

Peoples' Biodiversity Register (PBR): General Details	
Name of the Panchayat Samity: Kishanpur	
Taluk:Billawar	
District: Kathua	
State: J&K (ut)	
Geographical Area of the Panchayat Samity:	
Population under the Panchayat Samity: Total 1858	
Male :-	Female :-
Habitat and Topography:	
Climate (Rainfall, Temperature and other weather patterns) Land Use (Nine fold classification available with village records) Date, Month and Year of PBR preparation: 30-11-2019	
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 (PA) / Community Owned and Managed Forests (COM) 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: Sh Rattan Chand

Age: 61

Gender: Male Address: R/O- Kishanpur, w.no-1

Area of specialization: Bussiness man (Ex-Service man)

2) Name: Surishta Devi

Age:37

Gender: Female Address: R/o-Kishanpur,w.no-2

Area of specialization:Housewife

3) Name: Babita Devi

Age: 46

Gender:Female

Address:R/o- Kishanpur, W.no.-3

Area of specialization:Housewife

4) Name: Dina Nath

Age:70

Gender: Male

Address:R/o-Kishanpur,W.No-4

Area of specialization: Ex service man

5) Name:Des Raj

Age 50

Gender:Male

Address:R/o- Kishanpur,W.no-5

Area of specialization:Farmer

3

6) . Name :- Sardari Lal Age : - 63

Gender:Male

Address:R/o-Kishanpur,W.No.-6 Area of specialization :- Ex service man

7) Name:- Sh Gunjan Singh Age:70

Gender: Male

Address:R/o-Kishanpur, W.No-7 Area of specialization: Farmer

Annexure-2

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

1) Name :

Age:

GENDER:

Address:

Area of specialization:

Location from which the person accesses biological material: local/non local

Perception of the practitioner on the resource status:less local resources available

Medicinal Use:

Annexure 3

List of individuals perceived by the villagers possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry

1) Name : Desh Raj

Age:50

Gender:Male

Address:Kishanpur, Ward No 5

Area of specialization:Agriculture

2) Name :Gunjan Singh

Age:70

Gender:Male

Address:Ward No 7

Area of specialization:Agriculture

3) Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

4) Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

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

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

End of Part I

Part II
PBR – Formats
AGROBIODIVERSITY
Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12		14
Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Approx. area shown	Local Status		Special features	Crop ping season	Uses	Associate d TK	Other details	Source of Seeds/ Plants	Community/ Knowledge Holder
						Past	Present							
Rice	<i>Oryza sativa</i>	Dhan, Munji	PAC 807	Suitable for Sub Tropical areas . Matures approx. 95-100 days, 110- cm	100 Hoc	Abundant	Abundant	Dwarf High Yielding variety	June -	Food Fodder		Suitable for Cultivation in Low land , Mid HillsAreas, Hot & Humid Climate	Agri. Deptt.	
	<i>Oryza sativa</i>	Dhan, Munji	Jaya	Plant hight 140- 145 cm		Abundant	Abundant	Dwarf High Yielding variety	June -	Food Fodder			Agri. Deptt.	
	<i>Oryza sativa</i>	Dhan, Munji	PHV 71	Plant Height 110-115 cm 115 -120 Days approx.		Abundant	Abundant	Dwarf High Yielding variety	June -	Food Fodder				Agri. Deptt.

	<i>Oryza sativa</i>	Dhan, Munji	sarwati	160-165 cm 80-90 Days		Abundant	Rare	Tall in height , sweet in taste , High starch Content	June -	Food Fodder	More Nutritiv e Value	Suitable of Plain & Mid Hills	Local	Pahari commu nity
Wheat	<i>Triticum aestivum</i>	Kanak	HD- 2967	150-155 cm	Total- 200 Hoc	Abundant	Abundant	Dwarf High Yielding variety	Nov-	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
	<i>Triticum aestivum</i>	Kanak	Raj - 3077	135-140 cm		Abundant	Abundant	Dwarf High Yielding variety	Nov-	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
	<i>Triticum aestivum</i>	Kanak	Raj- 3765	125-130 cm		Abundant	Abundant	Dwarf High Yielding variety	Nov-	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
Maize	<i>Zea mays</i>	Makk, kukri, challi, Buhtha, jobawr	Ganga Safed - 2 Pro agro 4794 (w)	White grain Hyb. Suitable for Sub-tropical. Mauturees in 95-100 days	100 Hoc	Abundant	Abundant	Hight yeilding Varity	June-	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
	<i>Zea mays</i>	Makk, kukri, challi, Buhtha, jabawr	Vijay Double Dekalb (Y)	Composite Maize Yellow grain variety High Yielding Vaiety suitable for Mid Hills		Abundant	Abundant	High yeilding Varity	June-	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	

Til	<i>Seasamu m indicum</i>	til	Punjab til -1	White seed Variety . Matures in 80-85 days . Plant hight 1.3-1.6 mtr.	1 Hoc	Abundant	Abundant	High yeilding Varity	June-	Oil,		Suitable of Plain & Mid Hills	Agri. Deptt.	
Pulses (Mash)	<i>Vigna mungo</i>	Maa/ Mash	T-9 Ultra Pu-31	Matures in 85-90 days. Suitable for plain & Mid hills	20 Hoc	Abundant	Abundant	High yeilding Varity	June-	Food	hight Protein contents	Suitable of Plain & Mid Hills	Agri. Deptt.	
Okra	<i>Abelmosc hus esculentu s Moench</i>	Bhindi	Pusa A-4, Versha Nemo	Dark green andfruit size 12-15 cm long	1 Hoc	Abundant	Abundant	High yield Variety , tolerant to YVM and aphids, First picking starts in 45 days	Feb- Marc h June- July (rainy season)	Food		Suitable of Plain & Mid Hills	Agri. Deptt.	
Tomato	<i>Solanum lycopersi cum</i>	Tamatar,	Kashi (DVRT -2) Punjab Chhura , Sonali	Plant are Green, Fruit are red , spherical medium to large sized	0.5 Hoc	Abundant	Abundant	First harvest at 70-75 days after transplanting . Resistant to TLCV.	Trans planti ng Jan to Mid Feb	Food	Resista nt to TL CV.	Suitable of Plain & Mid Hills	Agri. Deptt.	
Knol khol	<i>Brassica oleracea</i>	Kadam	Purple Vienna	Cool & moist climate	0.5 Hoc	Abundant	Abundant	Matures in 70-75 days.Knobs are purplish & fleshy greenish white.	mainl y as a winte r crop.	As vegetable pickles.	Rich in fibre.	For early crop sandy or sandy loam soils & for late crop clay loam & silty soils are preffered.	Agri. Deptt.	
Peas	<i>Pisum sativum</i>	Matar				Abundant	Abundant		Aug-Nov	Veg			Agri. Deptt.	
Cabbage	<i>Brassica oleracea var. capitata</i>	Full gobi				Abundant	Abundant		Aug-Nov	Veg			Agri. Deptt.	

Potato	<i>Solanum tuberosum</i>	Aloo				Abundant	Abundant		Oct	Veg			Agri. Deptt.	
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Format 2: Fruit Plants

Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plant s	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder							
					Past	Present													
Mango	<i>Mangifera Indica</i>	Aam	Desi	Cultivayed land			Govt./Pvt Source	Spring Session		As fresh Use	Own use								
			Malta																
			Choya																
			Malika																
Amla	<i>PHyllenthus ambica</i>	Amla	Na-7																
			barnari																
			NA-6																
			Na-10&																
			Local																
Citrus		Nimbus																	
		Galgal																	
		Masami																	
		orange																	
Guava	<i>Psidium guajava</i>	Amrood						Monsoon											
Java Plum	<i>Syzygium cumini</i>	Jamnu						Summer											
Loquat	<i>Eriobotrya japonica</i>	Loghat						Spring											
Indian jujub	<i>Ziziphus mauritiana</i>	Ber						Winter											
Pomegranate	<i>Punica granatum</i>	Anar																	
Peach	<i>Prunus persica</i>	Aadu						Summer											

Format 3: Fodder Crops / Species

1	2	3	4	5		6	7	8	9	10
Plant	Scientific Name	Local Name	Landscape / Habitat	Local Status		Source of Plants / Seeds	Associated TK	Part Used	Other details	Community / Knowledge holder
				Past	Present					
Sorghum	<i>Sorghum bicolor</i>	Jowar	Warm climate crop	Plenty	Plenty	Agri. Deptt.	It has resistance to desiccation and tolerate to water logging condition .	Part used whole plant	Soil with clay loam texture having good water retention capacity are best suitable for its cultivation	
Berssem Mascavi	<i>Trifolium alexandrinum</i>	Beerseen	winter forage.	Plenty	Plenty	Agri. Deptt.	It is reich in Calicum and phophorus	Part used whole plant. Repeated cuts can be taken .	Improves phyical condion of soil . It can be grown in all types of soil expect very light sandy soil	
Dhaman	<i>Grewia optiva</i>	Dhaman	Sub-Tropical	Plenty	Plenty	Agri. Deptt.				
Toot	<i>Morus alba</i>			Plenty	Plenty	Agri. Deptt.				
Crewl	<i>Bauhinia variegata</i>			Plenty	Plenty	Agri. Deptt.				
Dhrink	<i>Melia azedarach</i>			Plenty	Plenty	Agri. Deptt.				
Oak	<i>Avena sativa</i>			Plenty	Plenty	Agri. Deptt.				
Maize	<i>Zea mays</i>			Plenty	Plenty	Agri. Deptt.				

Other details include fodder for which animal, special features, medicinal uses if any, seasons of availability, propagation methods, collecting from wild or cultivated etc.

Format 4: Weeds

1	2	3	4	5	6	7		8	9	10	11	12
Plant	Scientific Name	Local Name	Affected crop	Impact	Landscape / Habitat	Local Status		Uses if any	Management options	Associated TK	Other details like exotic	Community / Knowledge holder
						Past	Present					
Bathua	<i>Chenopodium sp</i>	Baathu	Wheat	Broad leaf and consumed the nutrients of the plants and reduces the production	Germination in the field after 20 days	Plenty	Plenty	Nil	1. Use of weedicide		Hady and wider adoptability, multiply very fast	
Sitti	<i>Phalaris minor</i>	Sitti, Gehoon ka mama, Gulli Danda	Wheat	Compete with nutritions, light and space with wheat crop and reduces the production Narrow Leav Weed	Grows with Wheat crop	Plenty	Plenty	Nil	1. Use of Weedicides metribuzinie @200Gms/ha dissolved in 500- 600 l of water		Hady and wider adoptability, multiply very fast	
Dhoob	<i>Cynodon dactylon</i>	Dhoob	Maize	Weed emerg with the germination with Maize seed and grow along with plants till the early growth period and cause sever crop weed compitation.	Grows with Maize crop	Plenty	Plenty		1). 2-3 Weeding follwed by earthingup. 2). pre emergence appliation Atrazine @ 1-1.25 Kg / per ha of 50% WP		Losses caused by Weeds are more during early stage than in later stages.	
Congress grass	<i>Parthenium hysterophorus</i>		Wheat			Plenty	Plenty					
Bhang	<i>Cannabis sativa</i>		Wheat			Plenty	Plenty					

Other details may include how long the weeds have been suppressing/adversely affecting the crops in this locality, when it came under notice, intensity of natural multiplication etc

Format 5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientific name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
Paddy	Grasshopper	<i>Hieroglyphus niogrorepletum</i>	Tidda , Raja da Gorha ,	Polyphagus	June to Novemeber	1.Destroy eggs by cleaning bunds 2. Spray the bunds with Malathion 5 % D @ 25 Kg / Ha	Both nymphs and Adults feed on the leaves , they devour the young shoots and newly farm ear heads.	Adults are like locust but smaller in size	
Paddy	Rice Hisppa	<i>Dicladispa armigera</i>	Neela tittu	Appeaqr in all varieties of rice	July -Sep	1. Clip the affected tips of leaves before transplanting	Quinalphos 25EC 1 litre per ha in 750 ltr of water	The grubs this pest mine into the leaves and adults are external feedders.	
Wheat	Field Rats	<i>Bandicota sp.</i> <i>Tatera sp.</i>	Chua, Kees,	Burrow in soil .Rats are found in nearly all areas of Earth which are inhabited by human beings.	through out the year	1. Poison baiting 2. bund trimming to minimize harborage 3. use indigenous traps	Thje cause have loss to standing wheat crop and harvested crop in stores.	Domestic rats differ from wild rats in many ways. They are calmer and less likely to bite; they can tolerate greater crowding; they breed earlier and produce more offspring; and their brains, livers, kidneys, adrenal glands, and hearts are smaller	
	Termites	<i>Microtermes obesi</i>	seenak, seonk, white ant,	Generally appears at wet places, lives in nests made under ground	through out the year	1. Destroy termitaria in an around field 2. Never use raw FYM 3. For termites control in standing crop, dilute 4l of chlorpyriphos 20EC in 5l of water and mix in 50 kg of sand thoroughly . Boradcast this treated soil in the infested areas.	These are Social insect that lives under ground in colonies.	The damage plant dry up completely and are easily pulled out	

Maize	Stem borer	<i>Chilo partellus</i>	Lurhi, kidda,	Occurs through out the country	July onward . 15-20 days after Germination	1. apply granular insecticide carbofuran 3G @20 Kg / Ha 2. Uproot the stubbles of previous years crop and burn	It attacks immediately after germination and causes dead hearts in young plants .	The adult is medium sized straw coloured moth . The caterpillar is dirty white in color with short bristly hair on its body	
	Cut Worm	<i>Agrotis ipsilon</i>	Luhri	Occurs through out the country but especially Hilly areas	July onward .	1. Install light traps @2/Ha 2. Install Pheromones traps @40/Ha to attract to kill the male moths 3. Chlorpyriphos 30EC@3ml/of water	Larva cut the seedling at the ground level .	They live in soil during the day and feed at night . The caterpillar are in grey in colour	
cole crops	Cabbage butterfly	<i>Pieris brassicae</i>	Titali	The large white butterfly's habitat consists of large, open spaces, as well as farms and vegetable gardens, because of the availability of its food source.	Oct onwards	1. Release of <i>Trichogramma chilonis</i> @50000 adults/ha per release (6 times)at weekly interval in Mid January 2. Donot spray the crop near harvesting			
Vegetable	Fruit fly	<i>Bactrocera cucurbitae</i>	Titali	Fruit flies are of concern both as nuisance pests and as serious contaminators of food.	After Summer Rains when Humidity is high.	1. Install methyl eugenol traps @ 5-100/Ha 2. Spray Malathion @ 1ml +10 Grms gur/ ltr of water at evening hours when fruits flies are congregated on the leave surface.	Female fruit flies lay their eggs on the surface of rotting fruits and vegetables. Each female may lay as many as 500 eggs. These eggs hatch into larvae which molt twice before becoming fully grown.	Adults may be dull yellowish, brownish yellow, or brownish black in color and range from 1/10 to 1/5 inch long. Most species have red eyes. Larvae are very small (ranging from 1/10 to 1/5 inch long), dirty white, and maggot-shaped. They can be recognized by the stalked posterior spiracles on the last abdominal segment.	
Other details may include possible reasons for insects/animal attack									

Format 6: Markets 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
No Organized market in the area. 1) Ujj pull , Mandli 2) Challan ,Ramkote 3) Other Loacla areas of Blocks	Not Organized Culling	Sheep & Goats	02 Sheep	From areas of Mandis & other adjoining areas of Different Blocks	Local Markets of District & also Diff. areas of UT.			
			01 Goat					

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: 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
										827

Major occupation may be farming. Sub-occupations could be fishing, collection of NTFP animal husbandry, artisans, services Examples of depending landscapes are agriculture landscape, rivers, forest etc.
 Major resources accessed could be agriculture resources of different nature, fish, birds, water, mud, and etc
 How the community manages the landscapes they use for satisfying different needs, their strategies and perception
 How the community manages the resources they access for satisfying different needs, their strategies and perception, conflicts etc

Format 8: Landscape

1			2	3	4	5	6	7	8	9	10	11	12
Major Landscapes			Sub - Landscapes	Feature s and approx. area	Ownersh i p	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Agricultural land	Pond	Fallow land											

Provide a brief description of landscapes such as forests, plantations, cultivated land, estuary, pond, lake or other elements

Format 9: Waterscape

1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape element type	Sub- type	Features and approx area	Ownership	General flora	General fauna	Major uses	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
PONDS												
Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,												

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
Brown Forest Soil	Silt Loam to clay Texture	Fine Granular, Dub-Angular Blocky Structure having pH 7.8-8.3, Water Holding capacity more than 40%	Use of Organic matter	Maize, Wheat, Safflower			
Alluvial Soils	Loamy Soils	ph 7.0-7.7, Organic Carbon 0.28-0.61%	Use of Organic matter	Wheat, Paddy, Vegetables			

Format 11: Fruit Trees

1	2	3	4	6	7		8	9	10	11	12	13
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Local Status		Source of plant/seeds	Season of Fruiting	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
					Past	Present						
Mango	Mango	<i>Magnifera Indica</i>	Malta Deshari Desi	Cultivated land			Govt Nry	Summer			Market	
Orange	Santra	<i>Citrus × sinensis</i>	2	Cultivated land			Govt. nry	Winter			Own use	
Kinoo	Kinoo		2	Cultivated land			Govt. nry	Winter	As a fresh fruit		Own use	
Mussami	Mussami	<i>Citrus aurantifolia</i>	1	Cultivated land			Govt. nry	Winter			Own use	
Guava	Amrood	<i>Psidium guajava</i>	Alabadi sfada	Cultivated land			Govt. nry	Summer			Own use	
Nimbu	Nimbu	<i>Folia</i>	Hybrid,Desi	Cultivated land								
Peach	Arru	<i>Prunes persiac</i>	Shona Punjabi florida sun	Cultivated land			Govt. nry	Summer			Own use	
Pear	Nashpati		Desi,	Cultivated land			Pvt. Source	Summer			Own use	
				Cultivated land								
Galgal	Galgal	<i>Arintio</i>	Desi	Cultivated land								
Java Plum	Jamnu	<i>Syzygium cumini</i>		Cultivated land			Govt. Nry	Summer				
Loquat	Loghat	<i>Eriobotrya japonica</i>		Cultivated land			Govt. Nry	Summer				
Indian jujub	Ber	<i>Ziziphus mauritiana</i>		Cultivated land			Govt. Nry	Summer				

Pomegranate	Anar	<i>Punica granatum</i>		Cultivated land			Govt. Nry	Summer				
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Format 12: Medicinal Plants (Herbs, Shrubs, Trees etc.)

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/Habitat	Source of plant/seeds	Local status		Uses (usage)	Part used	Associated TK	Other details market/own use	Community/ Know. Holders
						Past	Present					
Herbs	Dudlu	<i>Taraxacum officinale</i>	Temperate area	Rare	Rare	nil	Leaves	N.A	N.A			Generally, held by community
Herbs	Brahmi Bhutti	<i>Centella asiatica</i>	Lower shiwalik	Rare	Rare	nil	Leaves	N.A	N.A			Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>	Lower shiwalik	Abundant	Abundant	nil	Root	N.A	N.A			Generally, held by community
Herbs	Jungli putna	<i>Mentha arvensis</i>	Lowershiwalik/ Temperate area	Abundant	Abundant	nil	Leaves	N.A	N.A			Generally, held by community
Herbs	Banfsha	<i>Viola odorata</i>	Lowershiwalik/ Temperate area	Abundant	Abundant	nil	Flower	N.A	N.A			Generally, held by community
Shrubs	Trimuru	<i>Zanthoxylum aurmatum</i>	Lower shiwalik	Rare	Rare	nil	Fruit	N.A	N.A			Generally, held by community
Shrubs	Anardana	<i>Punica granatum</i>	Lower shiwalik	Rare	Abundant	nil	Fruit	N.A	N.A			Generally, held by community
Shrubs	brankad	<i>Adha toda vesica</i>	Lower shiwalik	Abundant	Abundant	nil		N.A	N.A			Generally, held by community
Shrubs	Drainkdu	<i>Murraya koenigii</i>	Sub-Tropical area	Rare	Rare	nil	Fruit	N.A	N.A			Generally, held by community
Shrubs	Dussa	<i>Colebrookia oppositifolia</i>	Lower shiwalik	Abundant	Abundant	nil	Flower	N.A	N.A			Generally, held by community

Shrubs	Thor/Shuu	<i>Euphorbia royleana</i>	Lower shiwalik	Abundant	Abundant	nil	Leaves	N.A	N.A			Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>	Lower shiwalik	Rare	Rare	nil	Leaves	N.A	N.A			Generally, held by community
Shrubs	Bhang	<i>Canabis sativia</i>	Lower shiwalik	Abundant	Abundant	nil		N.A	N.A			Generally, held by community
Tree	Amla	<i>Phyllanthus emblica</i>	Lower shiwalik	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A			Generally, held by community
Tree	Bair	<i>Ziziphus xylocarpa</i>	Lower shiwalik	Rare	Rare	nil	Stem	N.A	N.A			Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>	Lower shiwalik	Rare	Abundant	nil	Fruit	N.A	N.A			Generally, held by community
Tree	Bill-Patre	<i>Angle mermelos</i>	Sub-Tropical area	Abundant	Abundant	nil	Root	N.A	N.A			Generally, held by community
Tree	Drankh	<i>Melia azedarach</i>	Lower shiwalik	Abundant	Abundant	nil	Leaves	N.A	N.A			Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>	Lower shiwalik	Abundant	Abundant	Good for digestion	Stem/Fruit	N.A	N.A			Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>	Lower shiwalik	Abundant	Abundant	maintains sugar level in human body	Leaves/Fruit	N.A	N.A			Generally, held by community
Tree	Kakad- Singhi	<i>Pistacia khinjuk</i>	Lower shiwalik	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A			Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>	Lower shiwalik	Rare	Rare	nil	Leaves/ Flower	N.A	N.A			Generally, held by community
Tree	Khair	<i>Acacia catechu</i>	Lower shiwalik	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A			Generally, held by community

Tree	Kringal	<i>Casia fistula</i>	Lower shiwalik	Rare	Rare	nil	Fruit	N.A	N.A			Generally, held by community
Tree	Lusada	<i>Cordia dichotoma</i>	Lower shiwalik	Rare	Rare	nil	Leaves/Fruit	N.A	N.A			Generally, held by community
Tree	Mangoo	<i>Mangifera Indica</i>	Lower shiwalik	Abundant	Abundant	nil	Stem/Fruit	N.A	N.A			Generally, held by community
Tree	Retha	<i>Sapindus Mukorossii</i>	Lower shiwalik	Rare	Rare	nil	Fruit	N.A	N.A			Generally, held by community
Tree	Rumbal	<i>Ficus racemosa</i>	Lower shiwalik	Rare	Rare	nil	Leaves	N.A	N.A			Generally, held by community
Tree	Sree	<i>Albizia lebbeck</i>	Lower shiwalik	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A			Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	nil	Stem	N.A	N.A			Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>	Lower shiwalik	Rare	Rare	nil	Leaves/Fruit	N.A	N.A			Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>	Lower shiwalik	Abundant	Abundant	nil	Stem	N.A	N.A			Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>	Lower shiwalik	Rare								

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
Tree	kringal	<i>Casia fistula</i>		Flower Fruit	Non- Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Gandera	<i>Nerium oleander</i>		Seed	Non- Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Thub	<i>Erythrina indica</i>		Seed	Non- Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Badah	<i>Salix alba</i>		Seed	Non- Commercial	N.A	N.A	N.A	Generally, held by community
Climber	Kareer	<i>Rosa acicularis</i>		Seed	Non- Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Silver Oak	<i>Grevillea robusta</i>		-	-	-	-	-	-
Tree	Money Plant	<i>Epipremnum aureum</i>		-	-	-	-	-	-
Tree	Sukh Chain	<i>Pongamia Pinnata</i>		-	-	-	-	-	-
	Rose	<i>Rosa chinensis</i>		-	-	-	-	-	-
Tree	Bottle Brush	<i>Callistemon</i>		-	-	-	-	-	-

Format 14: Timber Plants / Trees

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Cambel	<i>Lannea coromandelica</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Cheundi	<i>Xylosma longifolium</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Dhaman	<i>Grewia optiva</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Drankh	<i>Melia azedarach</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Jaman	<i>Syzygium cumini</i>	Lower shiwalik	Abundant	Abundant	Wild	own	maintains sugar level in human body	nil	Generally, held by community
Trees	Kakad- Singhi	<i>Pistacia khinjuk</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Khair	<i>Acacia catechu</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Kiker	<i>Acacia Nilotica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Mangoo	<i>Mangifera Indica</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Ola	<i>Albizzia chinensis</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Sree	<i>Albizzia lebbeck</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Simbal	<i>Bombax ceiba</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community

Trees	Tooth	<i>Morus alba</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Tuni	<i>Toona ciliata</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Popular	<i>Populus ciliata</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Arjun	<i>Terminalia arjuna</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Chuntar	<i>Bischofia javanica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Mulberry	<i>Morus alba</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community

Format 15: Domesticated Animals

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Small Ruminants	Sheep	<i>Ovis aries</i>	Local Cross Bred	Small Size Large Size, Fine Wool, White face & White legs						Yes	Mutton ,Wool, milk & Skin The department provides all necessary medial facilities scientific system of rearing	Yes
	Goat	<i>Capra Hircus</i>	Bakrwali/ Kaghani	Large Size, White/grey/ Brown / Black coat, long hair						Yes		Yes
			Beetal	Usually Black/red, Pendulous ears						Yes		Yes
			Beetal Cross	Smaller in Size and Shorter ears						Yes		Yes
Cow	Gaay'	<i>Bos taurus</i>	Hybrid	High Fertility High milk yield	Domesticated	Available	Available	milk & Cow Dung				
			Local	Low milk yield Adapted in Local Condition		Available In hilly belt	Available In hilly belt					
Buffalo	Bhains	<i>Bubalus bubalis</i>	Local Upgraded	Black in Colour Mod. To High milk High fat %age	Domesticated	Available	Available	milk & Dung				

Ox	Bael	<i>Bos taurus</i>	Local Hybrid	Ploughing 7 carriage	Domesticated	Available	Available	Ploughing & carriage
Dog	Kutta	<i>Canis lupus familiaris</i>	Local Hybrid	Pet	Domesticated & Stray	Available	Available	Gaurding
Horse Mule Donkey	Ghoda Kachar Khota	<i>Equine spp</i>	Local Hybrid	Pet	Domesticated	Available	Available	Carriage & Cart pulling
Cat	Belli	<i>Felis catus</i>	Local	Pet	Domesticated & Free roaming	Less	less	---
Poultry	Kukad Farmi	<i>Gallus gallus domesticus</i>	Local	Enriched meat flavour	Backyard	Abdundan t	Decreased	Egg & Meat
	Kukad Broiler	<i>Gallus gallus domesticus</i>	Chabro Hybrid	Good egger White in Colour	Backyard Deep Litter	Very few	Increased	Egg & Meat
Pig	Suar	<i>Sus scrofa domesticus</i>	Local	Enriched meat flavour	Domesticated	Very few	Very few	Meat purpose

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/talao)	Local status		Uses	Associated TK	Commercial rearing	Other details	Community Know. Holders
						Past	Present					

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

WILD BIODIVERSITY
Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers etc.

1	2	3	4	5	6		7	8	9	10	11
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial / own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Trees	Aaran	<i>Prunus persica</i>	Trees	Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Trees	Amla	<i>Phyllanthus emblica</i>	Trees	Lower shiwalik	Rare	Rare	own	Fruit	posses medicinal properties	nil	Generally, held by community
Trees	Baadh	<i>Ficus religiosa</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Bair	<i>Ziziphus xylocarpa</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Bheda	<i>Terminalia bellerica</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Bill-Patre	<i>Angle mermelos</i>	Trees	Lower shiwalik	Rare	Rare	own	Fruit	posses medicinal properties	nil	Generally, held by community
Trees	Cambel	<i>Lannea coromandelica</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Charmood	<i>Ehretia laevis</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Cheundi	<i>Xylosma longifolium</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Chilla	<i>Casearia tomentosa</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community

Trees	Dhaman	<i>Grewia optiva</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem/Bark	nil	nil	Generally, held by community
Trees	Drankh	<i>Melia azedarach</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Fakwara	<i>Ficus palmata</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Galdey	<i>Rhamnua triquetra</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Guvava	<i>Psidium Guajava</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Fruit	posses medicinal properties	nil	Generally, held by community
Trees	Harad	<i>Terminalia chebula</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Stem/Fruit	Good for digestion	nil	Generally, held by community
Trees	Jaman	<i>Syzygium cumini</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Fruit	maintains sugar level in human body	nil	Generally, held by community
Trees	Kainth	<i>Pyrus paschia</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Kakad-Singhi	<i>Pistacia khinjuk</i>	Trees	Lower shiwalik	Abundant 3	Abundant 3	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Kakuya	<i>Flacourtia indica</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Trees	Kamla	<i>Malotus philippensis</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Karal	<i>Bauhinia variegata</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Flower	nil	nil	Generally, held by community
Trees	Khair	<i>Acacia catechu</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community

Trees	Kiker	<i>Acacia Nilotica</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Trees	Kringal	<i>Casia fistula</i>	Trees	Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Trees	Laana	<i>Ficus hispida</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Trees	Laseni	<i>Leucaena leucocephala</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Lusada	<i>Cordia dichotoma</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Mangoo	<i>Mangifera indica</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Stem/Fruit	nil	nil	Generally, held by community
Trees	Ola	<i>Albizzia chinensis</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Pansra	<i>Wendlandia heynei</i>	Trees	Lower shiwalik	Rare	Rare	own	Stem	nil	nil	Generally, held by community
Trees	Prag	<i>Alnus nitida</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Stem	nil	nil	Generally, held by community
Trees	Retha	<i>Sapindus Mukorossii</i>	Trees	Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Trees	Rumbal	<i>Ficus racemosa</i>	Trees	Lower shiwalik	Rare	Rare	commercial	Leaves	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Trees	Lower shiwalik	Rare	Rare	own	Stem	nil	nil	Generally, held by community
Trees	Sree	<i>Albizzia lebbeck</i>	Trees	Lower shiwalik	Abundant	Abundant	commercial	Leaves/Stem	nil	nil	Generally, held by community

Trees	Simbal	<i>Bombax ceiba</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Talli	<i>Dalbergia sissoo</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Stem	nil	nil	Generally, held by community
Trees	Tooth	<i>Morus alba</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Trimbal	<i>Ficus auriculata</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Tuni	<i>Toona ciliata</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Stem	nil	nil	Generally, held by community
Trees	Badoo	<i>Ficus Banglensis</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Popular	<i>Populus ciliata</i>	Trees	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Arjun	<i>Terminalia arjuna</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Bark	nil	nil	Generally, held by community
Trees	Chuntar	<i>Bischofia javanica</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Shurbs	Trimuru	<i>Zantho Xylum Aurmatum</i>	Shurbs	Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Trees	Chir	<i>Pinus roxburghii</i>	Shurbs	Lower shiwalik	Rare	Rare			nil	nil	Generally, held by community
Shurbs	Kimb	<i>Citrus Karna</i>	Shurbs	Lower shiwalik	3 Rare	3 Rare	own	Fruit	nil	nil	Generally, held by community
Shurbs	Gandera	<i>Thevetia peruviana</i>	Shurbs	Lower shiwalik	Abundant	Abundant	own		nil	nil	Generally, held by community

Shurbs	Anardana	<i>Punica granatum</i>	Shurbs	Sub-Tropical area	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Shurbs	brankad	<i>Adhatoda vesica</i>	Shurbs	Lower shiwalik	Abundant	Abundant	own	Flower	nil	nil	Generally, held by community
Shurbs	Drainkdu	<i>Murraya koenigii</i>	Shurbs	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Shurbs	Dussa	<i>Colebrookia oppositifolia</i>	Shurbs	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Shurbs	Akk	<i>Ipomea fistulosa</i>	Shurbs	Lower shiwalik	Abundant	Abundant	own		nil	nil	Generally, held by community
Shurbs	Garna	<i>Carissa opaca</i>	Shurbs	Lower shiwalik	Abundant	Abundant	own	Leaves/Fruit	nil	nil	Generally, held by community
Shurbs	Thor/Shuu	<i>Euphorbia royleana</i>	Shurbs	Lower shiwalik	Rare	Rare	own	Stem	nil	nil	Generally, held by community
Shurbs	Aakhe	<i>Rubus ellipticus</i>	Shurbs	Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Shurbs	Bareyan	<i>Acorus calamus</i>	Shurbs	Sub-Tropical area	Abundant	Abundant	own	Root	nil	nil	Generally, held by community
Shurbs	Bhang	<i>Canabis sativa</i>	Shurbs	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Herbs	Dudlu	<i>Taraxacum officinale</i>	Herbs	Temperate area	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Herbs	Brahmi Bhutti	<i>Centella asiatica</i>	Herbs	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>	Herbs	Lower shiwalik	Abundant	Abundant	own	Root	nil	nil	Generally, held by community

Herbs	Jungli putna	<i>Mentha arvensis</i>	Herbs	Lower shiwalik/Temperate area	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Herbs	Banfsha	<i>Viola odorata</i>	Herbs	Lower shiwalik/Temperate area	Abundant	Abundant	own	Flower	nil	nil	Generally, held by community
Grass	Bamboo	<i>Dendrocalamus Strictus</i>	Grass	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Grass	Drub/Khabbal	<i>Cyanodon dactylon</i>	Grass	Lower shiwalik	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Grass	Monja	<i>Saccharum benghalense</i>	Grass	Temperate area	Rare	Rare	own	Stem	nil	nil	Generally, held by community
Grass	Kai/Kaana	<i>Saccharum spontaneum</i>	Grass	Lower shiwalik	Abundant	Abundant	own	Leaves/Stem	nil	nil	Generally, held by community
Climbers	Mlungar	<i>Bouhania Vahllaii</i>	Climbers	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Climbers	Galoj	<i>Tinospora cordifolia</i>	Climbers	Lower shiwalik	Abundant	Abundant	own	Stem	nil	nil	Generally, held by community

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
Sl. No.	plant	Local Name	Scientific Name	Importance (as economic, social, cultural etc.)	Status
1	Amla	Amla	<i>Phyllanthus emblica</i>	economic/cultural	Abundant
2	Bair	Bair	<i>Ziziphus xylocarpa</i>	economic/cultural	Rare
3	Bheda	Bheda	<i>Terminalia bellerica</i>	economic	Rare
4	Bill-Patre	Bill-Patre	<i>Angle mermelos</i>	Social/Culture	Rare
5	Drankh	Drankh	<i>Melia azedarach</i>	economic	Abundant
6	Harad	Harad	<i>Terminalia chebula</i>	economic/cultural	Abundant
7	Jaman	Jaman	<i>Syzygium cumini</i>	economic/cultural	Abundant
8	Kakad-Singhi	Kakad-Singhi	<i>Pistacia khinjuk</i>	economic	Abundant
9	Karal	Karal	<i>Bauhinia variegata</i>	economic	Abundant
10	Khair	Khair	<i>Acacia catechu</i>	economic	Abundant
11	Kringal	Kringal	<i>Casia fistula</i>	social	Abundant
12	Lusada	Lusada	<i>Cordia dichotoma</i>	economic	Rare
13	Mangoo	Mangoo	<i>Mangifera Indica</i>	economic/cultural	Abundant
14	Retha	Retha	<i>Sapindus Mukorossii</i>	economic	Rare
15	Rumbal	Rumbal	<i>Ficus racemosa</i>	economic	Rare
16	Sree	Sree	<i>Albizzia lebbeck</i>	economic	Abundant

17	Talli	Talli	<i>Dalbergia sissoo</i>	economic	Abundant
18	Trimbal	Trimbal	<i>Ficus auriculata</i>	economic	Abundant
19	Trimuru	Trimuru	<i>Zantho Xylum Aurmatum</i>	economic	Rare
20	Tuni	Tuni	<i>Toona ciliata</i>	economic	Rare
21	Arjun	Arjun	<i>Terminalia arjuna</i>	economic	Abundant
22	Anardana	Anardana	<i>Punica granatum</i>	economic	Abundant
23	brankad	brankad	<i>Adha toda vesica</i>	economic	Rare
24	Drainkdu	Drainkdu	<i>Murraya koenigii</i>	economic	Abundant
25	Dussa	Dussa	<i>Colebrookia oppositifolia</i>	economic	Abundant
26	Dudlu	Dudlu	<i>Taraxacum officinale</i>	economic	Abundant
27	Thor/Shuu	Thor/Shuu	<i>Euphorbia royleana</i>	economic	Rare
28	Bareyan	Bareyan	<i>Acorus calamus</i>	economic	Rare
29	Bhang	Bhang	<i>Canabis sativia</i>	economic	Abundant
30	Brahmi Bhutti	Brahmi Bhutti	<i>Centella asiatica</i>	Medicinal	Abundant
31	Tarad	Tarad	<i>Dioscorea belophylla</i>	economic	Abundant
32	Jungli putna	Jungli putna	<i>Mentha arvensis</i>	Medicinal	Abundant
33	Galoi	Galoi	<i>Tinospora cordifolia</i>	Medicinal	Abundant
34	Banfsha	Banfsha	<i>Viola odorata</i>	Medicinal	Abundant

Format 20: Aquatic Biodiversity

1	2	3	4	5	6	7	8	9	10	
Local Name	Scientific Name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community/ Knowledge Holder
					Past	Present				
Daryayi Chaahl		Fish								
Pathrili Chaahl		Fish								
Bootal		Fish								
Sol		Fish								
Garoj		Fish								
Tarakla		Fish								
Other details may include mode of catching fish, time of availability, breeding time, etc										

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance	Trends
1	Waterthymes	<i>Hydrilla</i>		Resistance to high salinity in water	
2	Nappa	<i>Nymphea</i>			

Format 22: Wild Plants of Medicinal Importance

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Landscape / Habitat	Local Status		Associated TK	Uses (usage)	Part used	Other details market/ own use	Community/ Knowledge Holder
					Past	Present					
Herbs	Dudlu	<i>Taraxacum officinale</i>	Herbs	Temperate area	Rare	Rare	own	nil		nil	Generally, held by community
Herbs	Brahmi Bhutti	<i>Centella asiatica</i>	Herbs	Lower shiwalik	Rare	Rare	own	nil		nil	Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>	Herbs	Lower shiwalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Herbs	Jungli pudina	<i>Mentha arvensis</i>	Herbs	Lower shiwalik/ Temperate area	Abundant	Abundant	own	nil		nil	Generally, held by community
Herbs	Banfsha	<i>Viola odorata</i>	Herbs	Lower shiwalik/ Temperate area	Abundant	Abundant	own	nil		nil	Generally, held by community
Shrubs	Trimuru	<i>Zantho Xylum Aurmatum</i>	Shrubs	Lower shiwalik	Rare	Rare	own	nil		nil	Generally, held by community
Shrubs	Anardana	<i>Punica granatum</i>	Shrubs	Lower shiwalik	Rare	Rare	own	nil		nil	Generally, held by community
Shrubs	brankad	<i>Adha toda vesica</i>	Shrubs	Lower shiwalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Shrubs	Drainkdu	<i>Murraya koenigii</i>	Shrubs	Sub-Tropical area	Rare	Rare	own	nil		nil	Generally, held by community
Shrubs	Dussa	<i>Colebrookia oppositifolia</i>	Shrubs	Lower shiwalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Shrubs	Thor/Shuu	<i>Euphorbia royleana</i>	Shrubs	Lower shiwalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>	Shrubs	Lower shiwalik	Rare	Rare	own	nil		nil	Generally, held by community
Shrubs	Bhang	<i>Canabis sativia</i>	Shrubs	Lower shiwalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Amla	<i>Phyllanthus emblica</i>	Tree	Lower shiwalik	Abundant	Abundant	own	nil		nil	Generally, held by community

Tree	Bair	<i>Ziziphus xylocarpa</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Bill-Patre	<i>Angle mermelos</i>	Tree	Sub-Tropical area	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Drankh	<i>Melia azedarach</i>	Tree	Lower shivalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>	Tree	Lower shivalik	Abundant	Abundant	own	Good for digestion		nil	Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>	Tree	Lower shivalik	Abundant	Abundant	own	maintains sugar level in human body		nil	Generally, held by community
Tree	Kakad-Singhi	<i>Pistacia khinjuk</i>	Tree	Lower shivalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Khair	<i>Acacia catechu</i>	Tree	Lower shivalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Kringal	<i>Casia fistula</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Lusada	<i>Cordia dichotoma</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Mango	<i>Mangifera Indica</i>	Tree	Lower shivalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Retha	<i>Sapindus Mukorossii</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Rumbal	<i>Ficus racemosa</i>	Tree	Lower shivalik	Rare	Rare	commercial	nil		nil	Generally, held by community
Tree	Sree	<i>Albizia lebbeck</i>	Tree	Lower shivalik	Abundant	Abundant	commercial	nil		nil	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>	Tree	Lower shivalik	Abundant	Abundant	own	nil		nil	Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>	Tree	Lower shivalik	Abundant	Abundant	own	nil		nil	Generally, held by community

Tree	Arjun	<i>Terminalia arjuna</i>	Tree	Lower shivalik	Rare	Rare	own	nil		nil	Generally, held by community
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Format 23: Wild relatives of Crops

1	2	3	4	5		6	7	8	9	10
Local Name	Scientific Name	Associated crop	Landscape / Habitat	Local Status		Uses (usage)	Part Used	Associated TK	Other details	Community / Knowledge holder
				Past	Present					
Flai	<i>Acacia modesta</i>	Kikker	Scattered in forest	Rare		Fodder	leaf/branches			Generally, held by community
Jungli pudina	<i>Mentha arvensis</i>	Pudina	Along the Nalla's	Abundant		Medicinal use	Leaf			Generally, held by community

Note: Other details may include 'function as a substitute plant' in the absence of a particular plant

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
Kareer	<i>Rosa acicularis</i>		Lower to upper shiwalik	Non-Commercial	N.A	N.A	
kringal	<i>Casia fistula</i>		Lower shiwalik	Non-Commercial	N.A	N.A	
Gandera	<i>Nerium oleander</i>		Lower Shiwalik	Non-Commercial	N.A	N.A	
Thub	<i>Erythrina indica</i>		Lower Shiwalik and Plains	Non-Commercial	N.A	N.A	
Badah	<i>Salix alba</i>		Lower Shiwalik and Plains	Non-Commercial	N.A	N.A	
Silver Oak	<i>Grevillea robusta</i>		Lower Shiwalik and Plains				
Ashok Tree	<i>Polyalthia longifolia</i>		Lower Shiwalik and Plains				
Horpankh	<i>Platyclusus orientalis</i>		Lower Shiwalik and Plains				
Sukh chain	<i>Pongamia Pinnata</i>		Lower Shiwalik and Plains				
Amaltas	<i>Cassia fistula</i>		Lower Shiwalik and Plains				
Nerium	<i>Nerium oleander</i>		Lower Shiwalik and Plains				

Plash	<i>Butea monosperma</i>		Lower Shiwalik and Plains				
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Format 25: Fumigate / Chewing Plants

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Habitat	Local Status		Uses (usage)	Part used	Associated TK	Other details (mode of use)	Community knowledge holder
					Past	Present					
Shrub	Trimuru	<i>Zanthoxylum aurmatum</i>									Generally, held by community
	brankad	<i>Adhatoda vesica</i>									Generally, held by community
	Drinkdu	<i>Murraya koenigii</i>									Generally, held by community
	Bana	<i>Vitex negundo</i>		Locally present	Rare	Rare	use for teeth Cleaning	Branches			Generally, held by community
Tree	Flai	<i>Acacia Modesta</i>		Forest	Rare	Rare	Medicinal purpose	Branches			
	Kiker	<i>Acacia Nilotica</i>		Forest	Rare	Rare	use for teeth Cleaning	Branches			

Format 26: Timber Plants

1	2	3	4		5	6	7	8
Local Name	Scientific Name	Habitat	Local Status		Other Uses, if any	Associated TK	Other Details	Community/ Knowledge Holder
			Past	Present				
Cambel	<i>Lannea coromandelica</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Cheundi	<i>Xylosma longifolium</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Dhaman	<i>Grewia optiva</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Drankh	<i>Melia azedarach</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Jaman	<i>Syzygium cumini</i>	Lower shiwalik	Abundant	Abundant	own	maintains sugar level in human body	nil	Generally, held by community
Kainth	<i>Pyrus paschia</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Karal	<i>Bauhinia variegata</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Khair	<i>Acacia catechu</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Kiker	<i>Acacia Nilotica</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community
Mangoo	<i>Mangifera Indica</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Ola	<i>Albizzia chinensis</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community
Prag	<i>Alnus nitida</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Retha	<i>Sapindus mukorossii</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community

Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	own	nil	nil	Generally, held by community
Tooth	<i>Morus alba</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community
Trimbal	<i>Ficus auriculata</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community
Popular	<i>Populus ciliata</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community
Chuntar	<i>Bischofia javanica</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community

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

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local Status		Uses (if any)	Associated TK	Mode of Hunting, collecting (if any)	Other details	Community/ Knowledge Holder
						Past	Present					
Mammals	Chitra	<i>Panthera pardus</i>	Forest	-	Summer Season							Generally, held by community
Mammals	Jungali Billi	<i>Felis chaus</i>	Forest	-	-							Generally, held by community
Mammals	Mongoose	<i>Herpsters aurpunctatus</i>	Forest	-	-							Generally, held by community
Mammals	Jackal	<i>Canis aureus</i>	Forest	-	-							Generally, held by community
Mammals	Indian Fox	<i>Vulpes bengalensis</i>	Forest	-	-							Generally, held by community
Mammals	Five Stripped Palm Squirrel	<i>Funambulus penanti</i>	Forest	-	-							Generally, held by community
Mammals	Field Mouse	<i>Mus boodnga</i>	Forest	-	-							Generally, held by community
Mammals	Indian Porcupine (sahi)	<i>Hustrix indica</i>	Forest	-	-							Generally, held by community
Mammals	Barking Deer (Kakkarh)	<i>Muntiacus moutjak</i>	Forest	-	-							Generally, held by community
Mammals	Hog Deer (Para)	<i>Axis pornicus</i>	Forest	-	-							Generally, held by community
Mammals	Indian Wild Boar (Jungali Sour)	<i>Sus scrofa</i>	Forest	-	-							Generally, held by community

Mammals	Phesus Macaque	<i>Macaac mulatta</i>	Forest	-	-							Generally, held by community
Mammals	Red Fox (Lomari)	<i>Vulpes vulpes</i>	Forest	-	-							Generally, held by community
Birds	Red Jungle Fowl	<i>Gallus gallus</i>	Forest	-	-							Generally, held by community
Birds	Common Pea Fowl	<i>Pavo cristatus</i>	Forest	-	-							Generally, held by community
Birds	Common or Grey Quail	<i>Conturnix conturnix</i>	Forest	-	-							Generally, held by community
Birds	Blue-Rock Pigeon	<i>Columba Lioia</i>	Forest	-	-							Generally, held by community
Birds	Spotted Dove	<i>Streptopelia chinensis</i>	Forest	-	-							Generally, held by community
Birds	House Crow	<i>Corvus splendens</i>	Forest	-	-							Generally, held by community
Birds	Rollel or Blue Jay	<i>Coracras bengalensis</i>	Forest	-	-							Generally, held by community
Birds	Koel	<i>Eudynamys scolopacea</i>	Forest	-	-							Generally, held by community
Birds	Common Hawk Cuckoo	<i>Cuculus varius</i>	Forest	-	-							Generally, held by community
Birds	Himalayan Tree Pie	<i>Dendrocitta formosea</i>	Forest	-	-							Generally, held by community
Birds	Yellow Billed Blue Mapie	<i>Urocissa erythrorhyncha</i>	Forest	-	-							Generally, held by community
Birds	Indian Myna	<i>Acridotheres tristis</i>	Forest	-	-							Generally, held by community

Birds	Blue Whistling Thrush		Forest	-	-							Generally, held by community
Birds	Black Headed Myna	<i>Sturnus pagodarus</i>	Forest	-	-							Generally, held by community
Birds	Wood Pecker	<i>Dryobates himalayansis</i>	Forest	-	-							Generally, held by community
Birds	Toota (Mansari)	<i>Psittacula crameri</i>	Forest	-	-							Generally, held by community
Birds	Cheel	<i>Miloumegrans</i>	Forest	-	-							Generally, held by community
Birds	Moor	<i>Pavo cristatus</i>	Forest	-	-							Generally, held by community
Birds	Tailor Bird	<i>Orthotomous sutorius</i>	Forest	-	-							Generally, held by community
Birds	Indian Robin	<i>Saxicolaides fulicata</i>	Forest	-	-							Generally, held by community
Birds	Paradise Fly Catcher	<i>Terpsiphon paradisi</i>	Forest	-	-							Generally, held by community
Birds	White Spotted Fantail Fly Catcher	<i>Rhipidura albicollis</i>	Forest	-	-							Generally, held by community
Birds	White Breasted king Fisher	<i>Halcyon amyrnensis</i>	Forest	-	-							Generally, held by community
Birds	House Sparrow	<i>Passer domesticus</i>	Forest	-	-							Generally, held by community
Birds	The Hoopoe	<i>Upupa epops</i>	Forest	-	-							Generally, held by community
Birds	Himalayan Barred Owlet	<i>Glaucidium culculoides</i>	Forest	-	-							Generally, held by community
Birds	White Checked Bulbul	<i>Pycnonotus leucogenys</i>	Forest	-	-							Generally, held by community

Birds	Goldern oriola	<i>Oriolus oriolus</i>	Forest	-	-							Generally, held by community
Reptiles	Cobra/Naag	<i>Naja naja</i>	Forest/Cultivated Areas/Along Water Bodies	-	Summer Season							Generally, held by community
Reptiles	Krait/Sanjuth	<i>Zamenies mucosus</i>	Forest/Cultivated Areas/Along Water Bodies	-	Summer Season							Generally, held by community
Reptiles	Python/Sangni	<i>Python morulus</i>	Forest/Cultivated Areas/Along Water Bodies	- 5	Summer Season							Generally, held by community
Reptiles	Himalayan Pit Viper	<i>Viper rusellii</i>	Forest/Cultivated Areas/Along Water Bodies	-	Summer Season							Generally, held by community
Amphibian	Amphibians	<i>Mendak/meenk</i>	rana tigrina	Pond/Land	Rainy Season							Generally, held by community
Amphibian	Amphibians	<i>Toad/Dadu</i>	Buff melanostictus	Pond/Land	Rainy Season							Generally, held by community

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.)

Note: Separate format should be used for road side plantation / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat

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.)

Note: Separate format should be used for road side plantation - habitat / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat

Format 31: Any other information of local importance		
1	2	3
Sr. No.	Information of local importance	Remarks
	none	

End of Part II

Annexure 3

List of *Vaids*, *hakims* and traditional health care (human and livestock) practitioners residing and or using

Name:Dharanpaul Age:70 Gender:Male Address:Kishnapur

Area of Specialization:

Location from which the person accesses biological material: Perception of the practitioner on the resource status: Medicinal use: K

Name: Bishan Dass Age:75 Gender:Male Address:Kishanpur

Area of Specialization:

Location from which the person accesses biological material: Perception of the practitioner on the resource status:

Medicinal use:Kishanpur

Name:

ing biological resources occurring within the jurisdiction of the village

ishanpur

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