People Biodiversity Register (PBR): General Details
Name of the Panchayat Samiti: Gagla
Taluk: Kastigarh
District: Doda
State: J&K UT
Geographical Area of the Panchayat Samiti: 4 SqKms.
Population under the Panchayat Samiti: 1950
Male: 1014 Female: 936
Habitat and Topography: Hilly
Climate (Rainfall, Temperature and weather patterns): Seasonal, Moderate and Temperate:
Land Use (Nine fold classification available with village records): 386 Hac.
Date, Month and Year of PBR Preparation: 24.08.2020
Management Regime: Reserve Forest (RF/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Management(COM):-

	A
Details of Biodiversity Management Committee (BMC) of the Panchayat (One elected Chairperson and six persons nomin body; not less than one third to be women and not less than 18% belonging to SC/ST)	ıate
1) Name of the Chairperson: Kuldeep Singh	
<b>Age:</b> 53	
Gender: Male	
Address: Gagla Doda	
Area of specialization: Farming	
2) Name: Amer Nath	
<b>Age:</b> 62	
Gender: Male	
Address: Gagla Doda	
Area of specialization: Farming	
3) Name: Salinder Singh	
<b>Age:</b> 45	
Gender: Male	
Address: Gagla Doda	
Area of specialization: Dairy Farming	
4) Name: Santokh Singh	
<b>Age:</b> 45	
Gender: Male	
Address: Gagla Doda	
Area of specialization: Agriculture	
5) Name: Khushal Singh	
<b>Age:</b> 40	
Gender: Female	
Address: Gagla Doda	
Area of specialization: Agriculture	
6) Name: Krishani Devi	
<b>Age:</b> 64	
Gender: Male	
Address: Gagla Doda	
Area of specialization: Farming	
7) Name: Mennu Devi	
<b>Age:</b> 35	
Gender: Female	
Address: Gagla Doda	
Area of specialization: Ayurveda / Hakeem	

	1
List of Vaids, hakims and traditional health care (Human and livestock) practitioners residing and within the jurisdiction of the village	or using biological resou
1)Name:	
Age:	
Gender:	
Address:	
Area of specialization:	
Location from which the person accesses biological material:	
Perception of the practitioner on the resource status:	
Medicinal Use:	
2) Name:	
Age:	
Gender:	
Address:	
Area of specialization:	
Location from which the person accesses biological material:	
Perception of the practitioner on the resource status:	
Medicinal Use:	
3)Name:	
Age:	
Gender:	
Address:	
Area of specialization:	
Location from which the person accesses biological material:	
Perception of the practitioner on the resource status:	
Medicinal Use:	

Annexu
List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fishericand foresty
1) Name of the Chairperson:
Age:
Gender:
Address:
Area of specialization:
2) Name of the Chairperson:
Age:
Gender:
Address:
Area of specialization:
3)Name of the Chairperson:
Age:
Gender:
Address:
Area of specialization:
4)Name of the Chairperson:
Age:
Gender:
Address:
Area of specialization:

Details of so	chools, colleges, departments, universities, government institutions, non-governmental organization and individuals in of the PBR
1) Contac	t Person: Front Line Worker (Forest)
Name a	nd Address:
2) Contac	t Person:
Name a	nd Address:
3) Contac	t Person:
Name a	nd Address:
4) Contac	t Person:
Name a	nd Address:
	You may add names of more institutions/NGO/Individuals etc, if necessary

					Annexure 5								
]	Detail of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefit derived and the mode of their sharing												
S.No	Name and address of the Person/Institute/company others	Local and Scientific Name of the biological material Accessed and quantity	Date and resolution of the BMC and endorsement by the Panchayat	Detail of collection fee imposed	Anticipated mode of sharing benefits or quantum of benefits shared								

## 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 Approx /Habitat Area Sown			ocal Status	Special features	Cropping	Uses	Associated TK	Other Details	Source of Seeds /	Community
				/наопат	Area Sown	Past	Present	-	Season				Plants	/Knowledge Holder
Rajmash	Phaseolus vulgaris	Rajmaa	Vaspa, Local Varieties,	Temperate	4500 Ha	Local varieties	Improved Varieties	Sown majorily as an intercrop/ Mixed crop with maize	Kharif	Green beans used as vegetables, pods used as vegetables and grains used as pulse	Local varieties of Rajmash. Every village has its own local strain. Bhaderwahi rajmash has distinct aroma on cooking	-	Seed saved from the previous year's crop	Farmers of Entire Bhaderwah region. Calls for protection as Geographical Indication
Radish	Raphanussativus	Mooli	Local turnip shaped radish	Temperate conditions	280 На	Local Turnip Shaped Kansargerm plasm	-	-	2-3 crops Round the year	Eaten raw, used as vegetable and pickle making	Traditional variety and cultivation practices	Round shaped, white colured	Seed being traditionally cultivated and produced locally	Farmers of Kansar Village of Bhaderwah (Doda) J&K
Knolkhol	Brassica oleracia var. Gongylodes	Kaddam	Local, Purple Vienna	Temperate and intermediate	450 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	3-4 crops throughout the year	As vegetable and in pickle making	Traditional seed production technique of local varieties	Large sized knot of local varieties which does not produce foreseen after maturity	For local varieties, seed produced through indigenously adopted methods, moreover, for other varieties source is generally private dealers and department	Tk holders for seed production are farmers across the district especially from Bhaderwah, Chinta and Kelad areas.

Okra	Abelmoschus Esculentus	Bhindi	Pusa Swani, Barsha Uphar, Arka Anamika	Temperate and intermediate	140 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	•	,	-	Department & Local	Local farmining communities
Cucumber	Cucumiss-Sativus	Khera local	Japanese Long Green, Khera Local, Malini, Puma	Temperate and intermediate	80 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities
Cauliflower	Boleracea, botrytis,	Fulgobhi	Barkha, Megha,	Temperate and intermediate	150 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities
Cabbage	Boleracea, Var. Capitata	Bundgobhi	Navkaranti, Sumit,	Temperate and intermediate	120 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities
Onion	Allium Cepa	Payaz	Pusa Red, N-53	Temperate and intermediate	236 На	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	•	,	-	Department & Local	Local farmining communities
Tomato	Lycopersican Esculentum	Tamatar	Pusa Rubi, Rupali, Menakshi, Alpine, Manisha +	Temperate and intermediate	180 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities
Chilli	Capsicum Annum L.	Mirch	Pusa Kranti, Jalwa, Anmol	Temperate and intermediate	90 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities

Potato	Solanum Tuberosum L	Aloo	Local Variety	Temperate and intermediate	125 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities
Capsicum	Capsicumannum	Shimla Mirch	Local Variety	Temperate and intermediate	50 Ha	Local varieties	Improved varieties and scientific cultivation and management practices	Grown by almost every household in kitchen gardens as well	Kharief	-	-	-	Department & Local	Local farmining communities

rvilliat-2 . riult rialits	Format-2	:	Fruit	<b>Plants</b>
----------------------------	----------	---	-------	---------------

1	2	3	4	5		6	7	8	9	10	11	12
_		_		Landscape	Local	Status	Source of Seeds /	Season of	Associated		Other Details	Community
Plant	Scientific Name	Local Name	Variety	/Habitat	Past	Present	Plants	fruiting	TK	Uses	markt / own use	/Knowledge Holder
Citrus fruits	Citrus Spp.		Local selection, Kagzi Lime, Italian Lime, Hill Lemon etc.	Tree, regular bearing	Plenty	Plenty	Nurseries	through out year	Fruit,Pickling, Squashes etc.		Maketing , own use	
Apple	Malus x domestica Borkh.	Sabe	Red Delcious, Golden Delocious, Maharaji, American etc.	Tree, regular bearing	Rare	Plenty	Nurseries	Aug- Oct.	fruit, value addition		Maketing , own use	
Pear	Pyrus spp.	Nakh	Patharnakh, China pear	Tree, regular bearing	Plenty	Plenty	Nurseries	Aug-Sept	fruit		own use	
Peach	Prunus persica(L.) Batsch.	Aaroo	July Elberta, Quetta	Tree, regular bearing	Rare	Rare	Nurseries	June-july	fruit		Maketing, own use	

Apricot	Prunus armeniaca	Khubani, Sadi	local apricot, Bebco	Tree, regular bearing	Plenty	Plenty	Nurseries	June-july	fruit	own use	
Walnut	Juglans regia	Akrote	Paper shelled, Thin shelled, hard shelled medium shelled	Tree, regular bearing	Plenty	Plenty	Nurseries, locally raised	sept-oct	dry fruit	Maketing , own use	
Olive	Olea europea	Khao, jaiton	Local, Carotina	Tree, regular bearing	Rare	Rare	Govt. Nurseries	August-October	fruit	Marketing	
Quince	Cydonia oblonga	Bhai	Local	Tree, regular bearing	Rare	Rare	locally raised	July-September	fruit, seed	own use, Marketing	

Format 3:-F	ormat 3:-Fodder Crops / Species										
1	2	3	4	5	6		7	8	9	10	11
_				Landscape/	Approx. Area	Loca	l Status	Special			
Сгор	Scientific Name	Local name	Variety	Habitat	Sown	Past	Present	Features	Cropping Season	Uses	Associated TK
Oats	Avena sativa	Ghaas	Kent, Sabzar Sabzar-1	Temperate and intermediate	2350 На	Local varieties	Improved Varieties	Survive under snow bound conditions	Rabi	Grains for seed purpose and also used as dry fodder	Stored in locally mode indigenous structure called tye-
Berseem (Egyptian clover)	Trifolium alexandrinum	Gjaas	Miscavi	Irrigated areas	Minor 150 Ha	-	Improved varieties	-	Rabi	Green fodder for cattle. Besides, fodder is also dried	-

Format-4	:	Weeds	
----------	---	-------	--

1	2	3	4	5	6	7		8	9	10	11	12
Dl	Scientific Name	Local Name	Variety	Landscape	Approx. Area	Lo	ocal Status	Special Features	Cropping Season	Uses	Associated TK	Other Details
Plant	Scientific Name	Local Name	variety	/Habitat	Sown	Past	Present	Special Peatures	Cropping Season	Uses	Associated TK	Other Details
Maize	Ipomea spp.	Zeharbael	7-8 species of ipomea weed affect the maize crop at different stages from sowing to maturity	Temperate and intermediate areas of the District	25000 На	No weed management	Weed management on scientific lines being followed by the farmers	Fast growing weed, grows as vines and affects maize crop badly	Kharif (in maize crop)	-	-	-
Maize	Cyprus rotundus	dheloo	-	Temperate and intermediate areas of the District	22000 На	No weed management	Weed management on scientific lines being followed by the farmers		Kharif (in maize crop)	-	-	-
Maize	Brachiaria mutica	Ghass	Para grass	Temperate and intermediate areas of the District	23000 На	No weed management	Weed management on scientific lines being followed by the farmers		Kharif (in maize crop)			
Mash	Cyprus esceluntus	Ghass	-	Temperate and intermediate areas of the District	36000 Ha	No weed management	Weed management on scientific lines being followed by the farmers		Kharif (in mash and maize crops)			
Paddy	Ipomea aqatica			Temperate and intermediate areas of the District	1200 Ha	No weed management	Weed management on scientific lines being followed by the farmers		Kharif (Majorily paddy)			

Paddy	Celosia argentina	Neeli	Cocks comb	Temperate and intermediate areas of the District	800 Ha	No weed management	Weed management on scientific lines being followed by the farmers	Kharif (Paddy)		
All crops	Saolanum xanthocarpum	Janglipatha	Wild eggplant	Temperate and intermediate areas of the District	1350 На	No weed management	Weed management on scientific lines being followed by the farmers	All seasons		
Paddy	Eichhornia crassepes	Pannijadi	Water hyacinth	Temperate and intermediate areas of the District	1250 На	No weed management	Weed management on scientific lines being followed by the farmers	Kharif (paddy)		
All crops	Viciahirsua	-	Chingarisak	Temperate and intermediate areas of the District	14000 Ha	No weed management	Weed management on scientific lines being followed by the farmers	All seasons		
All crops	Cardiospermum halicacabum	-	Lataphatkari	Temperate and intermediate areas of the District	26000 Ha	No weed management	Weed management on scientific lines being followed by the farmers	All seasons		
All crops	Rumex crispus	Janglipalak		Temperate and intermediate areas of the District	17500 Ha	No weed management	Weed management on scientific lines being followed by the farmers	Spring season		
All crops	Setaria viridis	Shitta	Foxtail	Temperate and intermediate areas of the District	15600 Ha	No weed management	Weed management on scientific lines being followed by the farmers	Kharif		
All fields	Parthenium hysterophorus	Chittaka		Temperate and intermediate areas of the District	200 Ha	No weed management	Weed management on scientific lines being followed by the farmers	Kharif and rabi		

Format	-5: Pests of Cro	ops							
1	2	3	4	5	6	7	8	9	10
Host	Insect /Animals	Scientific Name	Local Name	Habitat	Time / Season of Attack	Management mechanism	Associated TK	Other Details	Community /Knowledge Holder
	Leaf folder	Cnaphalocrocis medinails	Patta modak	Paddy fields	Tillering stage/Rainy season (monsoon)	Dragging rope across the field, light traps, spraying chloropryfos, cypermethrin, or Cartap hydrochloride to kill the larvae	Clipping of upper portion of seedlings is considered very effective management		
						Soil solarisation in May or June.			
Paddy	Stem borer	Scirpophaga incertulas	Tanna shedak	Paddy fields	July to September	1. Apply granules of Cartap Hydrochloride 4G @1.25 kg/kanal or Carbofuran 3G @1kg/kanal granules in 5- 7.5 cm standing water & do not drain or irrigate the field for 72 hrs of application.		ETL 5% Dead heart	
	Stem borer S	Sen população incertutus				Or spray Cartap hydrochloride 50 SP @ 1gm/ lt water or Chloropyriphos 20 EC @ 2.5 ml/ lt water at ETL 5% Dead hearts			
	Rice Hispa	Dicladispa armigera	kida	Paddy fields	July to September	Removal of weeds, Clipping of the leaf tips containing larva mines, In situations of high hispa incidence, skip nitrogen fertilizer top-dressing Spray crop with Chlorophyriphs 20 EC @ 2ml/lit or Quinophos 25 EC @ 1.5 ml per litre of water.		Top- dressing after the pest management measures can enhance recovery	

	Brown Plant Hopper	Nilaparvata lugens		Paddy fields	July to September	Remove weeds(co-host), install straw bundles to conserve predatory spiders, delay application of nitrogen fertilizer, Spray Imidachloropid 200 SL @ 3ml per 10 liter water or Acephate 75 WP @ 50 gm per kanal.		
Paddy	Grass hopper	Hieroglyphus banian	Tidda	Polyphagous	June to October	Scrap the bunds, Apply Methyl parathion 2% dust or malathion 5% @ 1.25 kg per kanal on the bunds. Spray Chloropyriphos 25 EC @ 2.4 ml or Malathion 50 EC @ 3.7 ml per liter of water.		
	Thread worm	Strongyloides stercoralis	Viscal	Low lying areas/paddy fields	July to October	Deep ploughing 2 to 3 times Crop rotation, Soil application with neem cake @ 100-120 kg/ ha Soil Application of Cartap Hydrochloride 4G @1.25kg/kanal or Carbofuran 3G @ 1kg/kanal or Chloroprifos 10G @ 500 gm/ kanal		
						Application of / lt water or Neem oil @ 3ml/ lt water at regular interval.		
Wheat	Aphids	Sitobin avenae/Rhopalosiphum padi	tella	Polyphagous	February to April	Release 1st instar larvae of green lacewing (Chrysoperlacarnea) @ 4000/acre.		
		<b>,</b>				Spray crop with Imidacloprid 200SL @ 0.3 ml / litre of water or dimethoate 30% EC @ 1.5ml/ litre of water followed by neem oil @ 3 ml or NSKE @ 5ml / lt water.		

						Field sanitation and continuously remove and destroy the affected plants and stubbles.		
	Pink stem borer	Sesamia inferns	ludi	Polyphagous/debris	Nov to feb	Deep ploughing, crop rotation. Soil solarisation in May or June. Use Trichogrammaspp., Chrysoperlacarnea and coccinellids cards, Application of Cartap Hydrochloride 4G @1.25kg/kanal or Carbofuran 3G @1kg/kanal in whorls of plants. Spray Cypermethrin 10% EC @1 ml lt water or Cartap hydrochloride 50 SP @1gm/lt water or or Oxydemeton—methyl 25% EC @1000 ml/ha at ETL 5% Dead hearts.		
Maize	Termites	Odontotermis obesus	Sink	Polyphagous/sandy loam soils.	October to April	Thiamethoxam 30% FS @ 1.32 Kg per 40 Kg seeds or Chlorpyrifos 20% EC @ 3 – 4 ml/Kg seed and 0.8-1.2 l/acre as soil application	Avoid un- decomposed FYM	
						Field sanitation and continuously remove and destroy the affected plants and stubbles completely.		
						Deep ploughing, follow crop rotation.		

	Stem Borer	Chilo partellus	ludi	Polyphagous	Kharif	Use Trichogramma spp., Chrysoperla carnea and coccinellids cards. Application of Cartap Hydrochloride 4G @1.25kg/kanal or Carbofuran 3G @1kg/kanal in whorls of infested plants.Spray Cypermethrin 10% EC @1 ml lt water or Cartap hydrochloride 50 SP @1gm/lt water at ETL 5% Dead hearts.		
	Grass hopper	Hieroglyphus banian	Tidda	Polyphagous	March to May	Scrap the bunds, Apply Methyl parathion 2% dust or malathion 5% @ 1.25 kg per kanal on the bunds. Spray Chloropyriphos 25 EC @ 2.4 ml or Malathion 50 EC @ 3.7 ml per liter of water.		
						Eradicate/destroy the weeds Field sanitation Deep summer ploughing,		
						Destroy the eggs manually if possible.	Schedule spray application only when approx 50% of eggs	
Maize	Cereal Leaf Beetle	Oulema melanopus		Kharif	Kharif	Spray Chloropryphos 50% + Cypermethrin 5% EC @ 2.5 ml/lit water or chloropryphos 20EC@ 2.5 ml/lit water or cypermethrin 10 % EC @ 1ml per lit water or Thiamethoxam 12.6 % or acetamiprid 20 SP @ 1gm / lit water or spinosad @ 1gm/ lit water.	are hatched as the chemicals are mostly effective against larval stage then eggs or adult stage.	
						Weeds erdadication, Setting up light traps for adults @ 1/acre.		

	Corn worm	Helicoverpa armigera	sundi	Maize cobs	Kharif	Installing pheromone traps @ 6-10/acre.  Spray NSKE 5% against eggs and first		
						instar larvae.		
	Corn worm	Helicoverpa armigera	sundi	Maize cobs	Kharif	Spray crop with BT (Bacillus thuringiensis) @ 1 kg/ hactare or NPV formulations @ 250 LE in 500 lt water for hactare .		
						Spray crop with spinosad @ 1gm/ litre or or Malathion 50 EC @ 1ml per litre of water or Quinalphos 25 EC @ 2ml/lt water.		
Maize						Setting up light traps for adults @ 1/acre.  Installing pheromone traps @ 6- 10/acre		
	Cut worm	Agrotis.spp	toka	Maize Field	Kharif	Spray NSKE 5% against eggs and first instar larvae.		
						2. Spray crop with BT (Bacillus thuringiensis) @ 1 kg/ hactare or NPV) formulations @ 250 LE in 500 lt water for hactare .		
						3. Apply Chloropyriphos at 2.5ml per litre water or Chlorantraniliprole 18.5 SC 0.3 ml per liter water.		

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

Note: [1] (D) – day; (M) – month; [2] Types of animals may include: Poultry / Sheep / Goats / Cattle / Ducks / Pigs / Donkeys / Mules / Horses / Camels / Others (Specify)

Format 7: Pe	oplescape									
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
Hindu & Muslim	Farming	Sesonal Farming	Hilly	Crops (Rabi & Kharif)	Land Levelling and Terrace Formation	Fetilizers insecticides and pesticides	General, SC & ST	Normal	N/A	337

Format 8: 1	Landsca	pe											
	1		2	3	4	5	6	7	8	9	10	11	12
Majo	r Landscap	pes		Features and									
Agricultural land	Pond	Fallow land	Sub - Landscapes	approx. area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
C	Cultivable			Fertile Land	Local Inhabitants	Wheat Maize	Rodents Insects	Villagers	Crop Rotation	Cultivation	Used for Farming	Nil	Low Income Community
Fo	oesrt Land			Hilly	Forest Deptt	Pine,Deodar	Birds,Insects and Animals	Restrcited	Govt Deptt	Timber, Firewood			Villagers

Format-9:	Waterscape	!										
1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape	Sub-type	Features and Approx. area	Ownership	General flora	Genreal fauna	Major Uses	User group	Management practices	General uses	Assocaited TK	Other details	Community accessed
Canals	Khuls	Irrigation Khul	Govt/Panchayat	Crops Like Fruit Vegetables and Flowers		Irrigation	Locals	desilting,repairs	Irrigation	Nil	Nil	Villagers
Nallah	Nallah	Glacier/Spring	Govt/Panchayat	Crops Like Fruit Vegetables and Flowers		Irrigation,Drnking Water	Locals	Nallah Bunding Check Dams	Irrigtaion	Nil	Nil	Villagers

Format-10:- Soil Type												
1	2	3	4	5	6	7						
Soil Type	Colour and Texture	Features	Soil Management	Plan and Crops suitable	Flora and auna	Other information						
Sandy Loamy to Clay Loam	Brown Yellow Dark Brown	Fertile rich in orgnanic Matter PH Should be Normal	Balanced Fertilizer dodes	Maize Vegetables	Walnut Apple Apicot Plum Cow, Buffalo, heep ,Goat ,Horse							
Clay	Light Brown	Good Water holding capacity		Wheat, Peas								
Loamy Soil	Dark Brown	Good Holding Capacity of water										

Format	11:	Fruit	Trees
--------	-----	-------	-------

1	2	3	4	5	6	:	7	8	9	10	11	12	13
Plant	Scientific Name	Local Name	Variety	Habit	Landscape	Local		Source of Seeds	Season of	Usage	Associated TK	Other Details	Community
Plant	Scientific Name	Local Name	variety	Habit	/Habitat	Past	Present	/ Plants	fruiting	Usage	Associated TK	markt / own use	/Knowledge Holder
Apple	Malus x domestica Borkh.	Sabe	Red Delcious, Golden Delocious, Maharaji, American etc.	Tree, regular bearing	Temperate hills	Rare	Plenty	Nurseries	Aug- Oct.	fruit, value addition		Maketing , own use	
Pear	Pyrus spp.	Nakh	Patharnakh, China pear	Tree, regular bearing	Mid hill	Plenty	Plenty	Nurseries	Aug-Sept	fruit		own use	
Peach	Prunus persica(L.) Batsch.	Aaroo	July Elberta, Quetta	Tree, regular bearing	mid hill	Rare	Rare	Nurseries	June-july	fruit		Maketing , own use	
Apricot	Prunus armeniaca	Khubani, Sadi	local apricot, Bebco	Tree, regular bearing	Mid hills	Plenty	Plenty	Nurseries	June-july	fruit		own use	
Walnut	Juglans regia	Akrote	Paper shelled, Thin shelled, hard shelled medium shelled	Tree, regular bearing	Temperate hills	Plenty	Plenty	Nurseries, locally raised	sept-oct	dry fruit		Maketing , own use	
Plum	Prunus salicinia	Aaloo Bukhara	santa rosa, Allo Bukhara	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries, locally raised	July-august	fruit		Maketing , own use	

Olive	Olea europea	Khao, jaiton	Local, Carotina	Tree, regular bearing	Mid/temperate hills	Rare	Rare	Govt. Nurseries	August- October	fruit	Marketing	
Quince	Cydonia oblonga	bhai	local	Tree, regular bearing	Mid/temperate hills	Rare	Rare	locally raised	July- September	fruit, seed	own use, Marketing	

1	2	3	4	5	6		7	8	9	10	11	12
Dlant Ton	LandMana	Scientific Name	\$7	Landscape/	Source of	Location	on Status	Hana (san sa)	D4 J	Associated TK	Other details	Community know
Plant Type	Local Name	Scientific Name	Variety	Habitat	Plant/seeds	Past	Present	Uses (usage)	Part used	Associated 1K	market/own use	Holders
Herb	Payaz	Allium cepa	Local	Temperate	Cultivated	Available	Available	To cure cold and cough	Roots	To relive cough and cold	Extract	-
Herb	Lahsun	Allium sativum	Local	Temperate	Cultivated	Available	Available	Medicinal use to heal wounds	Whole plant	Used for wounds	As such	-
Herb	Pudina	Mentha spicata	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	To cure infection	Leaf	Cure infection		-
Herb	Tamatar	Solanum lycoperasicum	Local	Temperate	Cultivated	Available	Available	To reduce heart diseases, kidney stones and gall bladder stones	Fruit	Cure heart and stone diseases	Fruit	-
Herb	Dhaniya	Coriandrum sativum	Local	Temperate	Cultivated	Available	Available	Used for loss of appetite, tooth aches	Seeds	Cure pain	Seeds	-
												-
												-

## 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
Ornamental Tree	Tree of heaven	Ailanthus excels	-	On degraded lands	Do	Stop soil erosion	Wood for musical instruments	-	Forest official/ floriculturists
Ornamental Tree	Fig	Ficus carica	-	Fellow land	Do	Ornamental	Used in traditional medicine	Foliage for milch animals	Horticulturist/ Forest officials/ floriculturists.
Ornamental Tree	Ornamental peach	Prunus persica	-	Do	Do	Do	Leaves are diuretic	-	Do
Ornamental Tree	Ornamental cherry	Prunus serrulata	-	Do	Do	Do	Cherry blossoms are pickled in salt	-	Do
Ornamental Tree	Golden thuja	Thuja occidentalis	-	Forest /nurseries	non- commercial	Ornamental/ landscaping	Respiratory infections	Foliage value	Floriculturist /forest officials
Ornamental Tree	Bottle brush	Calistemom lanciolatus	-	Gardens /lawns	Do	Do	Different parts in diarrhea	Flowers in june	Do
Ornamental Tree	Golden privet	Ligustrum vulgare	-	Do	Do	Do	-	-	Do
Ornamental Tree	Weigela	Weigela florida	-	Do	Do	Do	-	-	Do

Ornamental Tree	Oleander	Nerium indica	-	Do	Do	Do	-	-	Do
Ornamental Tree	Rose HT	Rosa spp.	-	Do	Do	Do	Rose petals used as anti-septic etc.	-	Do
Ornamental Tree	Rose creeper	Rosa spp.	-	Do	Do	Do	-	-	Do
Pot Plants	Geranium	Pelargonium zonale	-	Private buildings	Do	-	-	-	Do
Pot Plants	Geranium	Pelargonium sp.	-	Nursery	Non-commercial	-	-	Flowers beautiful	Do
Pot Plants	Sedum	Sedum spectabile	-	Do	Do	-	-	1	Do
Pot Plants	Rose creeper	Rosa sps.	-	Do	Do	-	-	•	Do
Pot Plants	Pot marigold	Callendulla officinalis	-	Do	Do	-	Thrives in poorest soils etc	-	Do
Pot Plants	China aster	Callistephus chinensis	-	Do	Do	-	Mass planting in summers		Do
Pot Plants	Forest daisy	Chrysanthemu morifolium	-	Do	Do	-	Good flowers	-	Do

-

Т

Pot Plants	Oak	Quercus sp	-	Forests	Do	Do	Anti –microbial and anti-inflammatory	Foliage	Common people
Pot Plants	English ivy	Hedera helix	-	Do	Do	-	-	-	Do
Pot Plants	Fox glove	Digitalis purpurea	-	Forests	Do	-	Used to treat congestive heart failure	Summer flowering	Do
Herbs seasonal	Snap dragon	Antirrhinum majus	-	Do	Do	-	Excellent mass affect of spring flowers	-	Do
Pot Plants	Geranium	Pelargonium sp.	1	Nursery	Non-commercial	1	-	Flowers beautiful	Do
Pot Plants	Sedum	Sedum spectabile	1	Do	Do	1	-	-	Do
Pot Plants	Dracaena	Dracaena reflexa	1	Do	Do	1	-	-	Do
Pot Plants	Asiatic lily	Lilium asiatica	1	Do	Do	1	-	Flowers may-june	Do
Creeper	Periwinkle	Catheranthus sp	1	Gardens/lawns	Do	1	-	-	Do
Creeper	Rose creeper	Rosa sps.	-	Do	Do	-	-	-	Do

-

Т

Creeper	English ivy	Hedera helix	-	Do	Do	-	-	-	Do
Creeper	Pot marigold	Callendulla officinalis	-	Do	Do	-	Thrives in poorest soils etc	-	Do
Creeper	China aster	Callistephus chinensis	-	Do	Do	-	Mass planting in summers		Do
Creeper	Gazania	Gazania splendus	-	Lawns	Do	-	-	Whole year flowers	Do
Creeper	Petunia	Petunia sps.	-	Do	Do	-	-	Summer flowering	Do
Creeper	Zinnia	Zinnia elegans	-	Lawns	Do	-	-	Summer flowering	Do
Creeper	Fox glove	Digitalis purpurea	1	Forests	Do	1	Used to treat congestive heart failure	Summer flowering	Do

## 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-	Other uses (multi)	Associated TK	Other details	Community/ Know.
				Past	Present	garden				holder
Tree	Walnut	Juglans regia	Temperate	Least	Plenty	Wild , home	Furniture, tooth cleaner		Unknown	Farming Community
Tree	Apricot	Prunus armeniaca	Temperate	Least	Plenty	Wild, home	Furniture, firewood		Unknown	Farming Community
Tree	Peach	Prunus persica	Temperate	Least	Plenty	Wild, home	Firewood		Unknown	Farming Community
Tree	Khau	Olea cuspidata	Temperate	Plenty	Least	Wild	Firewood		unknown	Farming Community
Tree	Keth	Pyrus pashia	Temperate	Plenty	Least	Wild	Firewood		Unknown	Farming Community

Tree Retir Pyrus pushu Forest, temperate Avanable Wild edible.
--

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				Commercial	Other details including	Community
						Past	Present	Uses	Associated TK	rearing	products and Services	Know.Holders
Cattle	Gai (Cow)	Bos Indicus	Local	Humped/Less prone to Diseases/Low Milk Production/High Adaptability	Semi intensive	Abundant	Decreased	Milk/Dung As Manure	Nil	No	Milk/Butter/ Curd/Ghee	All
	Dand (Bull)	Bos marcus	Local	Humped	Semi intensive	Abundant	Decreased	Draught purpose/Natural Covering	Nil	No	Nil	All
	Duragi (CB)	Bos Taurus	Hybrid	Humpless/High Milk Yield/Less Interclaving Period	Intensive & Semi Intensive	Very Few	Increased	Milk/Dung As Manure	Nil	Yes	Milk/Butter/ Curd/Ghee	All
Buffalo	Manj/Bhains/ Monsh	Bubalus Bubalis	Local/Graded	Good Milk Production	Semi-Intensive	Abundant	Decreased	Milk/Dung As Manure	Nil	No	Milk/Butter/ Curd/Ghee	All
Equine		Equus Caballus	Local	High Adaptability to Mountainous region	Semi-Intensive	Constant	Constant	Transport of Goods/Riding/Load Carriage	Nil	No	Nil	All
	Mule (Khachar)	-	Local	High Adaptability to Mountainous region	Semi-Intensive	Constant	Constant	Transport of Goods/Riding/Load Carriage	Nil	No	Nil	All
	Donkey (Gadha)	Equus Asinus	Local	High Adaptability to Mountainous region	Semi-Intensive	Constant	Constant	Transport of Goods/Riding/Load Carriage	Nil	No	Nil	All

Develope	Kukkar/Kukkri	Caller Daniel	Local	Enriched Meat Flavour	Backyard	Abundant	Decreased	Egg/Meat/Litter Manure	Nil	No	Egg/Meat/ Litter Manure	All
Poultry	Farmi Kukkar	Gallus Domesticus	Chabra	Egg as well as meat	Backyard	Very few	Increased	Egg/Meat/Litter Manure	Nil	No	Egg/Meat/ Litter Manure	All
Dog	Kutta	Canis lupus familiaris	Local	Guarding Skills/Alertness	Extensive	Constant	Constant	Guarding of herds,Fields, houses as pet also	Nil	No	Guarding of herds,Fields, houses as pet also	All
Cat	Billi	Felis Domesticus	Local	Non Specific/Medium Size	Extensive	Very few	Very few	Killing of Rodents	Nil	Nil	Killing of Rodents	All

Format 16: Culture Fisheries												
1	2	3	4	5	6	7		8	9	10	11	12
Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (Pond/Bheri/T alao)	Local status		Uses	Associated	Commercial	Other details	Community Know.
1311 1 3 pc						Past	Present	USCS	TK	Rearing	Other details	Holders

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

Format 17: Mar	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				

## 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	Loca	ıl status	Commercial /	Part collected	Associated TK	Other details	Community
J. J.					Past	Present	own use				Knowledge Holder
Tree	Deodar	Cedrus deodara	Tree	Temperate	Dense	Least	Commercial, own use	Whole for different uses		Roofing, furniture etc	-
Tree	Kail	Pinus wallichiana	Tree	Temperate	Dense	Least dense	Commercial, own use	Whole for different uses		Roofing, furniture etc	-
Herb	Kuth	Saussurea lappa	Herb	Temperate	Available	Available	Commercial, own use	Root		It is said to be useful in cough, asthma and fever. It is also used to keep insects out of cloths	-
Mushroom	Guchhies	Morchella spp.	Mushroom	Temperate	Available	Available	Commercial, own use	Whole plant		Used in medicines preparation	-
Herb	Sujanjado	Colchicum luteum	Herb	Temperate	Available	Available	Commercial, own use	Corm		The corms are traded and used in the treatment of gout. It is used in treatment of arthritis and diseases of liver and spleen.	-

Format 19:	Wild Plant Species o	f Importance			
1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Status
1	Akhroot	Juglans regia	wild	Economically important as farmer fetches good price, socially important for different cuisines, improves good cholesterol	-
2	Bhang	Cannabis sativa	wild	Commercial extraction banned, given to animals to improve their health	-
3	Guchi Mashroom	Morchella esculenta	wild	Dried and sold which fetches Rs.10000-15000 per Kg used in making pulao (cuisine), as aphrodisiac in medicine	-

Format 20:	Aquatic Biodiversit	y								
1	2	3	4	5		6		8	9	10
r la	C	<b>3</b> 7 • .	F	TT 1 '	Local	Status	**	A . I DOWN	04 14 9	Community
Local Name	Scientific Name	Variety	Features	Habitat	Past	Present	Uses	Associated TK	Other details	Community knowledge holder

Format 2	Format 21: Wild Aquatic Plant Species of Importance											
1	2	3	4	5	6							
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Trends							

Format 22: V	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	No.	Part used	Other details	c.knowledge holder	
shrub,tree)	Local Name	Scientific Name	v ar iety	habitat	Past	Present	Associated 1K	uses	Fart useu	market/own use	c.knowledge norder	
climber	Kins	Dioscorea deltoidea	Climber	Temperate	Available	Available		The t yield Diosgenin, which is used to synthesize sex hormones and Corisone, Cortisone is extensively and used in rheumatism and allergic conditions.  Propagation of the species is though rhizome.	Tuber			
Herb	Dhoop	Jurinea Macrocephala	Herb	Temperate	Available	Available		The extract of the root is used as incense	Root			
Mushroom	Guchhies	Morchella spp	Mushroom	Temperate	Available	Available		Used in medicines preparation	Whole plant			
Herb	Suja njado	Colchicum luteum	Herb	Temperate	Available	Available		The corns are traded and used in the treatment of gout. It is used in treatment of arthritis and diseases of liver and spleen.	Corm			

Format 23: V	Vild relatives o	of Crops										
1	2	3	4	Į.	5		5		7	8	9	10
Local	Scientific	Accordated even	Landscape / Habitat		Local Status		Part	Associated	Other details	Community / Know		
Name	Name	Associated Crop	Landscape / Habitat	Past	Present	(usage)	Used	TK	Other details	holder		

Format 24: Ornamental Plant
-----------------------------

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
Weeping willow	Salix babylonica	-	Do	Do	Roadside planting, Gardens etc	Bark painkiller	Do
Deodar	Cedrus deodara	-	Do	Do	Valueable timber, cedar oil	Foliage value	Floriculturists /forest officials
Rose HT	Rosa spp.	-	Do	Do	Rose petals used as antiseptic, rose hips high in vit.c	Flowers may-june	Do
Chinese rose	Rosa chinensis	-	Do	Do	Used in kitchen herb	Flowering from march-november	Do
Dracaena	Dracaena reflexa	-	Do	Do	Used in antipyretic	Best air purifying	Do

Format 25: 1	ormat 25: Fumigate / Chewing Plants											
1	2	3	4	5		6	7	8	9	10	11	
Plant (herb,shrub,Tr	Local Name	Caiantifia Nama	Variation	Habitat	Loca	l status		Down wood	A co TIV	Other details	Community	
ee)	Local Name	Scientific Name	Variety	Habitat	Past	Present	uses	Part used	Ass.TK	Other details	knowledge holder	
Tree	Ahkrot	Juglans regia	Local, Hamdan, Galhar	Temperate	-	-	As dry fruit and too overcome teeth ailments	Lead and bark	Overcomes mouth smell and overcomes teeth problems	-	Farming community of the district	
Herb	Mulethi	Glycyrrhiza glabra	Local	All	-	-	Bark and stem used to overcome throat and lung infections	Stem and bark	Overcomes throat and lung infections	-	Farming community if the district	

Format 26: T	Format 26: Timber Plants										
1	2	3	4	ļ	5	6	7	8			
Local Name	Scientific Name	Habitat	Local S	Status	Other uses, if any	Associated Tk Any other detail Cor	Other uses if any Associated Tk Any other detail Communit	Community knowledge			
Local Name	Scientific Name	Havitat	Past	Present	Other uses, it ally	Associated 1K	Any other detail	holder			
Deodar	Cedrus deodara	Dense	Least	Roofing, furniture etc		Whole for different uses					
Kail	Pinus wallichiana	Dense	Least dense	Roofing, furniture etc		Whole for different uses					
Fir	Abies pindrow	Dense	Least dense	Roofing, furniture etc		Whole for different uses					
Spruce	Picea smithiana	Dense	Least dense	Roofing, furniture etc		Whole for different uses					

1	2	3	4	5	5	6	7	8	9	10
DI .T	T IN	a	TT 1	Local	Status	Parts Collected	Commercial Uses	O.I. II	A 1. 1. 1. TIV.	Community/ Knowledge
Plant Type	Local Name	Scientific Name	Habitat	Past	Present	(if any)	(if any)	Other Uses	Associated TK	Community/ Knowledge Holder

						1			<u> </u>	
1	2	3	4	!	5	6	7	8	9	10
Animal Type	. 137	Scientific Name		Local Status		Parts collected	Commercial Uses		Associated TK	Community/ Knowledge
Animal Type	Local Name	Scientific Name	Habitat	Past	Present	(if any)	(if any)	Other Uses	Associated TX	Community/ Knowledge Holder

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)												
1	2	3	4	5	6	5	7		9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Book total	Season when	Local status		uses if any	Ass. TK	Mode of	Other details	Community/
Annual Type	Local Name	Scientific (Value	Habitat	Description	seen	Past	Present	uses if any	Ass. 1K	hunting	Other details	Knowledge Holder
Mammal Carnivore	Chitra	Panthera pardus	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Reech	Selenarctost hibetanus	Forest		Summer season	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	GhorBla	Felis bengalensis	Forest		All season	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mamal	Jungle bili	Felis Chaus	Forest		summer	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	shal	Herpetesauropunctatus	Forest		summer	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Gidh	Cains aureseus	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Fakal	Vulpes vulpes	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Mammal	Dink	Martes foina	Forest		summer	Available	Less	No		Prohibited	Maintains forest ecosystem	
Rodent	Navel	Lepus nigricollis	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	
Bird	Titar	Frabcikuby sfrancolinus	Forest		Not available	Available	Less	No		Prohibited	Maintains forest ecosystem	

Bird	Chakor	Alectoris graeca	Forest	All tim	e Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Ghugi	Strepto peliadecaocto	Forest	All tim	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Iel	Gyps himayensis	Forest	All tim	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Khukhow	Clamato rJacabinu	Forest	Spring se	son Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	DhikCharak	Picus cholorolophus	Forest	All tim	e Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Kova	Corvus smacrorhynchos	Forest	All tim	e Available	Less	No	Prohibited	Maintains forest ecosystem	
Snake	Surf /sap	Serpentes	Forest /water	All tim	e Available	Less	No	Prohibited	Maintains forest ecosystem	
Fishes	Machli	Himaliyan trout	water	All tim	Available	Available	No	Prohibited	Maintains forest ecosystem	

	Format 29:	Flora		URBAN	N BIODIVERSITY				
1	2	3	4	5	6	7			
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)			

Format 30	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.)				

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

End of Part II