Peoples' Biodiversity Register (PBR): General Details
Name of the Panchayat Samiti: Bhalwal Upper A
Taluk/Tehsil: Bhalwal
District: Jammu
State/UT: Jammu And Kashmir
Geographical Area of the pancahayt Samiti: 8 sqkm
Population Of the Panchayat samitiTotal. 8000
Male= 5000 Female = 3000
Habitat and Topography: Kandi Area
Climate (Rainfall, Temperature and other weather patterns): Subtropical with moderate rainfall
Land Use (Nine fold classification available with village records):
Date, Month and Year of PBR preparation: 31/10/2019
Management Regime: Reserve Forest (RF/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Managed Forest(COM):-

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: Raj Dev Singh Jamwal	
Age: 48	
Gender: Male	
Address: Bhalwal	
Area of specialization:	
2) Name: Sardha Sharma	
Age: 45	
Gender: Female	
Address: Bhalwal	
Area of specialization:	
3) Name : Sonia	
Age: 46	
Gender: Female	
Address: Bhalwal	
Area of specialization:	
4) Name: Mohd Hussan	
Age: 64	
Gender: Male	
Address: Bhalwal	
Area of specialization:	
5) Name: Swran Singh Jamwal	
Age: 66	
Gender: Male	
Address Bhalwal	
Area of specialization:	
6) Name: Rattan Lal Abrol	
Age: 64	
Gender: Male	
Address: Bhalwal	
Area of specialization:	
7) Name: Purshotam Dass Sharma	
Age: 69	
Gender: Male	
Address : Bhalwal	
Area of specialization:	

List of Vaids, hakims and traditional health care (human and livestock) practitioners residing and orusing biological resources occurring within the jurisdiction of the village
1) Name: Nil
Age:
Gender:
Address:
Area of Specialization:
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal use:
2) Name:
Age:
Gender:
Address:
Area of Specialization:
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal use:
3) Name:
Age:
Gender:
Address:
Area of Specialization:
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal use:

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

1) Name:

Age:

Gender:

Address:

Area of specialization:

2) Name:

Age:

Gender:

Address:

Area of specialization:

3) Name:

Age:

Gender:

Address:

-g..

Area of specialization: 4) Name:

Age:

Gender:

Address:

Area of specialization:

Details of schools, colleges, departments, universities, government institutions, nongovernmental biodiversity in agriculture, fisheries, and forestry

1) Contact Person

Name and Address: Mangaal 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.

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

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

End of Part I

							Format 1	: Crop Plants						
1	2	3	4	5	6		7	8	9	10	11	12	13	14
S.No	Crop	Scientfic Name	Local Name	Description of the	Landscape / Habitat	Loca	l status	Special features	Uses	Associated TK	Other details	Cropping	Source of Seeds /	Community /
5.1.0				variety		Past	Present	Special features	0.505			Season	Plants	Known. Holder
				Dekalb double		Rare	Plenty	Tall, high yielding with yellow in colour)						
				K-517		Plenty	Rare							
1	Maize	Zea mays	Maka	Ujala	Sub tropical / Upland	Normal	Plenty	Average tall with yellow in colour	Food & Fodder	Provides energy	energy -	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				K-612		Plenty	Normal						Suppliers	
				Pro Agro-4794		Plenty	Normal	Tall, high yielding with yellow in colour)						
				PDM-54		Normal	Rare	Medium	Medium					
2	Moong	Vigna radiata	Moong	SML-668	Hot / Humid of Sub tropical region	Normal	Plenty	High yielding Variety	Food	Source of Vegetable	Also suitable for green Manuring	Summer/ Kharif	Farmers / Department/ Private	Farmers
				IPM-0203	u oprour region	Normal	Rare	Excessive vegetative growth		Protein	green manuffig		Suppliers	
				PU-19	Warm / Humid of Sub	Normal	Normal		- 1	Source of		Summer/	Farmers /	
3	Mash	Vigna mungo	Mhaa	Utra	tropical region	Normal	Normal	High yielding Variety	Food	Vegetable Protein	-	Kharif	Department/ Privaate Suppliers	Farmers
		Pennisetum		Local Variety	Warm / Humid climate	Normal	Normal	Tall & low Yielding	Food &	Source of		Kharif (May	Farmers /	
4	Bajra	americanum	Bajra	MHB-110	under Sandy loam Soil	Normal	Normal	variety	Fodder	Energy	-	to October)	Department/ Privaate Suppliers	Farmers
5	Wheat	Triticum aestivum	Kanak	HD2967,PBW644	Cool Climate during early part of its growth			High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Private Suppliers	Farmers
6	Lentil	Lens esculenta	Masar	PL406	Cool & dry	Normal	Normal	High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers
7	Chick-pea	Cicer arietinum	Chana	GNG-469/C 235	Cool & dry	Normal	Normal	High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers

8	Peas	Pisum sativum	Matar	Rachna	Cool & dry	Normal	Normal	Early maturing & High	Food	Source of	Used as Vegetable	Rabi	Farmers / Department/ Private	Farmers
0	Tous	i isum Survan	Iviatui	raoma	coor a ury	rtorinar	rtorniur	yielding	1000	Protein/Energy	osee us vegetuble	ituoi	Suppliers	T uniterb
9	Onion	Allium cepa	Ganday	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas	Abundant	Abundant	Bulbs Cash Crop	Vegetab gles	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Private Suppliers	
10	Mustard	Brassica juncea/ Brassica compestris	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
11	Gobhi Sarson	Brassica napus	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
12	Linseed	Linum usitatissimum	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
13	Potato	Solamum tuberosum	Aaloo	Kufri Sindhuri,Kufri Badsha, local	Potato is an herbaceous annual,requirs 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,chi ps etc	-	High carbohydrate,provide high energy value	Rabi	Farmers / Department/ Private Suppliers	Farmers
14	Toria	Brassica campestris L. var. toria	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 calcium,copper, potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Private Suppliers	Farmers
15	Sesame	Sesamum indicum	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
16	Chilli	Capsicum spp	Mirchi	Pusa Jawala, CH-1	Tropica/sub tropicall vegetable,grows well warm humid conditions	Rare	Rare	Pungency and flavor	Used as spice ,medici nal value	-	Contains good amount of vitamin A&C	winter season	Farmers / Department/ Private Suppliers	Farmers
17	Tomato	Solanum lycopersicum	Tamater	Pusa rubi,Pusa early dwarf, Manisha Plus/local	Warm season crop	Rare	Rare	Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,sa lad, soup,Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Private Suppliers	Farmers
18	Okra	Abelmoschus esculentus	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropicall vegetablHot and humid climate	Rare	Rare	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dieta fibers,protein and carbohydratesry	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
19	Cucumber	Cucumis sativus	Kheera	Kheera local,JL	Grows in all climatoic conditions,Tropical,Su b tropical &temprate	Rare	Rare	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

20	Bottle gourd	Lagenaria siceraria	Lokki	PSPL/Punjab Long	Summer &rainy season crop	Rare	Rare	Vines vigrous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Private Suppliers	Farmers
21	Bitter gourd	Momordica charantia	karela	Pusa Domausmi/Kundan	Warm and Humid climate	Rare	Rare	Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maitaining low suger level	Summer/ kharif	Farmers / Department/ Privaate Suppliers	Farmers
22	Beans	Phaseolus Spp.	Phaliya	Contender	Cool weather crop/Sandy/loamy soil	Rare	Rare	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High value protein,Vitamin B1,B2 <b6 and<br="">manganese</b6>	Summer season	Farmers / Department/ Private Suppliers	Farmers
23	Spinach	Spinacia oleracea	Palak	All Green,Delta	Cool season Crop, thrives well on well drained loam soils	Rare	Rare	Tender green leaves & root used as Vegetable		_	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Private Suppliers	Farmers
24	Turnip	Brassica rapa	Gunglu /Shalgam	PTWG/Local	Cool &moist climate/sub tropical&intermedite	Rare	Rare	Modified Root is eatable	Root is used as Vegetable ,Salad,.	-	Good source of Vit.C,Dietary Fiber &Potasium	Rabi	Farmers / Department/ private Suppliers	Farmers
25	Exocitic Vegetables	Brocolli// Chinese Cabbage / Capsicum etc.		Prevelent Hybrid varieties	Cool &moist climate/sub tropical&intermedite	Rare	Rare	All Plants Carts and Fruits are eadable Ric Source of antioxidents	Salad and Vegetable		Rich Source of Multivitimins, Minierals and Antioxidants	Rabi	Farmers / Department/ Private Suppliers	Farmers
26	Horse gram legume	Macrotyloma uniflorum	kulth	Prevalent hybrid varieties	Cold & dry climate	Abundant	Abundant	Seeds are used as pulses	Pulses		Rich source of carbohydrates, proteins and fibres	Kharif	Farmers / Department/ Private Suppliers	Farmers
27	Pigeon pea	Cajanus cajan	Taangr	Prevalent hybrid varieties	Cold & dry climate	Abundant	Abundant	Seeds are used as pulses	Pulses		Rich source of K,protein and iron	Kharif	Farmers / Department/ Private Suppliers	Farmers

	Format 2: Fruit Plants																					
1	2	3	4	5		6	7	8	9	10	11	12										
Plant	Scientific	Local Name	Variety	Landscape /	Local Status		Local Status		Local Status		Local Status		Local Status		Local Status		Source of	Season of	Associated TK	Uses	Other details market /	Community / Knowledge
Flant	Name	Local Name	variety	Habitat	Past Present		Seeds/Plants	Fruiting	Associated TK	Uses	own use	holder										
nil	nil	nil	nil	nil	nil		nil	nil	nil	nil	nil	nil										

	Format 03 Fodder Crop/ Species														
1	2	3	4	5	6	7	٤	8		8		10	11	12	13
S. No.	Plant	Scientific	Local Name	Habit	Area (Approx.)Rabi	Landscape/	Local	Status	Part Used	Associated TK	Other details(mode of	Sources of Seeds	Community		
5.110.	Tiant	Name		Habit	/ Kharif	Habitat	Past	Present			use)	and Plants	Kn. Holders		
1	Oats	Avena spp.	Javi	Annual		Cool & moist climate	Abundant	Abundant	Above ground part of plant	Nutritious & palatable fodder,	Fodder		Farmers		
2	Sorghum	Sorghum spp.	cherri	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Fodder	Farmers /	Farmers		
3	Maize	Zea mays	Makki	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Food & fodder	Department/ Private Suppliers	Farmers		
4	Bajra	Pennisetum americanum	Bajra	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Source of energy	Food & fodder	Farmers /	Farmers		
5	Cowpea	Vigna unguiculata	Rongi	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Kharif Legume with high protein	Fodder	Department/ Private Suppliers	Farmers		

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						Form	nat 04 W	eeds						
1	2	3	4	5	6	7	8	8	9	10	11	12	13	
S. No.	Plant	Scientific Name	Local Name	Affected	Habit	Landscape/	Local	Status	Uses if any	Management	Associated TK	Other details	Community	
5. 110.	riant	Scientific Name	Local Name	Сгор	nabu	Habitat	Past	Present		options	Associated TK	Other details	Kn. Holders	
1	Pig Weed	Amaranthus viridis	Jangli Choulai/Chaleri	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	Lamb's quarters	Chenopodium album	Bathua/ Kanah/Wild Spinach	Wheat, Pea, Potato	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein,Vit. A, Calcium , Phosporous & potash	Annual feed & fermentation of Beverages	Farmers	
3	Nut Grass	Cyperus rotundus	Dilla/Motha	Paddy,maize, sugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Tradionally used as medicine	Farmers	
4	Carrot grass	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	
5	Bur Clover	Medicago denticulata	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder,vegetabl e & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Farmers	
6	Canary Grass	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	
7	Meadow Pea	Lathyrus aphaca	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land	Farmers	

8	Canada Thistle	Cirsium arvense	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
9	Bang	Cannabis indica	Bang/Pang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
10	chickweed	Ageratum conyzoides	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
11	Dub Grass	Cynodon dactylon	Dub Grass/Khbbl	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abundant	Abundant	Fodder	Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
12	Wild oats	Avena fatua	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers
13	Wild Rice	Echinochloa colonum	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers
14	Jhonson Grass	Sorghum halepense	Beru grass	Sorghum	Perinneal	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers
15	wild onion	Allium humaie	Jangli payas	Onion	Annual herb	Temprate/sub tropical	Rare	Rare	Food and medicine	All parts used	-	-	Farmers

				For	mat 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	Lipaphis erysimi	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	Microtermes obesi/ Odontotermes obesus	Telle	Chewing & bitting	Wheat & other crops	Nov-May	Cultural & Chemical measures	-	Major threat to unirrigated crops	Farmers
3	Blister beetle	Mylabris spp.	Ghori	Chewing & bitting	Attacks Maize, Bhindi & Pulses	June-Oct	Mechanical& Chemical measures	-	Insectivorous feed on grasshopper	Farmers
4	Cereal leaf Beetle	Oulema melanopus		Chewing & bitting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence	Farmers
5	Red Pumpkin Beetle	Raphidopalpa foveicollis	Lal Kaddu Beetle	Chewing & bitting	Cucurbits	March-Oct	Chemical measures	-	Most common in fields of Cucurbits	Farmers
6	Cucurbits fruit fly	Bactrocera cucurbitae	Melon fly	Chewing & bitting	Attacks Pumpkin, cucumber & gourds	Throughout the year	Mechanical & Chemical, pheromone trap	-	Danger to all cucumber crops	Farmers
7	Maize stem Borer	Chilo partellus	Sundi /Tana- shedak	Chewing & bitting	Attacks Maize, sorghum , Bajra & sugarcane	July to sept	Mechanical& Chemical measures	-	Causes dead hearts in young plants	Farmers

8	Grasshopper	Hygro blasses Negro / Hieroglyphus nigropletus	Tidi/tridda	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves	Farmers
10	Army worm	Spodoptera Frugiperda	Caterpillar	All Crops	defoliates Major crops	Through the year	Mechanical& Chemical measures	-	Defoliates all crops	Farmers
11	Leaf Floder	Cnaphalocrocis medinalis	Caterpillars	Feeds on leaves and stem	Attack on Paddy Leaves	June to Oct.	Mechanical& Chemical measures	-	Major threats	Farmers
12	Stem Borer	Scirpophaga incertulas	Tana shedat/ caterpillars	Bores into stem results into dead heart	Crops Plants	June to Oct.	Mechanical& Chemical measures	-	Major threats	Farmers
13	Cut worm	Agrotis ipsilon	Ludi	Cuts stem and leaves	Wheat sorghum maize and other	Throughout the year	Mechanical& Chemical measures	-	Major threats	Farmers
14	White Fly	Aleyrodidae		Suks the shap of plants	Sobin Bhindi and all pulses crops	April to Oct.	Chemical measures	-	Major threats	Farmers
15	Field rats	Rattus argentiventer	Chouha/Chua	Nocturnal in habit	Attacks all crops	Throughout the year	Mechanical& Chemical measures	-	Lives in burrows opening hidden in bushes	Farmers
16	Monkey	Rhesus macaque	Bander	Attacks agriculture crops	Forest & human habitat	Throughout the year	Traps & chemosterlization	-	Cause extensive damage to almost all crops,attacks humans	general public/ Farmers

		I	Format 6: Marke	ts for Dome	sticated animals			
1	2	3	4	5	6	7	8	9
Name of the market & location	Weekly (D)/ Fortnightly (D) / Monthly (D) / Biannual (M) / Annual (M) [1]	Types of animals bought and sold [2]	Types and Average Number of animals transacted in a day	Places from which animals are brought	Places to which the animals are sold / transported	Name and location of fish market	Types of fishes sold	Source of fish

				Format 7: P	eoplescape							
1	2	3	4	5	6	7	8	9	10	11		
Community & Population	Families & Major Occupation	Sub- Occupation	Depending Landscape	Major resouces accessed and seasons of access	Landscape management practices	Resource management practices	Cast/ Tribe	Social condition	Nature of inhabitants	No. of HHs		
SC,St & General 8000	Labour & Farming	Animal Husbandry	Agricultural Landscape	-	-	-	SC	Middle Class, BPL	-			
		Major occupation may	y be farming. Sub-oc	cupations could be fis	hing, collection of	'NTFP animal husb	andry, artisans, sei	rvices				
				iding landscapes are a								
	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											
		Major resour How the commu	Examples of depen rces accessed could b unity manages the lar	iding landscapes are a be agriculture resource idscapes they use for s	griculture landscap es of different natur satisfying different	be, rivers, forest etc re, fish, birds, water needs, their strateg	r, mud, and etc ies and perception					

	Format 8: Landscape												
	1		2	3	4	5	6	7	8	9	10	11	12
Major 1	Landscap	es	Sub -	Features and	0	G 18	General	User	Management		Associated	Other	Community
Agricultural land	Pond	Fallow Land	Landscapes	approx. Area	Ownership	General flora	fauna	groups	practices	General uses	ТК	details	accessed
Ka	Kandi area		Cultivated land,forests,plan tations	hilly	Private ,state lands,	Broad leaved mainly	Domestic animals, wildlife such Cow,buffalo,goat etc.	Public, as well as		Plantation and agriculture			
			Hillocks	plain terrain with gentle slope	Private ,state lands,	Broad leaved and conifers	Domestic animals, wildlife such as vulture 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			Private land	kamal,Baryan,	Frogs , fishes, Tortoise, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	public						
Tube well	Image: Tube well Image: Market Ma												
	Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,												

				F	ormat 10 Soil Type				
1	2	3	4	5	6	7	8	9	10
S.No.	Soil	Туре	Colour	Features	Soil management	Plants/Crop Suitable	Flora and Fauna	Associated TK	Other Information
1	Sandy Loam	Туре В	Soft Dark	Large particle size,Water drains Rapedily	Add compost,humus, Green Manuring, Decomposed manure etc improves soil quality for better plant growth	Beans, Tomato, Potato, Cucumber, onion, eggplants, carrot, Spinach etc.	Succulants like cacti, Lambs ear, etc.	-	Genrally not suitable for plants which need lot of water
2	Clay Loam	Туре А	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,pulses,oil seeds etc	Ornamental Plants/ grasses, plants with evergreen leaves,colourful Berries	-	Soil is good for wild varieties of crops, however drainage is a problem
3	Mountainous		Yellow brown to light orange	poorly developed relatively infertile	Provide good drainage, add decomposed manure to improve soil quality.	Wheat,Barley etc			Soil is not suitable for water intensive crops

					Forma	at 11 Fru	it trees						
1	2	3	4	5	6	7	1	8	9	10	11	12	13
					Landscape /	Local	Status	Source of	Seasons of		Associated	Others Details	Community /
Plants	Scientific Name	Local Name	Variety	Habit	Habitat	Past	Present	Plants / Seeds	Fruiting	Uses (Usages)	TK	Market / Own Use	Know Holder
Mango	Mangifera indica	Aam	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	Ber	Gola, Varanasi	Tree, Regular Bearing	Plains	Plenty	Plenty	Local	Jul - Aug	Fruit		Own Use	Local people
Jamun	Syzygium cumini	Jamun	Local Selection	Tree, Regular Bearing	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit		Own Use	Local people
Pear	Pyrus spp.	Nakh	Pathar Nakh, China Pear	Tree, Regular Bearing	Plains, mid hills	Rare	Rare	Nurseries	Aug - Sep	Fruit		Own Use	Local people
Peach	Prunus persica	Aaroo	July Elberta, Quetta	Tree, Regular Bearing	Plains, mid hills	Rare	Plenty	Nurseries	Jun - Jul	Fruit		Marketing, Own Use	Local people
Karonda	Carissa carandas	Garnay	Local	Shrub	Hills/ Plains	Rare	Rare	Wild, Local	Jun - Aug	Fruit		Marketing, Own Use	Local people

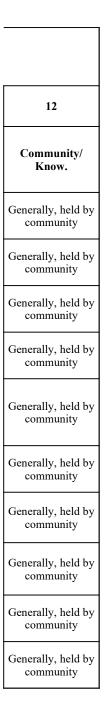
Papaya	Carica papaya	Papita	Local	Tree	Plains	Rare	Plenty	Nurseries, Localy Raised	Aug - Oct	Fruit	Own Use	Local people
Banana	Musa paradisiaca	kela	Local	Tree	plain/hilly	Rare	Rare	Locally raised	Jun - Sep	Fruit	Own use	Local people
Loquat	Eriobotrya japonica	lgaath	Local	Tree	plain/hilly	Rare	Rare	Locally raised	Sep- Jan	Fruit	Own use	Local people

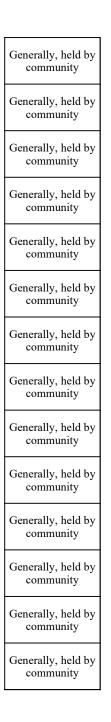
				Format 12: Me	edicinal Pla	ants (Herb	os, Shrubs	, Trees etc.)			
1	2	3	4	5	6	,	7	8	9	10	11
Diant Type	Local Name	Scientific Name	Variety	Landscape/	Source of	Local	status	Uses (usage)	Part used	Associated	Other details
Plant Type	Local Name	Scientific Ivanie	variety	Habitat	plant/seeds	Past	Present	Uses (usage)	Fart used	ТК	market/own
Herbs	Dudlu	Taraxacum officinale		Temperate area	Root	Rare	Rare	nil	Leaves	N.A	N.A
Herbs	Tarad	Dioscorea bulbifera		Lower shiwalik	Seed	Abundant	Abundant	nil	Root	N.A	N.A
Herbs	Jungli putna	Mentha arvensis		Lower shiwalik /Temperate area	Root	Abundant	Abundant	nil	Leaves	N.A	N.A
Shrubs	Trimuru	Zanthoxylum armatum		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A
Shrubs	brankad	Adhatoda vasica		Lower shiwalik	Seed	Abundant	Abundant	Used in treatment of indigestion,skin diseases,excessive bleeding etc		N.A	N.A
Shrubs	Drainkdu	Murraya koenigii		Sub-Tropical area	Seed	Rare	Abundant	nil	Fruit	N.A	N.A
Shrubs	Dussa	Colebrookea oppositifolia		Lower shiwalik	Seed	Rare	Rare	leaves are applied on painful joints & swelling	Flower	N.A	N.A
Shrubs	Thor/Shuu	Euphorbia royleana		Lower shiwalik	Seed	Abundant	Abundant	Used for treatment of loose motions,ear pain,paralysis	Leaves	N.A	N.A
Shrubs	Bareyan	Acorus calamus		Lower shiwalik	Seed	Rare	Rare	nil	Leaves	N.A	N.A
Tree	Bair	Ziziphus xylocarpa		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A

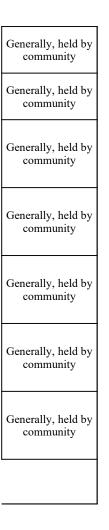
Tree	Bill-Patre	Aegle marmelos	Sub-Tropical area	Seed	Abundant	Abundant	nil	Root	N.A	N.A
Tree	Drankh	Melia azedarach	Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves	N.A	N.A
Tree	Harad	Terminalia chebula	Lower shiwalik	Seed	Abundant	Abundant	Good for digestion	Stem/Fruit	N.A	N.A
Tree	Jaman	Syzygium cumini	Lower shiwalik	Seed	Abundant	Abundant	maintains sugar level in human body	Leaves/Fruit	N.A	N.A
Tree	Kakad-Singhi	Pistacia khinjuk	Lower shiwalik	Seed	Rare	Rare	bark is useful in skin diseases & ulcers	Leaves/Fruit	N.A	N.A
Tree	Kalyaad	Bauhinia variegata	Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Flower	N.A	N.A
Tree	Kringal	Casia fistula	Lower shiwalik	Seed	Abundant	Abundant	nil	Fruit	N.A	N.A
Tree	Lasura	Cordia dichotoma	Lower shiwalik	Seed	Rare	Abundant	Fruits are used in cholera &dysentry	Leaves/Fruit	N.A	N.A
Tree	Amb	Mangifera indica	Lower shiwalik	Seed	Abundant	Abundant	nil	Stem/Fruit	N.A	N.A
Tree	Retha	Sapindus mukorossii	Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A
Tree	Rumbal	Ficus racemosa	Lower shiwalik	Seed	Rare	Abundant	nil	Leaves	N.A	N.A
Tree	Sree	Albizzia lebbeck	Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A
Tree	Talli	Dalbergia sissoo	Lower shiwalik	Seed	Abundant	Abundant	used in sore throat	Stem	N.A	N.A
Tree	Trimbal	Ficus auriculata	Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A

_												
	Tree	Tunu	Toona ciliata		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A
	Tree	Arjun	Terminalia arjuna		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Bark	N.A	N.A
	Tree	Bheda	Terminalia bellirica		Lower shiwalik	Seed	Abundant	Abundant	used in treatment if respiratory conditions like cough	Leaves/Bark	N.A	N.A
	Tree	Amla	Emblica officinalis		Lower shiwalik	Seed	Abundant	Abundant	Used in treatment if Anaemia,piles,stomac h complaints	Leaves/Bark/fruit	N.A	N.A
	Tree	Neem	Azadirachta indica		Lower shiwalik	Seed	Abundant	Abundant	leaves are antihelminthic,diuretic ,insecticidal	Leaves/Bark	N.A	N.A
	tree	Khair	Acacia catechu		Lower shiwalik	Seed	Abundant	Abundant	Used for treatment of cold,cough,mouth ulcers,indigestion,diar rhoea	Leaves/Bark	N.A	N.A
	Shrubs	Bhang	Cannabis sativa		Lower shiwalik	Seed	Abundant	Abundant	leaf juice is useful in dandruff &lice infestations	Leaves/Bark	N.A	N.A
Γ			Natau	E 1/ W-+	in any Madiaina / II.		(C-1 1::-:	lilva fan ahild	ron womon oto) / Agric	161 D		

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	Casia 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	Thub	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	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			
			Habitat	Past	Present	what home garden			other details				
Trees	Kiker	Acacia nilotica	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community			
Trees	Amb	Mangifera indica	Lower shiwalik	Abundant	Abundant	Wild/ home- garden	own	nil	nil	Generally, held by community			
Trees	Safeda	Eucalyptus spp.	Lower shiwalik	Rare	Abundant	Wild	commercial	nil	nil	Generally, held by community			
Trees	Sree	Albizzia lebbeck	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community			
Trees	Talli	Dalbergia sissoo	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community			
Trees	Tuni	Toona ciliata	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community			
Trees	Popular	Populus ciliata	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community			
Trees	chir	Pinus roxburghii	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community			
Trees	Jammun	Syzygium cumini	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community			

	FORMAT15: DOMESTICATED ANIMALS												
1	2	3	4	5 Features	6	7 Local Status		8 Uses	9 Associated TK	10	11	12 Community	
Animal Type	Local Name	Scientific Name	Breed		Method of keeping					Commercial	Other Detail		
Annai Type	Local Name	Scientific Name	(local/Hybrid)			Past	Present	USES	Associated TK	rearing	Other Detail	know holders	
	Gau	Bos indicus	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All	
Cattle	Jersy Gau	Bos taurus	CB Jersy	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	
Bunaio	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	
Mule	khacchar	Equus asinus × Equus caballus	Local	Black	Backyard	Abundant	Decrease	Pack/ Cart	Nil	No	Pack/ Cart	All	
	Kukkar	Gallus domesticus	Local	Enriched meat flavor	Backyard	Abundant	Decrease	Egg ,meat	Nil	No	Egg ,meat	All	
Poultry	Syzygium cimini	Gallus domesticus	Chabro	good egger	Backyard	few	Increased	Egg,meat	Nil	No	Egg ,meat	All	
	Broiler	Gallus domesticus	Hybrid	white color , fast growing	deep litter	few	Increased	meat	Nil	Yes	Meat	All	

	Chakore	Alectoris chukar	Local	black and white stripes ,beak is short, strong, and orange in color	Backyard	few	Decrease	Egg,meat	Nil	Yes	Egg, Meat	All
bird	Parrot	Psittacula krameri	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All
	Pigeon	Columba livia	Local	white color , fast growing	Backyard	few	Decrease	decorative	Nil	No	nil	All
Dog	Kutta	Canis familiaris	Local	Nil	Pet ,Stray	Abundant	Abundant	Nil	Nil	No	Nil	All / stray
Cat	Billi	Felis catus	Local	Grey /white color	Pet ,Stray	Abundant	Abundant	pet	Nil	No	Nil	All / stray
Rabbit	Khargosh	Oryctolagus cuniculus	White gaint	white	Pet ,wild	few	few	Pet	Nil	No	Nil	All / wild
Goat	bakri	Capra hircus		herbaceous ruminant animal	Pet	few	decreased	Dairy/Meat	Milk is very nutritious	yes	Milk	All

	Format 16: Culture Fisheries													
1	2	3	4	5	6		7		9	10	11	12		
Fish Type	Local name	Scientific Name	Variety	Features	Waterscape (Pond/bheri/talao)	Local status		Uses	Associated TK	Commercial	Other	Community Know. Holders		
				T cutures		Past	Present	0.505		rearing	deatails	Holders		

	Format 17: Markets / Fairs for Domesticated Animals, Medicinal Plants and other products											
1	2	3	4	5	6	7	8	9				
Name of the weekly market/ fair	Location	Weekly / Fortnightly & others Bi annual/ Annual	Day held	Month incase of bi- annual or annual market fair	Types of animal bought and sold	Number of animals (average) transacted in a day	Places from where from animals are arrived	Places to where the animals are transported				
Karwanda pond	Karwanda pond	Annual		Nil	Buffalo,cow etc	15-20	Punjab,Haryana,local	Nearby villages				

		WILD B	IODIVE	RSITY FORM	AT 18: 7	Гrees, Shr	ubs,Herbs,T	ubers,Grasses,Cli	imbers etc		
1	2	3	4	5	6		7	8	9	10	11
Plant	Local Name	Scientific Name	Habit	Habitat	Loc	al status	Commercial/	Part collected	Associated TK	Other details	Community Knowledge Holder
Туре		Scientific Franke	mabh	Hubitut	Past	Present	own use	i art concettu			
Tree	Shisham/Talli	Dalbergia sisoo	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Stem, Timber	-	-	Local people
Tree	Khair	Acacia catechu	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	Katha	-	Local people
Tree	Amla	Emblica officinalis	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	Food processing	-	Local people
Tree	Sree	Albizia lebbeck	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Chir	Pinus roxburghii	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	Resin	-	Local people
Tree	Lecunia	Leucaena leucocephala	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Simbal	Bombax ceiba	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Kamila	Mallotus philippensis	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Krangal	Casia fistula	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Ber	Ziziphus jujuba	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	Local people
Tree	Plash	Butea monosperma	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Arjun	Terminalia arjuna	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Jamun	Syzygium cumini	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Santha	Dodonaea viscosa	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people

-				Northern/	G 1		Commercial/	T. I.			T 1 1
Tree	Amb	Mangifera indica	Tree	Sub-Tropical	Good	Moderate	own use	Fruit	-	-	Local people
Tree	Kiker	Acacia nilotica	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Sagwan	Tectona grandis	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Safeda	Eucalyptus	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	Local people
Tree	Bel	Aegle marmelos	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Leaves/ Fruit	-	-	Local people
Tree	kakoa	Flacourtia indica	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	Local people
Grass	Bans	Dendrocalamus strictus	Grass	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Sticks	-	-	Local people
Herbs	Bhang	Cannabis sativa	herbs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Leaves	-	-	Local people
Shrub	Jojra	Pupalia lappacea	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	_	-	-	Local people
Shrub	Garna	Carissa spinarum	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	Local people
Shrub	Panjphuli	Lantana camara	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	_	-	-	Local people
Shrub	Gandila	Nerium indicum	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Flower	-	-	Local people
Shrub	Pansar	Wendlandia heynei	Shrubs	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	_	-	-	Local people
Herbs	congress Grass	Parthenium hysterophrous	herbs	Northern/ Sub-Tropical	Good	Moderate	_	_	-	-	Local people
Tree	Badh	Ficus religiosa	Tree	Northern/ Sub-Tropical	Good	Moderate	_		-	-	Local people
Tree	Phulai	Acacia modesta	Tree	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	_	-	Local people
Climber	Tarad	Dioscorea bulbifera	Climber	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Roots			Local people
Climber	Jungli bitter melon	Momordica charantia	Climber	Northern/ Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit			Local people

Climber	Purple yam	Diascorea alata	Climber	Northern/ Sub-Tropical	Good	Moderate	_		Local people
Climber	Striped cucumber	Diplocyclos palmatus	Climber	Northern/ Sub-Tropical	Good	Moderate	_		Local people

		Format 19: V	Vild Plant Species of Ir	nportance	
1	2	3	4	5	6
SLNo	Local Name	Scientifice Name	Variety	Importance(as economic,social,cultural etc.)	Status
1	Santha	Dodonaea viscosa	Shrub	Firewood	Good
2	Kanner/Lal Gandila	Nerium indicum	Shrub		Good
3	Daduni	Punica granatum	Shrub	Live Hedge fencing	Good
4	Brenker	Adhatoda vasica	Shrub	-	Good
5	Bhang	Cannabis sativa	Shrub	Medicinal	Good
6	Aakh	Ipomea carnea	Shrub	Soil binder	Good
7	pansar	Wendlandia heynei	Shrub	Firewood	Good

			Format 20: Aquatic Bio	diversity					
1	2	3	4	5		6	7	8	9
I. I.N.				TT 1 4 4	Local	Status			Community/
Local Name	Scientifice Name	Variety	Features	Habitat	Past	Present	Associated TK	Other details	Knowledge Holder
Juk	Gastropoda		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	Cyprinus carpio		Dorsal fin base longh wioth 17-22 branched rays and a strong toothed spine in front, pharyngeal teeth 5:5 teeth with flattened crowns.		Good	Good			
Broun trout	Salmo trutta		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	Testudines		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	Potamogeton pectinatus		is a perennial ata 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 wate. It is noted for attracting wildlife.		Good	Good			
kamal	Nelumbo nucifera		edible, with rhizome ,seeds, and leaves have been used as folk medicine, ayurveda and oriental medicine		Good	Good			
Water Spinach	Ipomoea aquaticum		it contains abundant quantities of water, iron, vitaminC, Vitamin A and other nutrients		Good	Good			
Watercress	Rorippa nasturtium - aquaticum		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		Good	Good			

		Format 21: Wild	Aquatic Plant Speci	es of Importance	
1	2	3	4	5	6
SI.No	Local Name	Scientifice Name	Variety	Importance	Trends
1	Lotus	Nelumbo nucifera		edible, with rhizome ,seeds, and leaves have been used as folk medicine, ayurveda and oriental medicine	
2	Water Spinach	Ipomoea aquaticum		it contains abundant quantities of water, iron, vitaminC, Vitamin A and other nutrients	
3	Watercress	Rorippa nasturtium - aquaticum		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				
Plant (Herb,Shrub,	Local Name	Scientific Name	Variate	Landssons/Habitat	Local	Status	Uses (usego)	Part used	Other details	Community/				
Tree)	Local Name	Scientific Name	Variety	Landscape/ Habitat	Past	Present	Uses (usage)	rart useu	market/own use	Knowledge Holder				
Tree	Arjun	Terminalia arjuna	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark	-	Local people				
Tree	Amla	Emblica officinalis	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark/ Fruit	-	Local people				
Tree	Harad	Terminalia chebula	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark/ Fruit	-	Local people				
Tree	Behra	Terminalia bellerica	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark/ Fruit	-	Local people				
Tree	Sukchain	Pongamia pinnata	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Bark	-	Local people				
Tree	Jamun	Syzygium cumini	Tree	Northern/Sub-Tropical	Good	Good	Medicinal	Fruit /seeds	-	Local people				

	Format 23: Wild relatives of Crops														
1	1 2 3 4 5 6 7 8 9 10														
	ocal Name Scientific Name Associated crop Landscape/ Unbit the Uses (usage) Part Used Associated TK Other details Community/Know holder														
Local Name	Scientific Name	Associated crop	Habitat	Past	Present	Uses (usage)	Part Used	Associated 1K	Other details	Community/Know holder					
					NI	L									

	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	Nerium indicum	Shrub	Northern/ Sub-Tropical	-	-	-	-							
Panjtara	Tara spinosa	Shrub	Northern/ Sub-Tropical	-	-	-	-							
Bougainvillea	Bougainvillea glabra	Shrub	Northern/ Sub-Tropical	-	-	-	-							
Gulmohar	Delonix regia	Tree	Northern/ Sub-Tropical	-	-	-	-							

	Format 25:Fumigate/Chewing Plants													
1	2	3	4	5		б	7	8	9	10	11			
Plant (Hork Shruk			Hakitat	Local	Status	Uses	Dout used	Associated TV	Other	Community				
(Herb,Shrub, Tree)	Local Name	Scientific Name	Variety	Habitat	Past	Present	(Usage)	Part used	Associated TK	details(mode of use)	/Knowledge holder			
Herb	Pudina	Mentha spp.		Homestead, agricultural land	Rare	Rare	Spice	leaves						
Tree	curry tree	Murraya koenigii		moist forest and agricultral land	Rare	Rare	Spice	leaves						
Herb	wild Tulsi	Ocimum sanctum		Moist soil	Rare	Rare	Medicinal	leaves						

			For	mat26: Tir	nber Plants			
1	2	3		4	5	6	7	8
Land	Colored (* Norma	H 1 1/1 /	Local	Status				Community /Knowledge
Local Name	Scientific Name	Habitat	Past	Present	Other Uses ,if any	Associated TK	Other Details	holder
Chir	Pinus roxburghii	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Shisham/Taali	Dalbergia sissoo	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Ber	Ziziphus jujuba	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Sagwan	Tectona grandis	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Safeda	Eucalyptus	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Simbal	Bombax ceiba	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Tunu	Toona ciliata	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people
Jamun	Syzygium cumini	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	Local people

	Format27 A:Coastal and Marine Flora														
1	1 2 3 4 5 6 7 8 9 10														
Plant Type	Local Name	Scientific Name	Habitat	Local	status	Part collected	Commercialuses(if	Other Uses	Associated TK	Community Knowledge Holder					
T fant Type	Local Manie	Sciencine Name	Habitat	Past	Present	T at t conected	any)	Other Uses	Associated TK	Knowledge Holder					
					٦	NIL									

	Format 27 B:Coastal and Marine Fauna														
1	2	3	4		5	6	7	8	9	10					
A	Animal Type Local Name Scientific Name Habitat Habitat Local status Part collected (if any) Other Uses Associated TK Community Knowledge														
Animai Type	Local Name	Name	Habitat	Past	Present	any)	any)	Other Uses	Associated 1K	Holder					
	NIL														

		For	mat 28: Wild Anim	al (Mammals,Birds,	Reptiles,A	mphibia	a,Insects,	others)			
1	2	3	4	5	6		7	8	9	10	11
Animal Type	Local Name	Scientific Name	Habitat	Description	Season	Local	status	Uses ,if any	Associated TK	Other	Community Knowledge
Animal Type	Local Ivaine	Scientific Name	nabitat	Description	when seen	Past	Present	Uses , ii any	Associated 1 K	Details	Knowledge Holder
Wild Animal	Leopad/Chitra	Panthera Pardus	Northern/ Sub-Tropical	Skin colour varies between individuals from pale yellowish to dark golden with dark spots	Winter	Good	Good	-	-	-	local people
Wild Animal	Squirrels/Galadchua	Sciurus linnaes	Northern/ Sub-Tropical	pests of mostly 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	Monkey/Bander	Cercopithecidae	Northern/ Sub-Tropical	Arboreal,Agricultural pests,cause extensive damage to commercial & subsistence crops	-	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/lombdi	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	pests of crop plants	-	Good	Good	-	-	-	local people
wild insects	butterfly	Danaus plexippus	Northern/ Sub-Tropical	Adult butterflies have large bright colored wings & conspicuous fluttering flight	-	Good	Good	-	-	-	local people
wild insects	bees/Por	Apis mellifera	Northern/ Sub-Tropical	Bees are winged insects ,known for thein role in pollination	-	Good	Good	-	-	-	local people
wild insects	ants/Keediyaa	Brachymyrmex patagonicus	Northern/ Sub-Tropical	Common insects but have some unique capabilities	-	Good	Good	-	-	-	local people
wild insects	Bumble bee	Bombus	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	local people
Amphibia	Frog/didu	Euphlyctis cyanophlyctis	Northern/ Sub-Tropical	Typically lay eggs in water.Egg hatch into aquatic larva called Tadpoles	-	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 habitation	Throughout the year	Good	decreasing				Local people
Birds	Kaa	Corvus splendens	Northern/ Sub-Tropical	Primarily a scavenger feeding on left over rubbish from humans	Throughout the year	Good	decreasing				local people

	URBAN BIODIVERSITY						
Format 29: Flora							
1	2	3	4	5	6	7	
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)	
	Note: Separate format should be used for road side plantation / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat						

	Format 30: Fauna						
1	2	3	4	5	6		
S.No	Local Name	Scintific Name	Type of Animals(Mammals /Birds/Fish/Insects etc.)	Habitat	Remarks(Rare/common etc.		

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

End of Part II