

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

Name of the Panchayat Samiti: Bharda Kalan

Taluk/Tehsil: Akhnoor

District: Jammu

State/UT: Jammu And Kashmir

Geographical Area of the panchayat Samiti: 1147.13 Hectare

Population Of the Panchayat samiti...Total 4155

Male= 2132                      Female = 2023

Habitat and Topography: Kandi

Climate (Rainfall, Temperature and other weather patterns): Subtropical temperature with moderate rainfall

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

Date, Month and Year of PBR preparation: 17-06-2022



## Annexure 1

### Detail of Biodiversity Management Committee (BMC) of the Panchayats of Block Akhnoor

S.no	Block	Panchayat	Name of the Elected Chairperson	Name of the Members	Age	Gender	Address	Area of Specialization
1	AKHNOOR	<b>Bharda Kalan</b>	<b>Jagdish Raj Sharma S/o Hans Raj Sharma</b>		48	Male	R/o Bharda Kalan	–
				<b>Vijay Jamwal W/o Puran Singh</b>	43	Female	R/o Bharda Kalan	–
				<b>Shashi Bala</b>	28	Female	R/o Bharda Kalan	–
				<b>Subash Chander</b>	47	Male	R/o Bharda Kalan	–
				<b>Dwarka Nath Sharma S/o Amarnath</b>	67	Male	R/o Bharda Kalan	–
				<b>Madan Lal S/o Khindu Ram</b>	54	Male	R/o Bharda Kalan	–
				<b>Romash Lal S/o Om Parkash</b>	54	Male	R/o Bharda Kalan	–

**Annexure 2****List of Vaid/Hakims and Traditional health care (human and livestock) practitioners residing and or using biological resources occurring with in the jurisdiction of the village**

S.no	Block	Panchayat	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

Nil

**Annexure 3****List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries and forestry**

S.no	Block	Panchayat	Name	Age	Gender	Address	Area of Specialization		
							Agriculture	Fisheries	Forestry
1	Akhnoor	Bharda Kalan	Rajinder Kumar S/o Tej Ram	60	Male	Bharda Kalan	Agriculture		
2	Akhnoor	Bharda Kalan	Jagdish Raj S/o Ishar Das	48	Male	Bharda Kalan	Agriculture		

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**Annexure 4**

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**Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR**

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Contact Person:

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Name and Address: Jagdish Raj Sharma S/o Hans Raj Sharma R/o Bharda Kalan Contact No. 7298265257

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Contact Person:

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Name and Address: Subash Chander R/o Bharda Kalan

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**May add names of more institutions/NGO/Individuals etc, if necessary**

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**Annexure 5****Detail of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefit derived and the mode of their sharing**

<b>S.no</b>	<b>Name and address of the Person/Institute/company others</b>	<b>Local and Scientific Name of the biological material Accessed and quantity</b>	<b>Date and resolution of the BMC and endorsement by the Panchayat</b>	<b>Detail of collection fee imposed</b>	<b>Anticipated mode of sharing benefits or quantum of benefits shared</b>
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

*End of Part I*

### Format 1 Crop Plants

S.No	Crop	Scientific Name	Local Name	Description of the variety	Landscape / Habitat	Approx. Area sown(ha)	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/ Private Suppliers	Farmers
				K-517			Plenty	Rare	Average tall with yellow in colour						
		Ujala		Normal			Plenty								
		K-612		Plenty			Normal								
		<i>Zea mays</i>		Pro Agro-4794			Plenty	Normal	Tall, high yielding with yellow in colour)	Food & Fodder					
2	Moong	<i>Vigna radiata</i>	Moong	PDM-54	Hot / Humid 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						



	Moong	<i>Vigna radiata</i>		IPM-0203	Hot / Humid Sub tropical region		Normal	Rare	Excessive vegetative growth	Food	Source of Vegetable Protein	Also suitable for green Manuring	Summer/ Kharif	Farmers / Department/ Private Suppliers	
3	Mash	<i>Vigna mungo</i>	Mhaa	PU-19	Warm / Humid Sub tropical region		Normal	Normal	High yielding Variety	Food	Source of Vegetable Protein	-	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
				Utra			Normal	Normal							
4	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							
5	Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PBW64 4	Cool 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/ Private 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/ Private Suppliers	Farmers
7	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
8	Onion	<i>Allium cepa</i>	Ganday	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	
9	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	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers
10	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 ,calcium, copper,potassium	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers

11	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/ Private Suppliers	Farmers
12	Potato	<i>Solanum tuberosum</i>	Aaloo	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/ Private Suppliers	Farmers
13	Toria	<i>Brassica rapa cv. Toria</i>	Toria	RSPT-1, RSPT-2, Local var.	Cool & dry with bright sunshine		Normal	Normal	Short duration Annual Herb	oil for preparation of Food	Source of energy, calcium, copper, potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Private Suppliers	Farmers
14	Sesame	<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	Religious and medicinal value	June - Oct.	Farmers / Department/ Private Suppliers	Farmers
15	Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropical/sub tropical vegetable, grows well warm humid conditions		Abundant	Abundant	Pungency and flavor	Used as spice, medicinal value	-	Contains good amount of vitamin A&C	winter season	Farmers / Department/ Private Suppliers	Farmers

16	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 ,sala d, soup,Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Private Suppliers	Farmers
17	Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropical vegetable 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/ Private Suppliers	Farmers
18	Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local, JL	Grows in all climatoic conditions,Tropical,Sub tropical &temprate		Abundant	Abundant	climbing annual bearing elongated thick cylindrical fruit	Mainly used as salad	-	It also used as antipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
19	Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer &rainy season crop		Abundant	Abundant	Vines vigorous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Private Suppliers	Farmers
20	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 sugar level	Summer/ kharif	Farmers / Department/ Private Suppliers	Farmers

21	Beans	<i>Phaseolus Spp.</i>	Phaliya	Contender	Cool weather crop/Sandy/loamy soil
22	Cauliflower	<i>Brassica oleracea var.botrytis</i>	Fol gobi	Pusa snow ball,Pusa Katki,local Girja	Both sub tropical &intermediate
23	Cabbage	<i>Brassica oleracea var.capitata</i>	Band gobi	Golden Acre,Pride of India,Green Flesh	Both sub tropical &intermediate
24	Knol khol	<i>Brassica oleracea var.gongylodes</i>	Kadam	White vienna,Purple vienna	cool &moist climate/sub tropical
25	Spinach	<i>Beta vulgaris</i>	Palak	All Green,Delta	Cool season Crop, thrives well on well drained loam soils

Abundant	Abundant	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High value protein,Vitamin eB1,B2, B6 and Manganese	Summer season	Farmers / Department/ Private Suppliers	Farmers
Abundant	Abundant	White and tender head ,curdformed from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein,carbohydrate,phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
Abundant	Abundant	Round head withlight to dark green colour	Head Mainly used as vegetable,salad	-	Also good source of protein,carbohydrate,phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
Abundant	Abundant	Swollen stem ,gren/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Private Suppliers	Farmers
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

26	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
27	Turnip	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool & moist climate/sub tropical&interme dite		Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable ,Sal ad,.	-	Good source of Vit.C, Dietary Fiber & Potassium	Rabi	Farmers / Department/ Private Suppliers	Farmers
28	Exocitic Vegetables	<i>Broccoli// Chinese Cabbage / Capsicum etc.</i>		Prevalent Hybrid varieties	Cool & moist climate/sub tropical&interme dite		Rare	Abundant	All Plants parts and Fruits are eatable Rich Source of antioxidants	Salad and Vegetable		Rich Source of Multivitamins, Minierals and Antioxidants	Rabi	Farmers / Department/ Private Suppliers	Farmers
29	Horse gram legume	<i>Macrotyloma uniflorum</i>	Kulth	Local Variety	Warm & dry climate		Normal	Normal	It is a perennial climbing plant with a rhizome	Food		Rich in protein & fibre	kharif	Farmers/ Department/ Private suppliers	Farmers

**Format 2: Fruit Plants**

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder
					Past	Present						
Mango	Mangifera indica	Amb	Local	Plain/Subtropical	Good	Good	Farmers/ Department/Private suppliers	June-August	unripe fruits used for pickle & chutney	Fruit is rich in nutrients	Market/Own use	Local people

**Format 03 Fodder Crop**

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	<b>Oats</b>	<i>Avena spp.</i>	Javi	Annual		Cool & moist climate	Abundant	Abundant	Above ground part of plant	Nutritious & palatable fodder,	Fodder		Farmers
2	<b>Sorghum</b>	<i>Sorghum spp.</i>	charri	Annual	6840	Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Fodder	Farmers / Department/ Private Suppliers	Farmers
3	<b>Maize</b>	<i>Zea mays</i>	Makki	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Food & fodder		Farmers
4	<b>Bajra</b>	<i>Penniselium americanum</i>	Bajra	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Source of energy	Food & fodder	Farmers / Department/ Private Suppliers	Farmers
5	<b>Cowpea</b>	<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	13
S. No.	Plant	Scientific Name	Local Name	Affected Crop	Habit	Landscape/ Habitat	Local Status		Uses if any	Management options	Associated TK	Other details	Community Kn. Holders
							Past	Present					
1	<b>Pig Weed</b>	<i>Amaranthus viridis</i>	Jangli Choulai/ <i>chaleri</i>	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	Farmers
2	<b>Lamb's quarters</b>	<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	Farmers
3	<b>Nut Grass</b>	<i>Cyperus rotundus</i>	Dilla/Motha	Paddy,maize,s ugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Tradionally used as medicine	Farmers
4	<b>Barnyard Grass</b>	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil	Farmers

5	<b>Carrot grass</b>	Parthenium hysterophorus	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Abundant	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage		Farmers
6	<b>Bur Clover</b>	Medicago denticulata	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder,vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Farmers
7	<b>Canary Grass</b>	Phalaris minor	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land	Farmers
8	<b>Meadow Pea</b>	Lathyrus aphaca	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land	Farmers
9	<b>Canada Thistle</b>	Cirsium arvense	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
10	<b>Bang</b>	Cannabis indica	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers

11	<b>Chickweed</b>	<i>Ageratum conyzoides</i>	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
12	<b>Dub Grass</b>	<i>Cynodon dactylon</i>	<b>Khbbl</b>	Rabi/ Kharif	Perennial	Agri. & wasteLand	<b>Abundant</b>	<b>Abundant</b>	<b>Fodder</b>	Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
13	<b>Wild oats</b>	<i>Avena fatua</i>	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Mechanical, Chemical	-	Nutrativ Fodder for Animals	Farmers
14	<b>Wild Rice</b>	<i>Echinochloa colonum</i>	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Mechanical, Chemical	-	Nutrativ Fodder for Animals	Farmers
15	<b>Jhonson Grass</b>	<i>Sorghum halepense</i>	Beru grass	Sorghum	Perinneal	Sub Tropical	Rare	Rare	Fodder	Mechanical, Chemical	-	Nutrativ Fodder for Animals	Farmers

### 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>Microtermes obesi/ Odontotermes obesus</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>Oulema melanopus</i>		Chewing & biting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence	Farmers
5	Red Pumpkin Beetle	<i>Raphidopalpa foveicollis</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, Pheromone 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>Hygro blasses Negro / Hieroglyphus nigropletus</i>	Tidi/Tridda	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves	Farmers
9	Rice Gandi Bug	<i>Leptocorsia acuta</i>	Gandi Bug	Paddy	Paddy at milking stage	July to Oct.	Mechanical& Chemical measures	-	Pierce the grains at milking stage	Farmers
10	Army worm	<i>Spodoptera frugiperda</i>	Caterpillar	All Crops	Defoliates Major crops	Throughout the year	Mechanical& Chemical measures	-	Defoliates all crops	Farmers
11	Leaf Floder	<i>Cnaphalocrocis medinalis</i>	Caterpillar	Feeds on leaves and stem	Attacks on Paddy Leaves	June to Oct.	Mechanical& Chemical measures	-	Major threats	Farmers

12	Stem Borer	<i>Scirpophaga incertulas</i>	Tana shedat/ Caterpillar	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, sorghum, 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 meltada</i>	Chouha/Chua	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 6: Markets for Domesticated animals**

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

**THERE IS NO ORGANISED MARKET IN THE MUNICIPALITY FOR ANY OF THE SPECIES OF ANIMALS LISTED IN FORMAT 15**

**Format 7: Peoplescape**

1	2	3	4	5	6	7	8	9	10	11
Community & Population	Families & Major occupation	Sub-occupation	Depending Landscape	Major resources accessed and seasons of access	Landscape management practices	Resource management practices	Cast / tribe	Social condition	Nature of inhabitants	No. of HHs
Hindu,Muslim, Sikh,Christian	Government Services, private services,Agriculture, Live stock etc	Labourers	Plain and Hilly	Maize (April to ending may),Wheat (Oct to Nov),Mustard (Sep/Oct)	Check Dam	Check Dam	General cast/Scheduled Cast/Scheduled tribes	Average	Farmers,Labourers	870
					Nallah Bank Erosion Structure (Protective Banks)	Nallah Bank Erosion Structure (Protective Banks)				
					Concrete Channel	Concrete Channel				
					Lined Channel	Lined Channel				
					Water Harvesting Structures	Water Harvesting Structures				



**Format 8: Landscape**

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	Cultivated land, plantations, forest, ponds	Forest land, Private, state lands,	Broad leaved mainly	Domestic animals, wildlife such as cow, goat, buffalo etc.	Public, as well as pvt, and Govt also	Modern as well as traditional	Plantation and agriculture			
			Hillocks	plain terrain with gentle slope	Forest land, Private, state lands,	Broad leaved	Domestic animals, wildlife such as Sheep, Goat etc.	Public, as well as pvt, and Govt also		Plantation and agriculture			
Shiwalik areas			Hills	Hills with gentle slopes	Forest land, Private, state lands,	Broad leaved	Domestic animals, wildlife such as Sheep, Goat etc.	Public, as well as pvt, and Govt also		Plantation and agriculture			

### 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			Forest land and Private land	kamal,Baryan,	Frogs , fishes, Tortoise, snakes, snail,	Cattles, washing cloths, etc	public					
Streams			Forest land and Private land		Frogs , fishes, Tortoise, snakes, snail,	Cattles, washing cloths, etc	public					
Tube well			Forest land and Private land		Frogs , fishes, Tortoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public					
Hand pumps			Private		Frogs , fishes, Tortoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public					

**Format 10: Soil Type Block Akhnoor Panchayat **Bharda Kalan** (District Jammu)**

S.No.	Soil	Type	Colour	Features	Soil management	Plants/Crop Suitable	Flora and Fauna	Associated TK	Other Information
1	<b>Sandy Loam</b>	Type B	Soft Dark	Large particle size, Water drains Rapidly	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.	-	Generally not suitable for plants which need lot of water
2	<b>Clay Loam</b>	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	Wheat, gram, pulses etc	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 DOMESTICATED BIODIVERSITY**

1	2	3	4	6		7		8	9	10	11	12	13
Plant Type	Scientific Name	Local Name	Variety	Habit/Landscape		Local Status		Source of plant/seeds	Season of Fruiting	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
						Past	Present						
Mango	Mangifera indica	Amb	Desi, Dusheri, Malta	Alternate Bearing	Plains	Plenty	Plenty	Nurseries	Jun-Aug	Fruit, Pickle, Preserves		Marketing, Own Use	Local people
Citrus Fruit	Citrus spp.	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	Local people
Guava	Psidium guajava	Amrood	Local, L49 etc.	Tree, Regular Bearing	Plains, Lower Hills	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	Local people
Grapes	Vitis vinifera	Angoor	Local Dakh, Perlette	Vine, Regular Bearing	Plains, Mid Hills	Rare	Plenty	Nurseries	Jul - Aug	Fruit			Local people
Amla	Phyllanthus emblica	Ambla	Local Selection, NA-7	Tree, Regular Bearing	Plains	Plenty	Plenty	Nurseries, Local Collections	Nov.- Dec	Pickling Preserve etc		Marketing, Own Use	Local people
Ber	Ziziphus mauritiana lamk	Ber	Gola, Varanasi	Tree, Regular Bearing	Plains	Plenty	Plenty	Local	Jul - Aug	Fruit		Own Use	Local people

Jamun	<i>Syzygium cumini</i>	Jamun	Local Selection	Tree, Regular Bearing	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit		Own Use	Local people
Peach	<i>Prunus persica</i>	Aaroo	July Elberta, Quetta	Tree, Regular Bearing	Plains, mid hills	Rare	Plenty	Nurseries	Jun - Jul	Fruit		Marketing, Own Use	Local people
Karonda	<i>Carissa carandas</i>	Garnay	Local	Shrub	Hills/ Plains	Rare	Rare	Wild, Local	Jun - Aug	Fruit		Marketing, Own Use	Local people
Papaya	<i>Carica papaya</i>	Papita	Local	Tree	Plains	Rare	Plenty	Nurseries, Locally Raised	Aug - Oct	Fruit		Own Use	Local people

### 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	effective in treating digestive problems	Leaves	N.A	N.A	Generally, held by community
Shrubs	Timbru	<i>Zanthoxylum armatum</i>		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Shrubs	brankad	<i>Adhatoda vasica</i>		Lower shiwalik	Seed	Abundant	Abundant	used in indigestion, skin diseases etc		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>Colebrookea 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	useful in treatment of loose motions	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Seed	Rare	Rare	seeds used for indigestion	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Cannabis sativa</i>		Lower shiwalik	Seed	Abundant	Abundant	leaf juice is useful in dandruff		N.A	N.A	Generally, held by community

Tree	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Seed	Abundant	Abundant	used in Anaemia, stomach complaints	Leaves/ Flower	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 bellirica</i>		Lower shiwalik	Seed	Rare	Abundant	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Bill-Patre	<i>Aegle marmelos</i>		Sub-Tropical area	Seed	Abundant	Abundant	nil	Root	N.A	N.A	Generally, held by community
Tree	Drankh	<i>Melia azedarach</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	Leaves/ Flower	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/ Flower	N.A	N.A	Generally, held by community
Tree	Kakad-Singhi	<i>Pistacia khinjuk</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/ Flower	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	Lasuda	<i>Cordia dichotoma</i>		Lower shiwalik	Seed	Rare	Abundant	nil	Leaves/ Fruit	N.A	N.A	Generally, held by community
Tree	Amb	<i>Mangifera indica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem/ Fruit	N.A	N.A	Generally, held by community

Tree	Retha	<i>Sapindus mukorossii</i>		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Rumbal	<i>Ficus racemosa</i>		Lower shiwalik	Seed	Rare	Abundant	fruits used against dry cough	Leaves	N.A	N.A	Generally, held by community
Tree	Sree	<i>Albizia lebbek</i>		Lower shiwalik	Seed	Abundant	Abundant	Bark strengthens gums	Leaves/ Stem	N.A	N.A	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>		Lower shiwalik	Seed	Abundant	Abundant	Bark is antihelminthic&antipyretic	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	Tunu	<i>Toona ciliata</i>		Lower shiwalik	Seed	Abundant	Abundant	bark is astringent &antipyretic	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	Neem	<i>Azadiracta indica</i>		Lower shiwalik	Seed	Abundant	Abundant	leaves are antihelminthic&insecticidal	Leaves/ Bark	N.A	N.A	Generally, held by community
Shrubs	Tulsi	<i>Ocimum sanctum</i>		Warm	Seed/Plant	Normal	Normal	used to cure fever,cold,sore throat etc	Root/ Stem/ Leaves	Sacred	own use	Generally, held by community
Herbs	Kwaadgndl	<i>Aloe barbadensis miller</i>		Sub-Tropical area	Plant	Rare	Rare	antibacterial,antiviral,antiseptic properties	Gel of leaves is used		own use	generally, held by community



**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	Cassia fistula		Flower Fruit	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Gandera	Nerium oleander		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Thumb	Erythrina indica		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Badah	Salix alba		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Climber	Kareer	Rosa acicularis		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	Amb	<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	Tunu	<i>Toona ciliata</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Poplar	<i>Populus ciliata</i>	Lower shiwalik	Rare	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
Trees	Toot	<i>Morus alba</i>	Subtropical	Rare	Abundant	Wild	own	Mulberry fruit is eaten	Wood is used for construction purposes	Generally, held by community
Trees	Taman	<i>Grewia optiva</i>	Subtropical	Rare	Rare	Wild	own	fodder tree	wood is used for making furniture	Generally, held by community

**Format 15: Domesticated Animals**

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Cattle	Gau	Bos indicus	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	Jersey Gau	Bos taurus	CB Jersey	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
	Amrecan Gau	Bos taurus	CB HF	Black and white spot	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Buffalo	Manj	Bubalus bubalis	Local	Low yield	stall feeding	Abundant	Decreased	Dairy	Nil	No	Milk	All
	Punjabi Mais	Bubalus bubalis	Murrah /Graded	Black color body	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Horse	ghoda	Equus caballus	Local	Red color body	Backyard	Abundant	Decrease	Pack/ Cart	Nil	No	Pack/ Cart	All
	Kukkar	Galus domesticus	Local	Enriched meat flavor	Backyard	Abundant	Decrease	Egg ,meat	Nil	No	Egg ,meat	All

Poultry	Farmi Kukkar	<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
	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>Psittacula krameri</i>	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All
	Pigeon	<i>Columba 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
Goat	Bakri	<i>Capra hircus</i>	Local	herbivorous ruminant animal	pet	few	few	Dairy/Meat	Milk is very nutritious	yes	Milk	All

### 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	Labeo rohita	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	-	20%
	Catla	Catla catla	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	-	20%
	Mrigal	Cirrhinus mrigala	Indian Major Carp	cycloid scales, mouth broad ,pharyngel teeth in 3 rows	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	20%
	Common Carp	Cyprinus Carpio	Exortic 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	-	20%

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

**Mode of Catching Fish:-Drag net, Cast net**

**Time of Availability:-** Through out the year

**Breeding Time:-**a)Common Carp-March & December  
b) Rohu,Catla,Mrigal:-June & July

**Feed:-** Ingridents include rice bran, wheat bran, Crushed Maize, Soyabeen , Mustard oil cake.



**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/Taali	<i>Dalbergia sissoo</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Stem, Timber	-	-	Local people
Tree	Khair	<i>Acacia catechu</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	Katha	-	Local people
Tree	Amla	<i>Embilca officinalis</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	Food processing	-	Local people
Tree	Sree	<i>Albizia lebbbeck</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial own use	Timber/ Firewood	-	-	Local people
Tree	Lecunia	<i>Leucaena lencocephala</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Simbal	<i>Bombax ceiba</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Kamila	<i>Mallotus philippensis</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial /own use	Timber/ Firewood	-	-	Local people
Tree	Krangal	<i>Cassia fistula</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Ber	<i>Ziziphus jujuba</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial /own use	Fruit	-	-	Local people
Tree	Plaa	<i>Butea monosperma</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	Local people

Tree	Arjun	<i>Terminalia arjuna</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	Local people
Tree	Jamun	<i>Syzgium cumini</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	Local people
Tree	Amb	<i>Mangifera indica</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	Local people
Tree	Kiker	<i>Acacia nilotoca</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	Local people
Tree	Safeda	<i>Eucalyptus</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	Local people
Tree	Bel	<i>Aegle marmelos</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Leaves/ Fruit	-	-	Local people
Tree	kakoa	<i>Flacourtia indica</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	Local people
Grass	Bamboo	<i>Dendrocalamus Strictus</i>	Grass	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Sticks	-	-	Local people
Herbs	Bhang	<i>Cannabis sativa</i>	herbs	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Leaves	-	-	Local people
Herb	Jojra	<i>Pupalia lappacea</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	-	-	-	Local people
Shrub	Garna	<i>Carissa spinarum</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Fruit	-	-	Local people
Shrub	Panjphuli	<i>Lantana camara</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	-	-	-	Local people
Shrub	Gandila	<i>Nerium indicum</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Flower	-	-	Local people
Shrub	Pansar	<i>wemdlandia heynei</i>	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	-	-	-	Local people



Herbs	congress Grass	<i>Parthenium hysterophrous</i>	herbs	Northern/ Sub-Tropical	Good	Moderate	-	-	-	-	Local people
Tree	Badh	<i>Ficus benghalensis</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	-		-	-	Local people
Tree	Phulai	<i>Acacia modesta</i>	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	Local people
Climber	Jungli bitter melon	<i>Momordica charantia</i>	Climber	Northern/ Sub-Tropical	Good	Moderate	Commercial/own use	Fruit			Local people
Climber	Purple yam	<i>dioscorea alata</i>	Climber	Northern/ Sub-Tropical	Good	Moderate	-				Local people
Climber	Striped cucumber	<i>Diplocyclos palmatus</i>	Climber	Northern/ Sub-Tropical	Good	Moderate	-				Local people

**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	Brenker	<i>Adhatoda vasica</i>	Shrub	-	Good
4	Bhang	<i>Cannabis sativa</i>	Herb	Medicinal	Good
5	Aakh	<i>Ipomea carnea</i>	Shrub	Soil binder	Good
6	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		Uses	Associated TK	Other details	Community/ Knowledge Holders
					Past	Present				
<p>Other details may include mode of catching fish, time of availability, breeding time, etc.</p> <p style="margin-left: 20px;">Mode of Catching Fish:-By Hook &amp; Line, Castnet, Gillnet</p> <p style="margin-left: 20px;">Time of Availability:- Throughout the year</p> <p style="margin-left: 150px;">Breeding Time :- During the month of May &amp; June &amp; Monsoon Season</p>										

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

1	2	3	4	5	6
S. No.	Local Name	Scientific Name	Variety	Importance	Trends

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### Format 22: Wild Plants of Medicinal Importance

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Landscape / Habitat	Local Status		Associated TK	Uses (usage)	Part used	Other details market/ own use	Community/ Knowledge Holder
					Past	Present					
Tree	Arjun	<i>Terminalia arjuna</i>	Local	Northern/Sub-Tropical	Good	Good		Medicinal	Bark	-	Local people
Tree	Amla	<i>Emblica officinalis</i>	Local	Northern/Sub-Tropical	Good	Good	Used in treatment of jaundice	Medicinal	Bark/Fruit	-	Local people
Tree	Harad/Reed	<i>Terminalia chebula</i>	Local	Northern/Sub-Tropical	Good	Good	used in treatment of cough	Medicinal	Bark/Fruit	-	Local people
Tree	Behra	<i>Terminalia bellirica</i>	Local	Northern/Sub-Tropical	Good	Good		Medicinal	Bark/Fruit	-	Local people
Tree	Sukchain	<i>Pongamia pinnata</i>	Local	Northern/Sub-Tropical	Good	Good		Medicinal	Bark	-	Local people
Tree	Jamun	<i>Syzgium cumini</i>	Local	Northern/Sub-Tropical	Good	Good		Medicinal	Fru/Seeds	-	Local people
Tree	Facoda	<i>Ficus palmata</i>	Local	Northern/Sub-Tropical	Good	few	Fruits used in constipation	Medicinal	Fruit	own use	Local people
Tree	Plaa	<i>Butea monosperma</i>	Local	Northern/Sub-Tropical	Good	moderate	Bark & gum is used to trat ulcers	Medicinal	Bark/ Flower/ Gum/ Seeds	own use	Local people



**Format 24: Ornamental Plants**

1	2	3	4	5	6	7	8
Local Name	Scientific Name	Variety	Habitat	Commercial / Non-commercial Uses	Associated TK	Any other Detail	Community/ Knowledge Holder
Gandila	<i>Nerium indicum</i>	Shrub	Northern/ Sub-Tropical	-	-	-	-
Panjtara	<i>Tara spinosa</i>	Shrub	Northern/ Sub- Tropical	-	-	-	-
Bougainvillea	<i>Bougainvillea glabra</i>	Shrub	Northern/ Sub- Tropical	-	-	-	-
Gulmohar	<i>Delonix regia</i>	Tree	Northern/ Sub- Tropical	-	-	-	-

### 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	Mentha spp.		Homestead, agricultural land	Abudant	abudant	Spice	leaves	fresh & dried leaves are used in chutney		Local people
Tree	curry pttā	Murraya koenigii		moist forest and agricultural land	Abudant	abudant	Spice	leaves			Local people
Herb	wild Tulsi	Ocimum sanctum		Moist soil	Abudant	abudant	Medicinal	leaves			Local people



### 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/Taali	<i>Dalbergia sissoo</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Ber	<i>Ziziphus jujuba</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Sagwan	<i>Tectona grandis</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Safeda	<i>Eucalyptus</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Simbal	<i>Bombax ceiba</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Tunu	<i>Toona ciliata</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Jamun	<i>Syzygium cumini</i>	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Toot	<i>Morus alba</i>	Northern/ Sub-Tropical	Good	Moderate	Own use	Timber/ Firewood		Local people
Taman	<i>Grewia optiva</i>	Northern/ Sub-Tropical	Good	Moderate	Own use	Timber/ Firewood		Local people

**Format 27 A: Coastal and Marine Flora**

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

**Format 27 B: Coastal and Marine Fauna**

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

NIL

**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	Leopard	Panthera pardus	Northern/ Sub-Tropical	-	Winter	Good	Good	-	-	-	Local people
Wild Animal	Squirrels/ Galdchua	Sciurus	Northern/ Sub-Tropical	Pest of fruit plants	-	Good	Good	-	-	-	Local people
Wild Animal	Boar	Sus scofra	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Wild Animal	Indian Hare	Lepus nigricollis	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Wild Animal	Bander	Simiiformes catarrhini	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Wild Bird	Red jungle fowl	Gallus gallus	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Wild bird	Rose ringed parakeet	Psittacula krameri	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Wild Animal	Fox	Vulpes	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people

Wild Animal	Porcupine	Erethizon dorsatum	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
wild insects	Grasshopper/ Tridda	Chorthippus brunneus	Northern/ Sub-Tropical	Agricultural pest	-	Good	Good	-	-	-	Local people
wild insects	butterfly/ Titliya	Danaus plexippus	Northern/ Sub-Tropical	Adult butterflies possess bright colored wings	-	Good	Good	-	-	-	Local people
wild insects	bees/Por	Apis mellifera	Northern/ Sub-Tropical	Winged insects known for pollination	-	Good	Good	-	-	-	Local people
wild insects	ants/Keediya	Brachymyrmex patagonicus	Northern/ Sub-Tropical	Common insects	-	Good	Good	-	-	-	Local people
wild insects	Bumble bee	Bombus	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Amphibia	Frog/Didu	Euphlyctis cyanophlyctis	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Reptiles	Tortoises	Lissemys punctata	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Reptiles	Snake/Sap	Natrix	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	Local people
Birds	Gtaary	Passer domesticus	Northern/ Sub-Tropical	strongly associated with human habitations		Good	few				Local people
Birds	Kaa	Corvus splendens	Northern/ Sub-Tropical	primarily a scavenger		Good	moderate				Local people

**Format 29: Flora URBAN BIODIVERSITY**

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

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



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

*End of Part II*