

**People Biodiversity Register (PBR): General Details**

**Name of the Panchayat Samiti: Naran**

**Taluk: Ghagwal**

**District: Samba**

**State: J&K**

**Geographical Area of the Panchayat Samiti: 118.6 ha**

**Population under the Panchayat Samiti: Total - 1891**

**Male: 968                      Female: 923**

**Habitat and Topography: Kandi area**

**Climate (Rainfall, Temperature and weather patterns): 39°C in summer & 8°C in winter**

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

**Date, Month and Year of PBR Preparation: 15.09.2022**

**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: Geetanjali sharma

Age: 45

Gender:Female

Address:- Naran

Area of specialization:

2) Name: Samta devi

Age: 34

Gender:Female

Address:- Naran

Area of specialization

3)Name: Aydhya devi

Age:32

Gender:Female

Address:- Naran

Area of specialization:

4)Name: Gopal dass

Age: 34

Gender:male

Address:Naran

Area of specialization:

5)Name: Tarsem lal

Age:50

Gender: Male

Address: Naran

Area of specialization:

6)Name: Ramji dass

Age: 48

Gender: Male

Address: Naran

Area of specialization:

7)Name:M.K. lehana

Age:56

Gender: Male

Address: Naran

Area of specialization:

## Annexure-2

### 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: local/non local

Perception of the practitioner on the resource status: less local resources available

Medicinal Use:

### Annexure 3

<b>List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry</b>
1) Name : Ram lal
Age:56
Gender: Male
Address:Naran
Area of specialization:Agriculture
2) Name :
Age:50
Gender:
Address:
Area of specialization:
3) Name of the Chairperson:
Age:
Gender:
Address:
Area of specialization:
4) Name of the Chairperson:
Age:
Gender:
Address:
Area of specialization:

## Annexure 4

<b>Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR</b>	
1) Contact Person: Davinder Kumar ( Teacher)	
Name and Address:	Naran
2) Contact Person:	
Name and Address:	
3) Contact Person:	
Name and Address:	
4) Contact Person:	
Name and Address:	

**Annexure 5**

<b>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>					
<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>

**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 shown	Local Status		Special features	Cropping season	Uses	Associated TK	Other details	Source of Seeds/Plants	Community/ Knowledge Holder
						Past	Present							
Rice	<i>Oryza Sativa</i>	Dhaan	Veliyan Pura 1121 B- 370 Sarbati	Low land	27.85H	--	--	Tall variety High yield Resistant to drought, flood, pest & diseases	Kharif	Food & Fodder	Provides more energy	Suitable for "Valicha" cultivation	Agriculture Deptt. Ghawal	Kurichiya Kuruma W. Chetty
Maize	<i>Zeamays</i>	Makka	K- 517, 612 DD-9144	Lowland valleys	85.54H	--	--	Tall variety High yield Resistant to drought, flood, pest & diseases	Kharif	-do-	-do-	-do-	-do-	--
Wheat	<i>Triticum aestivum</i>	Kanak	HD 2967 HD 3086 HD 1086	-do-	101H	--	-	Tall variety High yield Resistant to drought, flood, pest & diseases	Rabi	-do-	-do-		-do-	
Potato	<i>Solanum 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, chips etc	-	High carbohydrate, provide high n energy value	Rabi	Farmers / Department/ Private Suppliers	Farmers

Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropica/sub tropical vegetable, grows well in warm humid conditions		Abundant	Abundant	Pungency and flavor	Used as spice, medicinal value	-	Contains good amount of vitamin A&C	winter season	Farmers / Department/ Private Suppliers	Farmers
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, salad, soup, Sauce	rich source of Ascorbic acid	<b>Tomatoes</b> are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Private Suppliers	Farmers
Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropical vegetable, Hot and humid climate		Abundant	Abundant	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dietary fibers, protein and carbohydrates	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local, JL	Grows in all climatic conditions, Tropical, Sub tropical & temperate		Abundant	Abundant	Limbing annual bearing elongated thick cylindrical fruit	Mainly used as salad	-	It also used as antipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Private Suppliers	Farmers
Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer & rainy season crop		Abundant	Abundant	Vines vigorous, profusely branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Private Suppliers	Farmers
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
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

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 ,curdformed from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein,carbohydrate,phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
Cabbage	<i>Brassica oleraceae var. capitata</i>	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 source of protein,carbohydrate,phosphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
Knol khol	<i>Brassica oleraceae 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
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
Radish	<i>Raphanus sativus</i>	Mulli	Japanes White ,Koren Etc	Cool season Crop, thrives well on well drained Sandy loam soils		Abundant	Abundant	Tender green leaves &roots used as Vegetable	Modified Roots are used as Vegetable & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Private Suppliers	Farmers
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
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,Diatry Fiber &Potasium	Rabi	Farmers / Department/ Private Suppliers	Farmers

### Format 2: Fruit Plants

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder
					Past	Present						
Woody Tree	<i>Mangifera indica</i>	Amb	Wild, Dashehari, Malda, Amrapali, Mallika, Langra, Swarn Rekha, Chausa, Fazli, Totapuri, Ramkila, Baramasim etc.	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to August		Sucking, table, processing	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Litchi chinensis</i>	Lychee	Dehradun, Calcutti, Seedless, Rose Scented	Sub-tropical	Good	Good	Layered plants.	March to July		Table and processing	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Psidium guajava</i>	Amrood	Wild, Allahbad, Sardar, Lalit, Arka	Sub-tropical	Good	Good	Seedling trees, grafted/ layered.	March to August,		Table and processing.	Own uses and sold in market	Popular in local population.
Tree			Amulaya, Sheveta, Punjab Pink					Dec. To January				
Climber	<i>Vitis vinifera</i>	Angoor	Wild, Perllet, Beauty Seedless	Sub-tropical	Good	Good	Cuttings	Feb. To June		Table and processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Emblica officinalis</i>	Amla	wild, Banarsi, Neelam, NA 7.	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to Nov.		Processing	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus sinensis</i>	Mosammi	Mosambi, Jaffa, Red Blood	Sub-tropical	Good	Good	Grafted Plants	March to Jan.		Table and processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus reticulata</i>	Sangtra	Kinnow, Sangtra	Sub-tropical	Good	Good	Grafted Plants	March to Jan.		Table and processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus aurantifolia</i>	Nimboo	Wild, Kagzi, Italian, Eureka	Sub-tropical	Good	Good	Grafted Plants	March to Oct.		Processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus limon</i>	Galgal	Wild	Sub-tropical	Good	Good	Seedling andn Grafted Plants	March to Sept.		Processing.	Own uses and sold in market	Popular in local population.

Woody Tree	<i>Citrus medica</i>	Kimb	Wild	Sub-tropical	Good	Good	Seedling trees	March to Sept.		Processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus jambhiri</i>	Jamiri	Wild	Sub-tropical	Good	Good	Seedling trees	March to Oct.		Processing, root stock	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus limetoides</i>	Mithoo	Wild	Sub-tropical	Good	Good	Seedling trees	March to Sept.		Table and processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus x floridana</i>	Kumquat	Wild	Sub-tropical	Good	Good	Grafted Plants	March to Jan..		Processing.	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Citrus tangerina</i>	Narangi	Wild	Sub-tropical	Good	Good	Grafted Plants	March to Dec.		Ornamental and processing.	Own uses	Popular in local population.
Woody Tree	<i>Zizyphus mauritiana</i>	Ber	Umran, Katha, Seb	Sub-tropical	Good	Good	Grafted Plants	March to Nov.		Table purposes	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Zizyphus jujuba</i>	Phowari Ber	Wild	Sub-tropical	Good	Good	Seedlings	March to Nov.		Table purposes	Own uses and sold in market	Popular in local population.
Bush	<i>Grewia subinaequalis</i>	Phalsa	Wild	Sub-tropical	Good	Good	Seedlings and Cuttings	March to July		Processing	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Syzygium cumini</i>	Jamun	Wild	Sub-tropical	Good	Good	Seedlings and Grafted	March to July		Processing	Own uses and sold in market	Popular in local population.
Bush	<i>Carissa carandas</i>	Gerna	Wild	Sub-tropical	Good	Good	Seedlings	March to July		Table purposes and processing	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Prunus persica</i>	Aru	Wild, Sun Red, Florida Sun	Sub-tropical	Good	Good	Grafted Plants	Feb. to June		Table purposes and processing	Own uses and sold in market	Popular in local population.
Woody Tree	<i>Morus alba</i>	Shahtoot	Wild, China	Sub-tropical	Good	Good	Cuttings	March to July		Table purposes, leaves for rearing Silkworms	Own uses and sold in market	Popular in local population.
Soft Tree	<i>Carica papaya</i>	Papita	Wild, Red Lady, Pusa Nana	Sub-tropical	Good	Good	Seedlings and hybrids	March to Nov.		Table purposes.	Own uses and sold in market	Popular in local population.

**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 Plants / Seeds	Associated TK	Part Used	Other details	Community / Knowledge holder
				Past	Present					
Barseem	<i>Trifolium alexandrinum</i>	Chhatalla	All type	Fooder	Fooder	Agriculture Deptt. Ghagwal	--	All	--	--
Sorghum	<i>Sorghum spp.</i>	cherri	Annual	6840	Warm & humid	Abundant	Abundant	Above ground part of plant		
Oats	<i>Avena fatua</i>	Javi	Annual			Abundant	Abundant	Above ground part of plant		
Maize	<i>Zea mays</i>	Makki	Annual			Abundant	Abundant	Above ground part of plant		

**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					
Bathu	<i>Chinopodium album</i>	Bathu	Wheat	Decreasing of yield	All	Normal	Normal	Fooder	Mannual weding	--	--	
Dherv grass	<i>Cynodone dactilone</i>	Khabbal	All crops	Host of insect	All	Normal	Normal	Fooder	Chemical control	--	--	
Motha	<i>Cypius Ratandus</i>	Dela	All crops	Pest	All	Normal	Normal	Fooder	Post/Pre			
Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg				
Bang	<i>Cannabis indica</i>	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal					

### Format 5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientific name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
Weeds	Grass Hopper	<i>Callifera</i>	Trida	Eat veg. area of Plant	Vegetative growth	Chemicals application	--	--	--
NA	Falls Armywrom	<i>Liucinodes orbanlis</i>	Ludi	Nighteural Habbit	Knee high stage	Chemicals application	--	--	--
Soil	Termite	<i>Isoptera</i>	Sink	eating roof & whole plant	attack in germination and maturity stage	Chemicals application	--	--	--
Grass	Red Pumpkin beetel	<i>Aulaphora fovecollis</i>	Bhundi	Veg. Portion	at veg. stage	Chemicals application	--	--	--
Vegetative & Fruits	Snail	--	Chakki	Veg. & Fruits	Through out season	Chemicals application	--	--	--
maize	Cut worm	<i>Chilo partellus</i>	Sundi /Tana-shedak	Attacks Maize, sorghum , Bajra & sugarcane	July to sept	Mechanical& Chemical measures	-	Causes dead hearts in young plants	Farmers





**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	Hilly as well as	Forest land, Private, State lands	Broad leaved mainly	Domestic animals, Wildlife such as porcupine, Jackal etc.	Public, as well as pvt. And Govt. also		Plantation and agriculture			
			Hillocks	Plain terrain with gentle slope	Forest land, Private, State lands	Broad leaved and conifers	Domestic animals, Wildlife such as porcupine, Jackal etc.	Public, as well as pvt. And Govt. also		Plantation and agriculture			
Shivalik areas			Hills	Hills with gentle slopes	Forest land, Private, State lands	Broad leaved and conifers	Domestic animals, Wildlife such as porcupine, Jackal etc.	Public, as well as pvt. And Govt. also		Plantation and agriculture			
										827			

### Format 9: Waterscape

1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape element type	Sub- type	Features and approx area	Ownership	General flora	General fauna	Major uses	User groups	Management practices	General uses	Associated TK	Other details	Community accessed
Ponds			Forest land and Private land	Kamal, Bar Yan	Frogs,fishes, Torotoise, snakes,snail	Cattles,washing cloths,irrigation Drinking etc.	Public					
Streams			Forest land and Private land		Frogs,fishes, Torotoise, snakes,snail	Cattles,washing cloths,irrigation Drinking etc.	Public					
Tube well			Forest land and Private land		Frogs,fishes, Torotoise, snakes,snail	Cattles,washing cloths,irrigation Drinking etc.	Public					
Dug			Private		Frogs,fishes, Torotoise, snakes,snail	Cattles,washing cloths,irrigation Drinking etc.	Public					
Canals			Private		Snakes	--	Public					
Hand			Private		Frogs	Cattles	Public					
										827		

**Format 10: Soil type**

1	2	3	4	5	6	7	8	9	10
Soil Type	Color & Texture	Features	Soil management	Plants / crop suitable	Flora and fauna	Associated TK	Other information	Nature of inhabitants	No. of HHs
Alluvial sandy soil	Fine & coarse grain	rich in N,ca,fe,si				--	--		
Hill and moutain soil	Fine & coarse grain	ca,fe,n,si,etc.							
Red podozolic soil	brown,red	fe,ca,fe,n,si							
Unconsolidated boulder soil	Coarse grain,rocky	fe,si							
									827

Format 11: Fruit Trees												
1	2	3	4	6	7		8	9	10	11	12	13
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Local Status		Source of plant/seeds	Season of Fruiting	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
					Past	Present						
Woody	Amb	<i>Mangifera indica</i>	Local, Dashehari,	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to	Sucking, table, processing	Record	Own uses and sold in market	Popular in local population.
Tree			Malda, Amrapali,					August		available in old books.		
			Mallika, Langra,									
			Swarn Rekha,									
			Chausa, Fazli, Totapuri, Ramkila, Baramasi.									
Woody	Amrood	<i>Pidium guajava</i>	Local, Allahbad,	Sub-tropical	Good	Good	Seedling trees, grafted/layered.	March to	Table and processing.	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Tree			Sardar, Lalit, Arka					August,				
			Amulaya, Sheveta,					Dec. To				
			Punjab Pink					January				
Climber	Angoor	<i>Vitis vinifera</i>	Local, Perlet,	Sub-tropical	Good	Good	Cuttings	Feb. To	Table and processing.	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
		Beauty Seedless	June									
Woody		<i>Emblica</i>	Local, Banarsi, Neelam,	Sub-tropical	Good	Good	Seedling trees, grafted	March to Nov	Processing	Record	Own uses and sold	Popular in local

Tree	Amma	<i>officinalis</i>	NA 7.	Sub-tropical	Good	Good	trees, grafted plants.	March to Nov.	Processing	available in old books.	in market	local population.
Woody	Mosammi	<i>Citrus sinensis</i>	Mosambi, Jaffa,	Sub-tropical	Good	Good	Grafted	March to Jan.	Table and processing.	Record	Own uses and sold in market	Popular in local population.
Tree			Red Blood				Plants			available in old books.		
Woody	Sangtra	<i>Citrus reticulata</i>	Kinnow, Sangtra	Sub-tropical	Good	Good	Grafted	March to Jan.	Table and processing.	Record	Own uses and sold in market	Popular in local population.
Tree							Plants			available in old books.		
Woody	Nimboo	<i>Citrus aurantifolia</i>	Local, Kagzi,	Sub-tropical	Good	Good	Grafted	March to Oct.	Processing.	Record	Own uses and sold in market	Popular in local population.
Tree			Italian, Eureka				Plants			available in old books.		
Woody	Galgal	<i>Citrus limon</i>	Local	Sub-tropical	Good	Good	Seedling andn Grafted Plants	March to Sept.	Processing.	Record	Own uses and sold in market	Popular in local population.
Tree										available in old books.		
Woody	Kimb	<i>Citrus medica</i>	Local	Sub-tropical	Good	Good	Seedling trees	March to Sept.	Processing.	Record	Own uses and sold in market	Popular in local population.
Tree										available in old books.		
Woody	Jamiri	<i>Citrus jambhiri</i>	Local	Sub-tropical	Good	Good	Seedling trees	March to Oct.	Processing, root stock	Record	Own uses and sold in market	Popular in local population.
Tree										available in old books.		
Woody	Mithoo	<i>Citrus limettoides</i>	Local	Sub-tropical	Good	Good	Seedling trees	March to Sept.	Table and processing.	Record	Own uses and sold in market	Popular in local population.
Tree										available in old books.		

Woody	Jamun	<i>Syzygium cumini</i>	Local	Sub-tropical	Good	Good	Seedlings and Grafted	March to	Processing	Record	Own uses and sold in market	Popular in local population.
Tree								July		vailable in old books.		
Woody	Anar	<i>Punica granatum</i>	Local, Ganesh,	Sub-tropical	Good	Good	Cuttings	March to	Table purposes and processing	Record	Own uses and sold in market	Popular in local population.
Tree			Kandhari,					July		vailable in old books.		
	Nakh	<i>Pyrus communis</i>	Pathar Nakh	Sub-tropical	Good	Good	Grafted	Feb. to	Table purposes and processing	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
							Plants	June				
Woody	Aru	<i>Prunus persica</i>	Local, Sun Red,	Sub-tropical	Good	Good	Grafted	Feb. to	Table purposes and processing	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Tree			Florida Sun				Plants	June				
Woody Tree	Shahtoot	<i>Morus alba</i>	Local, China	Sub-tropical	Good	Good	Cuttings	March to	Table purposes, rearing	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Woody								July	Silkworms.			
Tree	Fig	<i>Ficus carica</i>	Local	Sub-tropical	Good	Good	Seedlings	March to July	Table purposes.	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Soft	Papita	<i>Carica papaya</i>	Local Red Lady,	Sub-tropical	Good	Good	Seedlings and hybrids	March to Nov.	Table purposes.	Record	Own uses and sold in market	Popular in local population.
Tree			Pusa Nana							vailable in old books.		

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

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Source of plant/ seeds	Local status		Uses (usage)	Part used	Associated TK	Other details market/own	Community/ Know.
						Past	Present					
Herbs	Jungli putna	<i>Mentha arvensis</i>		Lower shiwalik/Temperate area	Root	Abundant	Abundant	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Canabis sativia</i>		Lower shiwalik	Seed	Abundant	Abundant	nil		N.A	N.A	Generally, held by community
Tree	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Bill-Patre	<i>Aegle mermelos</i>		Sub-Tropical area	Seed	Abundant	Abundant	nil	Root	N.A	N.A	Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>		Lower shiwalik	Seed	Abundant	Abundant	Good for digestion	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>		Lower shiwalik	Seed	Abundant	Abundant	maintains sugar level in human body	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Kakad-Singhi	<i>Pistacia khinjuk</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Amla	<i>Amblica officinales</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Tree	Neem	<i>Azadirecta indica</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Cannabis sativum</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Holy Basil	Tulsi	<i>Ocimum tenuiflorum</i>		lower shiwalik		Abundant	Abundant	Antioxidant				
Aloe vera	Aloe vera	<i>Aloe barbadensis</i>		lower shiwalik		Abundant	Abundant	Antibacterial				
Climber	Giloe	<i>Tinospora cordifolia</i>		lower shiwalik		Good	good					

**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
Ornamental Tree	Kachnar	<i>Bauhinia Variegata</i>		Nurseries/ Forest	Non commercial	Ornamental/ Landscaping	Used for Dysentery, Diarrhoea	Pink flowers in Summer	Floriculturists/ Nurserymen/Gardeners
Bushes/ Shrubs	Nerium	<i>Nerium Oleander</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Epilepsy, cancer	Avenue plantation	Floriculturists/ Nurserymen/Gardeners
Bushes/ Shrubs	Kaner	<i>Thevetia Peruviana</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Fever	Flower most of the year	Floriculturists/ Nurserymen/Gardeners
Bushes/ Shrubs	Motia	<i>Jasminum sambac</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Used in Hepatitis, dysentery	Flower throughout the year	Floriculturists/ Nurserymen/Gardeners
Herbs Seasonals	Guldopahar	<i>Portulaca Grandiflora</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Antioxidant, antibacterial	Summer annual flower	Floriculturists/ Nurserymen/Gardeners
Pot Plants	Thur	<i>Cactus spp</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Folk medicines	Thorny succulents	Floriculturists/ Nurserymen/Gardeners

**Format 14: Timber Plants / Trees**

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Kiker	<i>Acacia nilotica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Mangoo	<i>Mangifera Indica</i>	Lower shiwalik	Abundant	Abundant	Wild/ home-garden	own	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundant	Wild	commercial	nil	nil	Generally, held by community
Trees	Sree	<i>Albizzia lebbeck</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Tuni	<i>Toona ciliata</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Popular	<i>Populus ciliata</i>	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Jammun	<i>Syzygium cumini</i>	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community

**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	Bhed	<i>Ovis aries</i>	Local	Small size, rough coat	Flock rearing	Least concern	Least concern	Mutton, wool and manure	<i>Desi Chai, Methre, Ajowain, Ganera</i>	Yes	Bones, skin and gut	Locals and nomads
Sheep	Bhed	<i>Ovis aries</i>	Rambouillet Cross	Large size, fine wool	Flock rearing	Least concern	Least concern	Mutton, hairs and manure	<i>Desi Chai, Methre, Ajowain, Ganera</i>	Yes	Bones, skin and gut	Locals and nomads
Goat	Bakri	<i>Capra hircus</i>	Local	Small size, low body weight	Flock rearing	Least concern	Least concern	Chevon, hairs and manure	<i>Desi Chai, Methre, Ajowain, Ganera</i>	Yes	Bones, skin and gut	Locals and nomads
Goat	Bakri	<i>Capra hircus</i>	Kaghani (Bakerwali)	Large size, high body weight	Flock rearing	Least concern	Least concern	Chevon, hairs and manure	<i>Desi Chai, Methre, Ajowain, Ganera</i>	Yes	Bones, skin and gut	Locals and nomads
Goat	Bakri	<i>Capra hircus</i>	Beetal	Large size, high body weight	Flock rearing	Least concern	Least concern	Chevon, hairs and manure	<i>Desi Chai, Methre, Ajowain, Ganera</i>	Yes	Bones, skin and gut	Locals and nomads
	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All

Cattle	Jersey Gau	<i>Bos taurus</i>	CB Jersey	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
	Amrekan Gau	<i>Bos taurus</i>	CB HF	Black and white spot	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Buffalo	Manj	<i>Bubalus bubalis</i>	Local	Low yield	stall feeding	Abundant	Decreased	Dairy	Nil	No	Milk	All
	Punjabi Mais	<i>Bubalus bubalis</i>	Murrah /Graded	Black color body	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All

**Format 16 : Culture Fisheries**

1	2	3	4	5	6	7		8	9	10	11	12
Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (pond/ bber/ talao)	Local status		Uses	Associated TK	Commercial rearing	Other details	Community Know. Holders
						Past	Present					
Indian Major Carps	Catla	<i>Catla catla</i>	IMC	Catla is a fish with large and broad head, a large protruding lower jaw and upturned mouth. It has large, greyish scales on dorsal side and whitish on belly.	Ponds	Plenty	Plenty	Food Fish	-	Yes	Caught by drag/ cast net. Breeds during monsoon. Accepts natural as well as artificial feed.	Fish Farming Community
Exotic Carps	Common Carp	<i>Cyprinus carpio</i>	Exotic Carp/ Scale Carp	Omnivorous, body laterally compressed two pair of barbels, dorsal fin long, protudible mouth and lips are extended like a short tube for sucking up food, hardy in nature.	Ponds	Plenty	Plenty	Food Fish	-	Yes	Caught by drag/ cast net. Breeds during monsoon. Accepts natural as well as artificial feed.	Fish Farming Community



**WILD BIODIVERSITY**  
**Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers etc.**

1	2	3	4	5	6		7	8	9	10	11
Plant Type	Local name	Scientific Name	Habit	Habitat	Local Status		Commierical/ Own use	Part Collected	Associated TK	Others details	Community Knowledge Holder
					Past	Present					
Amlı	<i>Phyllanthus emblica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits	Used in Gastro Problem	Medicinal use	Self observed	
Ber	<i>Ziziphus jujuba</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits		Medicinal use	Self observed	
Garna	<i>Carissa spinarum</i>	Shrubs	Sub - Tropical	Available	Available	Own Use	Fruits			Self observed	
Jamun	<i>Syzygium cumini</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood	Used for Diabetes		Self observed	
Khair	<i>Acacia catechu</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed	
Kodh	<i>Aloe barbadensis</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed	
Krongal	<i>Cassia fistula</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed	
Talli	<i>Dalbergia sisso</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed	
Thub / Dudhruk	<i>Erythrina spp.</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed	
Badh	<i>Ficus religiosa</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed	
Bilan	<i>Aegle marmelos</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood			Self observed	
Gandila	<i>Nerium oleander</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed	

Harad	<i>Terminalia chebula</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood			Self observed	
Amb	<i>Mangifera indica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood			Self observed	
Soyanjana	<i>Moringa oleifera</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood			Self observed	
Tunnu	<i>Toona ciliata</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed	
Neem	<i>Azadirachta indica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed	

**Format 19: Wild Plant Species of Importance**

1	2	3	4	5	6
SI. No	Local Name	Scientific Name	Variety	Importance(as economic, social, cultural etc.)	Status
	Parkanda	<i>Achyranthes aspera</i>	Wild	Social and Economic	Available
	Bel	<i>Aegle marmelos</i>	Wild	Social and Economic	Available
	Kuad Gandal	<i>Aloe barbadensis</i>	Wild	Social and Economic	Available
	Chaleri Saag	<i>Amaranthus viridis</i>	Wild	Social and Economic	Available
	Kathal	<i>Artocarpus heterophyllus</i>	Wild	Social and Economic	Available
	Neem	<i>Azadirachta indica</i>	Wild	Social and Economic	Available
	Bamboo	<i>Bambusa bambos</i>	Wild	Social and Economic	Available
	Bamboo	<i>Bambusa nutans</i>	Wild	Social and Economic	Available
	Bhang	<i>Cannabis sativa</i>	Wild	Social and Economic	Available
	Safeda	<i>Eucalyptus camaldulensis</i>	Wild	Social and Economic	Available
	Hybrid safeda	<i>Eucalyptus tereticornis</i>	Wild	Social and Economic	Available
	Badh or Pipal	<i>Ficus religiosa</i>	Wild	Social and Economic	Available
	Toot	<i>Morus alba</i>	Wild	Social and Economic	Available
	Drenkeri	<i>Murraya koenigii</i>	Wild	Social and Economic	Available
	Congress Grass or Jari	<i>Parthenium hysterophorus</i>	Wild	Social and Economic	Available
	Amla	<i>Phyllanthus emblica</i>	Wild	Social and Economic	Available

**Format 20 : Aquatic Biodiversity**

1	2	3	4	5	6		7	8	9	10
Local Name	Scientific Name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community/ Knowledge
					Past	Present				
Lotus	<i>Nelumbo nucifera</i>			aquatic						
Sweet flag	<i>Acorus calamns</i>			aquatic						
morning glory	<i>Ipomea carnea</i>			aquatic						
Waterhymes	<i>Hydrilla spp</i>			aquatic						
Water clover	<i>Marsilea spp</i>			aquatic						
Water hyacinths	<i>Eichornea</i>			aquatic						



**Format 22: Wild Plants of Medicinal Importance**

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, tree)	Local name	Scientific Name	Variety	Landscape /Habitat	Local Status		Associated TK	Uses(usage)	Part used	Others details market/own use	Community/ Knowledge Holder
					Past	Present					
Tree	Bel	<i>Aegle marmelos</i>	Wild	Sub-tropical	Available	Available					
Tree	Neem	<i>Azadirachta indica</i>	Wild	Sub-tropical	Available	Available					
Shrubs	Bhang	<i>Cannabis sativa</i>	Wild	Sub-tropical	Available	Available					
Herbs	Brahmi buti	<i>Centella asiatica</i>	Wild	Sub-tropical	Available	Available					
Tree	Kapoor	<i>Cinnamomum camphora</i>	Wild	Sub-tropical	Available	Available					
Tree	Toot	<i>Morus alba</i>	Wild	Sub-tropical	Available	Available					
Tree	Amla	<i>Phyllanthus emblica</i>	Wild	Sub-tropical	Available	Available					
Tree	Reetha	<i>Sapindus mukorossi</i>	Wild	Sub-tropical	Available	Available					
Tree	Jamun	<i>Syzygium cumini</i>	Wild	Sub-tropical	Available	Available					
Tree	Imli	<i>Tamarindus indica</i>	Wild	Sub-tropical	Available	Available					
Tree	Harar	<i>Terminalia chebula</i>	Wild	Sub-tropical	Available	Available					
Tree	Sukchain	<i>Pongamia pinnata</i>	Tree	Northern/Sub- Tropical	Good	Good	--	Medicinal	Bark		
Climber	Giloe	<i>Tinospora cordifolia</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Stem	-	



**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
Kachnar	<i>Bauhinia variegata</i>		Terrestrial	Non commercial	Used for Dysentry, Diarrhoea	Pink flowers in Summer	Floriculturists/ Nurserymen/Gardeners
			Subtropical				
Nerium	<i>Nerium oleander</i>		Terrestrial	Non commercial	Epiplepsy, cancer	Avenue plantation	Floriculturists/ Nurserymen/Gardeners
			Subtropical				
Kaner	<i>Thevetia peruviana</i>		Terrestrial	Non commercial	Fevers	Flower most of the year	Floriculturists/ Nurserymen/Gardeners
			Subtropical				
Bottle Brush	<i>Callistemmon spp.</i>		Terrestrial	Non commercial	Theraputic uses	Foilage and flowers	Floriculturists/ Nurserymen/Gardeners
			Subtropical				
Bogan Bael	<i>B.Sp &amp; hybrids</i>		Terrestrial	Non commercial	Antidiabetic, antiinflammatory	Multicoloured flowers	Floriculturists/ Nurserymen/Gardeners
			Subtropical				
Agave	<i>Agave angustifolia</i>		Terrestrial	Non commercial	Traditional medicines	Succulent	Floriculturists/ Nurserymen/Gardeners
			Subtropical				
Thur	<i>Cactus spp</i>		Terrestrial	Non commercial	Folk medicines	Thorny succulents	Floriculturists/ Nurserymen/Gardeners
			Subtropical				

**Format 25: Fumigate / Chewing Plants**

1	2	3	4	5	6		7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local name	Scientific Name	Variety	Habitat	Local Status		Uses(Usage)	Part used	Associated TK	Others details ( mode of use)	Community Knowledge Holder
					Past	Present					
	Jungli toot	<i>Broussonetia papyrifera</i>									
	Garna	<i>Carissa spinarum</i>									
	Brahmi buti	<i>Centella asiatica</i>									
	Khas Khas	<i>Chrysopogon zizanoides</i>									
	Kapoor	<i>Cinnamomum camphora</i>									
	Imli	<i>Tamarindus indica</i>									
Herb	Pudina	<i>Mentha spp.</i>		Homestead, agricultural land	Abudant	Abudant	Spice	leaves			
Tree	Curry tree	<i>Murraya koenigii</i>		Moist forest and agricultral land	Abudant	Abudant	Spice	leaves			
Herb	Wild Tulsi	<i>Ocimum sanctum</i>		Moist soil	Abudant	Abudant	Medicinal	leaves			



Kral								
Lana								
Dhaman								
Charmod								
Badh								
Behra								
Bilan								
Gandila								
Gulmorh								
Oanni								
Rumble								
Draink								
Harad								
Amb								
Soyanjana								
Tunnu								
Neem								
Plakh								
Rehn								
chamar sama								
lasura								
kassod								
tantary								
KHAR								
Sagwan								
Imli								















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

<b>1</b>	<b>2</b>	<b>3</b>
<b>Sr. No.</b>	<b>Information of local importance</b>	<b>Remarks</b>
	none	