NTFP	Locals
Herb	Bankakri	<i>Podophyllum hexandrum</i>	Land	Mountain region	Plenty	Rare	Own use	Root	Used for cancer treatment	NTFP	Locals
Herb	Kuth	<i>Saussurea lappa</i>	Land	Mountain region	Plenty	Rare	Own use	Root	Medicinal use	NTFP	Locals
Herb	Nagchattri	<i>Trillium govianum</i>	Land	Mountain region	Plenty	Rare	Own use	Root	Medicinal use	NTFP	Locals
Herb	Krees	<i>Dioscorea deltoidea</i>	Land	Mountain region	Plenty	Moderate	Own use	Root	Medicinal use	NTFP	Locals
Shurb	Kaimbli	<i>Berberis lycium</i>	Land	Forest/ private	Plenty	Moderate	Own use	Root	Medicinal use	NTFP	Locals
Grasses	Dhrub grass	<i>Cynodon dactylon</i>	Land	Moist and warm climate	Plenty	Plenty	Own use	Branch	Medicinal use	Religious purpose	Locals
Climber	Ivy	<i>Hedera helix</i>	Land	woodland, grassland, town and garden	Plenty	Common	Own use	Branch	Medicinal use	Parasite	Locals
Tree	Shehtut	<i>Morus alba</i>	Terrestrial	Temperate	Common	Common	Commercial /Own use	Bark, fruit	Asthma, Bronochits	Leaves used to feed silkworm	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
Fungi	Gucchi	<i>Morchella esculenta</i>	Terrestrial	Temperate	Plenty	Rare	Commercial /Own use	Whole part	Edible, laxative, body tonic, stomach problem	Economically important	Locals

Tree	Bhoj patra	<i>Betula utilis</i>	Terrestrial	Temperate	Plenty	Rare	Commercial /Own use	Bark	Bark is used for writing lengthy scriptures & texts,also used for packaging	Religious purpose	Locals
Herb		<i>Corydalis thyrsoiflora</i>	Terrestrial	Temperate	Plenty	Common	Commercial/ own use	Rhizomes,Fruit	used in treatment of tumor	NTFP	Locals
Herb	Pit papara, papara	<i>Fumaria indica</i>	Terrestrial	Temperate	Plenty	Moderate	Commercial/ own use	Roots ,Stem,Bar k	used as an immunity booster	Medicinal	Locals
Herb	Shephard's purse, toree ghas	<i>Capsella bursa-pastoris</i>	Terrestrial	Temperate	Plenty	Common	Commercial/ own use	Rhizomes	usedto treat gynecology infections	NTFP	Locals
Herb		<i>Erysimum melicentae</i>	Terrestrial	Temperate	Plenty	Rare	Commercial/ own use	Whole Plant	used to heal broken bones,treat inflammation from fractures	NTFP	Locals
Herb		<i>Iris hookeriana</i>	Terrestrial	Temperate	Plenty	Moderate	Commercial/ own use	Flowers	used against ulcers,disorders of lungs.	NTFP	Locals
Herb	Rumkath, Budarkath	<i>Verbascum thapsus</i>	Terrestrial	Temperate	Plenty	Rare	Commercial/ own use	Leaves	Useful to treat pulmonary problems, inflammatory diseases, asthma, diarrhoea & migraine headaches.	Medicinal	Locals
Herb	Pamchalan/ chukri	<i>Rheum australe</i>	Grow Annually	Forest	Plenty	Rare	Commercial/ own use	Roots	Used as laxative, tonic & as a remedy for fever,cough,indigestion & menstrual disorders.	Economically important	Locals
Herbs		<i>Cirsium arvense</i>	Grow Annually	Forest	Rare	Plenty	Commercial/ own use	Whole Plant	Used for sinus Pain, Hay Fever & Headache.	NTFP	Locals
Herbs		<i>Echinops cornigerus</i>	Wild	Forest	Moderate	Moderate	Commercial/ own use	Fresh & Dried Leaves	used in ayurvedic system of medicine	NTFP	Locals

Herbs		<i>Erigeron canadensis</i>	Wild	Forest	Moderate	Plenty	Commercial/ own use	Whole Plant	Stem, leaves & flowers used as digestive, emetic & stomachic	NTFP	Locals
Herbs		<i>Filago germanica</i>	Grow Annually	Forest	Common	Common	Commercial/ own use	Aerial Parts	above ground parts used in cold, tonic & astringent	NTFP	Locals
Herbs		<i>Galinsoga parviflora</i>	Grow Annually	Forest	Common	Common	Commercial/ own use	Roots	roots used to relieve stomachache, acute fever & constipation	NTFP	Locals
Herbs		<i>Gnaphalium luteoalbum</i>	Grow Annually	Forest	Moderate	Rare	Commercial/ own use	Aerial Parts	used as aromatic & antimicrobial	NTFP	Locals
Shrub		<i>Buddleja paniculata</i>	Grow Annually	Forest	Plenty	Plenty	Commercial/ own use	Whole Plant	whole plant diuretic, hemostatic & antidiarrheal	NTFP	Locals
Herb		<i>Lepidium virginicum</i>	Grow Annually	Forest	Common	Common	Commercial/ own use	Whole part	Edible	NTFP	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
1	Dhoop	<i>Jurinea macrocephala</i>	NTFP	Economic and social	Plenty
2	Kour	<i>Picrorhiza kurrooa</i>	NTFP	Economic and social	Rare
3	Bankakri	<i>Podophyllum hexandrum</i>	NTFP	Economic and social	Rare
4	Kuth	<i>Saussurea lappa</i>	NTFP	Economic and social	Rare
5	Nagchattri	<i>Trillium govanianum</i>	NTFP	Economic and social	Rare
6	Krees	<i>Dioscorea deltoidea</i>	NTFP	Economic and social	Rare
7	Belladonna	<i>Atropa accuminata</i>	NTFP	Economic and social	Rare
8	Pamchalan	<i>Rheum australe</i>	NTFP	Economic and social	Rare
9	Chorai	<i>Angelica glauca</i>	NTFP	Economic and social	Rare
10	Hund	<i>Taraxacum officinalis</i>	NTFP	Economic and social	Plenty
11	Hamesh bahar	<i>Calendula officinalis</i>	NTFP	Economic and social	Plenty
12	Kajuban	<i>Arnebia benthamii</i>	NTFP	Economic and social	Plenty
13	Kulmash	<i>Viburnum cotinifolium</i>	Bush/ Shrub	Social	Plenty
14	Neel kanth	<i>Ajuga bracteosa</i>	Wild	Social	Plenty
15	Suchal	<i>Malva neglecta</i>	Wild	Social	Plenty
16	Bhang	<i>Cannabis sativa</i>	Wild	Economic and social	Plenty
17	Plum	<i>Prunus persica</i>	Wild	Economic & Social	Common
18	Gucchi	<i>Morchella esculenta</i>	Wild	Economic & Social	Common

Format 20: Aquatic Biodiversity

1	2	3	4	5	6		7	8	9	10
Local Name	Scientific Name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community / Knowledge Holder
					Past	Present				
Frog (Mundak)	<i>Rana tigrina</i>	-	Long very powerful back led and web feet	Pond/river	Plenty	Rare	Important role in food chain	Frog are natures pharmacy and provide a very efficient transfer of solar energy	Maintain food chain and food wed.	Locals
Gaad	<i>Schizothorax reticulatum</i>	Indigenous	Elongated tube form with short snout, barbules, lower lip folded	Snow fed streams and rivers	Plenty	Abundant	Food/ Commercial	NA	NA	Locals & Deptt. of fisheries
Watercress (Nag Biber)	<i>Nasturtium officinale</i>	Aquatic flowering plant	Rapid growing perennial plant	Pond / watery place	Plenty	Plenty	As vegetable	Oldest known leafy vegetable consumed by humans	Its high content of Vitamin C makes it a good remedy to treat various chronic illnesses.	Locals
Maiden hair (Ghvtheer)	<i>Adiantum caudatum</i>	Aquatic Grass	It is a perennial fern producing fronds	Found in shaded areas	Plenty	Plenty	As an ornamental and medicinal plant	Fronds are said to be antiasthmatic and antispasmodic	It is used n the treatment of chest infection, cough, diabetes, fever and skin disease	Locals

Format 21: Wild Aquatic Plant Species of Importance

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

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					
Tree	Deodar	<i>Cedrus deodara</i>	Conifer	Temperate forest	Plenty	Plenty	Timber for religious purpose	Timber	Wood	Own use	Locals
Herb	Kour	<i>Picrorhiza kurrooa</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Tonic and rheumatism	Root	Own use	Locals
Herb	Bankakri	<i>Podophyllum hexandrum</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Cancer treatment	Roots	Own use	Locals
Herb	Kuth	<i>Saussurea lappa</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Ayurvedic medicines	Root	Own use	Locals
Herb	Nagchettri	<i>Trillium govanianum</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Root yield diosgenin hydrolysis	Root	Own use	Locals
Herb	Krees	<i>Dioscorea deltodea</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Gastric complaints	Root	Own use	Locals
Herb	Belladonna	<i>Atropa acuminata</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Anti asthmatic	Roots and leaves	Own use	Locals
Herb	Pamchalan	<i>Rheum australe</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Wound healing	Root	Own use	Locals

Shrub	Khumli	<i>Berberis lycium</i>	Thorny shrub	Temperate forest	Plenty	Rare	Medicinal use and for brush wood fencing	Rasaunt as cooling as agent of eyes	Root & leaves	Own use	Locals
Herb	Zakhme hayat	<i>Berginia ciliata</i>	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Bone healing, diarrhea and vomiting	Root	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
Herb	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	Locals
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
Herb	Patrish	<i>Aconitum heterophyllum</i>	Wild	Temperate	Plenty	Rare	Medicinal use	Used to treat bronchitis, persistent cough, upper respiratory tract infections. common cold, flu & malaria, treat fever, cough, vomiting & diarrhea.	Roots	Own use	Locals

Format 23: Wild relatives of Crops

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					
Vanpraan	<i>Allium atropurpureum</i>	All agricultural crop	Mountainous region	Plenty	Rare	Food	Leaves and flowers	Medicinal value	Exotic plant used as vegetable	Local

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>Plantanus orientalis</i>	Broad leave	Govt./ private premises	Non-commercial	Provide cool shade and home to many birds	Leaves are used as kangri fuel	Locals
Ier kull	<i>Salix alba</i>	Weeping willow	Govt./ private premises	Commercial	Provides scenery/beauty to the area	Used in making cricket bats	Locals
Safeda	<i>Populus ciliata</i>	Populus	Govt./ private premises	Commercial	Provides scenery/beauty to the area	Used in fruit packing industries	Locals
Gulab	<i>Rosa acicularis</i>	Local /wild	Temperate/ terrestrial	Non-commercial	Religious purpose	Rare	Locals
Tree	<i>Robinia pseudoacacia</i>	Kikar	Temperate/ terrestrial	Non-commercial	Ornamental	Timber, Fodder, Fuel	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	Sonf/Bodiyana	<i>Foeniculum vulgare</i>	Broad Leaved	Low land	Plenty	Rare	Used as a remedy for constipation and gastric troubles in infants	Seeds	Inhabitants have got knowledge w.r.t identification /common use of species	Bonafide purpose	Inhabitants of the area
	Jungli pudina	<i>Mentha longifolia</i>			Plenty	plenty	Cooling agent and used in various ayurvedic medicines	Leaves			
	Bantambaku	<i>Verbascum thapsus</i>			Plenty	Rare	Narcotic	Leaves			
	Bhang	<i>Cannabis sativa</i>			Plenty	plenty	Used in medicines and a narcotic drug	leaves			
	Thom	<i>Allium sativum</i>			Plenty	Plenty	Religious/cultural/ Medicine	Leaves , Bulb			
Trees	Khor/Dun	<i>Juglanas regia</i>			Plenty	common	Teeth cleaning, toothache	Leaves, bark			

Format 26: Timber Plants

1	2	3	4		5	6	7	8
Local Name	Scientific Name	Habitat	Local Status		Other Uses, if any	Associated TK	Other Details	Community/ Knowledge Holder
			Past	Present				
Deodar	<i>Cedrus deodara</i>	Temperate forest	Plenty	Plenty	Religious purpose	Provide durable timber	Soft wood timber	Local
Kail	<i>Pinus walichiana</i>	Forest	Plenty	Plenty	Furniture and fruit packing	Provide durable timber	Soft wood timber	Local
Fir	<i>Abies pindrow</i>	Forest	Plenty	Plenty	Fruit packing industries	Providing good timber	Soft wood timber	Local
Akhroot	<i>Juglans regia</i>	Private/ Forest	Plenty	Plenty	Fruit and furniture	Provide good timber / fruit	Hard wood	Local
Popular	<i>Populus ciliata</i>	Private/ Forest	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					
Mammals	Langoor	<i>Semnopithecus ajax</i>	Temperate	Greyish with black face and ears	Throughout the year	Common	Plenty					
	Himaliyan Black bear	<i>Ursus thibetanus</i>	Forest	Black in colour with a white spot on the chest	Throughout the year	Plenty	Rare					
	Jackal	<i>Canis aureus</i>	Temperate	Nocturnal	Throughout the year	Plenty	Common					
	Jungli cat	<i>Felis chaus</i>	Temperate	Grey, light brown in colour	Throughout the year	Common	Common					
	Leopard	<i>Panthera pardus</i>	High altitude	Fur with dark rosettes	Throughout the year	Common	Moderate					
	Red fox	<i>Vulpus vulpus</i>	High altitude	Nocturnal	Throughout the year	Common	Moderate					
	Reech/ Bhalu/ yecch	<i>Ursus americanus</i>	High altitude	Omnivore, black in colour	winter	Common	Moderate					
	Yersud/ yellow throated marten	<i>Martes flavigula</i>	High altitude	yellow and black in colour	Throughout the year	Common	Moderate					
	Monkey	<i>Rhesus macaque</i>	Temperate	brownish in colour	Throughout the year	Common	Abundant					
	Himaliyan mouse hare/ Bal gagud	<i>Ochotona roylei</i>	Forest	Rat like small in size with a very small tail	Throughout the year	Plenty	Common					
	House crow	<i>Corvus splendens</i>	Temperate	Black in colour with a greyish neck, smaller than the jungle crow	Throughout the year	Plenty	Plenty					
	House sparrow	<i>Passer domesticus</i>	Temperate	Small birds with sexual dimorphism, feed on seeds & grains	Throughout the year	Plenty	Common					

	Black tit	<i>Periparus rufonuchalis</i>	Temperate	Dull black in colour with dark black head and throat and white spots on cheeks	Throughout the year	Plenty	Rare	Necessary for maintenance of Ecological balance	NA	Prohibited		Locals having good knowledge with respect to their identification
	Blue rock pigeon	<i>Columba livia</i>	Temperate	Grey in colour, feed on seeds, grain	Throughout the year	Common	Abundant					
	Common maina	<i>Acridotheres tristis</i>	Temperate	Brown in colour with a yellow beak, feeds on seeds, grain	Throughout the year	Plenty	Common					
	Common cuckoo/ koel	<i>Eudynamys scolopaceus</i>	Temperate	Males black in colour and females dull grey with small black spots over the body.	Throughout the year	Common	Common					
	Chukar	<i>Alectoris chukar</i>	Temperate	Grey in colour, feed on seeds & grains	Throughout the year	Abundant	Rare					
	Cheel	<i>Milvus migrans</i>	Temperate	Carnivore, solitary bird	Throughout the year	Plenty	Common					
	Jungle Crow	<i>Corvus macrorhynchus</i>	Temperate	Black in colour with a strong beak, omnivore in nature	Throughout year	Plenty	Plenty					
Insects	Honey Bee	<i>Apis mellifera</i>	Temperate	Small, black and yellow in colour. Produces honey and also an important pollinator.	Throughout the year	Abundant	Rapidly declining in wild					
	Dragonfly	<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 sp.</i>	Temperate	Small light coloured with black and white abdomen	Summer	Common	Abundant					
Annalids	Leech	<i>Hirudo medicinalis</i>	Temperate region	Soft, segmented body	Summer	Common	Common					

AMPHIBIUS	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				
	Een	<i>Eoglaucomyx fimbriatus</i>	Temperate	Nocturnal, Greyish Black in colour with a furry tail	Throughout the year	Plenty	Common				
Reptiles	Saanp	<i>Serpentes (Sub-order)</i>	Temperate	Limbless, carnivore with mobile jaw	Summer	Plenty	Common				
	Kashmir rock agama	<i>Laudakia tuberculata</i>	Temperate	Found coomonly among the rocks, light coloured with a long and stiff tail	Summer	Plenty	Plenty				
Amphibian	Frog	<i>Rana tigrina</i>	Temperate	Dull green in colour with black spots over the body. Sexual dimorphism present.	summer	Abundant	Rare				

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
Sr. No.	Local Name	Scientific Name	Type of Animals (Mammals / Birds / Fish / Insect etc.)	Habitat	Remarks (Rare / Common etc.)
NA	NA	NA	NA	NA	NA

Format 31: Any other information of local importance

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