

## People Biodiversity Register (PBR): General Details

**Name of the Panchayat Samiti:-** Barmandal

**Taluk:** Kalakote

**District:** Rajouri

**State:** Jammu And Kashmir

**Geographical Area of the Panchayat Samiti:**

**Population under the Panchayat Samiti:** Total 2255

**Male:** 1169

**Female:** 1086

**Total:** 2255

**Habitat and Topography:** Hilly

**Climate (Rainfall, Temperature and weather patterns)** Rainfall

Land Use (Nine fold classification available with village records)

Date, Month and Year of PBR Preparation 2020-21 - 25/03/2021

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: Usha Sharma

Age:47 Yrs

Gender:Female

Address:Barmandal

Area of specialization:

2) Name:

Age:

Gender:

Address:

Area of specialization:

3)Name:

Age:

Gender:

Address:

Area of specialization:

4)Name:

Age:

Gender:

Address:

Area of specialization:

5)Name:

Age:

Gender:

Address:

Area of specialization:

6)Name:

Age:

Gender:

Address:

Area of specialization:

7)Name:

Age:

Gender:

Address:

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 : Kewal Krishan

Age: 65

Gender: Male

Address: Tatapani

Area of specialization: Bone Dislocation

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name: Naitra Prakash

Age: 45

Gender: Male

Address: Tatapani

Area of specialization: Bone dislocation

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

3) Name:

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

### Annexure 3

#### List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry

1) Name of the Chairperson: Usha Sharma

Age: 47 Yrs

Gender: Female

Address: Barmandal

Area of specialization: Hot Water Spring

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:

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**Annexure 4**

**Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR**

1) Contact Person:

Name and Address:

2) Contact Person:

Name and Address:

3) Contact Person:

Name and Address:

4) Contact Person:

Name and Address:

**You may add names of more institutions/NGO/Individuals etc, if necessary**

## Annexure 5

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

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

*End of Part I*

### Format : 01 Crop Plants

S.No	Crop	Scientific Name	Local Name	Variety	Land Scape / Habitat	Approx area sown	Local Status		Special feature	Cropping season	Uses	Associated TK
							Past	Present				
1	Rice	<i>Oryza sativa</i>	Dhan	K-39,K-343, G-14	Hilly terrain		Plenty	Plenty	Medium height, resistant to draught,	Kharif	Food /Fodder	Stapple food
2	Maize	<i>Zea mays</i>	Makka	Rasi4794, Kh517, Kh-612, DD	Hilly & lower hills		Plenty	Plenty	HYV, Resistant to draught ang lodging	Kharif	Food /Fodder	Stapple food
3	Wheat	<i>Triticum aestivum</i>	Gandam	Raj 3765, HD 2967, HD 3086,	Hilly & lower hills		Plenty	Plenty	HYV, Draught resistant, Shaort duration	Rabi	Food / Fodder	Stapple food
4	Mustard	<i>Brassica juncea</i>	Sarson	Pusa bold, Gobi Sarson	Cool & dry		Normal	Normal	Matures in 145-150 days with 40-42 % oil content	Rabi	Source of energy	vegetable Oil extracted from seeds used in cooking
5	Chick pea	<i>Cicer arietinum</i>	Chana	C-235, Gaurav, GNG-469	Sub tropical		Rare	Normal	Medium Yielding	Kharif (May to October)	Source of Protein/Energy	Prefered Food for parties as well as Domestic Consumption
6	Black Gram	<i>Vigna mungo</i>	Mash	PU-19,UTTRA	Sub tropical		Plenty	Plenty	Rich source of Protein			
<b>Vegetables</b>												
a	Okra	<i>Abelmoschus esculentus</i>	Bhindi	Arka Anamika, Versha Uphar, PS, PK,	Sub tropical & intermediate		Normal	Normal	Green Veg	Kharif	Green Veg	Green Veg
b	Brinjal	<i>Solanum melongena</i>	Bangun	PPL,PPC, PH4, BR112	Sub tropical & intermediate		Normal	Normal	Green Veg	Kharif	Green Veg	Green Veg
c	Brottle Gourd	<i>Lagenaria siceraria</i>	Kaddu	PSPL, Punjab Komal	Sub tropical & intermediate		Normal	Normal	Green Veg	Rabi	Swollen stem and leaves are consumed as vegetable	Source of minerals & energy
d	Cauliflower	<i>Brassica oleraceae var. botrytis</i>	Ful gobi	Pusa Snow Ball, Pusa Katki, Girja	Sub tropical & intermediate		Normal	Normal	-	Rabi	Curd used as vegetable	Also good source of protein,carbohydrate, phasphorus & iron
e	Cabbage	<i>Brassica oleraceae var. capitata</i>	Band gobi	Golden Acre, Pride of India, Green Flesh	Sub tropical & intermediate		Normal	Normal	Round head green colour	Rabi	Head used as vegetable, salad	Also good source of protein,carbohydrate,phasphorus& iron







### Format 2: Fruit Plants

Plant	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Source of Seed /Plants	Season of Fruiting	Associated TK	Uses	Other details market/Own use	Communicate/ Knowledge holder
					Past	Present						
Mango	<i>Mangifera indica</i>	Aam	Desi, Dusheri, Malda	Subtropical	Plenty	Plenty	Nurseries	June-August		Fruit,Pickling , Preserves	Marketing , own use	
Citrus fruits	<i>Citrus spp.</i>	Khatti, Galgal, Nimbu, Santra, Kinnow, Mosambi etc.	Local selection, Kagzi Lime, Italian Lime, Hill Lemon etc.	Subtropical, mid hills	Plenty	Plenty	Nurseries	through out year		Fruit,Pickling, Squashes etc.	Marketing , own use	
Guava	<i>Psidium guajava</i>	Amrood	Local, L-49, Allahabadi Safeda etc.	Subtropical	Plenty	Plenty	Nurseries	July-August		Fruit	Marketing , own use	
Grapes	<i>Vitis vinifera</i>	Angoor	Local Dakh, Perlette,	Subtropical,Mid hills	Rare	Rare	Nurseries	July-August		Fruit		
Aonla	<i>Phyllanthus emblica</i>	Ambla	Local selection , NA-7	Subtropical	Plenty	Plenty	Nurseries, local collection	Nov-Dec		Pickling, Preserves, Juices etc.	Marketing , own use	
Ber	<i>Ziziphus mauritiana Lam</i>	Ber	gola, Banarasi	Subtropical	Plenty	Rare	local raised	July-August		Fruit	Own use	
Pomegranate	<i>Punica granatum</i>	Anar, Druni	Ganesh, Kandhari, Local	Subtropical, mid hills	Rare	Rare	Nurseries, locally raised, wild	May-August		Fruit, anardana	Own use	
Pear	<i>Pyrus spp.</i>	Nakh	Patharnakh, China pear	Mid hill	Plenty	Plenty	Nurseries	Aug-Sept		Fruit	Own use	
Peach	<i>Prunus persica</i>	Aaroo	July Elberta, Quetta	Mid hill	Rare	Rare	Nurseries	June-July		Fruit	Marketing , own use	
Apricot	<i>Prunus armeniaca</i>	Khubani, Sadi	Local apricot, Bebco	Mid hills	Plenty	Plenty	Nurseries	June-July		Fruit	Own use	
Pecan	<i>Carya illinoensis</i>	Pecan	Western shelley	Mid hills /Temperate	Rare	Rare	Nurseries	Sept-Oct		Dry Fruit	Marketing	
Plum	<i>Prunus salicina</i>	Aaloo Bukhara	santa Rosa, Allubukhara	Mid Hills	Rare	Rare	Nurseries, locally raised	July-August		Fruit	Marketing , own use	



### FORMAT-3: FODDER CROPS/SPICES

S.No	Plant	Scientific Name	Local Name	Land Scape/ Habitat	Local Status		Source of plants/ seeds	Associated TK	Part Used	Other details	Community/ Knowledge holder
					Past	Present					
1	Oats	<i>Avena sativa</i>	Javi	Sub Tropical / Intermediate	Rare	Rare	Agri Dept /Local	Nutritious & palatable fodder,	Whole plant	Suitable for fodder	Farmers
2	Sorghum	<i>Sorghum spp.</i>	Charry/ Jawar	Sub Tropical / Intermediate	Rare	Plenty	Agri Dept /Local	Source of energy	Whole plant	Suitable for fodder	Farmers
3	Barseem	<i>Trifolium alexandrinum</i>	Shatala	Sub Tropical / Intermediate	Rare	Rare	Agri Dept /Local	Nutritious & palatable fodder	Whole plant	Suitable for fodder	Farmers
4	Chilli	<i>Capsicum annum</i>	Mirch	Sub Tropical / Intermediate	Rare	Rare	Agri Dept /Local	Village Head	Dry fruit	Contains good ammount of vitamin A&C	Farmers
6	Garlic	<i>Allium Sativum</i>	Thom	Sub Tropical / Intermediate	Rare	Rare	Agri Dept /Local	Medicinal value	Clove	Spice use	Farmers

**FORMAT-4 : WEEDS**

S.No	Plant	Scientific Name	Local Name	Affected Crop	Impact	Land Scope / Habitat	Local Status		Uses if Any	Management Options	Associated TK	Other details like exotic
							Past	Present				
1	Guli Danda	<i>Phalaris minor</i>	Sitti	Wheat	Compete with crop	Sub Tropical/intermediate	Plenty	Plenty	Nil	Chemical / Manual Control	Source for High quality protein	Local
2	Parathenium	<i>Parthenium hysterophorus</i>	Congress grass	All crops	Alelopathy effect, reduce yield	Sub Tropical/intermediate	Rare	Plenty	Nil	Chemical / Manual Control	Abnoxious weed difficult to manage	Exotic
3	Bathua	<i>Chenopodium album</i>	Bathua	Wheat, Vegetables	Compete with main crops for space and nutrients	Sub Tropical/intermediate	Plenty	Plenty	Leavy vegetable	Chemical Control	Rich Source of protein, Vit. A, Calcium, Phosphorous & potash	Used as green vegetable
4	Wild Oats	<i>Avena spp.</i>	Jungli Javi	Wheat	Compete with main crops for space and nutrients	Sub Tropical/intermediate	Plenty	Plenty	Green Fodder for animal	Chemical / Manual Control	Source for High quality protein	Local
5	Bhang	<i>Cannabis sativa</i>	Bhang	Maize, Wheat, Vegetables	Alelopathy effect, Compete with crops	Sub Tropical/intermediate	Plenty	Plenty	psychoactive effects	Chemical / Manual Control	intoxicating causes dehydration, nausea and headache	Local
6	Barnyard grass	<i>Echinochloa crus-galli</i>	Swanki	Rice/Maize	Compete with crops	Sub Tropical/intermediate	Plenty	Plenty	Fodder & Animals	Chemical / Manual Control	Nil	Local
7	Nut Grass	<i>Cyperus rotundus</i>	Dilla/Motha	Paddy, maize, vegetable	Perennial	Agri. & Non Agri. Land	Plenty	Plenty	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Traditionally used as medicine

### FORMAT 5: PESTS OF CROPS

S.No	Host	Insect/ Animal	Scientific Name	Local Name	Habitat	Time/ Season of Attack	Management mechanism	Associated TK	Other details	Community Knowledge Holder
1	Rice	Rice Hispa	<i>Dicladispa armigera</i>	Kali Pundi	Sub Tropical/intermediate	Kharif	Chemical control	-	Feed on crop leaves	Farmers
2	Rice	Stem Borer	<i>Scirpophaga incertulas</i>	Dhain ka Kida	Sub Tropical/intermediate	Kharif	Chemical control	-	Feed on crop leaves	Farmers
3	Maize	Blister Beetle	<i>Mylabris phalerata</i>	Bhundi	Sub Tropical/intermediate	Kharif	Chemical control	-	Feed on crop leaves	Farmers
4	Maize	Cut Worm	<i>Agrotis spp.</i>	Makki da kida	Sub Tropical/intermediate	Kharif	Chemical control	-	Feed on crop leaves	Farmers
5	Maize	Maize stem Borer	<i>Chilo partellus</i>	Sundi	Chewing & biting		Mechanical & Chemical measures	-	Causes dead hearts in young plants	Farmers
6	Maize/Wheat	Termite	<i>Odontotermes obesus</i>	Sink	Sub Tropical/intermediate	Kharif/ Rabi	Chemical control	-	Feed on crop leaves	Farmers
7	Brijal/ Tomato	Fruit Borer	<i>Helicoverpa armigera</i>	Sundi	Sub Tropical/intermediate	Kharif	Chemical control	-	Feed on crop leaves	Farmers
8	Wheat, Maize, Rice	Rat	<i>Tatera indica</i>	Chuha	Sub Tropical/intermediate	Kharif/ Rabi	Chemical control	-	Feed on crop leaves	Farmers
9	Miaze, Potato	Porcupine	<i>Erethizon dorsatum</i>	Seh	Sub Tropical/intermediate	Kharif/ Rabi	NA	-	Feed potato tubers, vegetales and cobs	Farmers
10	Maize, Wheat, Fruits, vegetable	Monkey	<i>Macaca mulatta</i>	Bander	Sub Tropical/intermediate	Kharif/ Rabi	NA	-	Feed on Fruits and green vegetables, cobs	Farmers
11	Mustard	Aphid	<i>Lipaphis erysimi</i>	Aphid/ Tella	Sub Troopical /Intermediate	Dec-March	Chemical control	-	Nil	Farmers















**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					
	Harad	<i>Terminalia chebula</i>					Plenty					
	Behra	<i>Terminalia bellirica</i>					Plenty					
	Retha	<i>Sapindus mukorossi</i>					Plenty					
	Amla	<i>Phyllanthus emblica</i>					Plenty					
	Neem	<i>Azadirachta indica</i>					Plenty					
	Tulsi	<i>Ocimum tenuiflorum</i>					Plenty					
	Kringal	<i>Yushania anceps</i>					Plenty					
	Giloe	<i>Tinospora cordifolia</i>					Plenty					
	Aloevera	<i>Aloe vera</i>					Plenty					
	Turmeric	<i>Curcuma longa</i>										

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 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					

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/Know. Holder
					Past	Present				
Fish		-	-	Inside water	-	-	Catable			
Frog	<i>Bufo ridose spp.</i>			Inside, outside water			Nil			
Snake	<i>Serpentes spp.</i>			Inside, outside water			Nil			

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



### 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					

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 Crop**

1	2	3	4	5		6	7	8	9	10
Local Name	Scientific Name	Associated Crop	Landscape/ Habitat	Local status		Associated TK	Uses (Usage)	Part used	Other Details	community/knowledge Holder
				Past	Present					
Jungly Methi	<i>Mentha spp.</i>	-	-	-	-	-	-	Leaves		

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 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		Associated TK	Uses (Usage)	Part used	Other Details (Mode of use)	Community/knowledge Holder
					Past	Present					
Shrubs	Ganore	-	-	Forest	-	-	-	-	-		

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











**Format 30: Fauna**

1	2	3	4	5	6
Sr. No.	Local Name	Scientific Name	Type of Animals (Mammals / Birds / Fish / Insect etc.)	Habitat	Remarks (Rare / Common etc.)

**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



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

1	2	3
Sr. No.	Information of local importance	Remarks
	Hot Water Spring - Medicinal Properties	
	Kamila Flowers - Medicinal	
	Banaksha	
	Gucchi	
	Dabbe ( Dabyal)	
	Kakad Singhi - Medicinal ( On kadkaan tree )	
	Kambal - Latex use	
	Maida Sak - Bark - Pain Reliever	
	Dadur - Roots bark - Juice - Skin diseases	
	Kithiganda - Root tuber - Sugar	

*End of Part II*