

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

**Name of the Panchayat Samiti:** Kot Upper

**Taluk/Tehsil:** Bhalwal

**District:** Jammu

**State/UT:** Jammu And Kashmir

**Geographical Area of the panchayat Samiti:** 5000 Kanal

**Population Of the Panchayat samiti...**Total 7600

**Male=** 4200

**Female =** 3400

**Habitat and Topography:** Kandi

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

**Land Use (Nine fold classification available with village records):** Crops, Agriculture

**Date, Month and Year of PBR preparation:** 22-02-2021

## 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:Prabhakar Singh

Age:50

Gender:Male

Address:Kot

Area of specialization: Sarpanch

2) Name:Ashwani Devi

Age:43

Gender:Female

Address:Tawa Kot

Area of specialization: Member of Panchayat Adalat

3) Name:Pushpa Devi

Age:56

Gender:Female

Address:Kot

Area of specialization:

4) Name:Jang Bahadur

Age:55

Gender:Male

Address:Kot

Area of specialization: Labourer

5) Name:Gudu Ram

Age:52

Gender:Male

Address:Kot

Area of specialization: Labourer

6) Name:Vijay Kumar

Age:47

Gender:Male

Address:Kot

Area of specialization:

7) Name:Suram Chand

Age:63

Gender:Male

Address:Kot

Area of specialization: Panch

**Annexure 2****List of Vaid, hakims and traditional health care (human and livestock) practitioners residing and using biological resources occurring within the jurisdiction of the village**

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:

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:

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:

<b>Annexure 3</b>
<b>List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry</b>
Name: Jagdish Chander
Age: 70 years
Gender: Male
Address: Kot Upper
Area of specialization: Farming
Name:
Age:
Gender:
Address:
Area of specialization:
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 biodiversity in agriculture, fisheries, and forestry**

1) Contact Person

Name and Address: Prabhakar Singh

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****Details of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefits derived and the mode of their sharing**

<b>No</b>	<b>Name and address of the person/ institution/ 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>Details of collection fee imposed</b>	<b>Anticipated mode of sharing benefits or quantum of benefits shared</b>
1	Karnail Singh	Poultry			
2	Alam Khan	Dairy			
3	Thodu	Dairy			
4	Neeraj	Mango			

**Part II  
Formats**

**PBR -  
AGROBIODIVERSITY  
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							
1	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/ Privaate Suppliers	Farmers
				K-517		Plenty	Rare	Average tall with yellow in colour						
				Ujala		Normal	Plenty							
				K-612		Plenty	Normal							
				Pro Agro-4794		Plenty	Normal	Tall, high yielding with yellow in colour)						
2	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/ Privaate Suppliers	Farmers
				SML-668		Normal	Plenty	High yielding Variety						
				IPM-0203		Normal	Rare	Excessive vegetative growth						
3	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/ Privaate Suppliers	Farmers
				Utra		Normal	Normal							
4	Bajra	<i>Pennisetum americanum</i>	Bajra	Local Variety	Humid climate under Sandy loam Soil	Normal	Normal	Tall & low Yielding variety	Food & Fodder	Source of Energy	-	Kharif (May to October)	Farmers / Department/ Privaate Suppliers	Farmers
				MHB-110		Normal	Normal							
5	Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PBW644	Humid climate during early part of its growth	Plenty	Plenty	High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
6	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/ Privaate Suppliers	Farmers
7	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/ Privaate Suppliers	Farmers
8	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/ Privaate Suppliers	Farmers
9	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/ Privaate Suppliers	
10	Mustard	<i>Brassica juncea/ Brassica campestris</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/ Privaate Suppliers	Farmers

11	<b>Gobhi Sarson</b>	<i>Brassica napus</i>	<b>Gobhi Saria</b>	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
12	<b>Potato</b>	<i>Solanum 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
13	<b>Toria</b>	<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 prepration 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
14	<b>Sesame</b>	<i>Sesamum indicum</i>	Til	Punjab Til No.1/local	Warm / Humid of Sub tropical region	Normal	Normal	Medium Yielding	Food	Source of Vegetable oil	Religiuos and medicinal value	June - Oct.	Farmers / Department/ Privaate Suppliers	Farmers
15	<b>Sugarcane</b>	<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
16	<b>Chilli</b>	<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
17	<b>Tomato</b>	<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	<b>Tomatoes</b> are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
18	<b>Okra</b>	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropicalHot and humid climate	Abundant	Abundant	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dieta fibers,protein and carbohydratesry	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
19	<b>Cucumber</b>	<i>Cucumis sativus</i>	Kheera	Kheera local,JL	Grows in all climatoic conditions,Tropical,Sub tropical &temprate	Abundant	Abundant	Limbing annual bearing elongated thick cylendrical fruit	Mainly used as salad	-	It also used asantipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers



20	<b>Bottle gourd</b>	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer & rainy season crop	Abundant	Abundant	Vines vigorous, profusely branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/kharif	Farmers / Department/ Private Suppliers	Farmers
21	<b>Bitter gourd</b>	<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 maintaining low sugar level	Summer/kharif	Farmers / Department/ Private Suppliers	Farmers
22	<b>Beans</b>	<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 value protein, Vitamins B1, B2, B6 and Magnesium	Summer season	Farmers / Department/ Private Suppliers	Farmers
23	<b>Cauliflower</b>	<i>Brassica oleracea var. botrytis</i>	Fol gobi	Pusa snow ball, Pusa Katki, local Girja	Both subtropical & intermediate	Abundant	Abundant	White and tender head, curd formed from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein, carbohydrate, phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
24	<b>Cabbage</b>	<i>Brassica oleracea var. capitata</i>	Band gobi	Golden Acre, Pride of India, Green Flesh	Both subtropical & 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
25	<b>Knol khol</b>	<i>Brassica oleracea var. gongyloides</i>	Kadam	White vienna, Purple vienna	cool & moist climate/subtropical	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
26	<b>Spinach</b>	<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
27	<b>Radish</b>	<i>Raphanus sativus</i>	Mulli	Japanese 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 Vegetable & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Private Suppliers	Farmers
28	<b>Carrot</b>	<i>Daucus carota</i>	Gajer	Pusa Kesar, local	Cool & moist climate/ subtropical & intermediate	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
29	<b>Turnip</b>	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool & moist climate/subtropical & intermediate	Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable, Salad,	-	Good source of Vit. C, Dietary Fiber & Potassium	Rabi	Farmers / Department/ Private Suppliers	Farmers





### Format 03 Fodder Crop/ Species

1	2	3	4	5		6	7	8	9	10	11	12	13
S. No.	Plant	Scientific Name	Local Name	Habit	Area (Approx.) Rabi/ Kharif	Landscape/ Habitat	Local Status		Part Used	Associated TK	Other details(mode of use)	Sources of Seeds and Plants	Community Kn. Holders
							Past	Present					
1	Barseem	<i>Trifolium alexandrium</i>	Chhatala	Annual		Sub Humid & moderately cool	Abundant	Abundant	Entire Plant	Nutritious & palatable fodder, Source of energy for animals	Fodder	Farmers / Department/ Privaate Suppliers	Farmers
2	Oats	<i>Avena spp.</i>	Javi	Annual		Cool & moist climate	Abundant	Abundant	Above ground part of plant	Nutritious & palatable fodder,	Fodder		Farmers
3	Sorghum	<i>Sorghum spp.</i>	cherri	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Fodder	Farmers / Department/ Privaate Suppliers	Farmers
4	Maize	<i>Zea mays</i>	Makki	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Food & fodder		Farmers
5	Bajra	<i>Pennisetium americanum</i>	Bajra	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Source of energy	Food & fodder	Farmers / Department/ Privaate Suppliers	Farmers
6	Cowpea	<i>Vigna unguiculata</i>	Rongi	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Kharif Legume with high protein	Fodder		Farmers

### Format 04 Weeds

1	2	3	4	5	6	7	8		9	10	11	12
S. No.	Plant	Scientific Name	Local Name	Affected Crop	Habit	Landscape/ Habitat	Local Status		Uses if any	Management options	Associated TK	Other details
							Past	Present				
1	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
2	Lamb's quarters	<i>Chenopodium album</i>	Bathua/ Kanh/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
3	Nut Grass	<i>Cyperus rotundus</i>	Dilla/Motha	Paddy, maize, sugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Traditionally used as medicine
4	Barnyard Grass	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil
5	Carrot grass	<i>Parthenum hysterophorus</i>	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Abundant	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage	
6	Bur Clover	<i>Medicago denticulata</i>	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder, vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility
7	Canary Grass	<i>Phalaris minor</i>	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land

8	Meadow Pea	<i>Lathyrus aphaca</i>	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land
9	Canada Thistle	<i>Cirsium arvense</i>	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land
10	Bang	<i>Cannabisindica</i>	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land
11	Nilibuti	<i>Ageratum conyzoides</i>	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. & wasteLand
12	Dub Grass	<i>Cynodon dactylon</i>	Dub Grass	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abudant	Abudant	Fodder	Mechanical, Chemical	Nil	Agri. & wasteLand
13	Wild oats	<i>Avena fatua</i>	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrive Fodder for Animals
14	Wild Rice	<i>Echinochloa colonum</i>	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrive Fodder for Animals
15	Jhonson Grass	<i>Sorghum helepense</i>	Beru grass	Sorghum	Perinneal	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrive Fodder for Animals
16	wild onion	<i>Allium humaie</i>	Jangli payas	Onion	Annual herb	Temprate/sub tropical	Rare	Rare	Food and medicine	All parts used	-	-







### Format 05 Pests of Crops

1	2	3	4	5	6	7	8	9	10	11
S. No.	Insect /Animal	Scientific Name	Local Name	Habit	Habitat	Time/Season of Attack	Management Mechanism	Associated TK	Other details	Community Kn. Holders
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	Farmers
2	Termite	<i>Microtermis obesi</i>	Telle	Chewing & biting	Wheat & other crops	Nov-May	Cultural & Chemical measures	-	Major threat to unirrigated crops	Farmers
3	Blister beetle	<i>Mylabris spp.</i>	Ghuri	Chewing & biting	Attacks Maize, Bhindi & Pulses	June-Oct	Mechanical& Chemical measures	-	Insectivorous feed on grasshopper	Farmers
4	Cereal leaf Beetle	<i>Oulma melanopus</i>		Chewing & biting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence	Farmers
5	Red Pumpkin Beetle	<i>Raphidopalpa foveicellis</i>	Lal Kaddu Beetle	Chewing & biting	Cucurbits	March-Oct	Chemical measures	-	Most common in fields of Cucurbits	Farmers
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	Farmers
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	Farmers

8	Grasshopper	<i>Hieroglyphus nigropletus</i>	Tidi	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves	Farmers
9	Rice Gandi Bug	<i>Leptocorzia varcornis</i>	Gandi Bug	Paddy	Paddy at miliking stage	July to Oct.	Mechanical& Chemical measures	-	Pierce the grains at miliking stage	Farmers
10	<i>Syzygium cimini</i>	<i>Spodoptera frugiperda</i>	Caterpillar	All Crops	Defoliaties Major crops	Through the year	Mechanical& Chemical measures	-	Defoliates all crops	Farmers
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	Farmers
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	Farmers
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	Farmers
14	White Fly	<i>Aleyrodidae</i>		Suks the shap of plants	Sobin Bhindi and all pulses crops	April to Oct.	Chemical measures	-	Major threats	Farmers
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	Farmers
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	general public/ Farmers



### Format 7: Peoplescape

1	2	3	4	5	6	7	8	9	10	11
<b>Community &amp; Population</b>	<b>Families &amp; Major Occupation</b>	<b>Sub-Occupation</b>	<b>Depending Landscape</b>	<b>Major resouces accessed and seasons of access</b>	<b>Landscape management practices</b>	<b>Resource management practices</b>	<b>Cast/ Tribe</b>	<b>Social condition</b>	<b>Nature of inhabitants</b>	<b>No. of HHs</b>
SC,St & General 1437	-	-	-	-	-	-	SC	Middle Class, BPL	-	335
Muslim										
Christian										

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											
Plains & Kandi areas			Plains	hilly as well as	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	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			

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

### Format 9: Waterscape

1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape element type	Sub- type	Features and approx area	Ownership	General flora	General fauna	Major uses	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Ponds	7		Private land	kamal,Baryan,	Frogs , fishes, Torotoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public				Clothes washing, Animals drink	Public
Tube well	2		Private land		Frogs , fishes, Torotoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public					Public

Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,



**Format 11 Fruit trees**

1	2	3	4	5	6	7		8	9	10	11	12	13
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	Plenty	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc		Marketing, Own Use	
Litchi	<i>Litchi chinensis</i>	Litchi	Culcatta, Dehradun	Tree, Regular Bearing	Plains	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing	
Guava	<i>Psidium guajava</i>	Amrood	Local, L49 etc.	Tree, Regular Bearing	Plains, Lower Hills	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Angoor	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	Plenty	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	Plenty	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	Plenty	Nurseries	Jun - Jul	Fruit		Marketing, Own Use	
Strawberry	<i>Fragaria × ananassa</i>	Strawberry	Chandlar	Runner, Annual	Plains, mid hills	Rare	Plenty	Nurseries	Mar - Apr	Fruit		Marketing	
Karonda	<i>Carissa carandas</i>	Garnay	Local	Shrub	Hills/ Plains	Rare	Rare	Wild, Local	Jun - Aug	Fruit		Marketing, Own Use	
Papaya	<i>Carica papaya</i>	Papita	Local	Tree	Plains	Rare	Plenty	Nurseries, Locally Raised	Aug - Oct	Fruit		Own Use	

**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					
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	Abundant	nil	Root	N.A	N.A	Generally, held by community
Herbs	Jungli putna	<i>Mentha arvensis</i>		Lower shiwalik /Temperate area	Root	Abundant	Abundant	nil	Leaves	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	Abundant	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	Abundant	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	Abundant	nil	Leaves/ Fruit	N.A	N.A	Generally, held by community
Tree	Bair	<i>Ziziphus xylocarpa</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community

Tree	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Seed	Rare	Abundant	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Bill-Patre	<i>Aegle mermelos</i>		Sub-Tropical area	Seed	Abundant	Abundant	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	Abundant	Good for digestion	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Jaman	<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	Rare	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	Abundant	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Lusada	<i>Cordia dichotoma</i>		Lower shiwalik	Seed	Rare	Abundant	nil	Leaves/ Fruit	N.A	N.A	Generally, held by community
Tree	Mango	<i>Mangifera indica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Sree	<i>Albizia lebbeck</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Stem	N.A	N.A	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Fruit	N.A	N.A	Generally, held by community

Tree	Tuni	<i>Toona ciliata</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Bark	N.A	N.A	Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Bark	N.A	N.A	Generally, held by community
Tree	Amla	<i>Emblica officinalis</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Bark	N.A	N.A	Generally, held by community
Tree	Neem	<i>Azadirachta indica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Bark	N.A	N.A	Generally, held by community
tree	Khair	<i>Acacia catechu</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Bark	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Cannabis sativa</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/ Bark	N.A	N.A	Generally, held by community

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

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

1	2	3	4	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial/ non- commercial	Uses	Associated TK	Other details	Community/ Know. holder
Tree	kringal	<i>Casia fistula</i>		Flower Fruit	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Gandera	<i>Nerium oleander</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Thub	<i>Erythrina indica</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Badah	<i>Salix alba</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Climber	Kareer	<i>Rosa acicularis</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community

**Format 14: Timber Plants / Trees**

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Kiker	<i>Acacia nilotica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Mangoo	<i>Mangifera indica</i>	Lower shiwalik	Abundant	Abundant	Wild/ home-garden	own	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundant	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	Jammun	<i>Syzygium cumini</i>	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community

### FORMAT 15: DOMESTICATED ANIMALS

Animal Type	Local Name	Scientific Name	Breed (local/Hybrid)	Features	Method of keeping	Local Status		Uses	Associated TK	Commercial rearing	Other Detail	Community know holders
						Abundant	Decrease					
Cattle	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	Jersy Gau	<i>Bos taurus</i>	CB Jersy	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
	Amrecan 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
Poultry	Kukkar	<i>Galus domesticus</i>	Local	Enriched meat flavor	Backyard	Abundant	Decrease	Egg ,meat	Nil	No	Egg ,meat	All
	Syzygium cimini	<i>Galus domesticus</i>	Chabro	good egger	Backyard	few	Increased	Egg.meat	Nil	No	Egg ,meat	All
	Broiler	<i>Galus domesticus</i>	Hybrid	white color , fast growing	deep litter	few	Increased	meat	Nil	Yes	Meat	All
	Parrot	<i>Psittaciformes spp.</i>	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All

	Pigeon	<i>Columbidae livia</i>	Local	white color , fast growing	Backyard	few	Decrease	decorative	Nil	No	nil	All
Dog	Kutta	<i>Canis familiaris</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



### 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					
Carp	Rohu	<i>Labeo rohita</i>	Indian Major Carp	Large Silver coloured fish, arched head	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	25%
	Catla	<i>Catla catla</i>	Indian Major Carp	large & broad head, grey scales, protruding lower jaw	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	25%
	Mrigal	<i>Cirrhinus mrigala</i>	Indian Major Carp	cycloid scales, mouth broad, pharyngeal teeth in 3 rows	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	25%
	Grass carp	<i>Ctenopharyngodon idella</i>	Exotic Carp	Wide & scaleless head, terminal mouth, protruded upper jaw	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	25%
	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	Own & Commercial use	Use as food as a good source of protein	Yes	-	25%
Minor Carp	Mooree	<i>Channa spp</i>	Local	Snakehead fish, Air Breathing Fish	Pond	Available	Available	Own & Commercial use	Used as food as source of protein	-	-	25%

Minor Carp	Sole	<i>Channa marulius</i>	Local	Snakehead fish, Air Breathing Fish	Pond	Available	Available	Own & Commercial use	Used as food as source of protein	-	-	25%
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**WILD BIODIVERSITY FORMAT 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers etc**

1	2	3	4	5	6		7	8	9	10	11
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/ own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Tree	Shisham	<i>Dalbergia sisoo</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Stem, Timber	-	-	-
Tree	Khair	<i>Acacia catechu</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	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>Albizia lebbek</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Lecunia	<i>Leucaena leucocephala</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	Moderate	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	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 nilotica</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	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	-	-	-
Tree	Bel	<i>Aegle marmelos</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Leaves/ Fruit	-	-	-

Tree	kakoa	<i>Flacourtia indica</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	-
Grass	Bamboo	<i>Dendrocalamus strictus</i>	Grass	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Sticks	-	-	-
Herbs	Bhang	<i>Cannabis sativa</i>	herbs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Leaves	-	-	-
Shrub	Jojra	<i>Pupalia lappacea</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	-	-	-	-
Shrub	Garna	<i>Carissa spinarum</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	-
Shrub	Panjphuli	<i>Lantana camara</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	-	-	-	-
Shrub	Gandila	<i>Nerium indicum</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Flower	-	-	-
Shrub	Pansar	<i>Wendlandia heynei</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	-	-	-	-
Herbs	congress Grass	<i>Parthenium hysterophrous</i>	herbs	Northern/ Sub-Tropical	Good	Moderate	-	-	-	-	-
Tree	Badh	<i>Ficus religiosa</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	-	-	-	-	-
Tree	Phulai	<i>Acacia modesta</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Climber	Jungli bitter melon	<i>Momordica charantia</i>	Climber	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit			
Climber	Purple yam	<i>Dioscorea alata</i>	Climber	Northern/ Sub-Tropical	Good	Moderate	-				
Climber	Striped cucumber	<i>Diplocyclos palmatus</i>	Climber	Northern/ Sub-Tropical	Good	Moderate	-				

**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	Santha	<i>Dodonaea viscosa</i>	Shrub	Firewood	Good
2	Kanner/Lal Gandila	<i>Nerium indicum</i>	Shrub		Good
3	Daduni	<i>Punica grantum</i>	Shrub	Live Hedge fencing	Good
4	Brenker	<i>Adhatoda vasica</i>	Shrub	-	Good
5	Bhang	<i>Cannabis sativa</i>	Shrub	Medicinal	Good
6	Aakh	<i>Ipomea cornea</i>	Shrub	Soil binder	Good
7	pansar	<i>Wendlandia heynei</i>	Shrub	Firewood	Good

### Format 20: Aquatic Biodiversity

1	2	3	4	5	6	7	8	9	10
Local Name	Scientific Name	Variety	Features	Habitat	Local Status		Associated TK	Other details	Community/ Knowledge Holder
					Past	Present			
Snail	<i>Gastropoda</i>		Land snails have a strong muscular foot, they use mucus to enable them to crawl over rough surfaces and to keep their soft bodies from drying out.		Good	Good			
Carp	<i>Cyprinus carpio</i>		Dorsal fin base length with 17-22 branched rays and a strong toothed spine in front, pharyngeal teeth 5:5 teeth with flattened crowns.		Good	Good			
Brown trout	<i>Salmo trutta</i>		An average length of 40-80 cm with a maximum length of 140 cm the spawning behaviour of brown trout is similar to that of the closely related Atlantic salmon.		Good	Good			
Turtle	<i>Testudines spp.</i>		Turtles spend most of their lives in water, they are adapted for aquatic life, freshwater turtles live in ponds and lakes, and they climb out of the water onto logs or rocks to bask in the warm sun		Good	Good			
Sago pondweed	<i>Potamogeton pectinatus</i>		is a perennial at a fast rate, it is in flower from May to September. The species is hermaphrodite (has both male and female organs) and is pollinated by water. It is noted for attracting wildlife.		Good	Good			
Water Spinach	<i>Ipomoea aquatica</i>		it contains abundant quantities of water, iron, vitamin C, Vitamin A and other nutrients		Good	Good			

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

1	2	3	4	5	6
Sl.No	Local Name	Scientific Name	Variety	Importance	Trends
1	Water Spinach	<i>Ipomoea aquaticum</i>		it contains abundant quantities of water, iron, vitamin C, Vitamin A and other nutrients	
2	Watercress	<i>Rorippa nasturtium - aquaticum</i>		It contains a plethora of antioxidants, which may lower your risk of heart disease and several types of cancer it's also a good source of minerals that protect your bones	



### 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		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	Good	Medicinal	Bark	-	-
Tree	Amla	<i>Emblica officinalis</i>	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark/ Fruit	-	-
Tree	Harad	<i>Terminalia chebula</i>	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark/ Fruit	-	-
Tree	Behra	<i>Terminalia bellerica</i>	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark/ Fruit	-	-
Tree	Sukchain	<i>Pongamia pinnata</i>	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark	-	-
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Fruit /seeds	-	-





**Format 25:Fumigate/Chewing Plants**

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb,Shrub, Tree)	Local Name	Scientific Name	Variety	Habitat	Local Status		Uses (Usage)	Part used	Associated TK	Other details(mode of use)	Community /Knowledge holder
					Past	Present					
Herb	Pudina	<i>Mentha spp.</i>		Homestead, agricultural land	Abudant	abudant	Spice	leaves			
Tree	curry tree	<i>Murraya koenigii</i>		moist forest and agricultral land	Abudant	abudant	Spice	leaves			
Herb	wild Tulsi	<i>Ocimum sanctum</i>		Moist soil	Abudant	abudant	Medicinal	leaves			

**Format26: 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				
Shisham	<i>Dalbergia sissoo</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Ber	<i>Ziziphus jujuba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Safeda	<i>Eucalyptus spp.</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Simbal	<i>Bombax ceiba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tunu	<i>Cidrela toona</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Jamun	<i>Syzygium cumini</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-





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

1	2	3	4	5	6	7		8	9	10	11
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	Squirrels	<i>Sciuridae spp.</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 Animal	Monkey	<i>Cercopithecidae spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Wild Bird	Red jungle fowl	<i>Gallus gallus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Wild bird	Rose ringed parakeet	<i>Psittaculidae spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Wild Animal	Fox	<i>Vulpes spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Wild Animal	Porcupine	<i>Erethizon dorsatum</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
wild insects	Grasshooper	<i>Parallelus spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-



wild insects	butterfly	<i>Chorthippus brunneus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
wild insects	bees	<i>Apis mellifera</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
wild insects	ants	<i>Brachymyrmex patagonicus</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
wild insects	Bumble bee	<i>Bombus spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Amphibia	Frog	<i>Euphlyctis cyanophlyctis</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Reptiles	Tortoises	<i>Testudines spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-
Reptiles	Snake	<i>Natrix spp.</i>	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	-

**Format 29: Flora URBAN BIODIVERSITY**

1	2	3	4	5	6	7
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)
1	<i>kikar</i>	<i>Acacia nilotica</i>	Broad leave	sub tropical	summer	Common
2	<i>Mangoo</i>	<i>Mangifera indica</i>	Broad leave	sub tropical	summer	Common
3	<i>Safeda</i>	<i>Eucalyptus spp.</i>	Broad leave	sub tropical	summer	Common
4	<i>Sree</i>	<i>Albizia lebbeck</i>	Broad leave	sub tropical	summer	Common
5	<i>Talli</i>	<i>Dalbergia sissoo</i>	Broad leave	sub tropical	summer	Common
9	<i>Jammun</i>	<i>Syzygium cumini</i>	Broad leave	sub tropical	summer	Common

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

**Format 30: Fauna**

1	2	3	4	5	6
S.No	Local Name	Scientific Name	Type of Animals( Mammals /Birds/Fish/Insects etc.)	Habitat	Remarks(Rare/common etc.
1	Cow	<i>Bas taurus</i>	Mammal	Terrestrial	Common
2	Buffalow	<i>Babalus bubalis</i>	Mammal	Terrestrial	Common
3	Sheep	<i>Ovis aries</i>	Mammal	Terrestrial	Common
4	Goat	<i>Capra aegagrus</i>	Mammal	Terrestrial	Common
5	Sparow	<i>Passer domesticus</i>	Birds	Terrestrial	Common
6	Crow	<i>Corvius splendens</i>	Birds	Terrestrial	Common
7	Parrot	<i>Psittaciformes spp.</i>	Birds	Terrestrial	Common
8	Peacock	<i>Pavo cristatus</i>	Birds	Terrestrial	Rare
9	Ant	<i>Tapioma sessile</i>	insects	Terrestrial	Common
10	Bee	<i>Apis crana indica</i>	insects	Terrestrial	Common
11	Butterfly	<i>Rhopalocera spp.</i>	insects	Terrestrial	Common
12	Mosquto	<i>Culicidae spp.</i>	insects	Terrestrial	Common
13	Caterpillar	<i>Lepidoptera spp.</i>	insects	Terrestrial	Common
14	Fish		Aquatic Animals	Aquatic	Common
15	Frog	<i>Anura spp.</i>	Aquatic Animals	Aquatic	Common
16	Torotise	<i>Testudinidae spp.</i>	Aquatic Animals	Aquatic	Rare

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

<b>1</b>	<b>2</b>	<b>3</b>
<b>Sr. No.</b>	<b>Information of local importance</b>	<b>Remarks</b>
1	Surganda - Eating - Children Kwashiorkier Ash	
2	Pand Pandol - as vegetable (Rainy seson)	
3	Chiwde (Rainy)	
4	Tulsi	
5	Sarmankh	
6	Itt sit - as vegetable, kidney stone	
7	Pothkanda - seeds for cough	

*End of Part II*