

## People Biodiversity Register (PBR): General Details

**Name of the Panchayat Samiti :** Gurah Kalyal East

**Taluk:** Mandli

**District:** Kathua

**State:** J&K

**Geographical Area of the Panchayat Samiti:** 415 Hect.

**Population under the Panchayat Samiti: Total:** 1152

**Male:** 590

**Female:** 562

**Habitat and Topography:** Hilly

**Climate (Rainfall, Temperature and weather patterns)**

**Land Use (Nine fold classification available with village records) :** 64% for Agriculture Purpose

**Date, Month and Year of PBR Preparation :** 31/08/2020

**Management Regime:** Reserve Forest (RF)/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Managed Forest(COM)

## Annexure 1

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

**1)Name of the Chairperson:** Shiv Ram

**Age:** 62

**Gender:** M

**Address:** Local

**Area of specialization:** Agriculture

**2) Name:** Uttama Devi

**Age:** 48

**Gender:** F

**Address:** Local

**Area of specialization:** Agriculture

**3)Name:** Sunita Devi

**Age:** 40

**Gender:** F

**Address:** Local

**Area of specialization:** Agriculture

**4)Name:** Bano Ram

**Age:** 66

**Gender:** M

**Address:** Local

**Area of specialization:** Agriculture

**5)Name:** Krishan Chand

**Age:** 78

**Gender:** M

**Address:** Local

**Area of specialization:** Agriculture

**6)Name:** Joginder Kumar

**Age:** 55

**Gender:** M

**Address:** Local

**Area of specialization:** Agriculture

**7)Name:** Jawahar Lal

**Age:** 56

**Gender:** M

**Address:** Local

**Area of specialization:** Agriculture

<b>Annexure-2</b>
<b>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</b>
1) Name : Nil
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:

### Annexure 3

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

1) Name of the Chairperson: Sh. Jawahar Lal

Age: 56 Years

Gender: M

Address: Gurah Kalyal East

Area of specialization: Agriculture

2) Name of the Chairperson: Smt. Sunita Devi

Age: 40 Years

Gender: Female

Address: Local

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:** Nil

**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**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>S.no</b>	<b>Name and address of the Person/Institute/company others</b>	<b>Local and Scientific Name of the biological material Accessed and quantity</b>	<b>Date and resolution of the BMC and endorsement by the Panchayat</b>	<b>Detail of collection fee imposed</b>	<b>Anticipated mode of sharing benefits or quantum of benefits shared</b>
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*End of Part I*

**Format 1: Crop Plants**

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Approx. area shown	Local Status		Special features	Cropping season	Uses	Associated TK	Other details	Source of Seeds/Plants	Community/ Knowledge Holder
						Past	Present							
Maize	<i>Zea mays</i>	Makk, kukri, challi, Buhтта, jobawr	Ganga Safed-2	White grain Hyb. Suitable for Sub-tropical. Mauturees in 95-100 days		Abundant	Abundant	Hight yeilding Variety	June- Oct	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
	<i>Zea mays</i>	Makk, kukri, challi, Buhтта, jabawr	Vijay	Composite Maize Yellow grain variety High Yielding Variety suitable for Mid Hills		Abundant	Abundant	High yeilding Variety	June- Oct	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
Wheat	<i>Triticum aestivum</i>	Kanak	HD-2967	150-155 cm		Abundant	Abundant	Dwarf High Yielding variety	Nov- Apr.	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- Apr.	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- Apr.	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	
	<i>Triticum aestivum</i>	Kanak	Sonalika	150-155 cm		Abundant	Rare	Dwarf High Yielding variety	Nov- Apr.	Food Fodder		Suitable of Plain & Mid Hills	Agri. Deptt.	

Rice	<i>Oryza sativa</i>	Dhan, Munji	PR-113	Suitable for Sub Tropical areas . Matures in 135 -140 day approx.		Abundant	Abundant	Dwarf High Yielding variety	June - Oct	Food Fodder		Suitable for Cultivation in Low land , Mid Hills Areas, Hot & Humid Climate	Agri. Deptt.	
	<i>Oryza sativa</i>	Dhan, Munji	IR-8	Plant Height 140-145 cm		Abundant	Abundant	Dwarf High Yielding variety	June - Oct	Food Fodder			Agri. Deptt.	
	<i>Oryza sativa</i>	Dhan, Munji	Jaya	Plant Height 140-145 cm		Abundant	Abundant	Dwarf High Yielding variety	June - Oct	Food Fodder			Agri. Deptt.	
	<i>Oryza sativa</i>	Dhan, Munji	Begumi	160-165 cm		Abundant	Rare	Tall in height , sweet in taste , High starch Content	June - Oct	Food Fodder	More Nutritive Value	Suitable of Plain & Mid Hills	Local	Pahari community
Pulses (Mash)	<i>Vigna mungo</i>	Maa/ Mash	T-9	Matures in 85-90 days. Suitable for plain & Mid hills		Abundant	Abundant	High yeilding Varity	June- Aug	Food	hight Protein contents	Suitable of Plain & Mid Hills	Agri. Deptt.	
Til	<i>Seasamum indicum</i>	til	Punjab til -1	White seed Variety . Matures in 80-85 days . Plant hight 1.3-1.6 mtr.		Abundant	Abundant	High yeilding Varity	June- Oct	Oil,		Suitable of Plain & Mid Hills	Agri. Deptt.	
Tomato	<i>Solanum lycopersicum</i>	Tamatar,	Kashi (DVRT-2)	Plant are Green, Fruit are red , spherical medium to large sized		Abundant	Abundant	First harvest at 70-75 days after transplanting . Resistant to TLCV.	Transplanting Jan to Mid Feb	Food	Resistant to TLCV.	Suitable of Plain & Mid Hills	Agri. Deptt.	
Knol khol	<i>Brassica oleracea</i>	Kadam	Purple Vienna	Cool & moist climate		Abundant	Abundant	Matures in 70-75 days.Knobs are purplish & fleshy greenish white.	mainly as a winter 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.	



Okra	<i>Abelmoschus esculentus Moench</i>	Bhindi	Pusa A-4	Dark green and fruit size 12-15 cm long		Abundant	Abundant	High yield Variety , tolerant to YVM and aphids, First picking starts in 45 days	Feb- March June- July (rainy season	Food		Suitable of Plain & Mid Hills	Agri. Deptt.	
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The format 1 could be used for documenting information about Millets, Cereals, Oil seeds, Commercial crops, Tuber crops, Vegetables, Legumes, Aromatic crops etc. The column No. 9 'other details' vary with the nature of crops. For measuring local status, there need to identify a particular year – significant changes in ecology occurred – and compare the status as past and present (past = before the particular incident). We have to list out all possible features of a crop/plant and give short forms of the same. If relevant, cultivation practices, propagation techniques, usage etc can be included in the column 8, in associated TK.

### Format 2: Fruit Plants

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market /own use	Community / Knowledge holder
					Past	Present						
Ber	<i>Zizyphus mauritiana</i>	Ber	Wild(unbudded)	agri.land	abundant	available	seeds/plants	feb-april			own use	
Karonda	<i>Carissa carandas</i>	Garna	Wild(unbudded)	agri.land	rare	rare	seeds/plants	mar-august			own use	
peach	<i>Prunis Persica</i>	Aado	Selection	agri.land	rare	rare	seeds/plants	mar-june			own use	
Toot	<i>Morus Indica</i>	shatoot	Wild(unbudded)	agri.land	abundant	available	plants	july-aug			own use	
Phagwari	<i>Fragarria nubicola</i>	Phagwoora	Wild(unbudded)	agri.land	abundant	rare	seeds/plants	april-june			own use	
Bael	<i>Aegle marmelos</i>	Bael	Wild(unbudded)	agri.land	rare	rare	seeds/plants	mar-june			own use	
Jamun	<i>Syzygium cumini</i>	Jamun	Desi, unbudded	agri.land	abundant	available	seeds	mar-july			own use	
Banana	<i>Musa paradisiaca</i>	Kela	Desi, unbudded	agri.land	available	rare	plants	july-aug			own use	
Mango	<i>Mangifera indica</i>	Aam	Desi, unbudded	agri.land	available	abundant	seeds/plants	mar-july			Market	
Guava	<i>Psidium guajava</i>	Ambrud	Desi, unbudded	agri.land	available	available	seeds/plants	aug-dec			Market	
Lemon	<i>Citrus aurantifolia</i>	nimbu	Desi, unbudded	agri.land	available	abundant	seeds/plants	nov-dec			Market	
Sweet Lime	<i>Citrus sinensis</i>	Metha	Desi, unbudded	agri.land	available	available	seeds/plants	april-may			own use	

Papaya	<i>Carica papaya</i>	Papita	Desi, unbudded	agri.land	available	available	seeds/plants	all season			own use	
Mandarin	<i>Citrus reticulata</i>	Sangtra	Desi, unbudded	agri.land	available	available	seeds/plants	april-sept			own use	
Grapes	<i>Vitis vinifera</i>	Angoor,dakh	Desi, unbudded	agri.land	rare	rare	plants	june-sept			own use	
Anola	<i>Phyllanthus embilica</i>	Amla	Desi, unbudded	agri.land	abundant	available	seeds/plants	oct-dec			Market	
Custard apple	<i>Annana reticulata</i>	Sita Phal	Desi, unbudded	agri.land	rare	rare	plants	aug-nov			own use	
Pear	<i>Pyris cammunis</i>	Nakh	Selection	agri.land	rare	rare	plants	aug-nov			own use	

**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 Plant / Seeds	Associate 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	<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	

**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 Option	Associated TK	Other details	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 Leaf 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	
shol		Shol	Paddy	Broad leaf and consumed the nutrients of the plants and reduces the production	floating on the water	Plenty	Plenty	Nil	Drying of paddy field as a result leafs dry	-	Hady and wider adoptability, multiply very fast	Pahari Community
Shama		Shama	Paddy	compete with nutritions, light and space with Paddy crop and reduces the production	Tall growing just like paddy	Plenty	Plenty	Nil	Use of weedicide	-	-	-

**FORMAT: 5 Pests of Crop**

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientific Name	Local name	Habitat	Time / Season of Attack	Management Mechanism	Associate TK	Other details	community / Knowledge Holder
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 they 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. Chlorpyrifos 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	
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	
	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 feeders.	
cole crops	Cabbage butterfly	<i>Pieris brassicae</i>	Titili	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 Trichogramma chilonis @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>	Titli	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.	
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**Format 6: Markets for Domesticated animals**

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

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
Mixed, 1873	Agriculture	Labour	---	---	---	---	---	---	---	---

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	Features and approx. Area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Agricultural land	Pond	Fallow Land											
Cultivated Land	Not Applicable	Not Applicable	Cultivated Land	423 Ha	Agricultural Lands are Privately Owned	Crop Plants	Snakes,Jackel,Fox ,Dogs Etc	Nil	Nil	Used for raising crops and Fodder for animals	N/A	Nil	Low-Income Community
Non-Cultivated	Not Applicable	Not Applicable	Non-Cultivated	445 Ha	Govt./Private	Plants,Some wild Plants	Insects,Cows,Fox,Dogs etc	Nil	Nil	Used for rearing Cattles	N/A	Nil	Low-Income Community
Non-Irrigated Land	Not Applicable	Not Applicable	Non-Irrigated Land	423 Ha	Govt./Private	Local Plants	Insects,Cows,Fox,Dogs etc	Nil	Nil	Used for Grazing Purposes	N/A	Nil	Low-Income Community

Note: The information Filled in by the Forest Deptt. is not exhaustive and the inputs from other concerned department may be incorporated for the detailed filled up of the PBR Formats.

**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
Nallas	Nil	Tributary of Khaad's	Panchayat and Govt.Deptt.	Wild and Aquatic Plants	Frog,Tadpoles, Toad,Crab,Fishes ,Water Snake etc	Irrigation	Farmers	Small Check Dams	For Irrigation, Sand and Gravel are used for Construction of Buildings etc	Nil	Nil	Local Villagers
Khaads	Nil	Originates from the foothills of Mountains	Govt. and Panchayat	Wild and Aquatic Plants	Frog,Tadpoles, Fishes,Water,W ater Snakes,Crabs etc	Irrigation	Farmers	Check Dams	For Irrigation and Drinking of Domesticated animals and Wild Animals	Nil	Nil	Local Villagers

Note: The information Filled in by the Forest Deptt. is not exhaustive and the inputs from other concerned department may be incorporated for the detailed filled up of the PBR Formats.

**Format 10: Soil type**

1	2	3	4	5	6	7	8
Soil Type	Color & Texture	Features	Soil management	Plants / crop suitable	Flora and fauna	Associated TK	Other information
Clay	Reddish,Brown,Fine Grained	Retain water	Recharges with canal bed silt,Leafy Manure ,animal waste,Compost	Paddy,Maize,Wheat,Mustard,Pulses,Fruit crop,Vegetables	Wheat,Maize,Tuni,Draink,etc. Snakes,Cows,Jacket,Fox etc	Nil	Nil
Sandy Clay	Brown & Gritty	Retains water	Recharged with tank bed silt,leafy manure,animal waste,composite	wheat,Barley,Lentil,Mustard,Maize, Beans and some Off-season vegetables	Fodder and Crop plants,Frog ,snakes,Jackel,Fox etc	Nil	Nil

## DOMESTICATED BIODIVERSITY

### Format 11: FRUIT TREES

1	2	3	4	6	7		8	9	10	11	12	13
Plant Type	Scientific Name	Local 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	<i>Mangifera indica</i>	Aam	Desi, unbudded	agri.land	available	abundant	seeds/plants	mar-july			Market	
Guava	<i>Psidium guajava</i>	Ambrud	Desi, unbudded	agri.land	available	available	seeds/plants	aug-dec			Market	
Lemon	<i>Citrus aurantifolia</i>	nimbu	Desi, unbudded	agri.land	available	abundant	seeds/plants	nov-dec			Market	
Jackfruit	<i>Artocarpus heterophyllus</i>	Kathal	Desi, unbudded	agri.land	rare	rare	seeds/plants	mar-august			own use	
Sweet Lime	<i>citrus sinensis</i>	Metha	Desi, unbudded	agri.land	available	available	seeds/plants	april-may			own use	
Papaya	<i>Carica papaya</i>	Papita	Desi, unbudded	agri.land	available	available	seeds/plants	all season			own use	
Mandarin	<i>Citrus reticulata</i>	Sangtra	Desi, unbudded	agri.land	available	available	seeds/plants	april-sept			own use	
Grapes	<i>Vitis vinifera</i>	Angoor,dakh	Desi, unbudded	agri.land	rare	rare	plants	june-sept			own use	
Anola	<i>Phyllanthus embilica</i>	Amla	Desi, unbudded	agri.land	abundant	available	seeds/plants	oct-dec			Market	

**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	Community/ Know.
						Past	Present					
Shrubs	Trimuru	<i>Zanthoxylum aurmatum</i>		Lower shiwalik	Seed	Abundant	Abundant	Good for Cleaning Teeths.	Stem / Seed	N.A	N.A	Generally, held by community
Shrubs	Drainkdu	<i>Murraya koenigii</i>		Lower shiwalik	Seed	Abundant	Abundant	Edible and Good for cleaning teeth	Leaves / Branches	N.A	N.A	Generally, held by community
Shrubs	Bana	<i>Vitex negundo</i>		Upper Shiwalik	Seed	Abundant	Abundant	Good for cleaning teeth	Branches	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Sub-Tropical area	Root	Abundant	Abundant	Medicinal use	Root	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Canabis sativia</i>		Lower shiwalik	Seed	Abundant	Abundant	Medicinal use	Leaves	N.A	N.A	Generally, held by community
Trees	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal use	Fruit	N.A	N.A	Generally, held by community
Trees	Bair	<i>Ziziphus xylocarpa</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal use	Fruit,Leaves	N.A	N.A	Generally, held by community
Trees	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal use	fruit	N.A	N.A	Generally, held by community
Trees	Bill-Patre	<i>Angle mermelos</i>		Lower shiwalik	Seed	Rare	Rare	Used in Poojas and posses medicinal properties	Leaves, Fruits	N.A	N.A	Generally, held by community

Trees	Jaman	<i>Syzygium cumini</i>		Lower shiwalik	Seed	Abundant	Abundant	Medicinal use and Edible	Fruit	Useful for Sugar Patients	N.A	Generally, held by community
Trees	Kakad-Singhi	<i>Pistacia khinjuk</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal Use	Fruit	N.A	N.A	Generally, held by community
Trees	Khair	<i>Acacia catechu</i>		Lower shiwalik	Seed	Abundant	Abundant	Medicinal Use	Stem	N.A	N.A	Generally, held by community
Trees	Kringal	<i>Casia fistula</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal use	Fruit	N.A	N.A	Generally, held by community
Trees	Retha	<i>Sapindus Mukorossii</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal use	Fruit	N.A	N.A	Generally, held by community
Trees	Arjun	<i>Terminalia arjuna</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal Use	Bark	Useful for Heart Patients	N.A	Generally, held by community
Climbers	Galoi	<i>Tinospora cordifolia</i>		Lower shiwalik	Seed	Abundant	Abundant	Medicinal Use	Whole Plant	N.A	N.A	Generally, held by community
<p>Note uses: Food/ Veterinary Medicine,/ Human Medicine (Sub-divisions like for children, women etc),/ Agricultural Purpose (Bio-pesticide) Other details: Propagation methods, / Harvesting period,/ Cultivated or collected from wild or both,/ Perennial/annual/seasonal</p>												



**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
Bushes/Shrubs	Nerium	<i>Nerium Oleander</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Epilepsy, cancer	Avenue plantation	Floriculturists/ Nurserymen/Gardeners
Bushes/Shrubs	Kaner	<i>Thevetia Peruviana</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Fevers	Flower most of the year	Floriculturists/ Nurserymen/Gardeners
Bushes/Shrubs	Bogan Bael	<i>B.Sp &amp; hybrids</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Antidiabetic, antiinflammatory	Multicoloured flowers	Floriculturists/ Nurserymen/Gardeners
Bushes/Shrubs	Golden Duranta	<i>Duranta repens</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Beneficial in itching, malaria, asthma etc.	Foliage, Edging	Floriculturists/ Nurserymen/Gardeners
Bushes/Shrubs	Hibiscus	<i>Hibiscus Rosasinensis</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Used in fever, constipation	Flower throughout the year	Floriculturists/ Nurserymen/Gardeners
Bushes/Shrubs	Motia	<i>Jasminum sambac</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Used in Hepatitis, dysentery	Flower throughout the year	Floriculturists/ Nurserymen/Gardeners
Herbs Seasonals	Guldopahar	<i>Portulaca Grandiflora</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Antioxidant, antibacterial	Summer annual flower	Floriculturists/ Nurserymen/Gardeners
Pot Plants	Agave	<i>Agave angustifolia</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Traditional medicines	Succulent	Floriculturists/ Nurserymen/Gardeners

**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					
Tree	Cambel	<i>Lannea coromandelica</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Drankh	<i>Melia azedarach</i>	Lower shiwalik	Abundance	Rare	Wild	own	nil	nil	Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>	Lower shiwalik	Abundance	Abundance	Wild	own	maintains sugar level in human body	nil	Generally, held by community
Tree	Kainth	<i>Pyrus paschia</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Kakuya	<i>Flacourtia indica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Tree	Kamla	<i>Malotus philippensis</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Khadak	<i>Celtis Tetrandra</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Kiker	<i>Acacia Nilotica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Tree	Mangoo	<i>Mangifera Indica</i>	Lower shiwalik	Abundance	Abundance	Wild/ home-garden	own	nil	nil	Generally, held by community
Tree	Ola	<i>Albizzia chinensis</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community

Tree	Pansra	<i>Wendlandia heynei</i>	Lower shiwalik	Rare	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundance	Wild	commercial	nil	nil	Generally, held by community
Tree	Sree	<i>Albizzia lebbeck</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Simbal	<i>Bombax ceiba</i>	Lower shiwalik	Abundance	Abundance	Wild	commercial	nil	nil	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>	Lower shiwalik	Abundance	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Popular	<i>Populus ciliata</i>	Lower shiwalik	Rare	Abundance	Wild	own	nil	nil	Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>	Lower shiwalik	Rare	Abundance	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>Olvis- aries</i>	Local	Small size, rough coat	Conventional & Traditional					Yes	Mutton, Wool, milk and skin. The department provides all the necessary medical facilities and scientific system of rearing	Yes
			Cross breed	Large size, fine wool, white face and white legs								
	Goat	<i>Capra-hircus</i>	Bakarwali/ Kaghani	Large size, white/Grey/brown/black Body, coat long hair								
			Beetal	Usually red or black pendulous ears								
			Beetal cross	Smaller size, shorter Ears								
Cow	Gaay	<i>Bos sps.</i>	Hybrid	High Fertility, High Milk yield	Domesticated	Available	Available	Milk+ Cow Dung	Highly Nutritious & complete diet	Yes	Nil	Self observed
			Local	Low milk yield adoptable to local climate condition		Available in Hilly Belt	Available in Hilly Belt		Highly Nutritious	No	Nil	Self observed
Buffalo	Bhains	<i>Bubalus sps.</i>	Local/upgraded	Black in colour/ moderate to high milk yield with high Fat %age	Domesticated	Available	Available	Milk+ Cow Dung	Considered more energetic due to High fat %age	Commercial in upgraded, Non commercial in local	Nil	Self observed
Ox	Bael	<i>Bos sps.</i>	Local/Hybrid	Ploughing & carriage	Domesticated	Available	Available	Plouging & Carriage		No	Nil	Self observed

dog	Kutta	<i>Canine sps.</i>	Local/Hybrid	Pet & stray	Domesticated & Stray	Available	Available	Guarding & watching		No	Nil	Self observed
horse/ Mules/Don key	Ghoda/ Khachar/ Gadha	<i>Equine Sps.</i>	Local/Hybrid	Pack animals, muscular body	Domesticated	Available	Available	Carriage & Cart Pulling		No	Nil	Self observed
Cat	Billi	<i>Felis sps.</i>	Local	Pet & stray	Domesticated & Free Roaming	less	less	No		No	Nil	Self observed
Poultry	Kukad/ Kukdi	<i>Gallus sps.</i>	Local/Hybrid	Dual purpose	Domesticated	Available	Available	Meat & egg Production		No	Nil	Self observed
Uses include milk, meat, skin, fur and etc												

### 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					
Warm water	Rohu	<i>Labeo</i>	IMC	Ellongated torpedo shaped body	Pond	Abundant	Govt./Private farms	Commercially important food fish	-	Reared in Private/Govt. Farms	Highly nutritious fish	Commercial Knowledge Holders/Sh Farmers/Maha geers
Warm water	Catla	<i>Catla-Catla</i>	IMC	Ellongated torpedo shaped body with big head	Pond	Abundant	Govt./Private farms	Commercially important food fish	-	Reared in Private/Govt. Farms	Highly nutritious fish	Commercial Knowledge Holders/Sh Farmers/Maha geers
Warm water	Mragg	<i>Cirrhinus mrigala</i>	IMC	Ellongated torpedo shaped body	Pond	Abundant	Govt./Private farms	Commercially important food fish	-	Reared in Private/Govt. Farms	Highly nutritious fish	Commercial Knowledge Holders/Sh Farmers/Maha geers
warm water& cold water	Grass carp	<i>Ctenopharyngon idella</i>	Exotic	Ellongated torpedo shaped body	Pond	Abundant	Govt./Private farms	Commercially important food fish used for weed control in ponds	-	Reared in Private/Govt. Farms	Highly nutritious fish	Commercial Knowledge Holders/Sh Farmers/Maha geers
warm water& cold water	Silver Carp	<i>Hypopthal michthys molitrix</i>	Exotic	Deep body littely compressed,silvery in colour	Pond	Abundant	Govt./Private farms	Commercially important food fish	-	Reared in Private/Govt. Farms	Highly nutritious fish	Commercial Knowledge Holders/Sh Farmers/Maha geers
warm water& cold water	Common Carp	<i>Cyprinus carpio</i>	Exotic	Deep body littely compressed with black lips barbels present	Pond	Abundant	Govt./Private farms	Commercially important food fish	-	Reared in Private/Govt. Farms	Highly nutritious fish	Commercial Knowledge Holders/Sh Farmers/Maha geers

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 Traditional Knowledge	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	Bair	<i>Ziziphus xylocarpa</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Bill-Patre	<i>Aegle marmelos</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	Abundance	Abundance	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	Abundance	Abundance	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	Abundance	Abundance	own	Leaves/Stem/Bark	nil	nil	Generally, held by community
Trees	Drankh	<i>Melia azedarach</i>	Trees	Lower shiwalik	Abundance	Rare	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Fakwara	<i>Ficus palmata</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Guaid	<i>Spermadictyon suaveolens</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Trees	Guvava	<i>Psidium Guajava</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	posses medicinal properties	nil	Generally, held by community



Trees	Jaman	<i>Syzygium cumini</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	maintains sugar level in human body	nil	Generally, held by community
Trees	Kainth	<i>Pyrus paschia</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Trees	Kakad-Singhi	<i>Pistacia khinjuk</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Kakuya	<i>Flacourtia indica</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Kamla	<i>Malotus philippensis</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Trees	Kandla	<i>Premna Serratifolia</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Karal	<i>Bauhinia variegata</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves/Flower	nil	nil	Generally, held by community
Trees	Khadak	<i>Celtis Tetrandra</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Trees	Khair	<i>Acacia catechu</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Khajur	<i>Phoenix Sylvestris</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Trees	Khini	<i>Ficus semicordata</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Khroo	<i>Trema Palitoria</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Kiker	<i>Acacia Nilotica</i>	Trees	Lower shiwalik	Rare	Rare	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	Abundance	Abundance	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	Abundance	Abundance	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	Abundance	own	Stem	nil	nil	Generally, held by community
Trees	Plash	<i>Butea monosperma</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Prag	<i>Alnus nitida</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Stem	nil	nil	Generally, held by community
Trees	Rada	<i>Catunaregum spinosa</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	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	Reu	<i>Cotoneaster Bacilleris</i>	Trees	Lower shiwalik	Rare	Rare	own		nil	nil	Generally, held by community
Trees	Rumbal	<i>Ficus racemosa</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Trees	Lower shiwalik	Rare	Abundance	commercial	Stem	nil	nil	Generally, held by community
Trees	Sree	<i>Albizzia lebbeck</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Simbal	<i>Bombax ceiba</i>	Trees	Lower shiwalik	Abundance	Abundance	commercial	Leaves/Stem	nil	nil	Generally, held by community
Trees	Sumi	<i>Glochidion velutinum</i>	Trees	Lower shiwalik	Rare	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Talli	<i>Dalbergia sissoo</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Stem	nil	nil	Generally, held by community
Trees	Tantra	<i>Oroxylum indicum</i>	Trees	Lower shiwalik	Rare	Rare	own		nil	nil	Generally, held by community
Trees	Tooth	<i>Morus alba</i>	Trees	Lower shiwalik	Rare	Abundance	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	Abundance	Abundance	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	Rean	<i>Litsea chinensis</i>	Trees	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Trees	Makora	<i>Lonicera quinquelocularis</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community

Trees	Oan	<i>Lyonia ovalifolia</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Sukhchain	<i>Pongamia pinnata</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Popular	<i>Populus ciliata</i>	Trees	Lower shiwalik	Rare	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Arjun	<i>Terminalia arjuna</i>	Trees	Lower shiwalik	Rare	Abundance	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
Trees	Kau	<i>Olea cuspidata</i>	Trees	Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Shrubs	Sentha	<i>Dodonea Viscosa</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrubs	Trimuru	<i>Zantho Xylum Aurmatum</i>	Shrubs	Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Shrubs	Kimb	<i>Citrus Karna</i>	Shrubs	Lower shiwalik	Rare	Abundance	own	Fruit	nil	nil	Generally, held by community
Shrubs	Gandera	<i>Thevetia peruviana</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own		nil	nil	Generally, held by community
Shrubs	Anardana	<i>Punica granatum</i>	Shrubs	Sub-Tropical area	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Shrubs	brankad	<i>Adha toda vesica</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Flower	nil	nil	Generally, held by community
Shrubs	Drinkdu	<i>Murraya koenigii</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrubs	Dussa	<i>Colebrookia oppositifolia</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrubs	Bana	<i>Vitex negundo</i>	Shrubs	Upper Shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrubs	Akk	<i>Ipomea fistulosa</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own		nil	nil	Generally, held by community
Shrubs	Akk Datura	<i>Calotropis procera</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Fruit	nil	nil	Generally, held by community
Shrubs	Garna	<i>Carissa opaca</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	nil	nil	Generally, held by community
Shrubs	Thor/Shuu	<i>Euphorbia royleana</i>	Shrubs	Lower shiwalik	Rare	Rare	own	Stem	nil	nil	Generally, held by community

Shrubs	Aakhe	<i>Rubus ellipticus</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Fruit	nil	nil	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>	Shrubs	Sub-Tropical area	Abundance	Abundance	own	Root	posses medicinal properties	nil	Generally, held by community
Shrubs	Bhang	<i>Canabis sativia</i>	Shrubs	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Herbs	Dudlu	<i>Taraxacum officinale</i>	Herbs	Temperate area	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>	Herbs	Lower shiwalik	Abundance	Abundance	own	Root	nil	nil	Generally, held by community
Herbs	Jungli putna	<i>Mentha arvensis</i>	Herbs	Lower shiwalik/Temperate area	Abundance	Abundance	own	Leaves	posses medicinal properties	nil	Generally, held by community
Herbs	Banfsha	<i>Viola odorata</i>	Herbs	Lower shiwalik/Temperate area	Abundance	Abundance	Commercial	Flower	posses medicinal properties	nil	Generally, held by community
Grasses	Bamboo	<i>Dendrocalamus Strictus</i>	Grasses	Lower shiwalik	Abundance	Abundance	commercial	Leaves	nil	nil	Generally, held by community
Grasses	Drub/Khabbal	<i>Cyanodon dactylon</i>	Grasses	Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Grasses	Monja	<i>Saccharum benghalense</i>	Grasses	Temperate area	Rare	Rare	own	Stem	nil	nil	Generally, held by community
Grasses	Kai/Kaana	<i>Saccharum spontaneum</i>	Grasses	Lower shiwalik	Abundance	Abundance	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	Galoi	<i>Tinospora cordifolia</i>	Climbers	Lower shiwalik	Abundance	Abundance	own	Stem	nil	nil	Generally, held by community

**Format 19: Wild Plant Species of Importance**

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

17	Talli	<i>Dalbergia sissoo</i>		economic	Abundance
18	Trimbal	<i>Ficus auriculata</i>		economic	Abundance
19	Trimuru	<i>Zantho Xylum Aurmatum</i>		economic	Rare
20	Tuni	<i>Toona ciliata</i>		economic	Rare
21	Jatrofa	<i>Jatropha Curcas</i>		economic	Abundance
22	Arjun	<i>Terminalia arjuna</i>		economic	Abundance
23	brankad	<i>Adha toda vesica</i>		economic	Abundance
24	Drinkdu	<i>Murraya koenigii</i>		economic	Abundance
25	Dussa	<i>Colebrookia oppositifolia</i>		economic	Abundance
26	Bana	<i>Vitex negundo</i>		cultural	Abundance
27	Kau	<i>Olea cuspidata</i>		economic	Rare
28	Akk Datura	<i>Calotropis procera</i>		Cultural	Abundance
29	Dudlu	<i>Taraxacum officinale</i>		cultural	Rare
30	Thor/Shuu	<i>Euphorbia royleana</i>		economic	Rare
31	Bareyan	<i>Acorus calamus</i>		economic	Rare
32	Bhang	<i>Canabis sativia</i>		economic	Abundance
33	Tarad	<i>Dioscorea belophylla</i>		economic	Abundance
34	Jungli putna	<i>Mentha arvensis</i>		Medicinal	Abundance
35	Galoi	<i>Tinospora cordifolia</i>		Medicinal	Abundance
36	Banfsha	<i>Viola odorata</i>		Medicinal	Abundance

**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	<i>Oxygaster bacaila</i>	Fish	cutting abdomen	slow moving nullas	Abundant	Abundant	Edible	fishermen use them as bait for other big fishes	N.A.	Generally, held by Local Fisherman
Pathrili Chaahl	<i>Barilius spp.</i>	Fish	cutting abdomen	slow moving nullas	Abundant	Abundant	Edible	N.A.	N.A.	Generally, held by Local Fisherman
Bootal	<i>Crossocheilus diplochilus</i>	Fish	Large snout	Rivers	Abundant	Abundant	Edible	N.A.	N.A.	Generally, held by Local Fisherman
Sol	<i>Channa marulius</i>	Fish	Black ocellus on the caudal fin	muddy and slow moving nulla	Abundant	Abundant	Edible	N.A.	N.A.	Generally, held by Local Fisherman
Garoj	<i>Mastacembelus armatus</i>	Fish	Shy in nature, generally hidden under stones	Rivers	Abundant	Abundant	Edible	N.A.	N.A.	Generally, held by Local Fisherman
Tarakla	<i>Xenentodon cancila</i>	Fish	swims like an arrow on the surface of water	slow moving nullas	Abundant	Abundant	Edible	N.A.	N.A.	Generally, held by Local Fisherman

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	Nadru	<i>Nelumbo nucifera</i>		Edible Vegetable	
2		<i>Hydrilla</i>		Resistance to high salinity in water	
3	Nappa	<i>Nymphaea</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					
Herb	Dudlu	<i>Taraxacum officinale</i>		Temperate area	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Herb	Brahmi Bhutti	<i>Centella asiatica</i>		Lower shiwalik	Abundance	Abundance	commercial	Leaves	posses medicinal properties	nil	Generally, held by community
Herb	Jungli putna	<i>Mentha arvensis</i>		Lowershiwalik/ Temperate area	Abundance	Abundance	own	Leaves	posses medicinal properties	nil	Generally, held by community
Shrub	Trimuru	<i>Zantho Xylum Aurmatum</i>		Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Shrub	Jafkota	<i>Jatropha Curcas</i>		Lower shiwalik	Rare	Abundance	own		nil	nil	Generally, held by community
Shrub	Kimb	<i>Citrus Karna</i>		Lower shiwalik	Rare	Abundance	own	Fruit	nil	nil	Generally, held by community
Shrub	Gandera	<i>Thevetia peruviana</i>		Lower shiwalik	Abundance	Abundance	own		nil	nil	Generally, held by community
Shrub	brankad	<i>Adha toda vesica</i>		Lower shiwalik	Abundance	Abundance	own	Flower	nil	nil	Generally, held by community
Shrub	Drainkdu	<i>Murraya koenigii</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrub	Dussa	<i>Colebrookia oppositifolia</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrub	Bana	<i>Vitex negundo</i>		Upper Shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Shrub	Akk	<i>Ipomea fistulosa</i>		Lower shiwalik	Abundance	Abundance	own		nil	nil	Generally, held by community
Shrub	Akk Datura	<i>Calotropis procera</i>		Lower shiwalik	Abundance	Abundance	own	Fruit	nil	nil	Generally, held by community
Shrub	Garna	<i>Carissa opaca</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	nil	nil	Generally, held by community
Shrub	Thor/Shuu	<i>Euphorbia royleana</i>		Lower shiwalik	Rare	Rare	own	Stem	nil	nil	Generally, held by community
Shrub	Aakhe	<i>Rubus ellipticus</i>		Lower shiwalik	Abundance	Abundance	own	Fruit	nil	nil	Generally, held by community
Shrub	Bareyan	<i>Acorus calamus</i>		Sub-Tropical area	Abundance	Abundance	own	Root	posses medicinal properties	nil	Generally, held by community

Shrub	Bhang	<i>Canabis sativa</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Aaran	<i>Prunus Persica</i>		Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Tree	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Rare	Rare	own	Fruit	posses medicinal properties	nil	Generally, held by community
Tree	Baadh	<i>Ficus religiosa</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Bair	<i>Ziziphus xylocarpa</i>		Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Bill-Patre	<i>Angle mermelos</i>		Lower shiwalik	Rare	Rare	own	Fruit	posses medicinal properties	nil	Generally, held by community
Tree	Cambel	<i>Lannea coromandelica</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Charmood	<i>Ehretia laevis</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Cheundi	<i>Xylosma longifolium</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Chilla	<i>Casearia tomentosa</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Dhaman	<i>Grewia optiva</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/ Stem/Bark	nil	nil	Generally, held by community
Tree	Drankh	<i>Melia azedarach</i>		Lower shiwalik	Abundance	Rare	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Fakwara	<i>Ficus palmata</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Flai	<i>Acacia Modesta</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Galdey	<i>Rhamnua triquetra</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Guaid	<i>Spermadictyon suaveolens</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Guvava	<i>Psidium Guajava</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	posses medicinal properties	nil	Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>		Lower shiwalik	Rare	Rare	own	Stem/Fruit	Good for digestion	nil	Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Fruit	maintains sugar level in human body	nil	Generally, held by community

Tree	Kainth	<i>Pyrus paschia</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Kakad-Singhi	<i>Pistacia khinjuk</i>		Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Kakuya	<i>Flacourtia indica</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Kamla	<i>Malotus philippensis</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Kandla	<i>Premna Serratifolia</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Flower	nil	nil	Generally, held by community
Tree	Khadak	<i>Celtis Tetrandra</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Khad-Manju	<i>Neolitsea Pallens</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Khair	<i>Acacia catechu</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Khajur	<i>Phoenix Sylvestris</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Khini	<i>Ficus semicordata</i>		Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Khroo	<i>Trema Palitoria</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Kiker	<i>Acacia Nilotica</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Kringal	<i>Casia fistula</i>		Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Tree	Laana	<i>Ficus hispida</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Laseni	<i>Leucaena leucocephala</i>		Lower shiwalik	Rare	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Mangoo	<i>Mangifera Indica</i>		Lower shiwalik	Abundance	Abundance	own	Stem/Fruit	nil	nil	Generally, held by community
Tree	Ola	<i>Albizzia chinensis</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Pansra	<i>Wendlandia heynei</i>		Lower shiwalik	Rare	Abundance	own	Stem	nil	nil	Generally, held by community
Tree	Plash	<i>Butea monosperma</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community

Tree	Prag	<i>Alnus nitida</i>		Lower shiwalik	Abundance	Abundance	own	Stem	nil	nil	Generally, held by community
Tree	Pulla	<i>Kydia calycina</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Punna	<i>Ehretia acuminata</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Rada	<i>Catunaregum spinosa</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Retha	<i>Sapindus Mukorossii</i>		Lower shiwalik	Rare	Rare	own	Fruit	nil	nil	Generally, held by community
Tree	Reu	<i>Cotoneaster Bacilleris</i>		Lower shiwalik	Rare	Rare	own		nil	nil	Generally, held by community
Tree	Rumbal	<i>Ficus racemosa</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Safeda	<i>Eucalyptus spp.</i>		Lower shiwalik	Rare	Abundance	commercial	Stem	nil	nil	Generally, held by community
Tree	Sree	<i>Albizzia lebbeck</i>		Lower shiwalik	Abundance	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Simbal	<i>Bombax ceiba</i>		Lower shiwalik	Abundance	Abundance	commercial	Leaves/Stem	nil	nil	Generally, held by community
Tree	Sumi	<i>Glochidion velutinum</i>		Lower shiwalik	Rare	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>		Lower shiwalik	Abundance	Abundance	own	Stem	nil	nil	Generally, held by community
Tree	Tantra	<i>Oroxylum indicum</i>		Lower shiwalik	Rare	Rare	own		nil	nil	Generally, held by community
Tree	Tooth	<i>Morus alba</i>		Lower shiwalik	Rare	Abundance	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>		Lower shiwalik	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>		Lower shiwalik	Abundance	Abundance	own	Stem	nil	nil	Generally, held by community
Tree	Badoo	<i>Ficus Banglensis</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Rean	<i>Litsea chinensis</i>		Lower shiwalik	Abundance	Abundance	own	Leaves	nil	nil	Generally, held by community
Tree	Makora	<i>Lonicera quinquelocularis</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Oan	<i>Lyonia ovalifolia</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Sukhchain	<i>Pongamia pinnata</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community

Tree	Popular	<i>Populus ciliata</i>		Lower shiwalik	Rare	Abundance	own	Leaves/Stem	nil	nil	Generally, held by community
Tree	Sanan	<i>Desmodium oegensis</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Froh	<i>Grewia sapida</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>		Lower shiwalik	Rare	Abundance	own	Leaves/Bark	nil	nil	Generally, held by community
Tree	Chuntar	<i>Bischofia javanica</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Tree	Kau	<i>Olea cuspidata</i>		Lower shiwalik	Rare	Rare	own	Leaves	nil	nil	Generally, held by community

Note: Uses: Food/Veterinary Medicine/Human Medicine (Sub-divisions like for children, women etc)/Agricultural Purpose (Bio-pesticide) Other details: Harvesting period /Perennial/annual/seasonal

**Format 23: Wild relatives of Crops**

1	2	3	4	5	6	7	8	9	10
Local Name	Scientific Name	Associated crop	Landscape / Habitat	Local Status	Uses ( usage)	Part Used	Associated TK	Other details	Community / Know holder
Flai	<i>Acacia Modesta</i>	Kikker	Scattered in forest	Rare	Fodder	leaf/branches	Good for Teeth Healing		Generally, held by community
Jungli putna	<i>Mentha arvensis</i>	Putna	Along the Nalla's	Abundance	Medicinal use	Leaf	Medicinal Properties		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	Generally, held by community
kringal	<i>Casia fistula</i>		Lower shiwalik	Non-Commercial	N.A	N.A	Generally, held by community
Gandera	<i>Nerium oleander</i>		Lower Shiwalik	Non-Commercial	N.A	N.A	Generally, held by community
Thub	<i>Erythrina indica</i>		Lower Shiwalik and Plains	Non-Commercial	N.A	N.A	Generally, held by community
Badah	<i>Salix alba</i>		Lower Shiwalik and Plains	Non-Commercial	N.A	N.A	Generally, held by community

**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
Shrub	Trimuru	<i>Zantho Xylum Aurmatum</i>		Forest	Rare	use for teeth Cleaning/Medicinal Purpose	Fruit,Branches	N.A	N.A	Generally, held by community
	brankad	<i>Adha toda vesica</i>		Locally present	Abundance	Medicinal purpose	Flower	N.A	N.A	Generally, held by community
	Drainkdu	<i>Murraya koenigii</i>		Locally present	Abundance	Edible	Leaf	N.A	N.A	Generally, held by community
	Bana	<i>Vitex negundo</i>		Locally present	Rare	use for teeth Cleaning	Branches	N.A	N.A	Generally, held by community
Tree	Flai	<i>Acacia Modesta</i>		Forest	Rare	Medicinal purpose	Branches	N.A	N.A	Generally, held by community
	Kiker	<i>Acacia Nilotica</i>		Forest	Rare	use for teeth Cleaning	Branches	N.A	N.A	Generally, held by community



**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				
Drankh	<i>Melia azedarach</i>	Lower shiwalik	Abundance	Rare	own	nil	nil	Generally, held by community
Jaman	<i>Syzygium cumini</i>	Lower shiwalik	Abundance	Abundance	own	maintains sugar level in human body	nil	Generally, held by community
Khair	<i>Acacia catechu</i>	Lower shiwalik	Abundance	Abundance	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	Abundance	Abundance	own	nil	nil	Generally, held by community
Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundance	commercial	nil	nil	Generally, held by community
Sree	<i>Albizia lebeck</i>	Lower shiwalik	Abundance	Abundance	own	nil	nil	Generally, held by community
Simbal	<i>Bombax ceiba</i>	Lower shiwalik	Abundance	Abundance	commercial	nil	nil	Generally, held by community
Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundance	Abundance	own	nil	nil	Generally, held by community
Tooth	<i>Morus alba</i>	Lower shiwalik	Rare	Abundance	own	nil	nil	Generally, held by community
Tuni	<i>Toona ciliata</i>	Lower shiwalik	Abundance	Abundance	own	nil	nil	Generally, held by community
Popular	<i>Populus ciliata</i>	Lower shiwalik	Rare	Abundance	own	nil	nil	Generally, held by community
Kau	<i>Olea cuspidata</i>	Lower shiwalik	Rare	Rare	own	nil	nil	Generally, held by community
Chir	<i>Pinus roxburghii</i>	Lower & Upper shiwalik	Abundance	Abundance	own	nil	Resin	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	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	Indian Hare (khargosh)	<i>Lepus negricolis</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Mammals	Barking Deer (Kakkarh)	<i>Muntiacus moutjak</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
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	Black Partridge	<i>Francolinus francolinus</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	White Backed Bengal Vultures	<i>Psuedogypes bengalensis</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	Jungle Crow	<i>Corvous marcorhynchos</i>	Forest	-	-	-	-	-	-	-	-	Generally, held by community
Birds	House Crow	<i>Corvous 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	Indian Myna	<i>Acridotheres tristis</i>	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>Milouismegrans</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>Saxicoloides 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	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
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		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
Amphibians	Mendak/meenk	<i>Rana tigrina</i>	Pond/Land		Rainy Season		-	-	-	-	-	Generally, held by community
Amphibians	Toad/Dadu	<i>Buff melanostictus</i>	Pond/Land		Rainy Season		-	-	-	-	-	Generally, held by community

**URBAN BIODIVERSITY**

**Format 29: Flora**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Sr. No.</b>	<b>Local Name</b>	<b>Scientific Name</b>	<b>Type of Plants</b>	<b>Habitat</b>	<b>Flowering Season</b>	<b>Remarks (Rare / Common etc.)</b>



**Format 30: Fauna**

1	2	3	4	5	6
Sr. No.	Local Name	Scientific Name	Type of Animals (Mammals / Birds / Fish / Insect etc.)	Habitat	Remarks (Rare / Common etc.)
NA	NA	NA	NA	NA	NA

**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

<b>Format 31: Any other information of local importance</b>		
<b>1</b>	<b>2</b>	<b>3</b>
<b>Sr. No.</b>	<b>Information of local importance</b>	<b>Remarks</b>
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*End of Part II*