People Biodiversity Register (PBR): General Details
Name of the Panchayat Samiti: Sarora
Taluk: Marh
District: Jammu
State/UT: J&K
Geographical Area of the Panchayat Samiti: 199.51 Hectares
Population under the Panchayat Samiti: 1416
Male: 743 Female: 673
Habitat and Topography: Plain
Climate (Rainfall, Temperature and weather patterns): Sub-Tropical Climatic Zone/Irrigated Sub-Tropical Zone
Land Use (Nine fold classification available with village records): Agriculture + Vegetables + Animal Husbandry + Horticulture
Date, Month and Year of PBR Preparation: 27/10/2020
Management Regime: Reserve Forest (RF/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Managed Forest(COM)

Ann

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

1) Name of the Chairperson: Ashok Saini

Age: 56 years

Gender: Male

Address: Sarora

Area of specialization: Social Worker and Sarpanch

2) Name: Nikki Devi

Age: 47 years

Gender: Female

Address: Sarora

Area of specialization: Social Worker

3) Name: Rani Devi

Age: 37 years

Gender: Female

Address: Sarora

Area of specialization: Social Worker

4) Name: Sikander Lal

Age: 37 years

Gender: Male

Address: Sarora

Area of specialization: Social Worker

5) Name: Rajender Singh

Age: 42 years

Gender: Male

Address: Sarora

Area of specialization: Social Worker

6) Name: Kamal Singh

Age: 47 years

Gender: Male

Address: Sarora

Area of specialization: Social Worker

7) Name: Ved Saini

Age: 49 years

Gender: Male

Address: Sarora

Area of specialization: Social Worker

List of Vaids, hakims and traditional health care (Human and livestock) practitioners residing and or using biological r within the jurisdiction of the village
1) Name: Parshant Singh - 9419224679
Age: 25 years
Gender: Male
Address: Sarora
Area of Specialization: Traditional Health Care
Location from which the person accesses biological material:
Perception of the practitioner on the resource status:
Medicinal use:
2) Name: Karan Singh- 94196-80816
Age: 70
Gender: Male
Address: Sarora
Area of Specialization: Knowledgeable person
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:

Anne
List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisl and foresty
1) Name: Rajender Singh- 9796060093
Age: 50
Gender: Male
Address: Sarora
Area of specialization: Progressive Farmer
2) Name: Mast Ram
Age: 65
Gender: Male
Address: Sarora
Area of specialization: Progressive Farmer
3) Name: Major Singh
Age: 72
Gender: Male
Address: Sarora
Area of specialization: Progressive Farmer
4)Name: Sanatan Sharma
Age: 75
Gender: Male
Address: Sarora
Area of specialization: Fisheries

An
Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals in the preparation of the PBR
1) Contact Person: Forest Dept.
Name and Address: Vijay Singh-8492898297, Sarora
2) Contact Person: Agri. Dept
Name and Address: Saudagar Singh- 9622258631, Sarora
3) Contact Person: Education Dept.
Name and Address: Prem Saini- 9797334371, Sarora
4) Contact Person: Horticulture Dept.
Name and Address: Parkash Chand- 8713018003, Sarora
You may add names of more institutions/NGO/Individuals etc, if necessary

Annexure 5 Detail of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefit derived and the mode of their sharing Anticipated mode of sharing benefits or quantum of benefits Local and Scientific Name of the biological material Accessed and quantity Date and resolution of the BMC Name and address of the Detail of collection fee S.No Person/Institute/company others and endorsement by the Panchayat imposed shared

Part II PBR – Formats AGROBIODIVERSITY

Format 1: Crop Plants

1	2	3	4	5	6	,	7	8	9	10	11	12	13	14
			Description of the	Landscape /	Approx. Area	Local	status			Associated		Cronning	Source of Seeds	Commununity
Crop	Scientfic Name	Local Name	variety	Habitat	sown(ha)	Past	Present	Special features	Uses	TK	Other details	Season	/ Plants	/ Known. Holder
			B-370(Fine & Long duration)			Abundant		Basmati 370 is world wise known for its aroma		Provides		Kharif	Farmers /	
Rice	Oryza sativa	Dhan/ Munji	Basmati 1121/(Coarse K39 K434 Rattana & Long duration	Plains/Sub- Tropical Region		Abundant	Abundant	Medium tall Coarse Grains	Food & Fodder	energy fragrance and taste	-	(May to October)	Department/ Privaate Suppliers	Farmers
Mash	Vigna mungo	Mhaa	PU-19	Warm / Humid of Sub tropical		Normal	Normal	High yielding	Food	Source of Vegetable	_	Summer/	Farmers / Department/	Farmers
IVIASII	right mango	Willia	Utra	region		Normal	Normal	Variety	1 000	Protein		Kharif	Privaate Suppliers	Tarmers
Wheat	Triticum aestivum	Kanak	HD2967,PBW644	Cool Climate during early part of its growth		Plenty	Plenty	High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Onion	Allium cepa	Gamd	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas		Rare	Rare	Bulbs Cash Crop	Vegetab gles	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Privaate Suppliers	
Mustard	Brassica juncea/ Brassica comprestris	Sarson	Pusa Bold/ KOS -1	Cool & dry		Normal	Normal	Matures in 145-150 days with 40-42 % oil content	oil for Food	Source of energy i	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Potato	Solamum tuberosum	Aalo	Kufri Sindhuri,Kufri Badsha, local	Potato is an herbaceous annual, requirs cool weather, mostly rainfed conditions		Normal	Normal	Tubers are round to ovoid, creamish white to light red in colour with shallow eyes	tubers are used	-	High carbohydrate,provi de high n energy value	Rabi	Farmers / Department/ Privaate Suppliers	Farmers

Toria	Brassica jrape cv.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 i,calciam,copp er,potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Privaate Suppliers	Farmers
Tomato	Solanum lycopersicum	Tamater	Pusa rubi,Pusa early dwarf, Manisha Plus/local	Warm season crop	Normal	Normal	Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,sala d, soup,Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Okra	Abelmoschus esculentus	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropicall vegetablHot and humid climate	Abundant	Abundant	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dieta fibers,protein and carbohydratesry	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
Cucumber	Cucumis sativus	Kheera	Kheera local,JL	Grows in all climatoic conditions,Tropic al,Sub tropical &temprate	Abundant	Abundant	Limbing annual bearing elongated thick cylendrical fruit	Mainly used as salad	-	It also used asantipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
Bottle gourd	Lagenaria siceraria	Lokki	PSPL/Punjab Long	Summer &rainy season crop	Abundant	Abundant	Vines vigrous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Privaate Suppliers	Farmers
Bitter gourd	Momordica charantia	karela	Pusa Domausmi/Kundan	Warm and Humid climate	Abundant	Abundant	Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maitaining low suger level	Summer/ kharif	Farmers / Department/ Privaate Suppliers	Farmers
Beans	Phaseolus Spp.	Phaliya	Contender	Cool weather crop/Sandy/loam y soil	Abundant	Abundant	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High vale protein,VitamineB 1,B2 <b6 and<br="">Maganese</b6>	Summer season	Farmers / Department/ Privaate Suppliers	Farmers
Cauliflower	Brassica oleracae var.botrytis	Fol gobi	Pusa snow ball,Pusa Katki,local Girja	Both sub tropical &intermediate	Abundant	Abundant	White and tender head ,curdformed from shortened flower part	Curd Mainly used as vegetable	-	Also good sourse of protein,carbohydra te,phasphorus& iron	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Cabbage	Brassica oleracae var.capitata	Band gobi	Golden Acre,Pride of India,Green Flesh	Both sub tropical &intermediate	Abundant	Abundant	Round head withlight to dark green colour	Head Mainly used as vegetable,salad	-	Also good sourse of protein,carbohydra te,phasphorus& iron	Rabi	Farmers / Department/ Privaate Suppliers	Farmers

Knol khol	Brassica oleracae var.gongyloides	Kadam	White vienna,Purple vienna	cool &moist climate/sub tropical	Abundant	Abundant	Swollen stem ,grren/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Spanich	Beta vulgaris	Palak	All Green,Delta	Cool season Crop, thrives well on well drained loam soils	Abundant	Abundant	Tender green leaves & root used as Vegetable	Tender green leaves used as leafy Vegetable	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Radish	Raphanus sativus	Mulli	Japanes White Koren Etc	Cool season Crop, thrives well on well drained Sandy loam soils	Abundant	Abundant	Tender green leaves &roots used as Vegetable	Modified Roots are used as Vegetabke & Salad	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Turnip	Brassica rapa	Gunglu /Shalgam	PTWG/Local	Cool &moist climate/sub tropical&interme dite	Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable ,Sal ad,.	Good source of Vit.C,Diatry Fiber &Potasium	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Exocitic Vegetables (Brocoli/ Chinese cabbage/ Capsicum etc)	Brassica oleracea var. italica/ Brassica oleracea var. capitata/ Capsicum		Prevelent Hybrid varieties	Cool &moist climate/sub tropical&interme dite	Rare	Abundant	All Plants Carts and Fruits are eadable Ric Source of antioxidents	Salad and Vegetable	Ric Source of Multivitimins, Minierals and Antioxidents	Rabi	Farmers / Department/ Privaate Suppliers	Farmers

Format-2	:	Fruit	Plants
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1	2	3	4	5	(6		8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape /Habitat	Local Status		Source of	Season of	Associated	Uses	Other Details	Community /Knowledge
Tiant	Scientific Ivanie	Local Ivallic			Past	Present	Seeds / Plants	fruiting	TK	USES	markt / own use	Holder
Guava	Psidium guajava	Amrood	Local, L49 etc.	Nothern Plains/Sub- Tropical Region	Rare	Rare	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	
Mango	Mangifera indica	Aam	Desi, Dusheri, Malta	Nothern Plains/Sub- Tropical Region	Plenty	Plenty	Nurseries	Jun-Aug	Fruit, Pickle, Preserves		Marketing, Own Use	
Citrus Fruit	Citrus spp.	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	Local Selection, Kagzi Lime etc.	Nothern Plains/Sub- Tropical Region	Rare	Rare	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc		Marketing, Own Use	
Litchi	Litchi chinensis	Litchi	Culcatta, Dehradun	Nothern Plains/Sub- Tropical Region	Rare	Rare	Nurseries	Jul - Aug	Fruit		Marketing	
Jamun	Syzygium cumini	Jamun	Local Selection	Nothern Plains/Sub- Tropical Region	Plenty	Plenty	Nurseries, Local Raised	Jul - Aug	Fruit		Marketing/Own Use	

Format 3:-Fodder	· Crops / Species
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1	2	3	4	5	6	7	1	3	9	10	11	12	13
					Area	Landscape/	Local Status				Other	Sources of Seeds	Community Kn
S. No.	Plant	Scientific Name	Local Name	Habit	(Approx.)Rabi/ Kharif	Habitat	Past	Present	Part Used	Associated TK	details(mode of use)	and Plants	Holders
1	Barseem	Trifolium alexandrium	Chhatala	Annual	8030	Sub Humid & moderately cool	Abundant	Abundant	Entire Plant	Nutritious & palatable fodder, Source of energy for animals	Fodder	Farmers / Department/ Privaate	Farmers
2	Oats	Avena spp.	Javi	Annual		Cool & moist climate	Abundant	Abundant	Above ground part of plant	Nutritious & palatable fodder,	Fodder	Suppliers	Farmers
3	Sorghum	Sorghum spp.	cherri	Annual		Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Fodder	Farmers / Department/ Privaate Suppliers	Farmers
4	Maize	Zea mays	Makki	Annual	6840	Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Food & fodder		Farmers
5	Bajra	Pennisetium americanum	Bajra	Annual		Warm & humid	Abundant	Normal	Above ground part of plant	Source of energy	Food & fodder	Farmers / Department/ Privaate Suppliers	Farmers

	Format-4 : Weeds													
1	2	3	4	5	6	7	8	3	9	10	11	12	13	
S. No.	Plant	Scientific Name	Local Name	Affected Crop	Habit	Landscape/	Local	Status	Uses if any	Management	Associated TK	Other details	Community Kn.	
5. No.	riant	Scientific Name	Local Name	Anecteu Crop	Habit	Habitat	Past	Present	Uses II any	options	Associated 1 K	Other details	Holders	
1	Barnyard Grass	Echinochloa crusgalli	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil	Farmers	
2	Pig Weed	Amaranthus virdis	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Also Used as medicinal herb	Farmers	
3	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	
4	Bur Clover	Medicago denticulata	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder, vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Farmers	
5	Canada Thistle	Cirsuim arvense	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	#REF!	Farmers	
6	Bang	Cannabis indica	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	#REF!	Farmers	
7	Nilibuti	Ageratum conyzoides	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers	
8	Dub Grass	Cynodon dactylon	Dub Grass	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abudant	Abudant	Fooder	Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers	
9	Wild Rice	Echinochloa colonum	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers	
10	Jhonson Grass	Sorghum helepense	Beru grass	Sorghum	Perinneal	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers	

Format-5:	Pests	of Crops
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	1				-					
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	Microtermis obesi/ Odontoremes 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	Oulma melanopus		Chewing & bitting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence	Farmers
5	Red Pumpkin Beetle	Raphidopalpa foveicellis	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, Pheronon 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	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves	Farmers
9	Rice Gandi Bug	Leptocorzia varcornis	Gandi Bug	Paddy	Paddy at miliking stage	July to Oct.	Mechanical& Chemical measures	-	Pierce the grains at miliking stage	Farmers
10	Army worm	Spodoptera Frugiperda	Caterpiller	All Crops	Defoliaties Major crops	Through the year	Mechanical& Chemical measures	-	Defoliates all crops	Farmers
11	Leaf Floder	Cnaphalocrocis meddialis	Ctter Pillers	Feeds on leavs abd stem	Attacts on Paddy Leaves	June to Oct.	Mechanical& Chemical measures	-	Major threats	Farmers
12	Stem Borer	Tryporza incrtules	Tana shedat/ Catter pillers	Bores into stem results into dead heart	Crops Plants	June to Oct.	Mechanical& Chemical measures	-	Major threats	Farmers
13	Cut worm	Agrotis ipsilon	Ludi	Cuts stem and leaves	Wheat sorguham 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	Ratus meltada	Chouha	Nocturnal in habit	Attacks all crops	Throughout the year	Mechanical& Chemical measures	-	Lives in burrows opening hidden in bushes	Farmers

Format 6: Mar	ormat 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						
	THERE IS NO	ORGANISED MARK	ET IN THE MUNICIPALIT	Y FOR ANY OF THE S	PECIES OF ANIMALS LIST	ΓED IN FORMAT 15								

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: Peo	plescape									
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
1416	Farming - Agriculture, Animal Husbandry, Horticulture	-	Agricultural	Wheat (Winters), Rice (Summer)	Mulching, Watering, Staking, Fertilization, Weed Control	Stripcropping, Grassed Waterways	General/ST/SC/ OBC	Middle Class	Permanent Settlers	329

Major occupation may be farming. Sub-occupations could be fishing, collection of NTFP animal husbandry, artisans, services Examples of depending landscapes are agriculture landscape, rivers, forest etc. Major resources accessed could be agriculture resources of different nature, fish, birds, water, mud, and etc How the community manages the landscapes they use for satisfying different needs, their strategies and perception How the community manages the resources they access for satisfying different needs, their strategies and perception, conflicts etc

Format 8	8:	Landscape
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	1		2	3	4	5	6	7	8	9	10	11	12
Major l	Major Landscapes		Sub -	Features and	Ownership	General flora	General fauna	User groups	Management	General uses	Associated TK	Other details	Community
Agricultural land	Pond	Fallow land	Landscapes	approx. area	Ownership	General nora	General fauna	Oser groups	practices	General uses	Associated TK	Other details	accessed
Cu	ltivated		Cultivated	Fertile Land	Private	Trees, Plants, Herbs, Shrubs	Rodents, Insects	Villagers/Locals	Crop Rotation, Terracing	Cultivation	Used for Farming	Nil	Low Income Communities
Non-Cul	ltivated I	Land	Non-Irrigated Land	Less Fertile	Govt./Privare	Marshy/Swampy plants	Insects and Amphibians	Villagers/Locals	Crop Rotation, Terracing	Cultivation	Available for Farming	Nil	Low Income Communities
Irriga	ated Land	d	Irrigated Land	Fertile Land	Private Land	Rice, Vegetables, Flowers, etc.	Ambhibians, Insects	Zamindars	Canals, Channels, Khuls, Distributories etc.	Crop Cultivation	Available for Farming	Nil	Every Community
Graz	ing Land	1	Non-cultivated	Lush Green	Govt. Land	Plants, Herbs	Rodents, Insects	Villagers/Locals	Nil	Animal Grazing	NA	Nil	Every Community

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	Sub-type	Features and Approx. area	Ownership	General flora	Genreal fauna	Major Uses	User group	Management practices	General uses	Assocaited TK	Other details	Community accessed
Ponds	Ponds	Talab	Filled during Rainy Season	Private Land/State Land	Crops like fruits, vegetables, flowers	Frogs, Tadpoles snakes, snail,	Cattles, Washing Cloths etc.	Public	Eradication and control of aquatic weeds and algae, Fertilization of Ponds, Eradication of Predory Insects			
Tube well	Tube well	Nil	Nil	State Land	Nil	Nil	Cattles, Washing cloths, Drinking etc	Public	Nil			
Dug wells	Dug wells	Nil	Nil	Private	Nil	Nil	Cattles, washing cloths, irrigation, Drinking etc	Public	Nil			
Canals	Canals	Khuls	Irrigational Khuls	State Land	Crops like fruits, vegetables, flowers	Frogs, Tadpoles snakes, snail,	Cattles, washing cloths, irrigation, etc	Public	Nil			
Hand pumps	Hand pumps	Nil	Nil	Private land/State Land	Nil	Nil	Cattles, washing cloths, Drinking etc	Public	Nil			

Format-10: Soil Type

1	2	3	4	5	6	7	8
Soil Type	Color & Texture	Features	Soil Management	Plants / crop suitable	Flora and Fauna	Associated TK	Other information
Sandy loam	Moderately course Sand-65%, Silt-20%, Clay-15%	N-low, P-medium, K- medium	NA	Wheat, Maize, Pulses, Vegetables and Fruits such, Potatoes, Cucumber, Beans, Spinach, Tomatoes, Carrots, Watermelons, Radishes	Both	NA	Organic carbon 0.35-0.44 (low) Grittyleaves smear on hand, does not ribbonbreaks into small pieces
Loamy Sand	Coarse to very coarse Sand-82%, Silt-10%, Clay- 8%	N-low, P-medium, K- high	NA	Wheat, Maize, Millets, Pulses, Vegetables and Fruits such as Potatoes, Cucumber, Beans, Spinach, Tomatoes, Carrots, Watermelon, Radishes	Both	NA	Organic carbon 0.45-0.55 (low) Grittydoes not ribbon or leave a stained smear on hand
Clay Loam	Moderately fine Sand-34%, Clay-33%, Silt-33%	N-low, P-medium, K- medium	NA	Paddy, Wheat, Maize, Pulses, Oil seeds, Sugarcane Cruciferous vegetables such as broccoli and cabbage and other vegetables and Fruits such as tomatoes, green beans, cucumbers, Onions, Cauliflower, Potatoes, Peas, Beans, Carrots, Pumpkins, Radishes,	Both	NA	Organic carbon 0.40-0.50 (low) Forms ribbon; clays form longer ribbons than clay loams. Clay loam feels gritty

Silty clay loam	Moderately fine Silt-52%, Clay-35%, Sand-13%	N-low, P-medium, K- medium	NA	Paddy, Wheat, Maize, Pulses, Oil seeds, Sugarcane Cruciferous vegetables such as broccoli and cabbage and other vegetables and Fruits such as tomatoes, green beans, cucumbers, Onions, Cauliflower, Potatoes, Peas, Beans, Carrots, Pumpkins, Radishes	Both	NA	Organic carbon 0.42-0.50 (low) Forms ribbon; clays form longer ribbons than clay loams

Format 11: Fruit Trees

1	2	3	4	6	7	7	8	9	10	11	12	13
Plant	Local Name	Scientific Name	Variety	Landscape /Habitat	Local	Local Status Past Present Source of Seeds / Plants		Season of	Associated TK	Uses	Other Details	Community /Knowledge
T mit	Local Paine	Scientific Pulic	variety	Landscape / Habitat	Past			fruiting	71550ciated 111	CSCS	markt / own use	Holder
Mango	Aam	Mangifera indica	Desi, Dushari , Malta	Northern Plains, Sub- Tropical Region	Plenty	Plenty	Nurseries	June- August		Fruit,Picking, Preserves	Marketing, own use	
Citrus Fruits	Khatti, Mosambi, santra, Nimbu,	Citrus spp	Local,Kagzi lime, Italian limeHill lemon etc	Northern Plains, Sub- Tropical Region	Rare	Rare	Nurseries	throughout year		Fruit, picking Squashes etc.	Marketing, own use	
Guava	Amrood	Psidium guajava	Local, Allahabadi, Safaida	Northern Plains, Sub- Tropical Region	Rare	Rare	Nurseries	June- August		fruit	Marketing, own use	
Amla	Ambla	Phyllanthus emblica	local selection NA-7	Northern Plains, Sub- Tropical Region	Rare	Rare	Nurseries local collection	Nov- Dec.		picking, fruit juices	Marketing, own use	
Jamun	Jamun	Syzygium cumini	local selection	Northern Plains, Sub- Tropical Region	Normal	Normal	Nurseries, local raised	July- August		fruit	Marketing/Own use	

Format 12: Medicinal Plants (Herbs, Shrubs, Trees etc.)

1	2	3	4	5	•	6	7	8	9	10	11	12
DI 4 T	I IN	G : de N	*7		Local	Status	Source of	Season of	H ()	1 1 1 TOY	Other details	Community/ Know.
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Past	Present	plant/seeds	Fruiting	Uses (usage)	Associated TK	market/own use	holder
Herbs	Dudlu	Taraxacum officinale		Temperate area	Rare	Rare	Root			N.A	N.A	Generally, held by community
Herbs	Tarad	Dioscorea belophylla		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Herbs	Jungli putna	Mentha arvensis		Lower shiwalik/Temperate area	Abundant	Abundant	Root			N.A	N.A	Generally, held by community
Shrubs	brankad	Adhatoda vesica		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Shrubs	Drainkdu	Murraya koenigii		Sub-Tropical area	Rare	Abundant	Seed			N.A	N.A	Generally, held by community
Shrubs	Dussa	Colebrookia oppositifolia		Lower shiwalik	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Shrubs	Bhang	Canabis sativa		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Amla	Phyllanthus emblica		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Bill-Patre	Aegle mermelos		Sub-Tropical area	Rare	Rare	Seed			N.A	N.A	Generally, held by community
Tree	Drankh	Melia azedarach		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Jaman	Syzygium cumini		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community
Tree	Mangoo	Mangifera indica		Lower shiwalik	Abundant	Abundant	Seed			N.A	N.A	Generally, held by community

Tree	Retha	Sapindus mukorossii	Lower shiwalik	Rare	Rare	Seed		N.A	N.A	Generally, held by community
Tree	Sree	Albizzia lebbeck	Lower shiwalik	Abundant	Abundant	Seed		N.A	N.A	Generally, held by community
Tree	Talli	Dalbergia sissoo	Lower shiwalik	Abundant	Abundant	Seed		N.A	N.A	Generally, held by community
Tree	Trimbal	Ficus auriculata	Lower shiwalik	Abundant	Abundant	Seed		N.A	N.A	Generally, held by community
Tree	Tuni	Toona ciliata	Lower shiwalik	Abundant	Abundant	Seed		N.A	N.A	Generally, held by community
Tree	Amla	Phyllanthus emblica	Lower shiwalik	Abundant	Abundant	Seed		N.A	N.A	Generally, held by community
Shrubs	Bhang	Cannabis sativa	Lower shiwalik	Abundant	Abundant	Seed		N.A	N.A	Generally, held by community

Format 13: Ornamental Plants/ Trees/Climbers etc. 1 2 3 5 6 8 9 10 4 7 Source of Commercial/ non-Community/ Know. Plant Type Local name Scientific name Variety Uses Associated TK Other details plant/seeds commercial holder Generally, held by Kringal Casia fistula Flower Fruit Non-Commercial N.A N.A Tree N.A community

Seed

Non-Commercial

N.A

N.A

N.A

Gandera

Tree

Nerium oleander

Generally, held by

community

Format 14: Timber Plants / Trees

1	2	3	4	:	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local	status	Wild/ home-	Other uses	Associated TK	Other details	Community/ Know.
Trant Type	Local Name	Scientific Name	Habitat	Past	Present	garden	(multi)	Associated TK	Other details	holder
Tree	Kiker	Vachellia nilotica	Lower shiwalik	Rare	Rare	Wild	Own	Nil	Nil	Generally, held by community
Tree	Mangoo	Mangifera indica	Lower shiwalik	Abundant	Abundant	Wild/ home- garden	Own	Nil	Nil	Generally, held by community
Tree	Safeda	Eucalyptus spp.	Lower shiwalik	Rare	Abundant	Wild	Commercial	Nil	Nil	Generally, held by community
Tree	Sree	Albizzia lebbeck	Lower shiwalik	Abundant	Abundant	Wild	Own	Nil	Nil	Generally, held by community
Tree	Talli	Dalbergia sissoo	Lower shiwalik	Abundant	Abundant	Wild	Own	Nil	Nil	Generally, held by community
Tree	Popular	Populus ciliata	Lower shiwalik	Rare	Abundant	Wild	Own	Nil	Nil	Generally, held by community
Tree	Jammun	Syzygium cumini	Lower shiwalik	Rare	Abundant	Wild	Own	Nil	Nil	Generally, held by community

Format 15: Domesticated Animals

1	2	3	4	5	6	7	,	8	9	10	11	12
Animal	Local	Scientific Name	Breed (local/	Features	Method of	Local	Status	Uses	Associated TK	Commercial	Other details including	Community
Туре	Name	Scientific Ivallie	hybrid)	reatures	keeping	Past	Present	Uses	Associated TK	rearing	products and Services	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
Випаю	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
	Parrot	Psittaciformes	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All
	Pigeon	Columbidae	Local	white color, fast growing	Backyard	few	Decrease	decorative	Nil	No	nil	All
Dog	Kutta	Canis familaries	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

Format 16:	Format 16: Culture Fisheries												
1	2	3	4	5	6	,	7	8	9	10	11	12	
Fish Type	Local Name	Scientific	Variety	Features	Waterscape (Pond/Bheri/T	Local	status	Uses	Associated TK	Commercial	Other details	Community Know.	
rish Type	Local Name	Name	variety	reatures	alao)	Past	Present	Uses	Associated TK	Rearing	Other details	Holders	
				There	e is no culture F	isheries take	en up in this	panchayat					

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

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 the animals are arrived	Places to where the animals are transported

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 /	Part collected	Associated TK	Other details	Community Knowledge
Tiant Type	Local Name	Scientific Ivame	Habit	Habitat	Past	Present	own use	1 art conecteu	Associated 1 K	Other details	Holder
Tree	Amla	Phyllanthus emblica	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	Food processing	1	-
Tree	Siris	Albizziz lebbeck	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Jamun	Syzygium cumini	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Amb	Mangifera indica	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit	-	-	-
Tree	Kiker	Acacia nilotica	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	1	-	-
Tree	Safeda	Eucalyptus	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Herbs	Bhang	Cannabis sativa	herbs	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Leaves	-	-	-
Herbs	congress Grass	Parthenium hysterophrous	herbs	Northern/Sub-Tropical	Good	Moderate	_	_	-	-	-
Tree	Badh	Ficus religiosa	Tree	Northern/Sub-Tropical	Good	Moderate	_		-	-	-
Tree	Phulai	Acacia modesta	Tree	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Climber	Tarad	Dioscorea belophylla	Climber	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Roots			
Climber	Jungli bitter melon	Momordica charantia	Climber	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Fruit			
Climber	Purple yam	Dioscorea alata	Climber	Northern/Sub-Tropical	Good	Moderate	_				
Climber	Striped cucumber	Diplocyclos palmatus	Climber	Northern/Sub-Tropical	Good	Moderate	-				

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	Daduni	Punica grantum	Shrub	Live Hedge fencing	Good
2	Kanner/Lal Gandila	Nerium indicum	Shrub		Good
3	Bhang	Cannabis sativa	Shrub	Medicinal	Good

Format 20:	Aquatic	Biodiversity	
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1	2	3	4	5		6	7	8	9	10
Local name	Scientific name	Variety	Features	Habitat	Local	Status	Uses	Associated TK	Other details	Community knowledge
					Past	Present				holder
Snail	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	-	-	-	
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	-	-	-	
Watercress	Nasturtium officinale		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 Plan	t Species of Importan	ce		
1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance (economic,social,cultural etc.)	Trends
1	Watercress	Nasturtium officinale	-	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		8	9	10	11
Plant(herb,			l status	Associated TK	Uses	Part used	Other details	c.knowledge			
shrub,tree)	Local Ivallic	Scientific Ivame	variety	habitat	Past	Present	Associated TK	OSCS	1 art uscu	market/own use	holder
Tree	Amla	Phyllanthus emblica	Tree	Northern/Sub- Tropical	Good	Good		Medicinal	Bark/ Fruit	-	
Tree	Jamun	Syzygium cumini	Tree	Northern/Sub- Tropical	Good	Good		Medicinal	Fruit /seeds	-	

Format 23: V	Vild relatives	of Crops								
1	2	3	4	:	5	6	7	8	9	10
Local	Scientific	Associated crop	Landscape / Habitat		Status	Uses	Part	Associated	Other details	Community / Know
Name	Name	Associated crop	Lanuscape / maonat	Past	Present	(usage)	Used	TK	other details	holder

Format 24: Or	rnamental 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	-	-	-	-
Bougainvillea	Bougainvillea glabra	Shrub	Northern/ Sub-Tropical	-	-	-	-

Format 25: Fumigate / Chewing Plants

1	2	3	4	5	6	5	7	8	9	10	11
Plant (herb,shrub,Tre	Local Name	Scientific Name	Variety	Habitat	Local	status	uses	Part used	Ass.TK	Other details	Community knowledge holder
e)	Local Name	Scientific Name	variety	Habitat	Past	Present	uses	1 art useu	ASS.1 K	Other details	
Herb	Pudina	Mentha spp.		Homestead, agricultural land	Abudant	Abudant	Spice	Leaves	Anti cancer activity against different types of human cancers as cervix, breast and many others	dishes, food, beverages,	Locals
Herb	wild Tulsi	Ocimum sanctum		Moist soil	Abudant	Abudant	Medicinal	Leaves	Used in Cough, Colds, Asthma, and Bronchitis	Effective remedy for hair loss treatment	Locals

Format 26: Timber Plants

1	2	3	4		4		4		5	6	7	8
Local Name	Scientific Name	Habitat	Local Status		Other uses, if any	Associated Tk	Any other detail	Community				
Local Ivallie	Scientific Name	Habitat	Past	Present	Other uses, if any	Associated 1 K	Any other detail	knowledge holder				
Shisham	Dalbergia sissoo	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-				
Safeda	Eucalyptus	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-				
Simbal	Bombax ceiba	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-				
Tunu	Toona ciliata	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-				
Jamun	Syzygium cumini	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-				

Format 27 A	: Coastal and	Marine Flora								
1	2	3	4		5	6	7	8	9	10
Dlant Type	Local Name	Scientific Name	Habitat	Local	Status	Parts Collected	Commercial Uses	Other Uses	Associated TK	Community/
Plant Type	Local Name	Scientific Name	Habitat	Past	Present	(if any)	(if any)	Other Uses	Associated 1 K	Community/ Knowledge Holder

ormat 27 B: (Coastal and M	arine Fauna								
1	2	3	4	:	5	6	7	8	9	10
Animal Type	Local Name	Scientific Name	Habitat	Local	Status	Parts collected	Commercial Uses	Other Uses	Associated TK	Community/ Knowledge Holder
Animal Type	Local Name	Scientific Name	парцас	Past	Present	(if any)	(if any)	Other Uses	Associated 1K	Knowledge Holder

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

1	2	3	4	5	6	•	7	8	9	10	11
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when	Local	status	usos if any	Ass. TK	Other	Community/
Animal Type	Local Name	Scientific Name	павца	Description	seen	Past	Present	uses if any	Ass. IX	details	Knowledge Holder
Wild bird	Rose ringed parakeet	Psittaculidae	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Wild Animal	Squirrels	Sciuridae	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	Grasshooper	Caelifera	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	butterfly	Rhopalocera	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	bees	Apis mellifera	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	ants	Brachymyrmex patagonicus	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
wild insects	Bumble bee	Bombus	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Amphibia	Frog	Euphlyctis cyanophlyctis	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	
Reptiles	Snake	Serpentes	Northern/ Sub-Tropical	-	-	Good	Good	-	-	-	

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