

<b>People Biodiversity Register (PBR): General Details</b>	
Name of the Panchayat Samiti: Surey Chak	
Taluk: Mandal Phallian	
District: Jammu	
State/UT: J&K	
Geographical Area of the Panchayat Samiti: 3.901 Hect.	
Population under the Panchayat Samiti: 1880	
Male: 1000	Female: 880
Habitat and Topography: Plain	
Climate (Rainfall, Temperature and weather patterns): Hot, Cold & Pleasand	
Land Use (Nine fold classification available with village records) Agriculture	
Date, Month and Year of PBR Preparation: 30/11/2019	
Management Regime: Reserve Forest (RF)/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Manage	

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

**1) Name of the Chairperson:** Ichaya Devi

**Age:** 45 Yr

**Gender:** Female

**Address:** Ganeshu Chak Pyt Sure Chak Tehsil Mandal 180003

**Area of specialization:**

**2) Name:** Girdhari Lal

**Age:** 56 Yr.

**Gender:** Male

**Address:** Karneley Chak Chak Pyt Sure Chak Tehsil Mandal 180003

**Area of specialization:** Farmer

**3) Name:** Ramesh Chander

**Age:** 58 Yr.

**Gender:** Male

**Address:** Karneley Chak Chak Pyt Sure Chak Tehsil Mandal 180003

**Area of specialization:**

**4)Name:** Tirth Rami

**Age:** 65 Yr.

**Gender:** Male

**Address:** Sure Chak Tehsil Mandal 180003

**Area of specialization:**

**5)Name:** Mulakh Raj

**Age:** 67 Yr.

**Gender:** Male

**Address:** Sure Chak Tehsil Mandal 180003

**Area of specialization:**

**6) Name:** Seema Devi

**Age:** 36 Yr.

**Gender:** Female

**Address:** Sure Chak Tehsil Mandal 180003

**Area of specialization:** Social Worker

**7)Name:** Shakti Devi

**Age:** 34 Yr.

**Gender:** Female

**Address:** Sure Chak Tehsil Mandal 180003

**Area of specialization:**

<div>Annexure-2</div>
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:
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:

**Annexure 3**

**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:** Parveen Kour (7006705174)

**Age:** 40 Year

**Gender:** Female

**Address:** Jammu

**Area of specialization:** Agriculture

**2) Name of the Chairperson:** Naveen Singh (Mobile No. : 7051239199)

**Age:** 35

**Gender:** Male

**Address:** Surey Chak

**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**

**Annexure 5**

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

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

*End of Part I*

**Part II**  
**PBR – Formats**  
**AGROBIODIVERSITY**

### Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12	13	14	15
Crop	Local Name	Scientific Name	Variety	Landscape / Habitat	Approx Area Sown	Local Status		Special features	Cropping Season	Uses	Associated TK	Other Details	Cropping Season	Source of Seeds / Plants	Community / Knowledge Holder
						Past	Present								
1	Rice	<i>Oryza sativa</i>	Dhan/ Munji	B-370(Fine & Long duration)	Planes / Low laying Areas	Normal	Normal		Basmati 370 is world wise known for its aroma	Food & Fodder	Provides energy fragrance and taste	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				Basmati 1121/(Coarse K39 K434 Rattana & Long duration)		Normal	Normal		Medium tall Coarse Grains						
2	Maize	<i>Zea mays</i>	Maka	Dekalb double	Sub tropical / Upland	Rare	Plenty		Tall, high yielding with yellow in colour)	Food & Fodder	Provides energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
	Maize	<i>Zea mays</i>	Maka	K-517		Plenty	Rare		Average tall with yellow in colour						
	Maize	<i>Zea mays</i>	Maka	Ujala		Normal	Plenty								
	Maize	<i>Zea mays</i>	Maka	K-612		Plenty	Normal								

	Maize	<i>Zea mays</i>	Maka	Pro Agro-4794	Sub tropical / Upland	Plenty	Normal		Tall, high yielding with yellow in colour)	Food & Fodder	Provides energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
3	Moong	<i>Vigna radiata</i>	Moong	PDM-54	Hot / Humid of Sub tropical region	Normal	Rare		Medium	Food	Source of Vegetable Protein	Also suitable for green Manuring	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
				SML-668		Normal	Plenty		High yielding Variety						
				IPM-0203		Normal	Rare		Excessive vegetative growth						
4	Mash	<i>Vigna mungo</i>	Mhaa	PU-19	Warm / Humid of Sub tropical region	Normal	Normal		High yielding Variety	Food	Source of Vegetable Protein	-	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
				Utra		Normal	Normal								
5	Bajra	<i>Pennisetum americanum</i>	Bajra	Local Variety	Warm / Humid climate under Sandy loam Soil	Normal	Normal		Tall & low Yielding variety	Food & Fodder	Source of Energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
				MHB-110		Normal	Normal								
6	Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PB W644	Cool Climate during early part of its growth	Plenty	Plenty		High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/ Bread making	Rabi	Farmers / Department/ Private Suppliers	Farmers



7	Lentil	<i>Lens esculantum</i>	Masar	PL406	Cool & dry	Normal	Normal		High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers
8	Chick-pea	<i>Cicer arietinum</i>	Chana	GNG-469/C 235	Cool & dry	Normal	Normal		High yielding Variety	Food	Source of Protein/Energy	Improve soil fertility	Rabi	Farmers / Department/ Private Suppliers	Farmers
9	Peas	<i>Pisum sativum</i>	Matar	Rachna	Cool & dry	Normal	Normal		Early maturing & High yielding	Food	Source of Protein/Energy	Used as Vegetable	Rabi	Farmers / Department/ Private Suppliers	Farmers
10	Onion	<i>Allium cepa</i>	Gamd	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas	Abundant	Abundant		Bulbs Cash Crop	Vegetables	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Private Suppliers	
11	Mustard	<i>Brassica juncea/ Brassica compestris</i>	Sarson	Pusa Bold/ KOS -1	Cool & dry	Normal	Normal		Matures in 145-150 days with 40-42 % oil content	oil for Food	Source of energy i	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers

12	Gobhi Sarson	<i>Brassica napus</i>	Gobhi Saria	GSL-1,DGS-1,Local	Cool & dry	Normal	Abundant		Annual Herb,yellow flowers bearing Pods	oil for Food,leaves used as vegetable	Source of energy i,calciam,copper,potassium	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
13	Linseed	<i>Linum usitatissimum</i>	Alsi	LC 54	Cool & dry	Normal	Normal		Medium duration	Food & fiber	Source of energy in the shape of Oil	Medicinal ,industrial & domestic use	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
14	Potato	<i>Solamum tuberosum</i>	Aalo	Kufri Sindhuri,Kufri Badsha, local	Potato is an herbaceous annual,requires cool weather,mostly rainfed conditions	Abundant	Abundant		Tubers are round to ovoid, creamish white to light red in colour with shallow eyes	Under ground tubers are used as vegetable,c hips etc	-	High carbohydrate,provide high n energy value	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
15	Toria	<i>Brassica j. rape cv.Toria</i>	Toria	RSPT-1,RSPT-2,Local var.	Cool & dry with bright sunshine	Normal	Normal		Short durationAnnu al Herb	oil for prepration of Food	Source of energy i,calciam,copper,potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Privaate Suppliers	Farmers

16	Sesame	<i>Sesamum indicum</i>	Til	Punjab Til No.1/local	Warm / Humid of Sub tropical region	Normal	Normal		Medium Yielding	Food	Source of Vegetable oil	Religiuous and medicinal value	June - Oct.	Farmers / Department/ Privaate Suppliers	Farmers
17	Sugarcane	<i>Saccharum officinarum</i>	Ganna	COJ-64,COJ-81	Sub Tropical	Rare	Rare		Long duration crop for Nine months	Food	Source of energy in the shape of Gur/Sugar	Sugar cane Juice used as prefered drink for instant source of energy during summer besides beating heat	Spring season	Farmers / Department/ Privaate Suppliers	Farmers
18	Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropica/ sub tropicall vegetable,g rows well warm humid conditions	Abundant	Abundant		Pungency and flavor	Used as spice ,medicinal value	-	Contains good ammount of vitamin A&C	winter season	Farmers / Department/ Privaate Suppliers	Farmers

19	Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa rubi,Pusa early dwarf, Manisha Plus/local	Warm season crop	Abundant	Abundant		Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,s alad, soup,Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium .	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
20	Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/ sub tropicall vegetablHott and humid climate	Abundant	Abundant		Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dieta fibers,protein and carbohydrates	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
21	Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local,JL	Grows in all climatoic conditions, Tropical,Sub tropical &temprate	Abundant	Abundant		Limbing annual bearing elongated thick cylendrical fruit	Mainly used as salad	-	It also used asantipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
22	Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer &rainy season crop	Abundant	Abundant		Vines vigorous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Privaate Suppliers	Farmers

23	Bitter gourd	<i>Momordica charantia</i>	karela	Pusa Domausmi/Kundan	Warm and Humid climate	Abundant	Abundant		Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maintaining low sugar level	Summer/kharif	Farmers / Department/ Private Suppliers	Farmers
24	Beans	<i>Phaseolus Spp.</i>	Phaliya	Contender	Cool weather crop/Sandy/loamy soil	Abundant	Abundant		Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High value protein, Vitamin B1, B2, B6 and Manganese	Summer season	Farmers / Department/ Private Suppliers	Farmers
25	Cauliflower	<i>Brassica oleraceae var. botrytis</i>	Fol gobi	Pusa snow ball, Pusa Katki, local Girja	Both sub tropical & intermediate	Abundant	Abundant		White and tender head, curd for med from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein, carbohydrate, phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
26	Cabbage	<i>Brassica oleraceae var. capitata</i>	Band gobi	Golden Acre, Pride of India, Green Flesh	Both sub tropical & intermediate	Abundant	Abundant		Round head with light to dark green colour	Head Mainly used as vegetable, salad	-	Also good source of protein, carbohydrate, phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers

27	Knol khol	<i>Brassica oleraceae</i> <i>var.gongyloides</i>	Kadam	White vienna,Purple vienna	cool &moist climate/sub tropical	Abundant	Abundant		Swollen stem ,green/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Private Suppliers	Farmers
28	Spanich	<i>Spinacea oleracea</i>	Palak	All Green,Delta	Cool season Crop, thrives well on well drained loam soils	Abundant	Abundant		Tender green leaves & root used as Vegetable	Tender green leaves used as leafy Vegetable	-	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Private Suppliers	Farmers
29	Radish	<i>Raphanus sativus</i>	Mulli	Japanes White ,Kore n Etc	Cool season Crop, thrives well on well drained Sandy loam soils	Abundant	Abundant		Tender green leaves &roots used as Vegetable	Modified Roots are used as Vegetable & Salad	-	Full of vitamin A, C, E, B6, potassium , and other minerals,	Rabi	Farmers / Department/ Private Suppliers	Farmers

30	Carrot	<i>Daucus carota</i>	Gajer	Pusa Kesar, local	Cool & moist climate/ sub tropical & intermedite	Abundant	Abundant		Modified Root is eatable	Root is used as Vegetable, Salad, Juice, Sweet Dish, Preserve etc.	-	Good source of carotene, , lutein, and zeaxanthin. Vit A, C, B6, Folic acid	Rabi	Farmers / Department/ Private Suppliers	Farmers
31	Turnip	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool & moist climate/ sub tropical & intermedite	Abundant	Abundant		Modified Root is eatable	Root is used as Vegetable , Salad, .	-	Good source of Vit. C, Dietary Fiber & Potassium	Rabi	Farmers / Department/ Private Suppliers	Farmers
32	Exotic Vegetables	<i>Broccoli// Chinese Cabbage / Capsicum etc.</i>		Prevalent Hybrid varieties	Cool & moist climate/ sub tropical & intermedite	Rare	Abundant		All Plants Carts and Fruits are eatable Ric Source of antioxidants	Salad and Vegetable		Ric Source of Multivitamins, Minerals and Antioxidants	Rabi	Farmers / Department/ Private Suppliers	Farmers

<p><b>Format-2 : Fruit Plants</b></p>
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### Format-4 : Weeds

1	2	3	4	5	6	7	8		9	10	11	12	13
S. No.	Plant	Scientific Name	Local Name	Affected Crop	Habit	Landscape/ Habitat	Local Status		Uses if any	Management options	Associated TK	Other details	Community Kn. Holders
							Past	Present					
1	Canary Grass	<i>Phalaris minor</i>	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land	Farmers
2	Meadow Pea	<i>Lathyrus aphaca</i>	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land	Farmers
3	Wild onion	<i>Allium humaie</i>	Jangli payas	Onion	Annual herb	Temprate/sub tropical	Rare	Rare	Food and medicine	All parts used	-	-	Farmers
4	Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Also Used as medicinal herb	Farmers
5	Barnyard Grass	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil	Farmers
6	Carrot grass	<i>Parthenum hysterophorus</i>	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Abundant	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage		Farmers
7	Bur Clover	<i>Medicago denticulata</i>	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder, vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Farmers

8	Bang	<i>Cannabis indica</i>	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
9	Dub Grass	<i>Cynodon dactylon</i>	Dub Grass	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abudant	Abudant	Fooder	Mechanical, Chemical	Nil	Agri. & wasteLand	Farmers
10	Wild oats	<i>Avena fatua</i>	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers
11	Wild Rice	<i>Echinochloa colonum</i>	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutrative Fodder for Animals	Farmers

**Format-5: Pests of Crops**

1	2	3	4	5	6	7	8	9	10	11
S. No.	Insect /Animal	Scientific Name	Local Name	Habit	Habitat	Time/Season of Attack	Management Mechanism	Associated TK	Other details	Community Kn. Holders
1	Mustard aphid	<i>Lipaphis erysimi</i>	aphid	Sucking pest	Attacks mustard & other cucurbit crops	Dec-March	Timely sowing of crop & Chemical, Biological & Mechanical	-	Major threat to oil seed crops of Rabi	Farmers
2	Termite	<i>Microtermis obesi/ Odontoremes obesus</i>	Telle	Chewing & biting	Wheat & other crops	Nov-May	Cultural & Chemical measures	-	Major threat to unirrigated crops	Farmers
3	Blister beetle	<i>Mylabris spp.</i>	Ghuri	Chewing & biting	Attacks Maize, Bhindi & Pulses	June-Oct	Mechanical& Chemical measures	-	Insectivorous feed on grasshopper	Farmers
4	Cereal leaf Beetle	<i>Oulema melanopus</i>		Chewing & biting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence	Farmers
5	Red Pumpkin Beetle	<i>Raphidopalpa foveicellis</i>	Lal Kaddu Beetle	Chewing & biting	Cucurbits	March-Oct	Chemical measures	-	Most common in fields of Cucurbits	Farmers
7	Maize stem Borer	<i>Chilo partellus</i>	Sundi /Tana-shedak	Chewing & biting	Attacks Maize, sorghum , Bajra & sugarcane	July to sept	Mechanical& Chemical measures	-	Causes dead hearts in young plants	Farmers
8	Grasshopper	<i>Hygro blasses Negro / Hieroglyphus nigropletus</i>	Tidi	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves	Farmers

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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
1880	Agriculture	Labour	Plain Area	Agriculture Rabi/Kharif	Plain area	Satisfied	Mix	Average	Average	359

Major occupation may be farming. Sub-occupations could be fishing, collection of NTFP animal husbandry, artisans, services Examples of depending landscapes are agriculture landscape, rivers, forest etc.

Major resources accessed could be agriculture resources of different nature, fish, birds, water, mud, and etc

How the community manages the landscapes they use for satisfying different needs, their strategies and perception

How the community manages the resources they access for satisfying different needs, their strategies and perception, conflicts etc

Format 8: Landscape													
1			2	3	4	5	6	7	8	9	10	11	12
Major Landscapes			Sub - Landscapes	Features and approx. area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Agricultural land	Pond	Fallow land											
Plains & Kandi areas			Plains	Flat sweepng landmass with small change in elevation	Private and State lands.	Broad leaved mainly Tali, Phagari, Jamun, Aamb, Amla, Kikar, Bohr, Neem, Bana, Drenk, Jojera, Panjphulai, Khar grass, Dhub grass,	Domestic animals, wildlife such as wild pig, Snakes, jackal, etc.	Public,as well as pvt and Govt also		Aesthetic and scenic beauty in urban areas			
Lower Shiwalik areas			Sub-mountains or Hillocks	Plain terrain with gentle slope									
Shiwalik areas			Hills	Hills with gentle slopes									

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



<b>Format-9: Waterscape</b>
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Format-10: Soil Type									
1	2	3	4	5	6	7	8	9	10
S.No.	Soil	Type	Colour	Features	Soil management	Plants/Crop Suitable	Flora and Fauna	Associated TK	Other Information
1	Sandy Loam	Type B	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	Type A	Light yellow to raddish colour	Small particles size, Texture dense and compact, retains water and nutrition	Provide good drainage, add organic manure in the form of compost or humus	Plants/Crop Suitable	Ornamental Plants/ grasses, plants with evergreen leaves, colourful Berries	-	Soil is good for wild varieties of crops, however drainage is a problem

## Format 11: Fruit Trees

1	2	3	4	6	7		8	9	10	11	12	13
Plant	Local Name	Scientific Name	Variety	Landscape / Habitat	Local Status		Source of Seeds / Plants	Season of fruiting	Associated TK	Uses	Other Details markt / own use	Community / Knowledge Holder
					Past	Present						
Jamun	<i>Jamun</i>	<i>Syzygium cumini</i>	local selection	plains	rare	rare	Nurseries, local raised	July- August		fruit	Own use	
Mango	<i>Aam</i>	<i>Mangifera indica</i>	Desi, Dushari , Malta	Plains	plenty	plenty	Nurseries	June- August		Fruit,Picking, Preserves	Marketing, own use	
Citrus Fruits	<i>Khatti, Mosambi, santra, Nimbu,</i>	<i>Citrus spp</i>	Local,Kagzi lime, Italian limeHill lemon etc	plains,mid hills	plenty	plenty	Nurseries	throughout year		Fruit, picking Squashes etc.	Marketing, own use	
Litchi	<i>Litchi</i>	<i>Litchi chinensis</i>	Calcutta Dehradun	plains	plenty	plenty	Nurseries	June- August		fruit	Marketing	
Guava	<i>Amrood</i>	<i>Psidium guajava</i>	Local, Allahabadi, Safaida	plains lower hills	plenty	plenty	Nurseries	June- August		fruit	Marketing, own use	
Grapes	<i>Angoor</i>	<i>Vitis vinifera Michx</i>	Local Dakh perlette	plains mid hills	rare	plenty	Nurseries	June- August		fruit		
Aonia	<i>Ambla</i>	<i>Embllica officinalls Syn Phyllanthus emblica</i>	local selection NA-7	Plains mid hills	plenty	plenty	Nurseries local collection	Nov- Dec.		picking, fruit juices	Marketing, own use	

Ber	<i>ber</i>	<i>Zizyphus mauritiana lamk</i>	Gola Banarasi	Plains	plenty	plenty	local raised	July- August		fruit	Own use	
Karonda	<i>gernay</i>	<i>Carissa carandas</i>	local	plains/hills	rare	rare	Nurseries, wild	June-August		fruit	Marketing,own use	
Papaya	<i>Papita</i>	<i>Carica papaya</i>	local	plains	rare	plenty	Nurseries, locally raised	August- October		fruit	own use	

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

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Source of plant/seeds	Local Status		Uses (usage)	Part used	Associated TK	Other details market/own use	Community/ Know. holder
						Past	Present					
Herbs	Jungli putna	<i>Mentha arvensis</i>		Lower shiwalik/Temperate area	Stem/Seed	Abundant	Abundant	medicinal	Leaves	N.A	N.A	Generally, held by community
Shrubs	Brankad	<i>Adhatoda vasica</i>		Lower shiwalik	Seed	Abundant	Abundant	medicinal	Roots & Flower	N.A	N.A	Generally, held by community
Shrubs	Drainkad	<i>Murraya koenigii</i>		Sub-Tropical area	Seed	Rare	Rare	medicinal & spice	Fruit	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Seed	Rare	Rare	medicinal	Leaves	N.A	N.A	Generally, held by community
Herbs	Bhang	<i>Canabis sativa</i>		Lower shiwalik	Seed	Abundant	Abundant	medicinal	Leaves	N.A	N.A	Generally, held by community
Tree	Bair	<i>Ziziphus marutiania</i>		Lower shiwalik	Seed	Rare	Rare	medicinal	Stem	N.A	N.A	Generally, held by community
Tree	Draink	<i>Melia azadirach</i>		Lower shiwalik	Seed	Abundant	Abundant	medicinal	Leaves	N.A	N.A	Generally, held by community
Tree	Jamun	<i>Syzygium cumini</i>		Lower shiwalik	Seed	Abundant	Abundant	medicinal	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>		Lower shiwalik	Seed	Rare	Rare	medicinal	Leaves/ Flower	N.A	N.A	Generally, held by community

Tree	Khair	<i>Acacia catechu</i>		Lower shiwalik	Seed	Abundant	Abundant	medicinal	Leaves/Stem	N.A	N.A	Generally, held by community
Tree	Mango	<i>Mangifera indica</i>		Lower shiwalik	Seed	Abundant	Abundant	Fruits	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Siris	<i>Albizzia lebbeck</i>		Lower shiwalik	Seed	Abundant	Abundant	Firewood	Leaves/Stem	N.A	N.A	Generally, held by community
Tree	Tali	<i>Dalbergia sissoo</i>		Lower shiwalik	Seed	Abundant	Abundant	Timber & fodder	Stem	N.A	N.A	Generally, held by community
Tree	Amla	<i>Emblica officinalis</i>		Lower shiwalik	Seed	Rare	Rare	medicinal	Leaves/Bark	N.A	N.A	Generally, held by community

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

1	2	3	4	5	6	7	8	9	10
Plant Type	Local name	Scientific name	Variety	Source of plant/seeds	Commercial/ non-commercial	Uses	Associated TK	Other details	Community/ Know. holder
Climber	Booganbel	<i>Bougainvillea glabra</i>		Cuttings	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Krangal	<i>Casia fistula</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Satpati	<i>Alstonia scholaris</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Bottle brush	<i>Callistemon citrinus</i>		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Shrub	Gandela	<i>Nerium oleander</i>		Cuttings	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Kaner	<i>Thervetia peru viana</i>		Seed	Non-Commercial		Fevers	Flower most of the year	Gardeners

<b>Format 14: Timber Plants / Trees</b>
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[illegible]



**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					
Sheep	Bhaed	<i>Ovis aries</i>	Local (Non descript)	Small size, low body weight, rough body coat	Statonary	Pleny	Rare	Mutton, wool, skin and manure	Yes	Some	Mutton, wool, skin and manure bones hide and gut	Locals
Sheep	Bhaed	<i>Ovis aries</i>	Rambouillet cross	Large size, fine wool, with long legs mostly white in color	Statonary	Pleny	Rare	Mutton, wool, skin and manure	Yes	Some	Mutton, wool, skin and manure bones hide and gut	Locals
Goat	Bakri	<i>Copra</i>	Beetal Crosses	Large size, high body wt. mostly black & brown body color	Statonary	Pleny	Rare	Chevon milk, skin, hair and manure	Yes	Some	Chevo, milk skin, hair, bones, hide and gut	Locals
Cow	gau	<i>Bos indicus</i>	ND	Low Yield	Stall Feeding	Plenty	Plenty	Dairy		No	Milk	
Buffalo	Manj	<i>Bubalus bubalis</i>	Local	Low Yield	Stall Feeding	Plenty	Rare	Dairy		No	Milk	

**Format 16: Culture Fisheries**

1	2	3	4	5	6	7		8	9	10	11	12
Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (Pond/Bheri/T alao)	Local status		Uses	Associated TK	Commercial Rearing	Other details	Community Know. Holders
						Past	Present					
There is no culture Fisheries taken up in this panchayat												

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

<p><b>Format 17: Markets / Fairs for Domesticated Animals, Medicinal Plants and other products</b></p>
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[illegible]

**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	Tali	<i>Dalbergia sisoo</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Stem, Timber	-	-	-
Tree	Khair	<i>Acacia catechu</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	Katha	-	-
Tree	Amla	<i>Emblica officinalis</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Fruit	Food processing	-	-
Tree	Siris	<i>Albizzia lebbek</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial own use	Timber/ Firewood	-	-	-
Tree	Simbal	<i>Bombax ceiba</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Kamila	<i>Mallotus philippensis</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial /own use	Timber/ Firewood	-	-	-
Tree	Krangal	<i>Cassia fistula</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-	-
Tree	Ber	<i>Ziziphus jujuba</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial /own use	Fruit	-	-	-

Tree	Plaah	<i>Butea monosperma</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Arjun	<i>Terminalia arjuna</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Amb	<i>Mangifera indica</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Fruit	-	-	-
Tree	Kiker	<i>Acacia nilotica</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Safeda	<i>Eucalyptus</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Neem	<i>Azadirachata indica</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Climber	Amar bel	<i>Cuscuta reflexa</i>	Climber	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Grass	Doob grass	<i>Cynadon dactylon</i>	Grass	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Climber	Giloe	<i>Tinospora cordifolia</i>	Climber	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-
Tree	Bel	<i>Aegle marmelos</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/own use	Timber/ Firewood	-	-	-

[illegible]

**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	Lal Gandila	<i>Nerium indicum</i>	Shrub	Aesthetic	Good
2	Daduni	<i>Punica grantum</i>	Shrub	Live Hedge fencing	Good
3	Brenkar	<i>Adhatoda vasica</i>	Shrub	Medicinal	Good
4	Aak	<i>Calotropis gigantea</i>	Shrub	Medicinal	Good
5	Arnid	<i>Ricinus cuminus</i>	Shrub	Medicinal	Good
6	Bana	<i>Vitex negundo</i>	Shrub	Medicinal	Good
7	Bhang	<i>Cannabis sativa</i>	Shrub	Medicinal	Good
8	Thor	<i>Euphorbia royleana</i>	Shrub	Live Hedge fencing	Good
9	Jojra	<i>Pupalia lappacea</i>	Shrub	Medicinal	Good

<b>Format 20: Aquatic Biodiversity</b>
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[illegible]



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	Aak	<i>Ipomea carnea</i>			
2	Kumudene	<i>Nymphoides indica</i>			

**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					
Tree	Amla	<i>Embllica officinalis</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-	-
Tree	Krangal	<i>Cassia fistula</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Pod	-	-
Tree	Jamun	<i>Syzygium cumini</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-	-
Tree	Ber	<i>Ziziphus jujuba</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-	-
Tree	Kikar	<i>Acacia nilotica</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Bark & Pods	-	-
Tree	Dhrenk	<i>Melia azadirach</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Seeds & Leaves	-	-
Tree	Neem	<i>Azadirachata indica</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Leaves	-	-
Grass	Doob grass	<i>Cynodon dactylon</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Leaves	-	-
Shurb	Dhatura	<i>Datura stramonium</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-	-
Shurb	Arnid	<i>Ricinus communis</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Oil	-	-
Climber	Giloe	<i>Tinospora cordifolia</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Stem	-	-
Shurb	Bana	<i>Vitex negundo</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Leaves	-	-

<b>Format 23: Wild relatives of Crops</b>
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[illegible]

**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
Lal Gandila	<i>Nerium oleander</i>	Shrub	Farm land	-	-	-	-
Kaneer	<i>Thevetia peruviana</i>	Tree	Farm land	-	-	-	-
Bougainvillea	<i>Bougainvillea glabra</i>	Shrub	Farm land	-	-	-	-
Gulmohar	<i>Delonix regia</i>	Tree	Farm land	-	-	-	-
Krangal	<i>Cassia fistula</i>	Tree	Farm land	-	-	-	-
Karal	<i>Bahunia purpurea</i>	Tree	Farm land	-	-	-	-

**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 arvensis</i>		Farm lands	Good	Abundant	Spice	Leaves			
Herb	Buch	<i>Acrous calmus</i>		Farm lands	Good	Good	Medicinal	Roots			
Herb	Haldi	<i>Corcuma domestica</i>		Farm lands	Good	Abundant	Spice	Roots			
Herb	Ginger	<i>Zingiber officinale</i>		Farm lands	Good	Abundant	Spice	Roots			
Herb	Methi	<i>Trigonella foenum</i>		Farm lands	Good	Abundant	Spice	Seeds			
Grass	Citronella	<i>Cymbopogon nardus</i>		Farm lands	Good	Good	Spice	Leaves			
Herb	Horioh	<i>Brassica campestris</i>		Farm lands	Good	Abundant	Spice	Seeds			
Herb	Dhaniya	<i>Coriandrum sativum</i>		Farm lands	Good	Good	Spice	Leaves			

**Format 26: Timber Plants**

1	2	3	4		5	6	7	8
Local Name	Scientific Name	Habitat	Local Status		Other uses, if any	Associated Tk	Any other detail	Community knowledge holder
			Past	Present				
Shisham	<i>Dalbergia sissoo</i>	Farmlands	Good	Good	Commercial/ own use	Timber/ Firewood	-	-
Ber	<i>Ziziphus jujuba</i>	Farmlands	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Safeda	<i>Eucalyptus tereticornis</i>	Farmlands	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Aam	<i>Mangifera indica</i>	Farmlands	Good	Good	Commercial/ own use	Timber/ Firewood	-	-
Kikar	<i>Acacia nilotica</i>	Farmlands	Good	Good	Commercial/ own use	Timber/ Firewood	-	-
Dherenk	<i>Melia azadirach</i>	Farmlands	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tut	<i>Morus alba</i>	Farmlands	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Jamun	<i>Syzygium cumini</i>	Farmlands	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Dhaman	<i>Grewia optiva</i>	Farmlands	Good	Moderate	Commercial/ own use	Timber/ Firewood		
Simbal	<i>Bombax ceiba</i>	Farmlands	Good	Good	Commercial/ own use	Timber/ Firewood		

<p><b>Format 27 A: Coastal and Marine Flora</b></p>
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[illegible]

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

[illegible]



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

[illegible]

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

<b>Format 30: Fauna</b>
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[illegible]

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

1	2	3
Sr. No.	Information of local importance	Remarks

*End of Part II*