Peoples' Biodiversity Register (PBR): General Details
Name of the Panchayat Samity: Horna
Taluk: Mughalmaidan
District: Kishtwar
State/UT:- Jammu and Kashmir
Geographical Area of the Panchayat Samity: 3.5 sq km
Population under the Panchayat Samity: Total: 2260
Male :- 1300 Female: 960
Habitat and Topography: Hilly Terrian
Climate (Rainfall, Temperature and other weather patterns) Seasonal Moderate
Land Use (Nine-fold classification available with village records)
Date, Month and Year of PBR preparation:-23/08/2020
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: Atta Mohd Dar (Mobile No. : 9622092810)

Age: 64

Gender: Male

Address: Horna

Area of specialization: Retired VLW

2) Name: Anju Bala

Age: 26 years

Gender: Female

Address: Horna

Area of specialization: House wife

3) Name: Guddi Devi

Age: 30 years

Gender: Female

Address: Horna

Area of specialization: Housewife

4) Name: Ranjeet Kumar

Age: 26 years

Gender: Male

Address: Horna

Area of specialization: Shopkeeper

5) Name: Irshad Ahmed

Age: 24 years

Gender: Male

Address: Horna

Area of specialization: Farmer

6) Name: Pardeep kumar

Age: 26 Years

Gender: Male

Address: Horna

Area of specialization: Farmer Agriculture

7) Name: Ramesh kumar

Age: 40 years

Gender: Male

Address: Horna

Area of specialization: Farmer 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 villag 1) Name: Ab Rashid **Age:** 60 Gender: Male Address: Horna Area of Specialization: Hakeem (Bones Joint animals) Location from which the person accesses biological material: Forest Perception of the practitioner on the resource status: Medicinal use: 2) Name: Shammma Begum **Age:** 60 Gender: Female Address: Horna Area of Specialization: Hakeem (Forest Herbs use) Location from which the person accesses biological material: Forest Perception of the practitioner on the resource status: Medicinal use: 3) Name: Bhagi devi **Age:** 65 Gender: Female Address: Khandool Area of Specialization: Vaid (Forest herbs) The location from which the person accesses biological material: Local Perception of the practitioner on the resource status: Medicinal use: Zakhmehayat

Annexure 3
List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry
1) Name: Bansi Lal
Age: 65
Gender: Male
Address: Neera
Area of specialization: Shepherd
2) Name: Abdul Rehman
Age: 48
Gender: Male
Address: Horna
Area of specialization: Rice Cultivator

Annexure 4
Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR
1) Contact Person :-
Name and Address:
2) Contact Person :-
Name and Address:
3) Contact Person :-
Name and Address:
4) Contact Person :-
Name and Address:
You may add names of more institutions/ NGO/ Individuals etc., if necessary

Annexure 5	;				
	ccess to biological resources and the mode of their sharing	nd traditional knowledge gra	nted, details of the collec	ction fee imposed ar	nd details of the benefits
1	2	3	4	5	6
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
NA	NA	NA	NA	NA	NA

Part II **PBR** – Formats **AGROBIODIVERSITY Format 1: Crop Plants** 2 3 4 5 6 7 8 9 10 11 12 13 14 1 **Local Status** Community/ Scientific Other Source of Landscape / Approx. Cropping Associated Crop **Local Name** Variety Special features Uses Knowledge Name Habitat area shown season TK details Seeds/Plants Holder **Past Present** Tall variety High Food **Provides** yield Resistant to Lowland Veliyan 51.7 Rare Aug-Sept Fodder Not-known Local preserved Rice Oryza sativa Dhan / tamul Plenty Locals more valleys drought, pests & Fuel energy diseases Provides Local preserved Lowland Food / Agriculture Wheat Triticum Gundam 56.7 Plenty May-June Not-known Local Plenty -do-Locals more valleys Fodder Deptt. energy Provides Hordeum Lowland Food 58.4 Not-known Local preserved Barley Jow Local Plenty Rare -do-May-June Locals more valleys vulgare Fodder energy Provides Lowland Food Not-known Local preserved 13.25 Plenty Maize Zea mays Maki Local Plenty -do-Sept-Oct more Locals valleys Fodder energy Local preserved Provides Lowland 18.35 / Agriculture Oat Avena sativa Lawn Local Rare Plenty -do-May-June Fodder more Not-known Locals valleys Deptt. energy

Beans	Phaseolus vulgaris	Rajmash	Local	Lowland valleys	28.25	Plenty	Plenty	Resistant to drought, pests & diseases	Sept-Oct	Food Fodder	Provides more energy	Not-known	Local preserved	Locals
Moong	Vigna radiata	Mong mah	Local	Lowland valleys		Plenty			Sept-Oct	Food Fodder	Provides more energy		Local preserved	Locals

	Format 2: Fruit Plants														
1	2	3	4	5		6	7	8	9	10	11	12			
Plant	Scientific	Local Name	Variety	Landscape /	Local	Status	Source of	Season of Fruiting	Associated TK	Uses	Other details market /own	Community / Knowledge			
	Name	Doeur rume	v arreety	Habitat	Past	Present	Seeds/Plants	(Repining)	rissociated 11	o ses	use	holder			
Apple	Malus domestica	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	Prunus armeniaca	Khubani	Safeda, Qadri	-do-	Plenty	Rare	Local preserved / grafting	June-July	Cures heart diseases	Nutritious value	Market / own use	Locals			
Walnut	Juglans regia	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			
Pear	Pyrus	Tang	Babugosha, Moti Daddi, Half red Naak, Misri Tang	-do-	Plenty	Plenty	Local preserved / grafting	Aug-Sept	Uses for mild digestion problems, diarrhea, severe cholera	Nutritious value	Market / own use	Locals			
Peach	Prunus armwniaca	Aadu	Local, Shan-e- Punjab, Amba	-do-	Plenty	Plenty	Local preserved	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals			
Pomegranate	Punica granatum	Anardana	Local wild / Ganesh, Kandhari	-do-	Plenty	Plenty	Local preserved	Sept-Oct	Provides more energy	Nutritious value	Market / own use	Locals			
Grapes	Vitis vinifera	Angoor	Local / Hybrid	-do-	Plenty	Plenty	Local preserved	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals			

Cucumber	Curmis sativus	Khira	Local / Hybrid	Agriculture land	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals
Plum	Prunus domestica	Alu Bukhara	Santa Rosa / Local	Agriculture land	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals
Quince	Cydonia oblonga	Beehi	Local	Agriculture land	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Provides more energy	Nutritious value	Market / own use	Locals

1	2	3	4		5	6	7	8	9	10
			Landscape /	Local	Status	Source of Plants /				Community /
Plant	Scientific Name	Local Name	Habitat	Past	Present	Seeds	Associated TK	Part Used	Other details	Knowledge holder
Oak	Quercus ilex	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	Roninia pseudoacacia	Kikar	Lowland / Forest	Plenty	Plenty	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also a good soil binder plant	Locals
Ban oak	Aescules indica	Gug	Lowland / Forest	Plenty	Plenty	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	Locals
Ailanthus	Ailanthus altissima	Fak kul	Lowland / Forest	Plenty	Plenty	Natural propagation	-do-	Green Leaves	Also used as fuel wood	Locals
Willow	Salix alba	Ier kul	Lowland / Forest	Plenty	Plenty	Natural propagation / Artificial regeneration	-do-	Green Leaves	Also used as fuel wood	Locals
Fig	Ficus palmate	Figura	Lowland / Forest	Plenty	Plenty	Natural propagation	Provides fodder and more energy to livestock	Green / dry Leaves	Fruit edible & also used as fuel wood	Locals
Rice	Oryza sativa	Dhan / tamul	Lowland valleys	Plenty	Rare	Local preserved	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Wheat	Triticum	Gundam	Lowland valleys	Plenty	Plenty	Local preserved / Agriculture Deptt.	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Barley	Hordeum vulgare	Jow	Lowland valleys	Plenty	Rare	Local preserved	Green & dry plant used as fodder for the livestock	Whole plant	Also provides food grains	Locals

Maize	Zea mays	Maki	Lowland valleys	Plenty	Plenty	Local preserved	Provides fodder and more energy to livestock	Whole plant	Also provides food grains	Locals
Oat	Avena sativa	Lawn	Lowland valleys	Rare	Plenty	Local preserved / Agriculture Deptt.	Green & dry plant used as fodder for the livestock	Whole plant	Fodder crop	Locals

	Format 4: Weeds														
1	2	3	4	5	6	•	7		9	10	11	12			
Plant	Scientific Name	Local Name	Affected crop	Impact	Landscape /	Local	Status	Uses if any	Management	Associated TK	Other details like	Community / Knowledge			
Tiant	Scientific Ivanic	Local Name	Ancered crop	Impact	Habitat	Past	Present	Oses if any	options	Associated TK	exotic	holder			
Grass	Parthenium hysterophorus	Congress grass	Every crop even to human	Less growth of affected crop and causes severe itching in humans	Forest / Lowland	Plenty	Plenty	-	Pesticide spraying / plucking out	Causes severe skin problems	Not reported	Locals			
Grass	Cynodon dactylon	Drub grass	Every crop	Less growth of affected crop	Forest / Lowland	Plenty	Plenty	Fodder grass	Pesticide spraying / plucking out	Religious purpose	Not reported	Locals			
Grass	Murshilea quadrifoliata	Grass	Rice	-do-	Lowland	Plenty	Plenty	-	Pesticide spraying / plucking out	Weed	Not reported	Locals			
Grass	Echinochota crus galli	Grass	Rice	-do-	Lowland	Plenty	Plenty	-	Pesticide spraying / plucking out	Weed	Not reported	Locals			
Grass	Anagallis arvensis	Grass	Maize	-do-	Lowland	Plenty	Plenty	-	Pesticide spraying / plucking out	Weed	Not reported	Locals			
Grass	Lolium temulentum	Rye grass	Wheat	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Weed adversely affect crop quality	Not reported	Locals			
Plant	Malva sylvestris	Sotsal	Vegetables	-do-	Lowland	Plenty	Plenty	-	Manual plucking out	Medicinal use	Not reported	Locals			

Plant	Cannabis sativa	Bhang	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking out	Religious purpose	Making Charas (intoxicating drug)	Locals
Plant	Cardius nutans	Kond posh	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Manual plucking out	Weed	Not reported	Locals
Plant	Utrica dioica	Soi	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Pesticide spraying / plucking out	Weed	Not reported	Locals
Plant	Mateicaria	Chamomilla	Every crop	-do-	Forest /Lowland	Plenty	Plenty	-	Pesticide spraying / plucking out	Weed	Not reported	Locals

				Format 5: Pe	sts 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	Ectropis deodarae	Deodar defoliator	On host	July to Oct	Insecticide application	Not reported	Leaf defoliator	-
Kail tree	Insect	Lophodermium macci	Fungal pathogen	On host and fallen needles	July to Oct	Insecticide application	Not reported	Leaf defoliator	-
Fir tree	Insect	Fusarium pallidiriseum	Pathogen	On host and fallen needles	July to Oct	Insecticide application	Not reported	Leaf defoliator	-
Rice	Insect	Order isopteran	Not known	Farm fields	-	Insecticide application	Root feeder	Not known	-
Rice	Insect	Noctuidae pyralidae	Not known	Farm fields	-	Insecticide application	Stem borer	Not known	-
Rice	Insect	Order hemiptera	Not known	Farm fields	-	Insecticide application	Leaf hoppers	Not known	-
Maize	Insect	Helicoverpa	Corn earworm, true wire worm	Farm fields	-	Insecticide application	Leaf damager	Not known	-
Maize	Animal	Rattus norvegicus	Rat	Farm fields	After flowering	Chemical pesticide	Roots and fruit damager	Not known	-
Wheat	Insect	Odontoter misobesus	Termites	Farm fields	Ripening period	Insecticide application	Damages the food grain	Not known	-

		F	ormat 6: Market	s for Domesticated	d 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				
Not applicable	Not applicable											

	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: Lands	cape					
	1		2	3	4	5	6	7	8	9	10	11	12
Major	Major Landscapes Agricultural Para Fallow		Sub -	Feature s and	Ownership	General flora	General	User groups	Management	General uses	Associated TK	Other	Community
Agricultural land	Pond	Fallow land	Landscapes	approx. Area	Ownership	General nora	fauna	Oser groups	practices	General uses	Associated TK	details	accessed
Cultivated land	NA	NA	Cultivated land		Agricultural lands are privately owned	Domestic plants and some wild plants	Insect	Panchayat villages	Traditional practices	Agriculture	Provides food and fodder	Unknown	Low income communities
Non-cultivated land	NA	NA	Non-cultivated land		Govt./ Private land	-do-	Insect	-do-	-do-	Fodder purpose	Provides fodder to livestock	-do-	-do-

	Format 9: Waterscape												
1	2	3	4	5	6	7	8	9	10	11	12	13	
Waterscape element type	aterscape Sub-type Features and Ownership Ceneral flora Ceneral fauna Major uses User groups Management Ceneral uses Associated Other details Community												
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	

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 2 3 4 6 7 8 9 10 11 13 1 12 **Local Status** Season of Other details Landscape/ Source of Uses Community/ Plant Type | Local Name | Scientific Name Variety Fruiting market/own Associated TK Habitat plant/seeds (usage) Know. holder (Repining) use Past Present Red delicious, Lowland Reducing cholesterol, Local preserved / Nutritious Market / own valley / home Horticulture Apple Saib Malus domestica Golden delicious, Rare Plenty Aug-Sept lowering blood sugar Locals value use Deptt. Ambri gardens level Market / own Prunus Local preserved Nutritious Khubani Safeda, Qadri -do-Rare June-July Cures heart diseases Locals Apricot Plenty armeniaca grafting value use Lowland Local preserved valley / Nutritious Reduces prostrate Market / own Walnut Akhroot Juglans regia Local Plenty Plenty Horticulture Aug-Sept Locals Agricultural cancer and diabetes value use Deptt. land Babugosha, Moti Uses for mild digestion Local preserved Nutritious Market / own Daddi, Half red problems, diarrhea, -do-Aug-Sept Pear Tang Pyrus Plenty Plenty Locals grafting value use Naak, Misri Tang severe cholera Market / own Prunus Local, Shan-e-Nutritious Aug-Sept Provides more energy Peach Aaadu -do-Plenty Local preserved Locals Plenty Punjab, Amba value armwniaca use Nutritious Market / own Pomegranate Anardana Punica granatum Local -do-Plenty Plenty Local preserved Sept-Oct Provides more energy Locals value use Nutritious Market / own Grapes Angoor Vitis vinifera Local / Hybrid -do-Plenty Plenty Local preserved Aug-Sept Provides more energy Locals value use

Cucumber	Khira	Curmis sativus	Local / Hybrid	-do-	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Plum	Ore	Prunus domestica	Local / Hybrid	-do-	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
Quince	Beehi	Cydonia oblonga	Local	-do-	Plenty	Plenty	Local preserved / Seed shops	Aug-Sept	Nutritious value	Provides more energy	Market / own use	Locals
	Groundnut	Arachis hypogaea	Local	-do-	Plenty	Plenty	_	June-July	Nutritious value	Provides more energy	Own Use	Locals

			1	Format 12	: Medicina	al Plant	ts (Herb	os, Shrubs, Tr	rees etc.)			
1	2	3	4	5	6	,	7	8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/	Source of	Local	status	Uses (usage)	Part used	Associated TK	Other details	Community/
Танс Турс	Local Name	Scientific Ivanic	variety	Habitat	plant/seeds	Past	Present	Uses (usage)	Tart uscu	Associated TX	market/own use	Know. Holders
Herb	Dhoop	Jurinea macrocephala	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Dhoop making	Roots	Dhoop and agarbati for religious purpose	Own use	Locals and Bakerwals
Herb	Patrees	Aconitum heterophyllum	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Tubers are used medicinally as tonic	Tubers	Used in various Ayurvedic formulations	Own use	Locals
Herb	Balladona	Atropa accuminata	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Roots and leaves are anti-asthmatic	Leaves and roots	Used in various Ayurvedic formulations	Own use	Locals and Bakerwals
Shrub	Khumlai	Berberis lycium	Wild (NTFP)	Lowlands / forests	Naturally grown	Plenty	Plenty	Rasaunt as cooling agent	Roots	Used in various Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Krees	Dioscorea deltoidea	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Used in gastric complaints	Roots	Used in various Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Kaur	Picorhiza kurrooa	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Tonic and rheumatism	Roots	Ayurvedic formulations	Own use	Locals and Bakerwals

Herb	Bankakri	Podophyllum hexandrum	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Cancer treatment	Roots	Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Panchalan	Rheum moorcroftianum	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Wound healing	Roots	Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Kuth	Saussurea costus	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Ayurvedic formulations	Roots	Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Nagchattri	Trillium govanianum	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Roots yield diosgenin on hydrolysis	Roots	Used in various Ayurvedic formulations	Own use	Locals and Bakerwals
Herb	Zakhme hayat	Bergenia ciliate	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Massage to cure body	Roots	Kidney stone and wound healing	Own use	Locals and Bakerwals
Plant	Postul	Taxus baccata	Wild (NTFP)	Alpine forest	Naturally grown	Plenty	Rare	Cancer treatment	Bark and leaves	Used in tea by locals	Own use	Locals and Bakerwals
Herb	Seski	Artemisia martina	Wild (NTFP)	Lowland / forests	Naturally grown	Plenty	Plenty	Used in stomach pain	Leaves	Ayurvedic formulations	Own use	Locals and Bakerwals
	Gucchi	Morchella esculenta				Plenty		Used in Stomach pain and in medicine & Vegetable, Financial purpose		Ayurvedic formulations	Own use	Locals and Bakerwals

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	Planitus orientalis	Local	Forest / private nurseries	Non-commercial	Ornamental	Provides cool shade and home for many birds	Dried leaves are used as Kangri fuel	Locals
Evergreen tree	Sarv Kull	Cupressus cashmeriana	Local	Private nurseries	Non-commercial	Ornamental	Provides scenery and beauty of area	Unknown	Locals
Broad leaved	Ier kull	Salix alba	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	Populous	Local	From cutting of populous tree	Commercial	Ornamental	Provides beauty of land	Used in fruit packing and plywood industries	Locals
Shrub	Gainda	Targetes erecta	Local	Preserved seed	Non-commercial	Ornamental	Provides beauty of home garden	Also used for religious purpose	Locals
Shrub	Gulab	Rosa indica	Local	From cuttings	Non-commercial	Ornamental	Provides beauty of home garden	Also used for religious purpose	Locals
Shrub	Dhaliya	Dahlia pinnata	Local	Rhizomes of flower plant	Non-commercial	Ornamental	Provides beauty of home garden	Also used for religious purpose	Locals

				For	mat 14: 1	Гimber Plan	ats / Trees			
1	2	3	4	:	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local	status	Wild/ home-	Other uses (multi)	Associated TK	Other details	Community/
танстурс	Local Name	Scientific (Vaine	Habitat	Past	Present	garden	Other uses (muiti)	Associated TK	Other details	Know. holder
Conifer	Dair	Cedrus deodara	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	Pinus wallichiana	Forests	Plenty	Plenty	Wild	Timber and furniture	Provides durable timber & fuelwood	Evergreen tree native to the Himalaya, Karakoram and Hindukush mountain	Locals
Conifer	Fir	Abies pindrow	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	Juglans regia	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

				For	mat 15: Do	mestica	ted Ani	mals				
1	2	3	4	5	6		7	8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/	Features	Method of	Local	status	Uses	Associated	Commercial	Other details including products	Community Know.
	Down I (mino		hybrid)	1 04041 05	keeping	Past	Present	0.00	TK	rearing	and services	Holders
Sheep	Bhead	Orisaries	Local	Small size rough coat	Flock rearing	Plenty	Rare	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Sheep	Bhead	Orisaries	Rambouillet cross bread	Large size low body weight	Flock rearing	Rare	Plenty	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Goat	Bakri	Capra hircas	Local	Small size low body weight	Flock rearing	Plenty	Rare	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Goat	Bakri	Capra hircas	Kaghani, bakasooli	Large size high body weight	Flock rearing	Rare	Plenty	Mutton and wool	Yes	Yes	Mutton, wool, manure, bones and hides	Local/Nomads
Cow	Gaay	Bos taures	Local	Cow have hooves on there feet and can weight upto 400 pounds	Flock rearing	Rare	Plenty	Milk, Cow dung	Milk good for health	Yes	High milk production	Local/Nomads
Buffalo	Bhains	Babulas	Local	Dark slab colour less	Domesticate	Plenty	Rare	Milk, Dung	Milk good for health	Yes	High milk production	Local/Nomads
Ox	Bael	Bos spp.	Local	For plugging	Domesticate	Plenty	Rare	For plugging	Use for plugging	Yes	Use for plugging	Local/Nomads
Dog	Kutta	Cains familiaris	Local	Pet	Pet	Rare	Plenty	Guard, hunting dog	Nil	Nil	Nil	Local/Nomads
Cat	Billi	Felis cats	Local	Pet	Pet	Rare	Plenty	Pest control	Nil	Nil	Nil	Local/Nomads

	Format 16: Culture Fisheries											
1	2	3	4	5	6	,	7	8	9	10	11	12
Fish Type	Local Name	Scientific Name	Scientific Name Variety Features Waterscape (pond / bheri / talao) Past Present Uses	- Uses	Associated TK	Commercial rearing	Other details	Community Know. Holders				
rish Type	Local Name	Scientific Name										
Cold water	Rainbow trout	Salmo gairdneri	Introduced	Body comparatively stout and deep, two dorsal fins present, 1st having soft rays and 2nd one adipose, a red rainbow like band present on sides, lateral line present and innumerable black spots found on lateral line	Present in ponds	Nil	Plenty	Commercially important fish food	-	Yes	Mode of catching drag net /hand net	Fish farmer

	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 to where the animals are transported				
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil				

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	
Tiant Type	Local I valle	Scientific (value	Habit	Habitat	Past	Present	Commercial / own use	1 art conceted	Associated TX	Other details	Holder	
Tree	Deodar	Cedrus deodara	Land	Forest	Plenty	Plenty	Its wood is used for the treatment of piles, kidney stones, insomnia, diabetes, urinary disorder etc	Wood	Cedrus oil is often used for its aromatic property	It's has a conic crown with level branches and dropping branch let	Locals	
Tree	Kail	Pinus wallichiana	Land	Forest	Plenty	Plenty	Commercial and own use	Wood	Provide durable timber	Conifer plant	Locals	
Tree	Fir	Abies pindrow	Land	Temperate forest	Plenty	Plenty	Commercial and own use	Wood	It helps in mitigating the level of anxiety	It help in treating fever, cough and cold	Locals	
Tree	Oak	Quercus ilex	Land	Forest/ Private land	Plenty	Plenty	Own uses	Leaves & Wood	Fodder & Fuel wood	Evergreen B.L tree	Locals	
Tree	Bren	Almus villosa	Land	Forest	Plenty	Plenty	Own use	Wood	Fodder and fuel wood	For religious purpose	Locals	
Tree	Champ	Alnus nitida	Land	Forest	Plenty	Plenty	Own use	Wood	Fuel wood	Found on riverside	Locals	
Tree	Postul	Taxus baccata	Land	Forest	Plenty	Plenty	Own use	Bark	Use for treating common cold, cough and pain	Used in medicine that cures cancer.	Locals	

Tree	Zum	Prunus cornuta	Land	Forest	Plenty	Plenty	Own use	Wood	Fuel wood	-	Locals
Tree	Willow	Salix alba	Land	Forest/ Pvt	Plenty	Plenty	Commercial /Own use	Leaves & Wood	Cricket Bat	Fodder	Locals
Herb	Dhoop	Juninea macrocephala	Land	Pasture	Plenty	Plenty	Own use	Root	Dhoop / Agarbati sticks	NTFP	Locals
Herb	Kour	Picrorhiza kurroa	Land	Mountain region	Plenty	Plenty	Own use	Root	Medicinal use	NTFP	Locals
Herb	Bankakri	Podophyllum hexandrum	Land	Mountain region	Plenty	Plenty	Own use	Root	Used for cancer treatment	NTFP	Locals
Herb	Kuth	Saussurea lappa	Land	Mountain region	Plenty	Plenty	Own use	Root	Medicinal use	NTFP	Locals
Herb	Nagchattri	Trillium govanianum	Land	Mountain region	Plenty	Plenty	Own use	Root	Medicinal use	NTFP	Locals
Herb	Krees	Dioscorea deltodea	Land	Mountain region	Plenty	Plenty	Own use	Root	Medicinal use	NTFP	Locals
Shurb	Kaimbli	Berberis lycium	Land	Forest/ private	Plenty	Plenty	Own use	Root	Medicinal use	NTFP	Locals
Grasses	Drhub grass	Cynodon dactylon	Land	Moist and warm climate	Plenty	Plenty	Own use	Branch	Medicinal use	Religious purpose	Locals
Climber	Ivy	Hedera helix	Land	woodland, grassland, town and garden	Plenty	Plenty	Own use	Branch	Medicinal use	Parasite	Locals

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Format 19: Wild Plant Species of Importance	
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1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance (as economic, social, cultural etc.)	Status
1	Dhoop	Juninea macrocephala	NTFP	Economic and social	Plenty
2	Kour	Picrorhiza kurrooa	NTFP	Economic and social	Rare
3	Bankakri	Podophyllum hexandrum	NTFP	Economic and social	Rare
4	Kuth	Saussurea Lappa	NTFP	Economic and social	Rare
5	Nagchattri	Trillium govanianum	NTFP	Economic and social	Rare
6	Krees	Dioscorea deltodea	NTFP	Economic and social	Rare
7	Belladonna	Atropa accuminata	NTFP	Economic and social	Rare
8	Panchalan	Rheum oreroftianum	NTFP	Economic and social	Rare
9	Choria	Angelica glauca	NTFP	Economic and social	Rare
10	Hund	Taraxacum officinalis	NTFP	Economic and social	Plenty
11	Hamesh bahar	Calendula officinalis	NTFP	Economic and social	Plenty
12	Kajuban	Arrubia benthami	NTFP	Economic and social	Plenty
13	Kulmash	Viburnum cotinifolium	Bush/ Shrub	Social	Plenty
14	Neel kanth	Ajuga bracteosa	Herb	Social	Plenty
15	Suchal	Melva neglecta	Herb	Social	Plenty

16 Bhang	Cannabis sativa	Herb	Economic and social	Plenty
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Format 20: Aquatic Biodiversity

1	2	3	4	4 5 6		7	8	9	10		
Local Name	Scientific Name	Variator	Features	Habitat	Local	Status	Uses	Associated TK	Other details	Community /	
Local Name	Scientific Name	Variety	reatures	навиас	Past	Present	Uses	Associated 1 K	Other details	Knowledge Holder	
Frog (Mundak)	Rana tigrana	-	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	
Snow Trout	Schizothoraz spp.	Indigenous	Cylindrical with both profile, arched, rounded abdomen, head large and pointed snoul anteriority, lower lip with a free posterior edge forming a natural sucker, herbels present, one each on maxillary and roaster	Cold Pockets, snow fed areas	Plenty	Plenty	Food	Excellent source of protein and vitamins	Mode of catching hand net availability round the year & breeding season December to February	Locals	
Watercress (Nag Biber)	Nasturtium officinale	Aquatic flowering plant	Rapid growing perennial plant	Pond / watery place	Plenty	Plenty	As vegetable	Oldest known leaf vegetables consumed by human	Its high content of Vitamin C makes it remedy such that particular valuable for chronic illnesses	Locals	
Maiden hair (Ghvtheer)	Adiantum caudatum	Aquatic Grass	It is a perennial fern producing fronds	Found in shaded areas	Plenty	Plenty	As vegetable	Rich in vitamin-B	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)	Nasturtium officinale	Aquatic flowering plant	Its high content of Vitamin C makes it remedy such that particular valuable for chronic illnesses	Local used as vegetable							
2	Maiden hair (Ghvtheer)	Adiantum caudatum	Aquatic Grass	It is used n the 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,	Local Name	Scientific Name	Variety	Landscape /	Local	Status	Associated TK	Uses (usage)	Part used	Other details market/ own	Community/ Knowledge	
Shrub, Tree)	Local I valle	Seleneme Name	variety	Habitat	Past	Present	Associated TIX	Oses (usage)	1 art useu	use	Holder	
Tree	Deodar	Cedrus deodara	Conifer	Temperate forest	Plenty	Plenty	Timber for religious purpose	Timber	Wood	Own use	Locals	
Tree	Postul	Taxus baccata	Conifer	Temperate forest	Plenty	Plenty	Medicine used for cancer treatment	Cancer treatment	Bark	Own use	Locals	
Herb	Dhoop	Juninea macrocephala	NTFP	Alpine forest	Plenty	Rare	Religious purpose	Used in Dhoop making	Root	Own use	Locals	
Herb	Kour	Picrorhiza kurrooa	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Tonic and rheumatism	Root	Own use	Locals	
Herb	Bankakri	Podophyllum hexandrum	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Cancer treatment	Roots	Own use	Locals	
Herb	Kuth	Saussurea Lappa	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Ayurvedic medicines	Root	Own use	Locals	

Herb	Nagchettri	Trillium govanianum	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Root yield diosgenin hydrolysis	Root	Own use	Locals
Herb	Krees	Dioscorea deltodea	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Gastric complaints	Root	Own use	Locals
Herb	Belladonna	Atropa accuminata	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Anti asthmatic	Roots and leaves	Own use	Locals
Herb	Pamchalan	Rheum oreroftianum	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Wound healing	Root	Own use	Locals
Shrub	Khumli	Berberus lycium	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	Berginia ciliate	NTFP	Alpine forest	Plenty	Rare	Medicinal use	Bone healing, diarrhea and vomiting	Root	Own use	Locals

Format 23: Wild relatives of Crops

1	2	3	4	:	5		5		5		7	8	9	10
Local Name	Scientific Name	Associated crop	Landscape /	Local	Status	Uses (usage)	Part Used	Associated TK	Other details	Community /				
Local Name	Scientific Name	Associated Crop	Habitat	Past	Present	Oses (usage)	Tart Oseu	Associated TK	Other details	Know holder				
Datura	Datura stramonium	Apple, pear, all domestic crops	Low land valley/wild	Plenty	Plenty	Asthama	Leaves	Fruit, leaves & flowers are offered to Lord Shiva	Weed / Medicinal use	Local				
Vanpraan	Allium atropurpureum	All agricultural crop	Mountainous region	Plenty	Rare	Food	Leaves and flowers	Medicinal value	Exotic plant used as vegetable	Local				
Hund	Taraxacum officinale	Agricultural crop	Mountainous region/ Low land valley	Plenty	Plenty	Food	Leaves	Medicinal value	Used as vegetable	Local				
Sochal	Malva neglecta	Agricultural crop	Mountainous region/ Low land valley	Plenty	Rare	Food	Leaves	Medicinal value	Used as vegetable	Local				
Seski	Artemisia vestita	Agricultural crop	Low land valley/wild	Plenty	Plenty	Stomach diseases	Leaves	Used in stomach pain	NTFP / medicinal use	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	Plantanus orientalis	Broad leave	Govt./ private premises	Non-commercial	Provide cool shade and home for many birds	Leaves are used as kangri fuel	Locals				
Sarva kull	Cupressus cashmeriana	Kashmiri cypress	Govt./ private premises	Non-commercial	Ornamental plant	Provides scenery/beauty of the area	Locals				
Ier kull	Salix alba	Weeping willow	Govt./ private premises	Commercial	Provides scenery/beauty of the area	Used in making cricket bats	Locals				
Safeda	Populus	Populus	Govt./ private premises	Commercial	Provides scenery/beauty of the area	Used in fruit packing industries	Locals				
Gainda	Tagetes erecta	Local/wild	Home Garden	Non-commercial	Ornamental	Religious	Locals				
Gulab	Rose indica	Local /wild	Home Garden	Non-commercial	Ornamental	Religious	Locals				
Daliya	Dahlia pinnata	Local home plant	Home Garden	Non-commercial	Ornamental	Religious	Locals				

Format 25: Fumigate / Chewing Plants												
1	2	3	4	5	6		7	8	9	10	11	
Plant (Herb,	Local Name	Scientific Name	Variety	Habitat	Local	Status	Uses (usage)	Part used	Associated TK	Other details (mode	Community	
Shrub, Tree)	Local Name	Scientific Name	variety	Habitat	Past	Present	Uses (usage)	1 art useu	Associated TK	of use)	knowledge holder	
Herb	Pudina	Mentha spp.	Perennial herb	Homestead agricultural land	Plenty	Plenty	Spice and mint	Leaves	Locals use it in making Chatni / spices	Cooling agent and used in Ayush medicines	Locals	
Herb	Methi	Trigonella foenum- graecum	Annual plant	-do-	Plenty	Plenty	Spice	Leaves	Used as spice	Leaves are used in food / spice	Locals	
Herb	Sauf	Foeniculum vulgare	Harely perennial herb	-do-	Plenty	Plenty	Spice and chewing	Seed	Useful in digestion	Used as spice and medicine	Locals	
Herb	Thom	Allium sativum	Perennial plant	-do-	Plenty	Plenty	Spice	Bulb	Provides more tasty food	Bulb is used as raw or cooked	Locals	
Herb	Adrak	Zingiber officinale	Perennial plant	-do-	Plenty	Plenty	Spice	Rhizome roots	Widely used as spice	Used in spices and in medicines	locals	

	Format 26: Timber Plants											
1	2	3	4	1	5	6	7	8				
Local Name	Scientific Name	Habitat	Local	Status	Other Uses, if any	Associated TK	Other Details	Community/				
Local Name	Scientific Ivanic	Habitat	Past	Present	Other Oses, if any	Associated TK	Other Details	Knowledge Holder				
Deodar	Cedrus deodara	Temperate forest	Plenty	Plenty	Religious purpose	Provide durable timber	Soft wood timber	Local				
Kail	Pinus walichiana	Forest	Plenty	Plenty	Furniture and fruit packing	Provide durable timber	Soft wood timber	Local				
Fir	Abies pindrow	Forest	Plenty	Plenty	Fruit packing industries	Providing good timber	Soft wood timber	Local				
Supruce	Picea smithiana	Forest	Plenty	Rare	fruit packing industries	Provide good timber	Soft wood timber	Local				
Akhroot	Juglans regia	Private/ Forest	Plenty	Plenty	Fruit and furniture	Provide good timber / fruit	Hard wood	Local				
Popular	Populous ciliata	Private/ Forest	Plenty	Plenty	Packing industries	Provide good timber	Hard wood	Local				

	Format 27 A: Coastal and Marine Flora											
1 2 3 4 5 6 7 8 9 10										10		
Dland Tana	Lacal Name	Cain diffe Nome	Habitat	Local	Status	Parts Collected (if	Commercial		Associated TK	Community/ Knowledge		
Plant Type	Local Name	Scientific Name	Habitat	Past	Present	any)	Uses (if any)	Other Uses	Associated 1 K	Holder		
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

	Format 27 B: Coastal and Marine Fauna												
1	2	3	4	5 6 7 8 9									
			** ***	Local	Status	Parts Collected (if	Commercial Uses (if			Community/			
Animal Type	Local Name	Scientific Name	Habitat	Past	Parts Collected any) Present		any)	Other Uses	Associated TK	Knowledge Holder			
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

	Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibian, Insects, others)											
1	2	3	4	5	6		7	8	9	10	11	12
					Season when	Local	Status			Mode of Hunting,	Other	Community/
Animal Type	Local Name	Scientific Name	Habitat	Description	seen	Past	Present	Uses (if any)	Associated TK	collecting (if any)	details	Knowledge Holder
Mammals	Langur	Semnopithecus entellus	Forest	Natural habitat	Summer	Plenty	Rare	-	Maintaining ecological balance	Nil	-	Local
Mammals	Himaliyan Black bear	Ursus thibetanus	Forest	Natural habitat	Summer	Plenty	Rare	-	-do-	Nil	-	Local
Mammals	Jackal	Canis aureus	Forest	Natural habitat	Summer	Plenty	Plenty	-	-do-	Nil	-	Local
Mammals	Jungli cat	Felis chaus	Forest	Natural habitat	Summer	Plenty	Rare	-	-do-	Nil	-	Local
Mammals	Leopard	Panthera padus	Forest	Natural habitat	Summer	Plenty	Plenty	-	-do-	Nil	-	Local
Mammals	Snow leopard	Uncia uncial	Forest	Natural habitat	Winter	Plenty	Rare	-	-do-	Nil	-	Local
Mammals	Himaliyan mouse hare	Ochotona roylei	Forest	Natural habitat	Winter	Plenty	Plenty	-	-do-	Nil	-	Local
Birds	Alpine accentor	Prunella collaris	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local
Birds	House crow	Corvus splendens	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local
Birds	House sparrow	Passer domesticus	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local
Birds	Griffen Vulture	Gyps fulvus	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local

Birds	Black tit	Parus rufonuchalis	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local
Birds	Blue rock pigeon	Columba livia	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	ı	Local
Birds	Common maina	Acridotheres tristis	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	1	Local
Birds	Commom cuckoo	Cuculus canorus	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local
Birds	Chukar	Akectirus chukar	Forest	Natural habitat	Throughout year	Plenty	Plenty	-	-do-	Nil	-	Local

	Format 29: Flora												
	URBAN BIODIVERSITY												
1	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