

## Peoples' Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: KATHAR LOWER

Taluk/Tehsil: Dansal

District: Jammu

State/UT: Jammu And Kashmir

Geographical Area of the panchayat Samiti:

Population Of the Panchayat samiti...Total

Male=

Female =

Habitat and Topography: plain areas

Climate (Rainfall, Temperature and other weather patterns): Moderate

Land Use (Nine fold classification available with village records): agriculture and horticulture

Date, Month and Year of PBR preparation 9 oct 2022

## 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:	Kanta devi
Age:	41
Gender:	Female
Address:	KATHAR LOWER
Area of specialization:	
2) Name:	NEHA SHARMA
Age:	40
Gender:	FEMALE
Address:	KATHAR LOWER
Area of specialization:	
3) Name:	SUSHMA DEVI
Age:	41
Gender:	FEMALE
Address:	KATHAR LOWER
Area of specialization:	
4) Name:	RASHPAL CHAND
Age:	35
Gender:	MALE
Address:	KATHAR LOWER
Area of specialization:	
5) Name:	RAKESH KUMAR
Age:	32
Gender:	MALE
Address:	KATHAR LOWER
Area of specialization:	
6) Name:	SHAM SINGH
Age:	44
Gender:	MALE
Address:	KATHAR LOWER
Area of specialization:	
7) Name:	PARSHOTAM KUMAR
Age:	30
Gender:	MALE
Address:	KATHAR LOWER

Area of specialization:	
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## 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

Name: Joginder singh

Age: 55

Gender: male

Address: kathar lower

Area of Specialization: bone injury

Location from which the person accesses biological material: forest

Perception of the practitioner on the resource status: satisfactory

Medicinal use:

Name: Bansilal

Age: 70

Gender: male

Address: kathar lower

Area of Specialization: vaid

Location from which the person accesses biological material: forest

Perception of the practitioner on the resource status: satisfactory

Medicinal use:

Name: Liaquat ali

Age: 70

Gender: Male

Address: Basoo

Area of Specialization: Livestock

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**

Name: Kanta Devi

Age: 45

Gender: Female

Address: Kathar Lower

Area of specialization: Agriculture

Name: Chetan Kumar

Age: 44

Gender: Male

Address: Kathar Lower

Area of specialization: Forestry

Name:

Age:

Gender:

Address:

Area of specialization:

Name:

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**

S.No	Name and address of the person/ institution/ company/ others	Local and Scientific Name of the biological material accessed and quantity	Date and resolution of the BMC and endorsement by the panchayat	Details of collection fee imposed	Anticipated mode of sharing benefits or quantum of benefits shared
	Nil	Nil	Nil	Nil	Nil

### Format 1 Crop Plants

S.No	Crop	Scientific Name	Local Name	Description of the variety	Landscape / Habitat	Local status		Special features	Uses	Associated TK	Other details	Cropping Season	Source of Seeds / Plants	Community / Known. Holder
						Past	Present							
2	Maize	<i>Zea mays</i>	Maka	Dekalb double	Sub tropical / Upland	Rare	Plenty	Tall, high yielding with yellow in colour)	Food & Fodder	Provides energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				K-517		Plenty	Rare	Average tall with yellow in colour						
				Ujala		Normal	Plenty							
				K-612		Plenty	Normal							
				Pro Agro-4794		Plenty	Normal							
3	Moong	<i>Vigna radiata</i>	Moong	PDM-54	Hot / Humid of Sub tropical region	Normal	Rare	Medium	Food	Source of Vegetable Protein	Also suitable for green Manuring	Summer/Kharif	Farmers / Department/ Private Suppliers	Farmers
				SML-668		Normal	Plenty	High yielding Variety						
				IPM-0203		Normal	Rare	Excessive vegetative growth						



4	Mash	<i>Vigna mungo</i>	Mhaa	PU-19	Warm / Humid of Sub tropical region	Normal	Normal	High yielding Variety	Food	Source of Vegetable Protein	-	Summer/Kharif	Farmers / Department/ Private Suppliers	Farmers
				Utra		Normal	Normal							
5	Bajra	<i>Pennisetum americanum</i>	Bajra	Local Variety	Warm / Humid climate under Sandy loam Soil	Normal	Normal	Tall & low Yielding variety	Food & Fodder	Source of Energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				MHB-110		Normal	Normal							
6	Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PBW644	Cool Climate during early part of its growth	Plenty	Averagee	High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Private Suppliers	Farmers
7	Lentil	<i>Lens esculantum</i>	Masar	PL406	Cool & dry	Normal	Normal	High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers
8	Chick-pea	<i>Cicer arietinum</i>	Chana	GNG-469/C 235	Cool & dry	Normal	Normal	High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers
9	Peas	<i>Pisum sativum</i>	Matar	Rachna	Cool & dry	Normal	Normal	Early maturing & High yielding	Food	Source of Protein/Energy	Used as Vegetable	Rabi	Farmers / Department/ Private Suppliers	Farmers
10	Onion	<i>Allium cepa</i>	Gamd	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas	Abundant	Abundant	Bulbs Cash Crop	Vegetables	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Private Suppliers	
11	Mustard	<i>Brassica juncea/ Brassica compestris</i>	Sarson	Pusa Bold/ KOS - 1	Cool & dry	Normal	Normal	Matures in 145-150 days with 40-42 % oil content	oil for Food	Source of energy i	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers

12	Gobhi Sarson	<i>Brassica napus</i>	Gobhi Saria	GSL-1,DGS-1,Local	Cool & dry	Normal	Abundant	Annual Herb,yellow flowers bearing Pods	oil for Food,leaves used as vegetable	Source of energy i,calciam,copper,potassium	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
13	Linseed	<i>Linum usitatissimum</i>	Alsi	LC 54	Cool & dry	Normal	Normal	Medium duration	Food & fiber	Source of energy in the shape of Oil	Medicinal,industrial & domestic use	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
14	Potato	<i>Solamum tuberosum</i>	Aalo	Kufri Sindhuri,Kufri Badsha, local	Potato is an herbaceous annual,requires cool weather,mostly rainfed conditions	Abundant	Abundant	Tubers are round to ovoid, creamish white to light red in colour with shallow eyes	Under ground tubers are used as vegetable,chips etc	-	High carbohydrate,provide high n energy value	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
15	Toria	<i>Brassica j. rape cv.toria</i>	Toria	RSPT-1,RSPT-2,Local var.	Cool & dry with bright sunshine	Normal	Normal	Short durationAnnual Herb	oil for preperation of Food	Source of energy i,calciam,copper,potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Privaate Suppliers	Farmers
16	Sesame	<i>Sesamum indicum</i>	Til	Punjab Til No.1/local	Warm / Humid of Sub tropical region	Normal	Rare	Medium Yielding	Food	Source of Vegetable oil	Religiuos and medicinal value	June - Oct.	Farmers / Department/ Privaate Suppliers	Farmers
17	Sugarcane	<i>Saccharum officinarum</i>	Ganna	COJ-64,COJ-81	Sub Tropical	Rare	Rare	Long duration crop for Nine months	Food	Source of energy in the shape of Gur/Sugar	Sugar cane Juice used as prefered drink for instant source of energy during summer besides beating heat	Spring season	Farmers / Department/ Privaate Suppliers	Farmers
18	Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropica/sub tropical vegetable,grows well warm humid conditions	Abundant	Abundant	Pungency and flavor	Used as spice ,medicinal value	-	Contains good ammount of vitamin A&C	winter season	Farmers / Department/ Privaate Suppliers	Farmers

19	Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa rubi,Pusa early dwarf, Manisha Plus/local	Warm season crop	Abundant	Abundant	Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,salad, soup,Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
20	Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropical Hot and humid climate	Abundant	Abundant	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dietary fibers,protein and carbohydrates	Summer/Kharif	Farmers / Department/ Privaate Suppliers	Farmers
21	Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local,JL	Grows in all climatic conditions,Tropical,Sub tropical &temprate	Abundant	Abundant	Limbing annual bearing elongated thick cylendrical fruit	Mainly used as salad	-	It also used as antipyretic and causing cooling effect	Summer/Kharif	Farmers / Department/ Privaate Suppliers	Farmers
22	Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer &rainy season crop	Abundant	Abundant	Vines vigrous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/kharif	Farmers / Department/ Privaate Suppliers	Farmers
23	Bitter gourd	<i>Momordica charantia</i>	karela	Pusa Domausmi/Kundan	Warm and Humid climate	Abundant	Abundant	Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maitaining low suger level	Summer/kharif	Farmers / Department/ Privaate Suppliers	Farmers
24	Beans	<i>Phaseolus Spp.</i>	Phaliya	Contender	Cool weather crop/Sandy/loamy soil	Abundant	Abundant	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High vale protein,Vitamine B1,B2<B6 and Maganese	Summer season	Farmers / Department/ Privaate Suppliers	Farmers
25	Cauliflower	<i>Brassica oleraceae var.botrytis</i>	Fol gobi	Pusa snow ball,Pusa Katki,local Girja	Both sub tropical &intermediate	Abundant	Abundant	White and tender head ,curdformed from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein,carbohydrate,phasphorus& iron	Rabi	Farmers / Department/ Privaate Suppliers	Farmers

26	Cabbage	<i>Brassica oleraceae var. capitata</i>	Band gobi	Golden Acre, Pride of India, Green Flesh	Both sub tropical & intermediate	Abundant	Abundant	Round head with light to dark green colour	Head Mainly used as vegetable, salad	-	Also good source of protein, carbohydrate, phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
27	Knol khol	<i>Brassica oleraceae var. gongyloides</i>	Kadam	White vienna, Purple vienna	cool & moist climate/sub tropical	Abundant	Abundant	Swollen stem green/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Private Suppliers	Farmers
28	Spanich	<i>Spinacea oleracea</i>	Palak	All Green, Delta	Cool season Crop, thrives well on well drained loam soils	Abundant	Abundant	Tender green leaves & root used as Vegetable	Tender green leaves used as leafy Vegetable	-	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Private Suppliers	Farmers
29	Radish	<i>Raphanus sativus</i>	Mulli	Japanes White, Koren Etc	Cool season Crop, thrives well on well drained Sandy loam soils	Abundant	Abundant	Tender green leaves & roots used as Vegetable	Modified Roots are used as Vegetabke & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Private Suppliers	Farmers
30	Carrot	<i>Daucus carota</i>	Gajer	Pusa Kesar, local	Cool & moist climate/ sub tropical & intermedite	Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable, Salad, Juice, Sweet Dish, Preserve etc.	-	Good source of carotene, lutein, and zeaxanthin. Vit A, C, B6, Folic acid	Rabi	Farmers / Department/ Private Suppliers	Farmers
31	Turnip	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool & moist climate/sub tropical & intermedite	Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable, Salad, .	-	Good source of Vit. C, Diatry Fiber & Potasium	Rabi	Farmers / Department/ Private Suppliers	Farmers

32	Exocitic Vegetables	<i>Broccoli// Chinese Cabbage / Capsicum etc.</i>		Prevelent Hybrid varieties	Cool &moist climate/sub tropical&intermedite	Rare	Abundant	All Plants Carts and Fruits are eadable Ric Source of antioxidants	Salad and Vegetable		Ric Source of Multivitamins, Minerals and Antioxidents	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
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**Format 2: Fruit Plants**

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						
Mango	<i>Mangifera indica</i>	Aam	Desi, Dusheri, Malta	Plains	Plenty	Plenty	Nurseries	Jun-Aug		Fruit, Pickle, Preserves	Marketing, Own Use	
Citrus Fruit	<i>Citrus spp.</i>	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	Local Selection, Kagzi Lime etc.	Plains, mid hills	Plenty	Average	Nurseries	Through Out Year		Fruit, Pickle, Squashes etc	Marketing, Own Use	
Guava	<i>Psidium guajava</i>	Amrood	Local, L49 etc.	Plains, Lower Hills	Plenty	Average	Nurseries	Jul - Aug		Fruit	Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Anjoor	Local Dakh, Perlette	Plains, Mid Hills	Rare	Plenty	Nurseries	Jul - Aug		Fruit		
Aonla	<i>Phyllanthus emblica</i>	Ambla	Local Selection, NA-7	Plains	Plenty	Rare	Nurseries, Local Collections	Nov.- Dec		Pickling Preserve etc	Marketing, Own Use	
Ber	<i>Ziziphus mauritiana lamk</i>	Ber	Gola, Varanasi	Plains	Plenty	Rare	Local	Jul - Aug		Fruit	Own Use	
Jamun	<i>Syzygium cumini</i>	Jamun	Local Selection	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug		Fruit	Own Use	
Pomegranate	<i>Punica granatum</i>	Anaar, Druni	Ganesh, Kandhari, Local	Plains, Mid hills	Rare	Rare	Nurseries, Local Raised, Wild	May - Aug		Fruit, Anardana	Own Use	
Pear	<i>Pyrus spp.</i>	Nakh	Pathar Nakh, China Pear	Plains, mid hills	Rare	Rare	Nurseries	Aug - Sep		Fruit	Own Use	
Peach	<i>Prunus persica</i>	Aaroo	July Elberta, Quetta	Plains, mid hills	Rare	Average	Nurseries	Jun - Jul		Fruit	Marketing, Own Use	
Karonda	<i>Carissa carandas</i>	Garnay	Local	Hills/ Plains	Rare	Average	Wild, Local	Jun - Aug		Fruit	Marketing, Own Use	
Papaya	<i>Carica papaya</i>	Papita	Local	Plains	Rare	Average	Nurseries, Locally Raised	Aug - Oct		Fruit	Own Use	

**Format 03 Fodder Crop/ Species**

Plant	Scientific Name	Local Name	Landscape / Habitat	Local Status		Source of Plants / Seeds	Associated TK	Part Used	Other details	Community / Knowledge holder
				Past	Present					
Barseem	<i>Trifolium alexandrinum</i>	Chhatala	Annual	average	Rare	Sub Humid & moderately cool		Entire Plant	Nutritious & palatable fodder, Source of energy for animals	Local farmers
Oats	<i>Avena spp.</i>	Javi	Annual	Plenty	Plenty	Cool & moist climate		Above ground part of plant	Nutritious & palatable fodder,	Local farmers
Sorghum	<i>Sorghum spp.</i>	cherri	Annual	Plenty	Plenty	Warm & humid		Above ground part of plant	Source of energy	Local farmers
Maize	<i>Zea mays</i>	Makki	Annual	Plenty	Plenty	Warm & humid		Above ground part of plant	Source of energy	Local farmers
Bajra	<i>Pennisetium americanum</i>	Bajra	Annual	Plenty	Average	Warm & humid		Above ground part of plant	Source of energy	Local farmers
Cowpea	<i>Vigna unguiculata</i>	Rongi	Annual	Average	rare	Warm & humid		Above ground part of plant	Kharif Legume with high protein	Local farmers

**Format 04 Weeds**

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					
Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Also Used as medicinal herb	Local people
Lamb's quarters	<i>Chenopodium album</i>	Bathua/Kanah/ Wild Spinach	Wheat, Pea, Potato	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein, Vit. A, Calcium, Phosphorous & potash	Annual feed & fermentation of Beverages	Local people
Nut Grass	<i>Cyperus rotundus</i>	Dilla/Motha	Paddy, maize, sugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Normal	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Traditionally used as medicine	Local people
Barnyard Grass	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Rare	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil	Local people
Carrot grass	<i>Parthenum hysterophorus</i>	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Rare	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage		Local people
Bur Clover	<i>Medicago denticulata</i>	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Rare	Fodder, vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Local people
Canary Grass	<i>Phalaris minor</i>	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Normal	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land	Local people
Meadow Pea	<i>Lathyrus aphaca</i>	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land	Local people



Canada Thistle	<i>Cirsium arvense</i>	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Rare		Mechanical, Chemical	Nil	Agri. Land	Local people
Bang	<i>Cannabis indica</i>	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Abundant		Mechanical, Chemical	Nil	Agri. Land	Local people
Nilibuti	<i>Ageratum conyzoides</i>	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. & wasteLand	Local people
Dub Grass	<i>Cynodon dactylon</i>	Dub Grass	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abudant	Rare	Fodder	Mechanical, Chemical	Nil	Agri. & wasteLand	Local people
Wild oats	<i>Avne fatua</i>	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Local people
Wild Rice	<i>Echinochloa colonum</i>	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Local people
Jhonson Grass	<i>Sorghum helepense</i>	Beru grass	Sorghum	Perinneal	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Local people
wild onion	<i>Allium humaie</i>	Jangli payas	Onion	Annual herb	Temprate/sub tropical	Rare	Rare	Food and medicine	All parts used	-	-	Local people

### Format 05 Pests of Crops

S.NO	Insect / Animal	Scientific name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
1	Mustard aphid	<i>Lipaphis erysimi</i>	aphid	Sucking pest	Attacks mustard & other cucurbit crops	Dec-March	Timely sowing of crop & Chemical, Biological & Mechanical	-	Major threat to oil seed crops of Rabi
2	Termite	<i>Microtermis obesi/ Odontoremes obesus</i>	Telle	Chewing & biting	Wheat & other crops	Nov-May	Cultural & Chemical measures	-	Major threat to unirrigated crops
3	Blister beetle	<i>Mylabris spp.</i>	Ghuri	Chewing & biting	Attacks Maize, Bhindi & Pulses	June-Oct	Mechanical& Chemical measures	-	Insectivorous feed on grasshopper
4	Cereal leaf Beetle	<i>Oulema melanopus</i>		Chewing & biting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence
5	Red Pumpkin Beetle	<i>Raphidopalpa foveicellis</i>	Lal Kaddu Beetle	Chewing & biting	Cucurbits	March-Oct	Chemical measures	-	Most common in fields of Cucurbits
6	Cucurbits fruit fly	<i>Bactrocera cucurbitae</i>	Melon fly	Chewing & biting	Attacks Pumpkin, cucumber & gourds	Throughout the year	Mechanical & Chemical, Pheronon trap	-	Danger to all cucumber crops
7	Maize stem Borer	<i>Chilo partellus</i>	Sundi /Tana-shedak	Chewing & biting	Attacks Maize, sorghum , Bajra & sugarcane	July to sept	Mechanical& Chemical measures	-	Causes dead hearts in young plants
8	Grasshopper	<i>Hygro blasses negro / Hieroglyphus nigropletus</i>	Tidi	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves
9	Rice Gandhi Bug	<i>Leptocorzia varcornis</i>	Gandi Bug	Paddy	Paddy at miliking stage	July to Oct.	Mechanical& Chemical measures	-	Pierce the grains at miliking stage

10	Army worm	<i>Spodoptera frugiperda</i>	Caterpillar	All Crops	Defoliates Major crops	Through the year	Mechanical& Chemical measures	-	Defoliates all crops
11	Leaf Floder	<i>Cnaphalocrocis meddialis</i>	Ctter Pillers	Feeds on leavs abd stem	Attacts on Paddy Leaves	June to Oct.	Mechanical& Chemical measures	-	Major threats
12	Stem Borer	<i>Tryporza incrtules</i>	Tana shedat/ Catter pillers	Bores into stem results into dead heart	Crops Plants	June to Oct.	Mechanical& Chemical measures	-	Major threats
13	Cut worm	<i>Agrotis ipsilon</i>	Ludi	Cuts stem and leaves	Wheat sorguham maize and other	Throughout the year	Mechanical& Chemical measures	-	Major threats
14	White Fly	<i>Aleyrodidae</i>		Suks the shap of plants	Sobin Bhindi and all pulses crops	April to Oct.	Chemical measures	-	Major threats
15	Field rats	<i>Ratus melta</i>	Chouha	Nocturnal in habit	Attacks all crops	Throughout the year	Mechanical& Chemical measures	-	Lives in burrows opening hidden in bushes
16	Monkey	<i>Rhesus macaque</i>	Bander	Attacks agriculture crops	Forest & human habitat	Throughout the year	Traps & chemosterlization	-	Cause extensive damage to almost all crops,attacks humans

**Format 6: Markets for Domesticated animals**

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
<b>THERE IS NO ORGANISED MARKET IN THE MUNICIPALITY FOR ANY OF THE SPECIES OF ANIMALS LISTED IN FORMAT 15</b>								



**Format 8: Landscape**

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											
Plains & Kandi areas			Plains	hilly as well as	Forest land, Private, state lands,	Broad leaved mainly	Domestic animals, wildlife such as porcupine, jackal etc.	Public, as well as pvt, and Govt also		Plantation and agriculture			
			Hillocks	plain terrain with gentle slope	Forest land, Private, state lands,	Broad leaved and conifers	Domestic animals, wildlife such as porcupine, jackal etc.	Public, as well as pvt, and Govt also		Plantation and agriculture			
Shivalik areas			Hills	Hills with gentle slopes	Forest land, Private, state lands,	Broad leaved and conifers	Domestic animals, wildlife such as porcupine, jackal etc.	Public, as well as pvt, and Govt also		Plantation and agriculture			

**Format 9: Waterscape**

<b>Waterscape element type</b>	<b>Sub- type</b>	<b>Features and approx area</b>	<b>Ownership</b>	<b>General flora</b>	<b>General fauna</b>	<b>Major uses</b>	<b>User groups</b>	<b>Management practices</b>	<b>General uses</b>	<b>Associated TK</b>	<b>Other details</b>	<b>Community accessed</b>
Streams			Forest land and Private land		Frogs , fishes, Torotoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public					
Hand pumps			Private		Frogs , fishes, Torotoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public					
Bowlis			Private		Frogs , fishes, Torotoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public					

### Format 10 Soil Type

S.No.	Soil	Type	Colour	Features	Soil management	Plants/Crop Suitable	Flora and Fauna	Associated TK	Other Information
1	Sandy Loam	Type B	Soft Dark	Large particle size, Water drains Rapedily	Add compost, humus, Green Manuring, Decomposed manure etc improves soil quality for better plant growth	Beans, Tomato, Potato, Cucumber, onion, eggplants, carrot, Spinach etc.	Succulants like cacti, Lambs ear, etc.	-	Genrally not suitable for plants which need lot of water
2	Clay Loam	Type A	Light yellow to raddish colour	Small particles size, Texture dense and compact, retains water and nutrition	Provide good drainage, add organic manure in the form of compost or humus	Plants/Crop Suitable	Ornamental Plants/ grasses, plants with evergreen leaves, colourful Berries	-	Soil is good for wild varieties of crops, however drainage is a problem



**Format 11 Fruit Trees**

Plants	Scientific Name	Local Name	Variety	Habit	Landscape / Habitat	Local Status		Source of Plants / Seeds	Seasons of Fruiting	Uses (Usages)	Associated TK	Others Details Market / Own Use	Community / Know Holder
						Past	Present						
Mango	<i>Mangifera indica</i>	Aam	Desi, Dusheri, Malta	Alternate Bearing	Plains	Plenty	Plenty	Nurseries	Jun-Aug	Fruit, Pickle, Preserves		Marketing, Own Use	
Citrus Fruit	<i>Citrus spp.</i>	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	Local Selection, Kagzi Lime etc.	Tree, Regular Bearing	Plains, mid hills	Plenty	Average	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc		Marketing, Own Use	
Guava	<i>Psidium guajava</i>	Amrood	Local, L49 etc.	Tree, Regular Bearing	Plains, Lower Hills	Plenty	Average	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Anjoor	Local Dakh, Perlette	Vine, Regular Bearing	Plains, Mid Hills	Rare	Plenty	Nurseries	Jul - Aug	Fruit			
Aonla	<i>Phyllanthus emblica</i>	Ambla	Local Selection, NA-7	Tree, Regular Bearing	Plains	Plenty	Rare	Nurseries, Local Collections	Nov.- Dec	Pickling Preserve etc		Marketing, Own Use	
Ber	<i>Ziziphus mauritiana lamk</i>	Ber	Gola, Varanasi	Tree, Regular Bearing	Plains	Plenty	Rare	Local	Jul - Aug	Fruit		Own Use	
Jamun	<i>Syzygium cumini</i>	Jamun	Local Selection	Tree, Regular Bearing	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit		Own Use	
Pomegranate	<i>Punica granatum</i>	Anaar, Druni	Ganesh, Kandhari, Local	Tree, Regular Bearing, Shrub	Plains, Mid hills	Rare	Rare	Nurseries, Local Raised, Wild	May - Aug	Fruit, Anardana		Own Use	
Pear	<i>Pyrus spp.</i>	Nakh	Pathar Nakh, China Pear	Tree, Regular Bearing	Plains, mid hills	Rare	Rare	Nurseries	Aug - Sep	Fruit		Own Use	
Peach	<i>Prunus persica</i>	Aaroo	July Elberta, Quetta	Tree, Regular Bearing	Plains, mid hills	Rare	Average	Nurseries	Jun - Jul	Fruit		Marketing, Own Use	
Karonda	<i>Carissa carandas</i>	Garnay	Local	Shrub	Hills/ Plains	Rare	Average	Wild, Local	Jun - Aug	Fruit		Marketing, Own Use	

Papaya	<i>Carica papaya</i>	Papita	Local	Tree	Plains	Rare	Average	Nurseries, Locally Raised	Aug - Oct	Fruit		Own Use	
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**Format 12: Medicinal Plants (Herbs, Shrubs, Trees etc.)**

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					
Herbs	Dudlu	<i>Taraxacum officinale</i>		Temperate area	Root	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>		Lower shiwalik	Seed	Abundant	Average	nil	Root	N.A	N.A	Generally, held by community
Herbs	Jungli pudina	<i>Mentha arvensis</i>		Lower shiwalik/Temp erate area	Root	Abundant	Abundant	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Trimuru	<i>Zanthoxylum aurmatum</i>		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Shrubs	brankad	<i>Adhatoda vesica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil		N.A	N.A	Generally, held by community
Shrubs	Drainkdu	<i>Murraya koenigii</i>		Sub-Tropical area	Seed	Rare	Average	nil	Fruit	N.A	N.A	Generally, held by community
Shrubs	Dussa	<i>Colebrookia oppositifolia</i>		Lower shiwalik	Seed	Rare	Rare	nil	Flower	N.A	N.A	Generally, held by community
Shrubs	Thor/Shuu	<i>Euphorbia royleana</i>		Lower shiwalik	Seed	Abundant	Average	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Canabis sativa</i>		Lower shiwalik	Seed	Abundant	Abundant	nil		N.A	N.A	Generally, held by community

Tree	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Seed	Abundant	Average	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Bair	<i>Ziziphus xylocarpa</i>		Lower shiwalik	Seed	Abundant	Average	nil	Stem	N.A	N.A	Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Seed	Rare	Average	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Bill-Patre	<i>Aegle mermelos</i>		Sub-Tropical area	Seed	Abundant	Average	nil	Root	N.A	N.A	Generally, held by community
Tree	Drankh	<i>Melia azadirach</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves	N.A	N.A	Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>		Lower shiwalik	Seed	Abundant	Average	Good for digestion	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Jamum	<i>Syzygium cumini</i>		Lower shiwalik	Seed	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	Seed	Rare	Average	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Flower	N.A	N.A	Generally, held by community
Tree	Khair	<i>Acacia catechu</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A	Generally, held by community
Tree	Kringal	<i>Casia fistula</i>		Lower shiwalik	Seed	Abundant	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Lusada	<i>Cordia dichotoma</i>		Lower shiwalik	Seed	Rare	Average	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Mango	<i>Mangifera indica</i>		Lower shiwalik	Seed	Abundant	Average	nil	Stem/Fruit	N.A	N.A	Generally, held by community

Tree	Retha	<i>Sapindus mukorossii</i>		Lower shivalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Rumbal	<i>Ficus racemosa</i>		Lower shivalik	Seed	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Tree	Sree	<i>Albizia lebbek</i>		Lower shivalik	Seed	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>		Lower shivalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>		Lower shivalik	Seed	Abundant	Average	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>		Lower shivalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>		Lower shivalik	Seed	Abundant	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Tree	Neem	<i>Azadirachta indica</i>		Lower shivalik	Seed	Abundant	Abundant	nil	Leaves/Bark	N.A	N.A	Generally, held by community
tree	Khair	<i>Accacia catechu</i>		Lower shivalik	Seed	Abundant	Abundant	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Cannabis sativa</i>		Lower shivalik	Seed	Abundant	Abundant	nil	Leaves/Bark	N.A	N.A	Generally, held by community

**Format 13: Ornamental Plants/ Trees/Climbers etc.**

Plant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial/ non-commercial	Uses	Associated TK	Other details	Community/ Know. holder
Tree	Bottle brush	<i>Callistemon citrinus</i>		Seed	Non-Commercial	NA	NA	NA	Genrally held by community
Tree	Krangal	<i>Casia fistla</i>		Seed	Non-Commercial	NA	NA	NA	Genrally held by community
Tree	Satpati	<i>Alstonia scholaris</i>		Seed	Non-Commercial	NA	NA	NA	Genrally held by community
Tree	Gulmohar	<i>Delonix regia</i>		Seed	non commercial	ornamental			Self observed
Shrub	Gandila	<i>Nerium indicum</i>		Seed	non commercial	ornamental and medicinal use-			Self observed
Tree	Bougainvillea	<i>Bougainvillea glabra</i>		Seed	non commercial,commercial	ornamental			Self observed

**Format 14: Timber Plants / Trees**

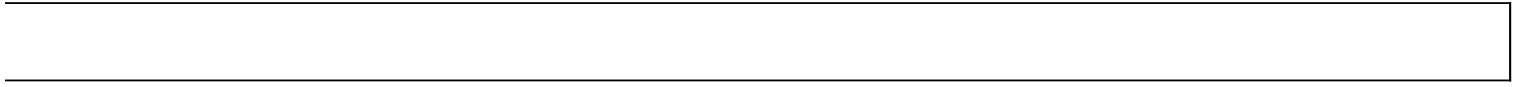
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Kiker	<i>Acacia nilotica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Mangoo	<i>Mangifera indica</i>	Lower shiwalik	Abundant	Average	Wild/ home-garden	own	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Average	Wild	commercial	nil	nil	Generally, held by community
Trees	Sree	<i>Albizia lebbeck</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	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	chir	<i>Pinus roxburghii</i>	Lower shiwalik	Rare	Average	Wild	own	nil	nil	Generally, held by community
Trees	Jammun	<i>Syzygium cumini</i>	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community

**FORMAT15: DOMESTICATED ANIMALS**

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					
Cattle	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	Jersey Gau	<i>Bos taurus</i>	CB Jersey	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
	Amrekan Gau	<i>Bos taurus</i>	CB HF	Black and white spot	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Buffalo	Manj	<i>Bubalus bubalis</i>	Local	Low yield	stall feeding	Abundant	Decreased	Dairy	Nil	No	Milk	All
	Punjabi Mais	<i>Bubalus bubalis</i>	Murrah /Graded	Black color body	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Horse	ghoda	<i>Equus caballus</i>	Local	Red color body	Backyard	Abundant	Decrease	Pack/ Cart	Nil	No	Pack/ Cart	All
Mule	khacchar	<i>E.assinus xe caballus</i>	Local	Black	Backyard	Abundant	Decrease	Pack/ Cart	Nil	No	Pack/ Cart	All
	Kukkar	<i>Galus domesticus</i>	Local	Enriched meat flavor	Backyard	Abundant	Decrease	Egg ,meat	Nil	No	Egg ,meat	All
	Farmi Kukkar	<i>Galus domesticus</i>	Chabro	good egger	Backyard	few	Increased	Egg.meat	Nil	No	Egg ,meat	All



Poultry	Broiler	<i>Galus domesticus</i>	Hybrid	white color , fast growing	deep litter	few	Increased	meat	Nil	Yes	Meat	All
	Chakore	<i>Alectoris chukar</i>	Local	black and white stripes ,beak is short, strong, and orange in color	Backyard	few	Decrease	Egg.meat	Nil	Yes	Egg, Meat	All
	Parrot	<i>Psittaciformes</i>	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All
	Pigeon	<i>Columbidae</i>	Local	white color , fast growing	Backyard	few	Decrease	decorative	Nil	No	nil	All
Dog	Kutta	<i>canis familiares</i>	Local	Nil	Pet ,Stray	Abundant	Abundant	Nil	Nil	No	Nil	All / stray
Cat	Billi	<i>felis catus</i>	Local	Grey /white color	Pet ,Stray	Abundant	Abundant	pet	Nil	No	Nil	All / stray
Rabbit	Khargosh	<i>Oryctolagus cuniculus</i>	White gaint	white	Pet ,wild	few	few	Pet	Nil	No	Nil	All / wild
Pig	Suar	<i>sus scrofa domesticus</i>	Yorkshire cross	white	Domesticated	few	Increased	Meat	Nil	Yes	Nil	Sikh /Christians/SCcommunity



**Format 16: Culture Fisheries**

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					
Carp	Rohu	<i>Labeo rohita</i>	Indian Major Carp	Large Silver coloured fish, arched head	Pond	Available	Availabe	Seed Production & Commercial use	Use as food as a good source of protein	Yes	-	45%
	Catla	<i>Catla catla</i>	Indian Major Carp	large & broad head, grey scales, protruding lower jaw	Pond	Available	Availabe	Seed Production & Commercial use	Use as food as a good source of protein	Yes	-	45%
	Mrigal	<i>Cirrhinus mrigala</i>	Indian Major Carp	cycloid scales, mouth broad, pharyngeal teeth in 3 rows	Pond	Available	Availabe	Seed Production & Commercial use	Use as food as a good source of protein	Yes	-	45%
	Grass carp	<i>Ctenopharyngodon idella</i>	Exotic Carp	Wide & scaleless head, terminal mouth, protruded upper jaw	Pond	Available	Availabe	Seed Production & Commercial use	Use as food as a good source of protein	Yes	-	45%
	Common Carp	<i>Cyprinus carpio</i>	Exotic Carp	Have long dorsal fin, have small barbels, mouth opens in an accordion like fashion	Pond	Available	Availabe	Seed Production & Commercial use	Use as food as a good source of protein	Yes	-	45%

**Format 17: Markets / Fairs for Domesticated Animals, Medicinal Plants and other products**

<b>Name of the Weekly Market / Fair</b>	<b>Location</b>	<b>Weekly / Fortnightly &amp; Others Bi-annual / Annual</b>	<b>Day held</b>	<b>Month incase of bi-annual or annual market fair</b>	<b>Types of animal bought and sold</b>	<b>Number of animals (average) transacted in a day</b>	<b>Places from where the animals are arrived</b>	<b>Places to where the animals are transported</b>
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## WILD BIODIVERSITY

Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Tree	Khair	<i>Acacia catechu</i>	Tree	Northern/Sub-Tropical	Good	Good	Commercial/ own use	Timber/ Firewood	Katha	-	-
Tree	Amla	<i>Emblica officinalis</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	Food processing	-	-
Tree	Siris	<i>Albizzia lebbek</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial own use	Timber/ Firewood	-	-	-
Tree	Chir	<i>Pinus roxburghii</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	Resin	-	-
Tree	Lecunia	<i>Leucaena lencecephala</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Simbal	<i>Bombax cebia</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Kamila	<i>Mallotus philippensis</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial /own use	Timber/ Firewood	-	-	-
Tree	Krangal	<i>Cassia fistula</i>	Tree	Northern/Sub-Tropical	Good	Rare	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Ber	<i>Ziziphus jujuba</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial /own use	Fruit	-	-	-
Tree	Plash	<i>Butea monosperma</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Arjun	<i>Terminalia arjuna</i>	Tree	Northern/Sub-Tropical	Good	Rare	Commercial/own use	Timber/ Firewood	-	-	-

Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Northern/Sub-Tropical	Good	Abundant	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Santha	<i>Dodonaea viscosa</i>	Shrubs	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Amb	<i>Mangifera indica</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	-
Tree	Kiker	<i>Acacia nilotoca</i>	Tree	Northern/Sub-Tropical	Good	Rare	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Sagwan	<i>Tectona grandis</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Safeda	<i>Eucalyptus</i>	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-

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

SI.No	Local Name	Scientific Name	Variety	Importance(as economic,social,cultural etc.)	Status
1	Santha	<i>Dodonaea viscosa</i>	Shrub	Firewood / broom making	Average
2	Kanner/Lal Gandila	<i>Nerium indicum</i>	Shrub	Medicinal	Good
3	Daduni	<i>Punica granatum</i>	Shrub	Live hedge fencing	rare
4	Bankhar	<i>Adhatoda vasica</i>	Shrub	Medicinal	Good
5	Aakh	<i>Ipomea carnea</i>	Shrub	Soil binder, medicinal use	Good
6	Bhang	<i>Cannabis sativa</i>	Shrub	Medicinal	Good
7	Pansar	<i>Wendlandia heynei</i>	Shrub	Firewood	Good
8	Bill-Patre	<i>Aegle mermelos</i>	Shrub	Medicinal	Average
9	Rumbal	<i>Ficus racemosa</i>	tree	Medicinal	rare

**Format 20: Aquatic Biodiversity**

Local Name	Scientific Name	Variety	Features	Habitat	Local status		Uses	Associated TK	Other details	Community/ Knowledge Holders
					Past	Present				
Pathrili chaal	<i>Barilius bendelisis</i>	Local	Body elongated, cleft mouth , two short pair of barbels.	Jhanjar Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	45%
Ghons	<i>Bagarius bagarius</i>	Local	Catfish, elongated body depressed head,four pair of barbels.	Jhanjar Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	45%
Mahaseer	<i>Tor putitora</i>	Local, Migratory	Big Head, Small Barbels, Golden Scales	NullahChoo	Available	Available	Own & Commercial use	Used as food as source of protein	-	45%
Rohu,Bharata	<i>Labeo spp</i>	Local	Thick lipped,Sucking mouth have 2-4 barbals	NullahChoo	Available	Available	Own & Commercial use	Used as food as source of protein	-	45%



**Format 21: Wild Aquatic Plant Species of Importance**

<b>S. No.</b>	<b>Local Name</b>	<b>Scientific Name</b>	<b>Variety</b>	<b>Importance</b>	<b>Trends</b>
1	Water Hyacinth, Floating Weed	<i>Eichornia</i>	Invasive	Can be used to make compost, Mulching & to Clean Sewage	Free Floating Weed
2	Arra,Bagu	<i>Chara</i>	Local	-	Marginal
3	Lunak	<i>Portulaca oleracea</i>	local	antioxidant value and various medicinal uses	abundant
4	Rumbal	<i>Ficus racemosa</i>	local	fruit	Abundant
5	Nad	<i>Arundo donax</i>	local	NA	Good

**Format 22: Wild Plants of Medicinal Importance**

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					
Tree	Arjun	<i>Terminalia arjuna</i>	Tree	Northern/Sub-Tropical	Good	Rare	-	Medicinal	Bark , fruit	own use	local farmers of rural community
Tree	Amla	<i>Emblica officinalis</i>	Tree	Northern/Sub-Tropical	Good	Average	-	Medicinal	Bark , fruit	own use	local farmers of rural community
Tree	Harad	<i>Terminalia chebula</i>	Tree	Northern/Sub-Tropical	Good	Average	-	Medicinal	Bark , leaves	own use	local farmers of rural community
Tree	Behra	<i>Terminalia bellirica</i>	Tree	Northern/Sub-Tropical	Good	Rare	-	Medicinal	Bark	own use	local farmers of rural community
Tree	Sukchain	<i>Pongamia pinnata</i>	Tree	Northern/Sub-Tropical	Good	Average	-	Medicinal	leaves	own use	local farmers of rural community



**Format 24: Ornamental Plants**

<b>Local Name</b>	<b>Scientific Name</b>	<b>Variety</b>	<b>Habitat</b>	<b>Commercial/Non-Commercial Uses</b>	<b>Associated TK</b>	<b>Any other Detail</b>	<b>Community/Knowledge Holder</b>
Kanner/Lal Gandila	<i>Nerium indicum</i>	Shrub	Northern/ Sub-Tropical	Non-Commercial	-	-	Generally, held by community
Panjtara	<i>Tara spinosa</i>	Shrub	Northern/ Sub-Tropical	Non-Commercial	-	-	Generally, held by community
Bougainvillea	<i>Bougainvillea glabra</i>	Shrub	Northern/ Sub-Tropical	Non-Commercial	-	-	Generally, held by community
Gulmohar	<i>Delonix regia</i>	Tree	Northern/ Sub-Tropical	Non-Commercial	-	-	Generally, held by community
Krangal	<i>Casia fistla</i>	Tree	Northern/ Sub-Tropical	Non-Commercial			Generally, held by community
Bottle brush	<i>Callistemom citrirus</i>	Tree	Northern/ Sub-Tropical	Non-Commercial			Generally, held by community

**Format 25:Fumigate/Chewing Plants**

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					
Herb	Pudina	<i>Mentha spp.</i>	local	Homestead, agricultural land	Abudant	Abudant	Spice	Leaves	used with vinegar remove dandruff	NA	local farmers
Tree	curry tree	<i>Murraya koenigii</i>	local	moist forest and agricultural land	Abudant	Abudant	Spice	Leaves	-	NA	local farmers
Herb	wild Tulsi	<i>Ocimum sanctum</i>	local	Moist soil	Abudant	Abudant	Medicinal	Leaves	-	NA	local farmers
Herb	Ajwain	<i>Trachyspermu mammi</i>	Forest	Temperate	Available	Available	Cooking	Seeds	treat digestive problems	NA	local farmers
Herb	Methi	<i>Treionellafoenum graceum</i>	Annual plant	temperate regions /homegardens	plenty	average	used in stomach troubles and anaemia	leaves and seeds	cooking	NA	local farmers
Herb	saunf	<i>Foeniculumvulga</i>	Herbaceous perennial	temperate regions /homegardens	plenty	average	used as a spice and some other medicinal uses	saunf	cooking and chewing	NA	local farmers
Herb	Haldi	<i>Corcuma domestica</i>	Herbaceous perennial	Farm lands	good	Abundant	Spice	roots	Nil	Nil	local farmers
Herb	Ginger	<i>Zingiber officinale</i>	Herbaceous perennial	Farm lands	good	Abundant	Spice	roots	Nil	Nil	local farmers

### Format26: Timber Plants

Local Name	Scientific Name	Habitat	Local Status		Other Uses ,if any	Associated TK	Other Details	Community /Knowledge holder
			Past	Present				
Chir	<i>Pinus roxburghii</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Shisham	<i>Dalbergia sissoo</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Ber	<i>Ziziphus jujuba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Sagwan	<i>Tectona grandis</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Safeda	<i>Eucalyptus</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Simbal	<i>Bombax ceiba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Tunu	<i>Toona ciliata</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Jamun	<i>Syzygium cumini</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	Forestry,local people
Mango	<i>Mangifera indica</i>	Northern/Sub-Tropical	Abundant	Abundant	Commercial/ own use		Timber/ Firewood	Forestry,local people
Kiker	<i>Vachellia nilotica</i>	Northern/Sub-Tropical	Rare	Rare	Commercial/ own use		Timber/ Firewood	Generally, held by community
Popular	<i>Populus ciliata</i>	Northern/Sub-Tropical	Rare	Abundant	Commercial/ own use		Timber/ Firewood	Forestry,local people







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

Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local status		Uses ,if any	Associated TK	Other Details	Community Knowledge Holder
						Past	Present				
Wild animal	Leopad	<i>Panthera pardus</i>	Northern/Sub-Tropical	--	--	Good	Average			prohibited	endangered
Wild animal	Squirrela	<i>Sciuridae</i>	Northern/Sub-Tropical	--	--	Good	Good			Weapon	
Wild animal	Pig	<i>Suidae</i>	Northern/Sub-Tropical	--	--	Good	Good			Weapon	
Wild animal	Jackal	<i>Canis aureus</i>	Northern/Sub-Tropical	--	--	Good	Good			Weapon	
Wild Animal	Monkey	<i>Cercopithecidae</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	weapon or stick	
Wild Bird	Red jungle fowl	<i>Gallus gallus</i>	Northern/ Sub-Tropical	-	-	Good	Good	good nutritional value	-	-	
Wild bird	Rose ringed parakeet	<i>Psittaculidae</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Boar	<i>Sus scofra</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Indian Hare	<i>lepus nigricollis</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild bird	Kalij pheasant	<i>Lophura leucomelanos</i>	Northern/ Sub-Tropical			good	average			prohibited	

**Format 29: Flora**

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

**Format 30: Fauna**

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

**Format 31: Any other information of local importance**

<b>Sr. No.</b>	<b>Information of Local importance</b>	<b>Remarks</b>