People Biodiversity Register (PBR): General Details
Name of the Panchayat Samiti: Kotli
Taluk: Kastigarh
District: Doda
State: J&K UT
Geographical Area of the Panchayat Samiti: 6 SqKms.
Population under the Panchayat Samiti: 2940
Male: 1495 Female: 1445
Habitat and Topography: Hilly
Climate (Rainfall, Temperature and weather patterns): Seasonal, Moderate and Temperate
Land Use (Nine fold classification available with village records):
Date, Month and Year of PBR Preparation: 23.08.2020
Management Regime: Reserve Forest (RF/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Mana Forest(COM):-

Anı

A
Details of Biodiversity Management Committee (BMC) of the Panchayat (One elected Chairperson and six persons nominate body ; not less than one third to be women and not less than 18% belonging to SC/ST)
1)Name of the Chairperson: Romal Singh
Age: 69
Gender: Male
Address: Mandole Panchayat, Kotli
Area of specialization: Education
2) Name: Anju devi
Age: 35
Gender: Female
Address: Village Dharoot Panchayat Kotli
Area of specialization:Socail Worker
3) Name:- Iqbal Singh
Age: 52
Gender: Male
Address: Kotli
Area of specialization:Agriculture
4)Name: Rashpal Singh
Age: 50
Gender: Male
Address: Kotli
Area of specialization:Socail Worker
5)Name: Pyiar Chand
Age: 35
Gender: Male
Address: Shaleen Panchayat Kotli
Area of specialization:Socail Worker
6)Name: Gulam Rasool
Age: 30
Gender:Male
Address:Shroor Panchayat Kotli
Area of specialization:Agriculture
7)Name: Basant Singh
Age: 57
Gender:Male
Address: Banzal Panchayat Kotli
Area of specialization:Socail Worker

	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:

List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fishe and 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 schools, colleges, departments, universities, government institutions, non-governmental organization and individuals in preparation of the PBR
l) Contact Person:
Name and Address:Prem Lal (Govt. Middle School Kotan)
2) Contact Person:
Name and Address: Sanjeev Kumar (Govt. Middle School Kotan)
3) Contact Person:
Name and Address: Rajeshwar Singh (Govt. Pry School Marg)
I) Contact Person:
Name and Address: Rajeev Kumar (Govt. Middle School Kotan)
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									

Format 1: C	Part II PBR – Formats AGROBIODIVERSITY format 1: Crop Plants														
1	2	3	4	5	6		7	8	9	10	11	12	13	14	
Сгор	Scientific Name	Local Name	Variety	Landscape	Approx		ocal Status	al Status Special features		Uses	Associated TK	Other Details	Source of Seeds /	Community	
				/Habitat	Area Sown	Past	Present	- r	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	strain.	-	Seed saved from the previous year's crop	Farmers of Entire Bhaderwah region. Calls for protection as Geographical Indication	
Radish	Raphanus sativus	Mooli	Local turnip shaped radish	Temperate conditions	280 Ha	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	Kitchen gardens as	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 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
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	Capsicum annum	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

Format-2 :	'ormat-2 : Fruit Plants													
1	2	3	4	5	(6		8	9	10	11	12		
				Landssana	Local	Status	Source of Seeds /	Season of	Associated		Other Details	Community		
Plant	Scientific Name	Local Name	Variety	Variety Landscape Source of Seed /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	
Plum	Prunus salicinia	Aaloo Bukhara	santa rosa, Allo Bukhara	Tree, regular bearing	Rare	Rare	Nurseries, locally raised	July-august	fruit	Maketing , own use	
Persimmon	Dios spyrus	Amlook	Local	Tree, regular bearing	Rare	Rare	locally raised	July-august	fruit	Marketing	
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:-H	Fodder Crops / Species	5										
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	Approx. Area Sown	Past	Present	Features	Cropping Season	Uses	Associated TK	
Oats	Avena sativa	Ghaas	Kent, Sabzar Sabzar-1	Temperate and intermediate	2350 Ha	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
			Variety	Landscape	Approx. Area	L	ocal Status	Special Features	Cropping Season	Uses	Associated TK	Other Details
Plant	Scientific Name	Local Name	variety	/Habitat	Sown	Past	Present	-special reatures	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 Ha	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 Ha	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 Ha	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 Ha	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 Ha	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	
						 2. Or spray Cartap hydrochloride 50 SP @ lgm/ 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.		
						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 It water or Cartap hydrochloride 50 SP @ 1gm/ It 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 are hatched as the	
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.	chemicals are mostly effective against larval stage then eggs or adult stage.	
						Weeds erdadication, Setting up light traps for adults @ 1/acre.		

1				I	I		I	I		l
	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 .				
		Tiencoverpa armagera	Sundi	Malle Coos	Kildili	Spray crop with spinosad @ 1gm/ litre or or Malathion 50 EC @ 1ml per litre of water or Quinalphos 25 EC @ 2ml/lt water.				
						Setting up light traps for adults @ 1/acre.				
Maize						Installing pheromone traps @ 6- 10/acre				
	Cut worm	Agrotis.spp	toka	Maize Field	Kharif	1. 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.				

Format 6: M	arkets for Domesticated	animals						
1	2	3	4	5	6	7	8	9
Name of the market & location	Weekly (D)/ Fortnightly (D) / Monthly (D) / Biannual (M) / Annual (M) [1]	Types of animals bought and sold [2]	Types and Average Number of animals transacted in a day	Places from which animals are brought	Places to which the animals are sold / transported	Name and location of fish market	Types of fishes sold	Source of fish

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	691

Format 8: I	Landsca	pe											
	1		2	3	4	5	6	7	8	9	10	11	12
Major	r Landscap	es		P									
Agricultural land	Pond	Fallow land	Sub - Landscapes	Features and approx. area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
С	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 Typ	e					
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	
Loamy Soil	Dark Brown	Water Holding Capacity			Herbarious plants	
Alluvial Soil	Light Brown	Water Holding Capacity			Earthworm Bacteria etc.	

Format 1	1: 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
	Scientific Manie	Local Manic	Variety	Habit	/Habitat	Past	Present	/ Plants	fruiting	Usage	Associated IIX	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	
Strawberry	Fragara x ananassa Duch.	Strawberry	chandler	Runner, annual	plain mid hills	Rare	Rare	Nurseries.	March-April	fruit		Marketing	

Pecannut	Carya illinoenis	Pecan	western shell	Tree, regular bearing	Mid/temperate hills	Rare	Rare	Nurseries	Sept-Oct	Dry Fruit	Marketing	
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	
Persimmon	Dios spyrus	Amlook	Local	Tree, regular bearing	Mid/temperate hills	Rare	Rare	locally raised	July-august	fruit	Marketing	
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	

Format 12	: Medicinal	Plants (Herbs, Sh	rubs, Trees	etc.)								
1	2	3	4	5	6		7	8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/	Source of	Locati	on Status	- Uses (usage)	Part used	Associated TK	Other details	Community know
		Sciencific Manie	variety	Habitat	Plant/seeds	Past	Present	Uses (usage)	Faituseu	Associated TK	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	-
												-
												-

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	-	-	-	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

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.	-	Nursery	Non-commercial	-	-	Flowers beautiful	Do
Pot Plants	Sedum	Sedum spectabile	-	Do	Do	-	-	-	Do
Pot Plants	Dracaena	Dracaena reflexa	-	Do	Do	-	-	-	Do
Pot Plants	Asiatic lily	Lilium asiatica	-	Do	Do	-	-	Flowers may-june	Do
Creeper	Periwinkle	Catheranthus sp	-	Gardens/lawns	Do	-	-	-	Do
Creeper	Rose creeper	Rosa sps.	-	Do	Do	-	-	-	Do

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	-	Forests	Do	-	Used to treat congestive heart failure	Summer flowering	Do

Format 14: '	Timber Plant	s / Trees								
1	2	3	4	Į	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.
		Scientific Paine	Habitat	Past	Present	garden				holder
Tree	Walnut	Juglans regia	Temperate	Least	Plenty	Wild , home	Furniture, tooth cleaner		Unknown	Farming Community
Tree	Banj	Quercus incana	Temperate	Plenty	Plenty	Wild	Firewood		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	Kharsoo	Quercus semicarpifolia	Temperate	Plenty	Plenty	Wild	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	Keth	Pyrus pasha	Forest, temperate	Available	Available	wild	Firewood /fruits are edible.	-	Firewood	

Format 1	5: Domesticat	ed Animals										
1	2	3	4	5	6		7	8	9	10	11	12
Animal			Breed (local/	_	Method of	Local	Status			Commercial	Other details including	Community
Туре	Local Name	Scientific Name	hybrid)	Features	keeping	Past	Present	Uses	Associated TK	rearing	products and Services	Know.Holders
	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
Cattle	Dand (Bull)		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
		Equus caballus	Local	High Adaptability to Mountainous region	Semi-Intensive	Constant	Constant	Transport of Goods/Riding/Load Carriage	Nil	No	Nil	All
Equine	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

Deviltere	Kukkar/Kukkri	Gallus domesticus	Local	Enriched Meat Flavour	Backyard	Abundant	Decreased	Egg/Meat/Litter Manure	Nil	No	Egg/Meat/ Litter Manure	All
Poultry	Farmi Kukkar	Gallus aomesticus	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	6: Culture Fig	sheries											
1	2	3	4	5	6		7	8	9	10	11	12	
Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (Pond/Bheri/T	Local	status	Uses	Associated	Commercial	Other details	Community Know.	
	Lucai Ivanie	Scientific Maine	Variety	reatures	alao)	Past	Present	0363	ТК	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, Shru	ubs, Herbs, Tub	ers, Grasse	s, Climbers e	tc.						
1	2	3	4	5		6	7	8	9	10	11
	TaalNaaa	Coloradifica Marca	TT-1.*/	TT-1-1-1-1	Loca	al status	Commercial /	De des lles de l			Community
Plant Type	Local Name	Scientific Name	Habit	Habitat	Past	Present	own use	Part collected	Associated TK	Other details	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	-
Plant	Bankakri	Podophyllum hexandrum	Plant	Temperate	Available	Available	Commercial, own use	Fruit		It has been found to be effective in controlling skin diseases and recently attracted attention for use in certain form of cancer	-
Mushroom	Guchhies	Morchella spp.	Mushroom	Temperate	Available	Available	Commercial, own use	Whole plant		Used in medicines preparation	-

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	-
4	Guchi Mashroom	Morchella esculenta	wild	Dried and sold which fetches Rs.10000-15000 per Kg used in making pulao (cuisine), as aphrodisiac in medicine	-
5	Kasrod	Matteuccia struthiopteris	wild	Used as vegetable, collected by locals and sold	-

1	2	3	4	5		6	7	8	9	10
					Local	Status				Community
Local Name	Scientific Name	Variety	Features	Habitat	Past	Present	Uses	Associated TK	Other details	Community knowledge holder
Frog	Sphearopeca brevceps	Indigious fauna	Frog	Pond						
Snake	Russel viper	Indigious fauna	Snake	Land						

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

		of Medicinal I	-							1	
1	2	3	4	5		6	7	8	9	10	11
Plant(herb,	Local Name	Scientific Name	Variety	Landscape/	Local	status	Associated TK	uses	Part used	Other details	o limovilados haldas
shrub,tree)		Scientific Name	variety	habitat	Past	Present	Associated TK	uses	Part used	market/own use	c.knowledge holder
Herb	Patis	Aconitum heterophyllum	Plant	Temperate	Available	Available		It is an excellent tonic for combating ability after malarial and other fevers and diseases	Roots		
Plant	Bankakri	podophyllum hexandrum	plant	Temperate	Available	Available		It has been found to be effective in contolling skin diseases and recently attracted attention for use in certain form of cancer	Fruit		
Herb	Banafsha	Viola spp.	Herb	Temperate	Available	Available		Flowers are used in perfumery and are also used medicinally as demulcent and biliousness and lungs troubles	Flower		
Herb	Kuth	Soussurea lappa	Herb	Temperate	Available	Available		It is said to be useful in cough, asthma and fever. It is also used to keep insects out of cloths	Root		

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	

1	2	3	4	Į	5	6	7	8	9	10
Local	Scientific	Acceptated even	Landssons / Habitat		Status	Uses	Part	Associated	Other details	Community / Kno holder
Name	Name	Associated crop	Landscape / Habitat	Past	Present	(usage)	Used	ТК	Other details	holder

Format 24: Orr	namental 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
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:	Fumigate / Ch	ewing Plants									
1	2	3	4	5		6	7	8	9	10	11
Plant (herb,shrub,Tr	Local Name	Scientific Name	Variety	Habitat	Loca	l status	1000	Part used	Ass.TK	Other details	Community knowledge holder
ee)	Local Name	Scienujic Nume	variety	Παυτιατ	Past	Present	uses	Part useu	A55.1 K	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

Format 26: T	imber Plants							
1	2	3	4		5	6	7	8
Local Name	Scientific Name	Habitat	Local S	Status	Other uses, if any	Associated Tk	Any other detail	Community knowledge
	Scientific Name	Παυιται	Past	Present	Other uses, if any	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		

1	2	3	4		5	6	7	8	9	10
Diant Tune	Local Name	Scientific Name	Habitat	Local	Status	Parts Collected	Commercial Uses	Other Uses	Associated TK	Community/ Knowledge Holder
Plant Type		Scientific Marie	Πάθιται	Past	Present	(if any)	(if any)	Ouler Uses	Associated TK	Holder

Format 27	Format 27 B: Coastal and Marine Fauna									
1	2	3	4	5		6	6 7		9	10
A	T IN	Scientific Name	Habitat	Local Status		Parts collected	Commercial Uses	Other Uses	Associated TK	Community/ Knowledge Holder
Animal Type	Local Name	Scientific Ivalle	Habitat	Past	Present	(if any)	(if any)	Ouler Uses	Associated TK	Holder

Format 28: W	ild Animals (N	Mammals, Birds, Rep	tiles, Amphibi	a, Insects, ot	hers)							
1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when	Local status		uses if any	Ass. TK	Mode of	Other details	Community/
51					seen	Past	Present		,	hunting		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	Herpetes auropunctatus	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	ll time	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Ghugi	Strepto peliadecaocto	Forest	All	l time	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Iel	Gyps himayensis	Forest	All	l time	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Khukhow	Clamato rJacabinu	Forest	Spring	ig season	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	DhikCharak	Picus cholorolophus	Forest	All	ll time	Available	Less	No	Prohibited	Maintains forest ecosystem	
Bird	Kova	Corvus smacrorhynchos	Forest	All	ll time	Available	Less	No	Prohibited	Maintains forest ecosystem	
Snake	Surf /sap	Serpentes	Forest /water	All	ll time	Available	Less	No	Prohibited	Maintains forest ecosystem	

	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.)			

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