

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti :- Surni

Taluk:- Chanunta

District:- Udhampur

State:- J&K UT

Geographical Area of the Panchayat Samiti:- Hilly

Population under the Panchayat Samiti: Total:- 1958

Male:-1045

Female:- 913

Habitat and Topography:- Hilly/Kandi

Climate (Rainfall, Temperature and weather patterns)

Land Use (Nine fold classification available with village records)

Date, Month and Year of PBR Preparation :- 30-08-2020

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

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:- Hans Raj

Age:- 51 Years

Gender:- Male

Address:- Surni

Area of specialization:- Administration

2) Name:- Puran Chand

Age:- 70 Years

Gender:- Male

Address:- Surni

Area of specialization:- Member Committee

3) Name:- Noor Hussain

Age:- 70 Years

Gender:- Male

Address:- Surni

Area of specialization:- Member Committee

4) Name:- Krishani Devi

Age:- 51 Years

Gender:- Female

Address:- Surni

Area of specialization:- Member Committee

5) Name:- Geeta Devi

Age:- 55 Years

Gender:- Female

Address:- Surni

Area of specialization:- Member Committee

6) Name:- Hans Raj

Age:- 58 Years

Gender:- Male

Address:- Surni

Area of specialization:- Member Committee

7) Name:- Geeta Devi

Age:- 52 Years

Gender:- Female

Address:- Surni

Area of specialization:- Member Committee

List of Vaid, hakims and traditional health care (Human and livestock) practitioners residing and or using biological resource within the jurisdiction of the village
1) Name: Bhagad
Age: 75 Years
Gender: Male
Address: Surni
Area of specialization: Chowki Jandrore
Location from which the person accesses biological material: Outside of the village medicine locally cannot be prepared
Perception of the practitioner on the resource status:
Medicinal Use: Vitally Imported
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: Vital 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:

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:

Age:

Gender: Male

Address:

Area of specialization:

2) Name of the Chairperson:

Age:

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:

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

End of Part I

PBR – Formats

AGROBIODIVERSITY

Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape / Habitat	Approx. area 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>		Veliyan	Lowland valleys		Plenty	Rare	Tall variety High yield Resistant to drought, flood, pest & diseases		Food Fodder Roofing Fuel	Provides more energy	Suitable for “Valicha” cultivation		Kurichiya Kuruma W. Chetty
Rice	<i>Oryza sativa</i>	Dhaan	Veliyan Pura 1121 B- 370 Sarbat	Low land	3.5 H	--	--	Tall variety High yield Resistant to drought, flood, pest & diseases	Kharif	Food & Fodder	Provides more energy	Suitable for “Valicha” cultivation	Agriculture Deptt. KAGHOTE/BHUG TRIAN	Kurichiya Kuruma W. Chetty
Maize	<i>Zea mays</i>	Makka	K- 517, 612 DD-9144	Lowland valleys	113.4 H	--	--	Tall variety High yield Resistant to drought, flood, pest & diseases	Kharif	-do-	-do-	-do-	-do-	--
Wheat	<i>Triticum aestivum</i>	Kanak	HD 2967 3086 1086	-do-	154 H	--	-	Tall variety High yield Resistant to drought, flood, pest & diseases	Rabi	-do-	-do-		-do-	
Musterd	<i>Brassica juncea</i>	Sarso	Pusa Bold Gobi Sarson	Sub Tropical	350	--	-	Mature in 145 to 150 days with 40-45 % oil content	Rabi	-do-	-do-		-do-	

The format 1 could be used for documenting information about Millets, Cereals, Oil seeds, Commercial crops, Tuber crops, Vegetables, Legumes, Aromatic crops etc. The column No. 9 other details' vary with the nature of crops. For measuring local status, there need to identify a particular year – significant changes in ecology occurred – and compare the status as past and present (past = before the particular incident). We have to list out all possible features of a crop/plant and give short forms of the same. If relevant, cultivation practices, propagation techniques, usage etc can be included in the column 8, in associated TK.

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					
Fooder Oats	<i>Avena sativa</i>	Javi	All type	Fooder	Fooder	Agriculture Dept.	-	All	-	-
Sorghum	<i>Sorghum spp</i>	Charri Jawar	Sub Tropical Intermediate	Rare	Rare	Agriculture Dept.	Source of Energy	Whole	Suitable for fodder	Farmers
Barseem	<i>Trifolium alexandrinum</i>	Shatala	Sub Tropical Intermediate	Rare	Rare	Agriculture Dept.	Source of Energy	Whole	Suitable for fodder	Farmers

Other details include fodder for which animal, special features, medicinal uses if any, seasons of availability, propagation methods, collecting from wild or cultivated etc.

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>Chenopodium album</i>	Bathu	Wheat	Decreasing of yield	All			Fooder	Manual weeding	--	--	
Dherv grass	<i>Cynodon dactylon</i>	Khabbal	All crops	Host of insect	All			Fooder	Chemical control	--	--	
Gulli Danda	<i>Phalaris minor</i>	Sittu	Wheat	-do-	All			Fooder	-do-	--	--	
Parthenium	<i>Parthenium hysterophorus</i>	Congress grass	All crops & waste land	-do-	All			Nil	-do-	--	Import from USA with wheat seed	
Bhang	<i>Cannabis sativa</i>	Bhang	Maize, Wheat, Vegetable	Elopathic Compete with Crops	Sub Tropical Intermediate	Planty	Planty	Psychoactive effect	Chemical/ Manual Control	Source for high quality Protein	Local	Farmer

Other details may include how long the weeds have been suppressing/adversely affecting the crops in this locality, when it came under notice, intensity of natural multiplication etc

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>Caelifera spp.</i>	Trida	Eat veg. area of Plant	Vegetative Growth	Chemicals Application	--	--	--
NA	Falls Army worm	<i>Spodoptera frugiperda</i>	Ludi	Nighteural Habbit	Knee high stage	Chemicals Application	--	--	--
Soil	Termite	<i>Isoptera spp.</i>	Sink	Eating Roof & Whole Plant	Attack in Germination and Maturity Stage	Chemicals Application	--	--	--
Grass	Red Pumpkin Beetel	<i>Aulacophora foveicollis</i>	Bhundi	Veg. Portion	At Veg. Stage	Chemicals Application	--	--	--
Foresh W. Land	Monkey	<i>Macaca mulatta</i>	Bandhar	Cob and fruits	Fruting Stage	Beauty of Drums	--	--	--
Foresh W. Land	Wild Boar	<i>Sus scrofa</i>	Jangli Suar	Cob and fruits	Fruting Stage	Beauty of Drums (Mechanical Control)	--	--	--
Weeds	Aphids Jassides	<i>Aphis gossypii</i>	Tela	Suking on veg. portion	Vegetative Stage	Chemicals Application	--	--	--
Vegetative & Fruits	Snail	<i>Helix spp.</i>	Chakki	Veg. & Fruits	Through out season	Chemicals Application	--	--	--

Other details may include possible reasons for insects/animal attack

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
Nil								

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

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											
Nil													

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

Format 9: Waterscape												
1	2	3	4	5	6	7	8	9	10	11	12	13
Waterscape 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
Nil												

Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,

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. Holders
						Past	Present					
Tree	Harad	<i>Terminalia chebula</i>	Local	Surni	Seeds			Medicinal				
Tree	Amla	<i>Phyllanthus emblica</i>	Local	Surni	Seeds			Medicinal				
Tree	Ber	<i>Zizyphus mauritiana</i>	Local	Surni	Seeds			Medicinal				

Note: Uses: Food/ Veterinary Medicine,/ Human Medicine (Sub-divisions like for children, women etc),/ Agricultural Purpose (Bio-pesticide)
 Other details: Propagation methods, / Harvesting period,/ Cultivated or collected from wild or both,/ Perennial/annual/seasonal

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	Bhead	<i>Ovis aries</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Goat	Bakri	<i>Capra-hircus</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Cattle	Gow	<i>Bos indicus</i>	Local	Medium Size	Traditional	Rare	Rare		Yes	No	Milk, Dung Drought	
Buffalo	Munj	<i>Bubalus bubalis</i>	Local	Medium Size	Traditional	Moderate	Moderate		Yes	No	Milk, Dung Drought	
Mule	Khachar	<i>Equus spp.</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Dog	Kutta	<i>Canis lupus</i>	Local	Medium Size	Traditional	Rare	Moderate		Yes	No	Herding Companionship	
Chicken	Murga	<i>Gallus gallus</i>	Local	Medium Size	Backyard Commercial	Rare	Rare		Yes	No	Meat, Eggs	
Horse	Godah	<i>Equus caballus</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Duck	Bathak	<i>Anas platyrhynchos domesticus</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads

Uses include milk, meat, skin, fur and etc

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/Talao)	Local status		Uses	Associated TK	Commercial Rearing	Other details	Community Know. Holders
						Past	Present					
Carp	Rohu	<i>Labeo rohita</i>	IMC's	Bony Fish	(Pond/Bheri/Talao)	Carp culture was taken up after the year 2002.	Carp Culture is being taken up with the facilitation of the department.	Human Food Fish	Partial	Yes	<p>Mode of Catching Fish:- Drag Netting , Cast Netting etc.,</p> <p>Breeding Time:- Monsoon season and Common Carp also breeds during the month of March and April.</p> <p>Fish Seed is procured from the differnet Farms of the Department.</p> <p>Traditionally Feeding is done by mixing Mustard Oil Cake Rice Bran, Wheat Bran, Crushed Maize etc. But now a days formulated pelleted feed is also available.</p>	Yes, Among Farming Community.
	Mrigal	<i>Cirrhinus mrigala</i>										
	Catla	<i>Catla catla</i>										
	Common Carp	<i>Cyprinus carpio</i>	Exotic Carps									
	Grass Carp	<i>Ctenopharyngodon idella</i>										
	Silver Carp	<i>Hypophthalmichthys molitrix</i>										

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

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 Holder
					Past	Present				
Mahseer	<i>Tor pitutora</i>	Wild, Fresh Water & Hill Stream Fishies.	Bony, Fresh Water	Fresh water Streams & Rivers.	All Fish species were available.	Mahaseer is now a days is reported very few in catch.	Human Food Fish. Sport Fish (Mahaser and Trout)	Yes	Mode of Catching Fish:- Cast Net, Fishing Rod and Hook line. Breeding Time:- Breeds in Monsoon season.	Yes, Among Fishermen and Angling Community.
Keadie/Khrot	<i>Labeo spp.</i>									
Gauns	<i>Bagarius spp.</i>									
Channa	<i>Channa spp.</i>									
Fresh Water eel	<i>Mastacembelus spp.</i>									

Other details may include mode of catching fish, time of availability, breeding time, etc

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
S.No.	Local Name	Scientific Name	Variety	Importance	Trends
1	Bariyan	<i>Acorus spp.</i>	Wild	Has medicinal value	
2	Aak	<i>Ipomea carnea</i>	Wild	Used as firewood, Medicinal Value, Bicompost.	
3	Duck Weed	<i>Lemna minor</i>	Wild	Source of food for aquatic water fowl, Animal Fodder, Waste water nutrients recovery.	

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	Other details market/ own use	Community/ Knowledge Holder
					Past	Present					
Tree	Carry patta	<i>Murraya koenigii</i>						Medicinal			
Tree	Beda	<i>Terminalia bellirica</i>						Medicinal			
Tree	Amla	<i>Emblica officinalis</i>						Medicinal			
Tree	Harhar	<i>Terminalia chebula</i>						Medicinal			

Note: Uses: Food/Veterinary Medicine/Human Medicine (Sub-divisions like for children, women etc)/Agricultural Purpose (Bio-pesticide)
 Other details: Harvesting period /Perennial/annual/seasonal

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

Note: Other details may include 'function as a substitute plant' in the absence of a particular plant

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
Nil							

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				
Pine	<i>Pinus wallichiana</i>	Surni			Furniture, Firewood			
Tali	<i>Dalbergia sissoo</i>	Surni			Furniture			
Toona	<i>Toona sinensis</i>	Surni			Furniture, Firewood			
Kainth	<i>Pyrus pashia</i>	Surni			Firewood			

Format 29: Flora			URBAN BIODIVERSITY			
1	2	3	4	5	6	7
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)

Note: Separate format should be used for road side plantation / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat

Format 30: Fauna

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (Local/ Hybrid)	Features	Method of Keeping	Local Status		Uses	Associated TK	Commercial Rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Cattle	Gow	<i>Bos indicus</i>	Local	Medium Size	Traditional	Rare	Rare		Yes	No	Milk, Dung Drought	
Buffalo	Munj	<i>Bubalus bubalis</i>	Local	Medium Size	Traditional	Moderate	Moderate		Yes	No	Milk, Dung Drought	
Dog	Kutta	<i>canis lupus</i>	Local	Medium Size	Traditional	Rare	Moderate		Yes	No	Herding Companionship	
Chicken	Murga	<i>Gallus gallus</i>	Local	Medium Size	Backyard Commercial	Rare	Rare		Yes	No	Meat, Eggs	
Sheep	Bhead	<i>Ovis aries</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Goat	Bakri	<i>Capra-hircus</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Horse	Godah	<i>Equus caballus</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Duck	Bathak	<i>Anas platyrhynchos</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads
Mule	Khachar	<i>Equus mmullas</i>	Local	Medium Size	Flock Rearing	Plenty	Rare		Yes	Yes	Muttan	Local and Nomads

Note: Separate format should be used for road side plantation - habitat / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat

Wrong Format

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

End of Part II