

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: Gutassa

Taluk: Bharderwah

District: Doda

State: J&K UT

Geographical Area of the Panchayat Samiti: 87.4 Hac.

Population under the Panchayat Samiti: 685

Male: 343

Female: 342

Habitat and Topography: Hilly and plain both

Climate (Rainfall, Temperature and weather patterns): Temperate area with Moderate rainfall

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

Date, Month and Year of PBR Preparation: 16 09 22

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

Annexure 1

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

1)Name of the Chairperson: Dharam Singh

Age: 42

Gender: Male

Address: Gutassa

Area of specialization: Sarpanch

2) Name: Bipna Devi

Age: 40

Gender: Female

Address: Karyan Parshali

Area of specialization:

3) Name:- Rekha Devi

Age: 41

Gender: Female

Address: Gutassa

Area of specialization:

4)Name: Om Kar

Age: 36

Gender: Male

Address: Lanchandar

Area of specialization:

5)Name: Jaswant

Age: 48

Gender: Male

Address: Gutassa

Area of specialization:

6)Name: Nardev Singh

Age: 35

Gender: Male

Address: Gutassa

Area of specialization:

7)Name: Tosheed Ahmed

Age: 35

Gender: Male

Address: Bhalla

Area of specialization: Secretary Panchayat

List of Vaid, hakims and traditional health care (Human and livestock) practitioners residing and or using biological resources occurring within the jurisdiction of the village

1) Name :Krishan Lal

Age: 50 yrs.

Gender: Male

Address: Gutassa

Area of specialization: Ved

Location from which the person accesses biological material: forest

Perception of the practitioner on the resource status: satisfactory

Medicinal Use: treatment of different Diseases.

2) Name: Kanta Devi

Age: 55 yrs

Gender: Female

Address: R/o Gutassa

Area of specialization: Joint Specialist

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use: treatment of joints. And Bones

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 of the Chairperson: Mohinder Singh

Age: 34

Gender: Male

Address: Bheja

Area of specialization: Agriculture

2) Name of the Chairperson: Raj Kumar

Age: 38

Gender: Male

Address: Bheja

Area of specialization: Agriculture

3) Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

4) Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

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

1) Contact Person:

Name and Address:

2) Contact Person:

Name and Address:

3) Contact Person:

Name and Address:

4) Contact Person:

Name and Address:

You may add names of more institutions/NGO/Individuals etc, if necessary

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

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

Part II
PBR – Formats
AGROBIODIVERSITY

Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape /Habitat	Approx Area Sown	Local Status		Special features	Cropping Season	Uses	Associated TK	Other Details	Source of Seeds / Plants	Community /Knowledge Holder
						Past	Present							
Maize	<i>Zea mays</i>	Kookri	Plandri, Rashi4794, Bio-9621, Bio-9220	Hilly temperate and intermediate		Abundant	Abundant	April sown, local variety dentles, corn & flour sweet in taste	Kharif	Major food item, used as flour, feed to cattle, poultry etc.	Local variety plandri sown before 15 th april.	NA	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Kale	<i>Brassica oleracea</i>	Haak	G.M Dari, Khanyari	Hilly temperate and intermediate		Plenty	plenty	high yield production	Kharief and Rabi crop	Ass vegetable	Rich in fibre	Suitable for all areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Bottlegourd	<i>Lagenaria siceraria</i>	Aul	Local variety	Hilly temperate and intermediate		Plenty	plenty	high yield production	Kharief	As vegetable	good for health	Suitable for all areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Potato	<i>Solanum tuberosum</i>	Aalu	Pahadi aalu	Hilly temperate and intermediate		Plenty	plenty	high yield production	kharief	as vegetable and chips	rich in proteins and carbohydrates	suitable for almost plain areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Frenchbeans	<i>phaseolus vulgaris</i>	frashbean	pahadibeans	Hilly temperate and intermediate		local varieties	Improved varieties and high production	high yield production	may to october	As vegetable	rich in iron and magnese	Suitable for all areas	HH kept seed, Deptt. Of agriculture, private seed dealers	Local/ Aged farmers of rural communities possess TK
Tomato	<i>Lycopersicum esculentum</i>	Rotawanghun	cherry tomato, roma SS-1	Mid/temperate hills		Local varieties	Improved varieties and high production	NA	July-September	as vegetable and jam	Rich in vitamin C and Lycopene	NA	Seed being traditionally cultivated and focussed locally	Local/ Aged farmers of rural communities possess TK

Format-2 : Fruit Plants

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape /Habitat	Local Status		Source of Seeds / Plants	Season of fruiting	Associated TK	Uses	Other Details market / own use	Community /Knowledge Holder
					Past	Present						
Apple	<i>Malus domestica, borkh</i>	Saib	Red Delicious, Golden Delicious, Maharaji, American etc.	Temperate Hills	Rare	Plenty	Nurseries	Aug-Oct		Fruit, Economy Generation	Marketing, Own use	department of horticulture
Pear	<i>Pyrus spp.</i>	Nakh	Patharnakh, China pear	Mid Hills	Plenty	Plenty	Nurseries	Aug-Sep		Fruit, Economy Generation	Marketing, Own use	department of horticulture
Peach	<i>Prunus persica (L) batsch</i>	Aaroo	July Elberta, Quetta	Mid Hills	Rare	Rare	Nurseries	June-July		Fruit	Marketing, Own use	department of horticulture
Apricot	<i>Prunus armeniaca</i>	Khubani, Sadi	Local apricot, Bebcu	Mid Hills	Plenty	Plenty	Nurseries	June-July		Fruit	Own Use	department of horticulture
Walnut	<i>Juglans regia</i>	Akhrot	Paper/Thin Shelled, Hard & Medium Shelled	Temperate Hills	Plenty	Plenty	Nurseries& Locally raised	Sept-Oct		Dry-fruit, Economy generation	Marketing, Own use	department of horticulture
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	Santa rosa. Aloo Bukhara	Mid Hills	Rare	Rare	Nurseries& Locally raised	July-Aug		Fruit	Own use	department of horticulture
Pecannut	<i>Carya illinoensis</i>	Pecan	Western shell	Mid/temperate hills	Rare	Nurseries		Sept-Oct		Dry Fruit	Marketing, Own use	department of horticulture
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	Santa rosa, Allo Bukhara	Mid Hills	Rare	Nurseries, locally raised		July-august		Fruit	Own use	department of horticulture
Persimmon	<i>Dios pyrus</i>	Amlook	Local	Mid/temperate hills	Rare	Locally raised		July-august		Fruit	Marketing, Own use	department of horticulture

Quince	<i>Cydonia oblonga</i>	Bhai	Local	Mid/temperate hills	Rare	Rare	locally raised	July-September		Fruit, Seed	own use, Marketing	department of horticulture
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Format 3:-Fodder Crops / Species

1	2	3	4	5		6	7	8	9	10
Plant	Scientific Name	Local Name	Landscape /Habitat	Local Status		Source of Seeds / Plants	Associated TK	Part Used	Other Details	Community /Knowledge Holder
				Past	Present					
Oats	<i>Avena sativa</i>	Ghaas	Temperate/ Intermediate	Local varieties	Improved varieties	Self	Stored in locally made indigenous structure called "Tye"	Crop	NA	NA
Berseem (Egyptian Clover)	<i>Trifolium alexandrinum</i>	Gjaas	Irrigated areas	NA	Improved varieties	Self	NA	Crop	NA	NA
Dub grasses	<i>Cynodon dactylon</i>	Dub grasses	Temperate/ Intermediate	local varieties	local varieties	self	NA	Whole	use as a fodder	local farmers of rural community
Loonder grass	<i>Themeda anathera</i>	ghass	Temperate/ Intermediate	local varieties	local varieties	self	NA	Whole	om making and use	local farmers of rural community
Milkweed	<i>Euphorbia thymifolia</i>	Dudli	Temperate/ Intermediate	local varieties	local varieties	self	NA	crop	containing milky fluid like substance	local farmers of rural community
sorghum	<i>Sorghum bicolor</i>	charri	Temperate/ Intermediate	local varieties	local varieties	self	NA	crop		local farmers of rural community
crowfoot grass	<i>Dactyloctenium australe</i>	Beran	Temperate/ Intermediate	local varieties	Improved varieties	self	NA	Crop	containing lots of fibre	local farmers of rural community
Johnson grass	<i>Sorghum halepense</i>	Bray	Temperate/ Intermediate	local varieties	Improved varieties	self	NA	crop	ociated with maize	local farmers of rural community
lambs quarters	<i>Chemopodium album</i>	kunah	Temperate/ Intermediate	local varieties	Improved varieties	self	NA	crop	ociated with maize	local farmers of rural community

Format-4 : Weeds

1	2	3	4	5	6	7		8	9	10	11	12
Plant	Scientific Name	Local Name	Affected Crop	Impact	Landscape /Habitat	Local Status		Uses if any	Management Options	Associated TK	Other Details like exotic	Community /Knowledge Holder
						Past	Present					
Ipomoea	<i>Ipomea spc.</i>	Zeharbael	Maize	Destroys the plant	Temperate and Intermediate	No weed management	Scientific based weed management	Nil	Proper and timely removal	Nil	NA	NA
Ipomoea	<i>Ipomeaaqatica</i>	Ghaas	paddy	Destroys the plant	Temperate and Intermediate	No weed management	Scientific based weed management	Nil	Proper and timely removal	Nil	NA	NA
Celosia	<i>Celosia argentina</i>	Neeli	Paddy	Destroys the plant	Temperate and Intermediate	No weed management	Scientific based weed management	Nil	Proper and timely removal	Nil	NA	NA
Mash	<i>Cyprus esceluntus</i>	Ghass	-		Temperate and intermediate areas of the District	No weed management	Weed management on scientific lines being followed by the farmers	-	-	-	-	No TK associated with either knowledge or management of Ipomea weed
Shrub	<i>Urtica dioica</i>	soi	Local/wild	Affect crop yield	Temperate and Intermediate	Average	average	Whole	mechanical and chemical	competes with main crop	NA	local farmers of rural community
Dub grass	<i>Cynodon dactylon</i>	Dramun	vegetables	Affect crop yield	Temperate and Intermediate	Average	Weed management on scientific lines being followed by the farmers	nil	using weedicide	competes with main crop	NA	local farmers
Johnson grass	<i>Sorghum halepense</i>	Bray	Maize	Affect crop yield	Temperate/ Intermediate	average	Weed management on scientific lines being followed by the farmers	nil	hand picking	competes with main crop		local farmers of rural community
Milk weed	<i>Euphorbia thymifolia</i>	Dudli	maize	Affect crop yield	Temperate/ Intermediate	Average	Weed management on scientific lines being followed by the farmers	nil	using weedicide or hand picking	competes with main crop	NA	local farmers of rural community

bang	<i>cannabis indica</i>	bang	khariet crops	Affect crop yield	agricultural land and wasteland	average	average	nil	mechanical and chemical	competes with main crop	NA	local farmers of rural community
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Format-5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect /Animals	Scientific Name	Local Name	Habitat	Time / Season of Attack	Management mechanism	Associated TK	Other Details	Community /Knowledge Holder
	Leaf folder	<i>Cnaphalocracis</i>	Patta Modak	Paddy fields	Tillering stage/ monsoon	Dragging rope across the field, light solarisation in soil solarisation in	Clipping of upper portion of seedlings	NA	NA
Paddy	Stem Borer	<i>Scirpophaga incertulas</i>	Tanna shedak	Paddy fields	July to September	May or June. Cartap hydrochloride 4G	NA	ETL 5% dead heart	NA
	Aphids	<i>Sitobin avenae</i>	Tella	Polyphagous	Feb-April	Proper spray of insecticides	NA	NA	NA
	Pink stem borer	<i>Sesamia inferns</i>	Ludi	Polyphagous/ debris	Nov-feb	field sanitasation and continuous removal of crop residues	NA	NA	NA
Wheat	Termites	<i>Odontotermis</i>	Sink	Polyphagous/ sandy and loamy soils	Kharif	field sanitasation and continuous removal of crop residues	NA	NA	NA
	Stem borer	<i>Chilo partellus</i>	Ludi	Polyphagous	Kharif	field sanitasation and continuous removal of crop residues	NA	NA	NA
Maize	Corn worm	<i>Helicoverpa armigera</i>	Sundi	Maize cobs	Kharif	field sanitasation and continuous removal of crop residues	NA	NA	NA
vegetables	leaf borer	<i>spodoptera exigua</i>	pediye	attack on leaves	Kharif	Proper spray of insecticides	Reduces crop yiield	NA	local farmers of rural community
Bottleguard	fruitfly	<i>Dacus cucurbitee</i>	stem rot	pulp of the fruits	july to october	Dusting with some repellents	causes fungal and bacterial infection	NA	local farmers of rural community
Rajma	watery soft rot	<i>clerotinia sclerotioru</i>	Dhoru	stem, leaves and pods	july to october		Reduces crop yiield	NA	local farmers of rural community
Potato	white grab	<i>Holotrichia species</i>		root and tubers	march= nov	drench the soil with chloropyriphas	Reduces crop yiield	NA	local farmers of rural community
Maize	Armyworm	<i>podoptera frugiperda</i>	Tokka	upper part of maize	Kharif	Proper spray of insecticides	Reduces crop yiield	NA	local farmers of rural community
Tomato	fruit borrer	<i>Helicoverpa zea</i>	corn earworms	leaves ,shoots ,buds and flower	may -september	spray dimethoate	Reduces crop yiield	NA	local farmers of rural community
Tomato	fruit borrer	<i>Helicoverpa zea</i>	corn earworms	leaves ,shoots ,buds and flower	may -september	spray dimethoate	Reduces crop yiield	NA	local farmers of rural community

Format 6: Markets for Domesticated 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

Note: [1] (D) – day; (M) – month;

[2] Types of animals may include: Poultry / Sheep / Goats / Cattle / Ducks / Pigs / Donkeys / Mules / Horses / Camels / Others (Specify)

Format 7: Peoplescape

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Community & Population	Families & Major occupation	Sub- occupation	Depending Landscape	Major resources accessed and seasons of access	Landscape management practices	Resource management practices	Cast / Tribe	Social condition	Nature of inhabitants	No. of HHs
	Govt. Employees	Farming	Farmlands	Do	Do	Timely & Proper fertilizers, Insecticides, fungicides and anti-bacterial sprays	Gen	NA	NA	41
	Farmers	Farming	Farmlands	Do	Do	Do	SC	NA	NA	45
	Farmers	Farming, Animal Husbandry	Farmlands	Do	Do	Do	Gen	NA	NA	221
	Farmers	Farming, Animal Husbandry	Farmlands	Do	Do	Do	ST	NA	Na	82
	Govt. Employees	Agriculture, Horticulture	Farmlands	Traditional Practices and accessed mainly after February till October	Land Levelling, Terrace formation	Do	SC	NA	NA	7

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

Format 11: Fruit Trees

1	2	3	4	5	6	7		8	9	10	11	12	13
Plant	Scientific Name	Local Name	Variety	Habit	Landscape /Habitat	Local Status		Source of Seeds / Plants	Season of fruiting	Associated TK	Uses	Other Details market / own use	Community /Knowledge Holder
						Past	Present						
Apple	<i>Malus domestica, borkh</i>	Saib	Red Delicious, Golden Delicious, Maharaji, American etc.	Tree, regular bearing	Temperate Hills	Rare	Plenty	Nurseries	Aug-Oct	Fruit, Economy Generation		Marketing, Own use	Department of horticulture
Pear	<i>Pyrus spp.</i>	Nakh	Patharnakh, China pear	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	Aug-Sep	Fruit, Economy Generation		Marketing, Own use	Department of horticulture
Peach	<i>Prunus persica (L) batsch</i>	Aaroo	July Elberta, Quetta	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries	June-July	Fruit		Marketing, Own use	Department of horticulture
Apricot	<i>Prunus armeniaca</i>	Khubani, Sadi	Local apricot, Bebco	Tree, regular bearing	Mid Hills	Plenty	Plenty	Nurseries	June-July	Fruit		Own Use	Department of horticulture
Walnut	<i>Juglans regia</i>	Akhrot	Paper/Thin Shelled, Hard & Medium Shelled	Tree, regular bearing	Temperate Hills	Plenty	Plenty	Nurseries& Locally raised	Sept-Oct	Dry-fruit, Economy generation		Marketing, Own use	Department of horticulture
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	Santa rosa. Aloo Bukhara	Tree, regular bearing	Mid Hills	Rare	Rare	Nurseries& Locally raised	July-Aug	Fruit		Own use	Department of horticulture
Fig	<i>Ficus carica</i>	Anjeer	local	Tree, regular bearing	Mid/temperate hills	Average	average	Nurseries	Aug-Oct	fruit		Marketing ,own use	Department of horticulture
		Tanchi	local	Tree, regular bearing	Mid/temperate hills	Average	average	Nurseries	July-august	fruit		Marketing ,own use	Department of horticulture

Almond	<i>Prunus amygdalus</i>	badam	local	Tree, regular bearing	Mid Hills	Average	Rare	locally raised or department of agriculture	july to sept	dry fruit economy generation		Own use	Department of horticulture
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Format 12: Medicinal Plants (Herbs, Shrubs, Trees etc.)

1	2	3	4	5	6	7		8	9	10	11
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Source of Plant/seeds	Location Status		Uses (usage)	Part used	Associated TK	Other details market/own use
						Past	Present				
Tree	Anjeer	<i>Ficus carica</i>	Local	Temperate	Wild	Available	Available	To cure multiple uses	Whole tree	To cure multiple diseases	Fruit
Herb	Tamatar	<i>Solanum lycopersicum</i>	Local	Temperate	Cultivated	available	Available	To reduce heart diseases, kidney stones and gall bladder stones	Fruit	Cure heart and stone diseases	Seeds
Herb	Dhaniya	<i>Coriandrum sativum</i>	local	Temperate	Cultivated	Available	Available	Used for loss of appetite, tooth aches	Seeds	Cure pain	both
Herb	Pudina	<i>Mentha spicata</i>	Local/wild	Temperate	Cultivated/naturally grown	available	Available	To cure infection	Leaf	Cure infection	both
Herb	Pyaz	<i>Allium cepa local</i>	Temperate	Cultivated	available	Available	To cure cold and cough	Roots	To relieve cough and cold	Extract	As such
Herb	Lahsun	<i>Allium sativum</i>	Local	Temperate	cultivated	Available	Available	To cure wounds	Whole plant	Used for wounds	Fruit
Herb	Green Chilly	<i>capsicum annum</i>	Local	Temperate	cultivated	Available	Available	To improve immune system	entire	Improve eye site	marketing and own use
Herb	pitpapda	<i>Fumeria parviflora</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	treatment of fever, gastritis, diarrhea etc	whole plant	available	marketing and own use
Herb	Patresh	<i>Aconitum heterophyllum</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	used against diarrhoea , general weakness and fever	roots	available	marketing and own use

Herb	Ceski	<i>Artemesia absinthium</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	remedy for indigestion, gastric pains, antiseptic etc	stem and leaves	available	marketing and own use
Herb	Bethri dhoop	<i>Juniperus communis</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	curing asthma, against swellings, stimulant and diuretic	flower fruits	available	marketing and own use
Shrub	Kuth	<i>Sassurea costus</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	dysentery,dental trouble, heart problems etc	leaves/ roots	available	marketing and own use
Herb	jungli straberry	<i>Fragaria nubicola</i>	wild	Temperate	naturally grown	available	average	Stomach disorders	fruit	available	marketing and own use
Herb	Haand dandelian	<i>Taraxacum officinalis</i>	wild	Temperate	seeds	rare	rare	treatment of skin ,indigestion, jaundice etc	Leaves	available	marketing and own use
Shrub	Datura	<i>Datura stramonium</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	medicine	Seeds	available	marketing and own use
Shrub	Soi	<i>Urtica dioica</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Average	Rehumitides	Leaves/ stem	available	marketing and own use
Herb	Bhang	<i>Cannabis sativa</i>	Local/wild	Temperate	naturally grown	Available	Available	treatment of pain , loss of appetite , insomnia , depression etc	Leaves/ stem	available	marketing and own use
Herb	Kaudh	<i>Picrorhiza kurroa</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	Pain reliever		available	marketing and own use
Herb	Kishmay	<i>Berberis lycium</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	Jaundice		available	marketing and own use
Herb	Teevnd	<i>Viburnum grandiflorum</i>	wild	Temperate	naturally grown	plenty	average	cough and anticold	flowers /seeds	available	marketing and own use
Herb	Baryan	<i>Acorus calamus</i>	Local/wild	swapmy marshy areas	naturally grown	plenty	average	treatment of gouts	rhizome/ lowe part	available	marketing and own use
Herb	Neg chetri	<i>Trillium govanianum</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	Anti inflammatory remedy ,	Whole plant	available	marketing and own use

Herb	Zakhm e hayat	<i>Bergenia ciliata</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	Wound healing, vomiting, fever, cough and pulmonary infections	leaves	available	marketing and own use
Herb	chooray	<i>Angelica glauca</i>	Local/wild	Temperate	Cultivated/naturally grown	Available	Available	dysentery, stomach troubles, infantile atrophy, menorrhagia	stems	available	marketing and own use

12
Community know Holders
Local people
Local people
Local people
Local people
Local people
Local people
Local people
naturally / rural farmers
naturally / rural farmers
naturally / rural farmers

naturally / rural farmers
naturally / rural farmers

Format 14: Timber Plants / Trees

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home- garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Tree	Walnut	<i>Juglans regia</i>	Temperate	Least	Plenty	Wild , home	Furniture, tooth cleaner		unknown	Community/ Know. holder
Tree	Banj	<i>Quercus incana</i>	Temperate	Plenty	Plenty	Wild	Firewood		Unknown	Department of horticulture and local people
Tree	Apricot	<i>Prunus armeniaca</i>	Temperate	Least	Plenty	Wild, home	Furniture, firewood		Unknown	Department of horticulture and local people
Tree	Peach	<i>Prunus persica</i>	temperate	Least	Plenty	Wild, home	Firewood		Unknown	Department of horticulture and local people
Tree	Keth	<i>Pyrus spashia</i>	Temperate	Plenty	Least	Wild	Firewood		Unknown	Department of horticulture and local people
Tree	Drek	<i>Melia azedarach</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Unknown	Department of horticulture and local people
Tree	Moru oak	<i>Quercus floribunda</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Strongest wood	Department of horticulture and local people
Tree	Fur	<i>Abies pindrow</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Unknown	Department of horticulture and local people
perennial	Kail	<i>Pinus wallichiana</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Unknown	Department of horticulture and local people
perennial	Tulkul	<i>Morus nigra</i>	Temperate	Plenty	Average	wild/ home- garden	fodder for silk worm and Firewood	NA	Unknown	Department of horticulture and local people
perennial	Devdar	<i>Cedrus deodara</i>	Temperate	Plenty	Average	wild	Furniture, firewood	NA	Strongest wood	Department of horticulture and local people
Tree	Chinar	<i>Plantanus orientalis</i>	Temperate	Plenty	least	wild/ home- garden	Furniture, firewood	NA	Unknown	Department of horticulture and local people

Tree	Shisham	<i>Dalbergia sissoo</i>	Temperate	Plenty	Average	wild/ home- garden	Furniture, firewood	NA	Unknown	Department of horticulture and local people
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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	Desi Gai	<i>Bos indicus</i>	ND	Small, Low milk produce	Free range/ semi intensive	Plenty	Number decreased	Females= Dairy Males= Draft	Nil	No	Milk, Butter, curd, Ghee etc	All
	Jersey Gai	<i>Bos taurus</i>	CB Jersey	Larger, More Milk Produce	Free range/ semi intensive	Few	Number increased	Dairy	Nil	No	Milk, Butter, curd, Ghee etc	All
	Shari/Durangi Gai	<i>Bos taurus</i>	CB HF	Black & white	Free range/ semi intensive	Few	Number increased	Dairy	Nil	No	Milk, Butter, curd, Ghee etc	All
Equine	Horse	<i>Equus caballus</i>	Local	Ht. < 9 hands	Backyard	Less No.	Very few	Pack Purpose	Nil	No	Pack	All
	Mule	-----	Local	Ht. < 9 hands	Backyard	Less No.	Inc. Pop.	Pack purpose	Nil	No	Load Carrying	All
Poultry	Desi murgi	<i>Gallus domesticus</i>	Local	Colored, Good meat	Backyard	Constant	Constant	Egg, meat	Nil	No	Egg, meat	All
	Farmi murgi	<i>Gallus domesticus</i>	Chabro Cross	Colored, more eggs	Backyard	Few	Increased	Egg, meat	Nil	No	Egg, meat	All
	Broiler	<i>Gallus domesticus</i>	Hybrid	White color	Deep litter	Few	Increased	Meat	Nil	Yes	Meat	All
Dog	Kutta	<i>Canis Familiaris</i>	Local	-	Stray	Abundant	Abundant	Nil	Nil	No	No	Stray
Cat	Billi	<i>Felis Catus</i>	Local	Grey colored	Pet	Abundant	Abundant	Nil	Nil	No	Nil	Nil
Sheep	Bhaed	<i>Ovis aries</i>	Local	Small size/ rough coat	Flock rearing	Plenty	Rare	Mutton, wool, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
	Bhaed	<i>Ovis aries</i>	Rambouillet cross	Large size/fine wool	Flock rearing	Rare	Plenty	Mutton, wool, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
	Bakri	<i>Capra hircus</i>	Local	Small /less weight	Flock rearing	Plenty	Rare	Mutton, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads

Goat	Bakri	<i>Capra hircus</i>	Kaghani (bakarwali)	Large size/ more weight	Flock rearing	Rare	Plenty	Mutton, manure	Nil	Yes	Mutton, wool, manure, hides	Locals, nomads
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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	Deodar	<i>Cedrus deodara</i>	Tree	Temperate	dense	Least	Commercial, own use	Whole for different uses		Roofing, furniture etc	Gh Hassan
Tree	Kail	<i>Pinus wallichiana</i>	Tree	Temperate	dense	Least dense	Commercial, own use	Whole for different uses		Roofing, furniture etc	Khalid hussain
Tree	Chir	<i>Pinus roxburghii</i>	Tree	Temperate	dense	Least dense	Commercial, own use	Whole for different uses		Roofing, furniture etc	Sant Ram
Plant	Bankakri	<i>Podophyllum hexandrum</i>	Plant	Temperate	Available	Available	Commercial, own use	Fruit		It has been found to be effective in controlling skin diseases and recently attracted attention for use in certain form of cancer	
Herb	Banafsha	<i>Viola odorata</i>	Herb	Temperate	Available	Available	Commercial, own use	Flower		Flowers are used in perfumery and are also used medicinally as demulcent and biliousness and lungs troubles	
Herb	pitpapda	<i>Fumeria parviflora</i>	Local/wild	Temperate	Available	Available	Commercial, own use	whole plant	treatment of fever, gastritis, diarrhea etc	Medicinal use	local farmers of rural community
Herb	Patreesh	<i>Aconitum heterophyllum</i>	Local/wild	Temperate	Available	Available	Commercial, own use	roots	used against diarrhoea , general weakness and fever	Medicinal use	local farmers of rural community
Herb	Ceski	<i>Artemisia absinthium</i>	Local/wild	Temperate	Available	Available	Commercial, own use	leaves/ stems	remedy for indigestion, gastric pains, antiseptic etc	Medicinal use	local farmers of rural community

Herb	Bethri dhoop	<i>Juniperus communis</i>	Local/wild	Temperate	Available	Available	Commercial, own use	flower fruits	curing asthma, against swellings, stimulant and	Medicinal use	local farmers of rural community
Shrub	Kuth	<i>Sassurea costus</i>	Local/wild	Temperate	Available	Available	Commercial, own use	leaves/ roots	dysentery, dental trouble, heart problems etc	Medicinal use	local farmers of rural community
Herb	jungli straberry	<i>Fragaria nubicola</i>	wild	Temperate	available	average	Commercial, own use	fruit	Stomach disorders	Medicinal use	local farmers of rural community
Herb	Haand dandelian	<i>Taraxacum officinalis</i>	wild	Temperate	rare	rare	Commercial, own use	Leaves	treatment of skin, indigestion, jaundice etc	Medicinal use	local farmers of rural community
Herb	Zakhm e hayat	<i>Bergenia ciliata</i>	Local/wild	Temperate	Available	Available	Commercial, own use	leaves	Wound healing, vomiting, fever, cough and pulmonary infections, dysentery,	Medicinal use	local farmers of rural community
Herb	chooray	<i>Angelica glauca</i>	Local/wild	Temperate	Available	Available	Commercial, own use	stems	stomach troubles, infantile atrophy, menorrhagia	Medicinal use	local farmers of rural community

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Status
1	Kulmech	<i>Viburnum grandiflorum</i>	Wild Plant	Wild animals feed upon the fruit of this plant like Beer etc	Plenty
2	Bhrami	<i>Taxus baccata</i>	Wild Plant	Medicinal Plant and used to cure cancer	Plenty
3	Akhroot	<i>Juglans regia</i>	Wild	Economically important as farmer fetches good price, socially important for different cuisines, improves good cholesterol	rare
4	Bhang	<i>Cannabis sativa</i>	Wild	Commercial extraction banned, given to animals to improve their health	average
5	Guchi Mashroom	<i>Morchella esculenta</i>	Wild	Dried and sold which fetches Rs.10000-15000 per Kg used in making pulao (cuisine), as aphrodisiac in medicine	rare
6	Kasrod	<i>Diplazium</i>	Wild	Used as vegetable, collected by locals and sold	average
7	Bathappad	<i>Boletus edulis</i>	wild	Used as vegetable, collected by locals and sold	Plenty
8	kulmosh	<i>Viburnum cotinifolium</i>	wild	fruits	average
9	cauliflower fungus/ kakho	<i>Spariss crispa</i>	wild	mushroom	average

10	Pendak	<i>Crataegus songarica</i>	wild	fruits	average
11	Faagu	<i>Ficus palmata</i>	wild/ local	fruits	average
12	Timru	<i>Zanthoxylum armatum</i>	wild	used as a flavouring agent , spice and medicinal use also	average
13	Chukru	<i>Oxyria digyna</i>	wild	Used as vegetable, collected by locals and sold	average
14	Fafra	<i>Fagopyrum cymosum</i>	wild	Used as vegetable, collected by locals and sold	Plenty
15	shedi(bakar)	<i>Sparrasis radiata</i>	wild	Used as vegetable, collected by locals and sold	Plenty
16	kundi	<i>Peziza violacea</i>	wild	Used as vegetable, collected by locals and sold	average
17	Bankakri	<i>Podophyllum hexandrum</i>	wild	Used as vegetable, collected by locals and sold	average

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Trends
1	West himalyan alder	<i>Alnus nitida</i>	local	medicinal use of bark of this tree	abundant
2	Duckweed	<i>Spirodela polyrhiza</i>	local	use animals for feedingand also helps in bioremediation	abundant

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	Part used	Other details market/own use	c.knowledge holder
					Past	Present					
Herb	Zakhm e Hayat	<i>Bergenia ciliata</i>	Forest, temperate	Available	Available	Commercial, own use	Root	Medicinal uses	Whole		
Herb	Nag Chattri	<i>Trillium gonanianum</i>	Forest, temperate	Available	Available	Commercial, own use	Root	Furniture, roofing	Furniture		
Plant	Bankakri	<i>Podophyllum hexandrum</i>	plant	Temperate	Available	Available	Available	It has been found to be effective in controlling skin diseases and recently attracted attention for use in certain form of cancer	Fruit	own use	local farmers of rural community
Herb	Banafsha	<i>Viola spp.</i>	Herb	Temperate	Available	Available	Available	Flowers are used in perfumery and are also used medicinally as demulcent and biliousness and lungs troubles	Flower	own use /marketing	local farmers of rural community
Climber	Kins	<i>Dioscorea deltoidea</i>	Climber	Temperate	Available	Available	Available	The root yield Diosgenin, which is used to synthesize sex hormones and Corisone, Cortisone is extensively used in rheumatism and	Tuber	own use	local farmers of rural community
Herb	pitpapda	<i>Fumeria parviflora</i>	Herb	Temperate	abundant	average	Available	treatment of fever, gastritis, diarrhea etc	whole plant	own use /marketing	local farmers of rural community
Herb	Patreesh	<i>Aconitum heterophyllum</i>	Herb	Temperate	abundant	average	Available	used against diarrhoea , general weakness and fever	roots	own use /marketing	local farmers of rural community
Herb	Ceski	<i>Artemesia absinthium</i>	Herb	Temperate	abundant	abundant	Available	remedy for indigestion, gastric pains, antiseptic etc		own use /marketing	local farmers of rural community
Herb	Bethri dhoop	<i>Juniperus communis</i>	Herb	Temperate	Available	Available	Available	curing asthma, against swellings, stimulant and diuretic	flower fruits	own use /marketing	local farmers of rural community
Herb	Kuth	<i>Sassurea costus</i>	Herb	Temperate	abundant	Available	Available	dysentery, dental trouble, heart problems etc	leaves/ roots	own use /marketing	local farmers of rural community

Herb	jungli straberry	<i>Fragaria nubicola</i>	Herb	Temperate	abundant	average	Available	Stomach disorders	fruit	own use /marketing	local farmers of rural community
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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
Rose	<i>Rosa sancatun</i>	Red rose	Low land	Commercial	Ornamental	Not Known	Self observed
Merigold	<i>Tagetes erecta</i>	local	Natural	both	ornamental	-	-
Bull bay	<i>Magnolia grandiflora</i>	Local	Natural	Both	Ornamental and medicinal		Self observed
Green spire	<i>Euonymus japonicus</i>	Local	land scape plant	non commercial	Ornamental		Self observed

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	Part used	Ass.TK	Other details	Community knowledge holder
					Past	Present					
Herb	Pudina	<i>Mentha longifolia</i>	Herbaceous perennial	temperate regions /homegardens	plenty	plenty	herbal uses, beverages etc	leaves	used with vinegar remove dandruff	NA	local farmers
Herb	Baberbeol	<i>Ocimum basicilum</i>	Herbaceous perennial	temperate regions /homegardens	average	average	spice and cosmetic use	seeds	cosmetic use	NA	local farmers
Herb	saunf	<i>Foeniculum vulga</i>	Herbaceous perennial	temperate regions /homegardens	plenty	average	used as a spice and some other medicinal uses	saunf	cooking and chewing	NA	local farmers
Herb	Methi	<i>Trigonella foenum graecum</i>	Annual plant	temperate regions /homegardens	plenty	average	used in stomach troubles and anaemia	leaves and seeds	cooking	NA	local farmers
Herb	Baryan(sweet flag)	<i>Acorus calamus</i>	Herbaceous perennial	marshy areas	average	average	used to treat stomach ailments, gouts etc	rhizomes and leaves	treat digestive problems	NA	local farmers
Herb	Rohni	<i>Allium sativum</i>	perennial bulbous	temperate regions /homegardens	plenty	plenty	spice	cloves	used as a medicine to treat insect bites	NA	local farmers
Herb	Ajwain	<i>Trachyspermum mammi</i>	Forest	Temperate	Available	Available	Cooking	Seeds	treat digestive problems	NA	local farmers

Format 26: Timber Plants

1	2	3	4	5	6	7	8
Local Name	Scientific Name	Habitat	Local	Other uses, if any	Associated Tk	Any other detail	Community knowledge holder
Deodar	<i>Cedrus deodara</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Furniture, roofing
Fir	<i>Abies pindrow</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Furniture, roofing
Spruce	<i>Picea smithiana</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Furniture, roofing
Kail	<i>Pinus wallichiana</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Furniture, roofing
Chir	<i>Pinus roxburghii</i>	Tree	Forest, Temperate	Dense	Less dense	Commercial, own use	Furniture, roofing
Apricot	<i>Prunus menisaca</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Peach	<i>Prunus persica</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Keth	<i>Pyru spashia</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Rubinkul	<i>Robinia sp</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	local people
Drek	<i>Melia azedarach</i>	Terrestrial temperate	Forest, Temperate	,firewood , furniture	NA	Commercial, own use	local people
Moru oak	<i>Quercus floribunda</i>	Terrestrial temperate	Forest, Temperate	furniture, roofing ploughing equipment etc.	NA	Commercial, own use	local people
Kikar	<i>Robinia pseudoacacia</i>	Terrestrial temperate	Forest, Temperate	use for fodder ,firewood	NA	Commercial, own use	local people
Chinar	<i>Plantanus orientalis</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	Forestry
Shisham	<i>Dalbergia sissoo</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	Forestry
Teak	<i>Tectona granis</i>	Terrestrial temperate	Forest, Temperate	furniture, roofing etc	NA	Commercial, own use	Forestry
Tulkul	<i>Morus nigra</i>	Terrestrial temperate	Forest, Temperate	firewood , fodder for silkworm etc.	NA	Commercial, own use	Forestry
Chir	<i>Pinus roxburghii</i>	dense	Least dense	Roofing, furniture etc		Whole for different uses	Forestry
Walnut	<i>Juglans regia</i>	Terrestrial temperate	Forest, Temperate	Furniture, tooth cleaner	NA	Commercial, own use	local people

Banj	<i>Quercus incana</i>	Terrestrial temperate	Forest, Temperate	Furniture, roofing	NA	Commercial, own use	Forestry
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Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local status		uses if any	Ass. TK	Mode of hunting	Other details	Community/ Knowledge Holder
						Past	Present					
Mammals	Chitra	<i>Panthera pardus</i>	Forest	Endangered	Winter season	Least	More	-	-	Weapon	Endangered	-
Mammal	Bhalu	<i>Ursus americanus</i>	Forest	-	summer	Least	More	-	-	Weapon	-	-
Mammal	Fox	<i>Vulpes vulpis</i>	Forest	-	All season	More	More	-	-	Weapon	-	-
Mammal	Monkey	<i>Macaque</i>	Forest	-	All season	More	More			Weapon	-	-
Mammal	Roons	<i>Musk deer</i>	Forest	Endangered	All season	Least	Least	-	-	Weapon	Endangered	-
Birds	Neel	<i>Monal pheasant</i>	forest	Endangered	All season	Least	Least	-	-	Weapon	Endangered	-
Birds	Gid	<i>Gyps africanus</i>	Forest	critically. Endangered	All season	Least	Least	-	-	weapon	Critically .Endangered	-
Birds	Chakore	<i>Pheasant</i>	Forest	Endangered	All season	Least	Least	-	-	weapon	Endangered	-
Birds	kabutar	<i>Columba livia</i>	Forest	-	All season	More	More	-	-	weapon	-	-
Reptile	Saanf	<i>Ptyas mucosa</i>	Forest	-	Summer	More	More	-	-	stick	-	-
Reptile	Saanf	<i>Lycodon Mackinnoni</i>	Forest	-	Summer	More	More	-	-	stick		
Lizards	chipkali	<i>Hemidactylus brookii</i>	Forest/Local	-	Summer	More	More	-	-	Stick		
Aquatic	Fish	<i>Trout</i>	Pond / Nalla	-	all	More	More	-	-	Hook n Net		
Bird	Khukhow	<i>Clamato rJacabinu</i>	Forest		Spring season	Available	Less	No		Prohibited	Maintains forest ecosystem	Self-observed

Bird	DhikCharak	<i>Picus cholorolophus</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	Self-observed
Bird	Kova	<i>Corvus smacrorhynchos</i>	Forest		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	Self-observed
Snake	Surf /sap	<i>Serpentes</i>	Forest /water		All time	Available	Less	No		Prohibited	Maintains forest ecosystem	Self-observed
Fishes	Machli	<i>Himalyan trout</i>	Water		All time	Available	Available	No		Prohibited	Maintains forest ecosystem	Self-observed
Bird	Myna	<i>Acridotheres tristis</i>	Forest		all time	common	common	No		Prohibited	Maintains forest ecosystem	Self-observed
Insect	Tuller	<i>Apis melifera</i>	Temperate region	Dark brown colour body	Spring and summer	common	common	extraction of honey		NA	pollinating agent	Self-observed
Insect	Mohh	<i>Aedes spp</i>	Temperate region	white marking on their legs and body	summer	common	common	Na		NA	body parasite of human and animals	Self-observed
Insect	spider	<i>Araneus mitificus</i>	Temperate region	males are smaller and less colourful than females	all time	common	common	Na		NA	NA	Self-observed
Insect	Bomsin	<i>Pheretima posthuma</i>	Temperate region	individual are hermaphrodite	during summers	common	common	Na		Na	known as farmers friends	Self-observed
Insect	Raeii	<i>Tapinoma sessile</i>	nests in open soil ,under stones etc	small sized insects with varied body	during summers	common	common	NA		NA	Strongly attracted to sweet substances	Self-observed
Insect	Tcharr	<i>Cimex lectularius</i>	Temperate region	Adult cimex are light brown in colour. Flat oval solitary and nocturnal in nature	during summers	common	common	NA		na	nuisance pest	Self-observed
Amphibian	Meinn	<i>Rana tigrina</i>	semi aquatic		during spring to autumn	common	common	NA		NA		Self-observed

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

Format 30: Fauna

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

Format 31: Any other information of local importance		
1.	2.	3.
Sr. No.	Information of local importance	Remarks

End of Part II