

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

**Name of the Panchayat Samiti: Harsath**

**Taluk: Ghagwal**

**District: Samba**

**State: J&K**

**Geographical Area of the Panchayat Samiti: 266 ha**

**Population under the Panchayat Samiti: Total - 2733**

**Male: 1453**

**Female: 1280**

**Habitat and Topography: Kandi area**

**Climate (Rainfall, Temperature and weather patterns) : 40°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: Sunil Kumar

Age: 50

Gender: Male

Address:- Harsath

Area of specialization:

2) Name: Babna Sharma

Age:38

Gender:Female

Address:Harsath

Area of specialization

3)Name: Lakshmi Devi

Age:37

Gender: Female

Address: Harsath

Area of specialization:

4)Name: Karan Kumar

Age:42

Gender:male

Address: Harsath

Area of specialization:

5)Name: Rajinder Singh

Age: 47

Gender: Male

Address:Harsath

Area of specialization:

6)Name: Naresh Kumar

Age: 37

Gender: Male

Address: Harsath

Area of specialization:

7)Name:

Age:

Gender:

Address:

Area of specialization:

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## 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 : Sham lal
Age:60
Gender: Male
Address: Harsath
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: Ramesh lal	
Name and Address: Harsath	
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 Sarbat	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 3086 HD 1086	-do-	101H	--	-	Tall variety High yield Resistant to drought, flood, pest & diseases	Rabi	-do-	-do-		-do-	
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, 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, Souce	rich source of Ascorbic acid	Tomatoes 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 vale protein,Vitamin eB1,B2<B6 and Maganese	Summer season	Farmers / Department/ Privaate 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,phasphorus& iron	Rabi	Farmers / Department/ Privaate 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,phasphorus& iron	Rabi	Farmers / Department/ Privaate Suppliers	Farmers	
Knol khol	<i>Brassica oleraceae var.gongyloides</i>	Kadam	White vienna,Purple vienna	cool &moist climate/sub tropical	Abundant	Abundant	Swollen stem ,gren/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Privaate 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/ Privaate 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 Vegetabke & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Privaate 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/ Privaate 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/ Privaate 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>Crus 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>Crus 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 limettoides</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 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 dectilone</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 hight 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 11: Fruit Trees					DOMESTICATED BIODIVERSITY											
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.		Sucking, table, processing	Record	Own uses	Popular in local population.				
Tree			Malda, Amrapali,										August	available in old books.	and sold in market	
			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.		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, Perllet,	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	Amla	<i>Emblica</i>	Local, Banarsi, Neelam, NA 7.	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to Nov.	Processing	Record	Own uses and sold in market	Popular in local population.	
Tree		<i>officinalis</i>								available in old books.			
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										vailable 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										vailable 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										vailable in old books.			
Woody	Mithoo	<i>Citrus limetoides</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										vailable 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		available 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							available 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>Azadiracta 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	Fevers	Flower most of the year	Floriculturists/ Nurserymen/Gardeners
Bushes/ Shrubs	Hibiscus	<i>Hibiscus rosasinensis</i>		Nurseries	Non commercial	Ornamental/ Landscaping	Used in fever, constipation	Flower throughout 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>Albizia lebbek</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
Pig	Pig (Suar)	Sus-domesticus	Desi	Pork purpose	Baaarwal							
Cattle	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	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







**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
1	Parkanda	<i>Achyranthes aspera</i>	Wild	Social and Economic	Available
2	Bel	<i>Aegle marmelos</i>	Wild	Social and Economic	Available
3	Kuad Gandal	<i>Aloe barbadensis</i>	Wild	Social and Economic	Available
4	Chaleri Saag	<i>Amaranthus viridis</i>	Wild	Social and Economic	Available
5	Kathal	<i>Artocarpus heterophyllus</i>	Wild	Social and Economic	Available
6	Neem	<i>Azadirachta indica</i>	Wild	Social and Economic	Available
7	Bamboo	<i>Bambusa bambos</i>	Wild	Social and Economic	Available
8	Bamboo	<i>Bambusa nutans</i>	Wild	Social and Economic	Available
9	Bhang	<i>Cannabis sativa</i>	Wild	Social and Economic	Available
10	Safeda	<i>Eucalyptus camaldulensis</i>	Wild	Social and Economic	Available
11	Hybrid safeda	<i>Eucalyptus tereticornis</i>	Wild	Social and Economic	Available
12	Badh or Pipal	<i>Ficus religiosa</i>	Wild	Social and Economic	Available
13	Toot	<i>Morus alba</i>	Wild	Social and Economic	Available
14	Drenkeri	<i>Murraya koenigii</i>	Wild	Social and Economic	Available
15	Congress Grass or Jari	<i>Parthenium hysterophorus</i>	Wild	Social and Economic	Available
16	Amla	<i>Phyllanthus emblica</i>	Wild	Social and Economic	Available



**Format 21 : Wild Aquatic Plant Species of Importance**

1	2	3	4	5	6	7	8
S.No.	Local Name	Scientific Name	Variety	Features	Habitat	Importance	Trends
1	Nandru	<i>Nelumbo nucifera</i>	Submerged	It is a large aquatic rhizomatous herb consisting of slender, elongated, creeping stem with nodal roots	On the shore of ponds	For Edible use	
3	Aak	<i>Ipomea sps</i>	Submerged	This flowering plant is 1-3 m in height, has heart shaped leaves 6-9 inches long, stem cylindrical and hollow	On the shore of ponds	Stem used as fire wood, plants used as fencing	
3	Water Hyacinth, Floating Weed	<i>Eichhornia crassipes</i>	Invasive	Can be used to make compost, Mulching & to Clean Sewage	Free Floating Weed		

**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	-
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**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			

**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	Other Details	Community/ Knowledge Holder
			Past	Present				
Kala Siris	<i>Albizia lebbbeck</i>	Subtropical	Good	Rare				
Safeda	<i>Corymbia Citriodora</i>	Subtropical	Good	Good				
Tali	<i>Dalbedgia sissoo</i>	Subtropical	Good	Good				
Sagwan	<i>Tectona grandis</i>	Subtropical	Good	Good				
Tunu	<i>Toonna cilliata</i>	Subtropical	Good	Good				





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

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local name	Scientific Name	Habitat	Description	Season when seen	Local Status		Uses( if any)	Associated TK	Mode of Hunting, Collecting( if any)	Others details	Community Knowledge Holder
						Past	Present					
Mammals	Squirrel	<i>Sciurus niger</i>	Tropical rain forests	Rodents		Available	Available					
Mammals	Jackal	<i>Canis aureus</i>	savannas	cannins		Available	available					
Mammals	Jungle Cat	<i>Felis chaus</i>	Grasslands	reed cat		Rare	Rare					
Birds	Sparrow	<i>Passer domesticus</i>	Forest Edge	Available		Available						
Birds	Myna	<i>Acridotheres tristis</i>										
Birds	Pigeon	<i>Columba livia</i>										
Birds	Bee Eater	<i>Merops orientalis</i>										
Birds	Woodpecker	<i>Picoides puvescens</i>										
Birds	Vulture	<i>Cathartes aura</i>										
Birds	Common Babbler	<i>Turdoides caudata</i>										
Birds	Eagle	<i>Geranoaetus</i>										
Birds	House sparrow	<i>Passer domesticus</i>										
Birds	House Crow	<i>Corvus splendens</i>										
Birds	Dove	<i>Columbidae</i>										
Birds	Jungle Fowl	<i>Gallus gallus</i>										
Pig	Pig (Suar)	<i>Sus-domesticus</i>	Desi	Pork purpose	Baaarwal							









**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	