

## People Biodiversity Register (PBR): General Details

**Name of the Panchayat Samiti:** Kothian-A

**Taluk:** Kalakote

**District:** Rajouri

**State:** Jammu And Kashmir

**Geographical Area of the Panchayat Samiti:** 1000.8

**Population under the Panchayat Samiti:** Total 2500

**Male:** 1295

**Female:** 1205

**Total:** 2500

**Habitat and Topography:** Hilly

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

**Land Use (Nine fold classification available with village records)** - Agriculture , Pastuer

**Date, Month and Year of PBR Preparation :** 25/03/2021

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

**Naib. Sarpanch - Swarn Singh - 6005567352 , Sarpanch - Khatoon Begam - 8082653728 , Panch - Suresh Kumar - 9797422405**

**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)**

<b>1) Name of the Chairperson:</b> Khatoon Begum
<b>Age:</b> 55 years
<b>Gender:</b> Female
<b>Address:</b> Kurrah
<b>Area of specialization:</b>
<b>2) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>3) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>4) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>5) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>6) Name:</b>
<b>Age:</b>
<b>Gender:</b>
<b>Address:</b>
<b>Area of specialization:</b>
<b>7) Name:</b>
<b>Age:</b>
<b>Gender:</b>

**Address:**

**Area of specialization:**

**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 : Dr . Shareef (Ex Sarpanch)

Age: 62

Gender: Male

Address: Kothian

Area of specialization: Ortho

Location from which the person accesses biological material:

Medicinal Use:

2) Name: Chamel Singh

Age: 55

Gender: Male

Address: Kothian

Area of specialization: Ayurvedic (Piles)

Location from which the person accesses biological material: Forest , Local area

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:

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: Khatoon Begum

Age: 55 years

Gender: Female

Address: Kurrah

Area of specialization: Agriculture

2)Name of the Chairperson: Waqar Anjum

Age: 28

Gender: Male

Address: Khotian

Area of specialization: Agriculture

3)Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

4)Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

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

**1) Contact Person:** Master Rasheed (Baruta) Mob no - 8082210476

**Name and Address:** Govt. Middle School

**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 Scene / 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, phosphorus & 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, phosphorus & iron
f	Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa Rubi, Pusa Early Dwarf, Manisha Plus/ local	Sub tropical & intermediate		Normal	Normal	-	Kharif	Rich in Ascorbic acid	Tomatoes are rich in iron & vitamins A and C, calcium, potassium.
g	Onion	<i>Allium cepa</i>	Pyaj	Pusa Red, Nasik Red, N-53, Liberty	Cool weather at vegetative stage followed by warm weather at Bulb Stage		Normal	Normal	-	Rabi	Vegetable & Salad use	Good source of dietary fiber, Vitamin B6, C, Potassium and folic acid.
h	Potato	<i>Solanum tuberosum</i>	Aaloo	Kufri Sindhuri, Kufri Badsha, Kufri Jyoti	Potato is an herbaceous annual, requires cool weather, mostly rainfed conditions		Normal	Normal	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 energy value
i	Pitha Kandoli								Grow underground		Vegetable	High carbohydrate, provide high energy value
j	Tarad	<i>Dioscorea bernoulliana</i>					Normal	Normal	Terrestrial fern		Vegetable	High carbohydrate, provide high energy value



### 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	Maketing , own use	
Pomegranate	<i>Punica granatum</i>	Anar					Nurseries, locally raised					
Daduni	<i>Combretum indicum</i>	Kela					Nurseries, locally raised					
Kainth	<i>Pyrus Pashia</i>						Nurseries, locally raised					
Banana	<i>Musa parasdisiaca</i>			Musa	Kela			Nurseries, locally raised				
Papaya	<i>Carica papaya</i>			Papita	Papita			Nurseries, locally raised				
Watermelon	<i>Citrullus lanatus</i>			Tarbooz	Citrullus lanatus	Tarbooja			Nurseries, locally raised			
Muskmelon	<i>Cucumis melo</i>			Kharbuja	Cucumis melo	Kharbooja			Nurseries, locally raised			
Garnay	<i>Serinus canaria domestica</i>								Nurseries, locally raised			
Fig	<i>Ficus carica</i>			Anjeer	Ficus carica	Fagwada			Nurseries, locally raised			
Mulberry	<i>Morus alba</i>			Toot	Morus alba	Toot			Nurseries, locally raised			

Suresh Kumar  
(Panch)

### 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
5	Garlic	<i>Allium Sativum</i>	Thom	Sub Tropical / Intermediate	Rare	Rare	Agri Dept /Local	Medicinal value	Clove	Spice use	Farmers
6	Pearl Millet	<i>Pennisetum glaucum</i>	Bajra						Whole plant except roots	Fodder	
7	Maize	<i>Zea mays</i>	Maqqi								
8	Kamila	<i>Mallotus</i>	Kamila						Leaves		



**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 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
Hindu, Muslim, Sikh, SC, ST										

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	Feature s 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											
Hilly													

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
Ponds									Animal use		Quantity - 22	
Dug wells												
Bowlis									Drinking		Quantity - 5	
Chashma									Drinking		Quantity - 3	
Handpump									Animal		Quantity - 1	
Canals	1. Kothian Canal								Agriculture		Quantity - 2	
	2. Seela Naala											

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

**Format 10: Soil type**

1	2	3	4	5	6	7	8
Soil Type	Color & Texture	Features	Soil management	Plants / crop suitable	Flora and fauna	Associated TK	Other information
Clay							
Red							
Mined							
Loamy							





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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 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					
	Khair	<i>Senegalia catechu</i>					Vegetable			
	Kalyad	<i>Bahunia variegata</i>					Medicinal use	Antibacterial, Anti inflammatory, Anti diarrheal		
Toona	Tunu	<i>Toona sps.</i>					Musical instruments			
Mango	Amb	<i>Magnifera indica</i>					Fruit	Fighting cancer		
Pine	Chir	<i>Pinus soxbusghi</i>					Timber, fuel wood,			
Campbell	Compbell	<i>Acer Campbelli</i>								
Mulberry	Toot	<i>Morus alba</i>					Fruit- Lower cholestrol, Diabetes			
Eucalyptus	Safeda	<i>Eucalyptus globulus</i>					Leaves and oil for medicine			
Lasuni	Lasuni									
Shisham	Taali	<i>Dalbergia sissoo</i>					Plywood, agricultural tools, flooring, bentwood			
Poplar	Poplar	<i>Populus spp</i>					Plywood, Boards, matchsticks.			

**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					
	Cow	<i>Bos taurus</i>										
	Buffalo	<i>Bubalus babalis</i>										
	Dog	<i>Canis lupus</i>										
	Horse	<i>Equus Caballus</i>										
	Goat	<i>Capra aegagrus</i>										
	Poultry	<i>Gallus gallus</i>										
	Pig	<i>Sup spp.</i>										

Uses include milk, meat, skin, fur 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			
Red wattled Dapwing	<i>Vanellus indicus</i>									
Chidak										
Kaid										
Las										
Snail	<i>Gastropoda spp.</i>									

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







**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					
Jungli Methi	<i>Indigofera trifoliata</i>	-	-	-	-	-	-	Leaves		
Jungli Pudina	<i>Mentha spp.</i>									
Jungli Pyaaz	<i>Allium spp.</i>									
Jungli Javi	<i>Avena spp.</i>									
Jangli Matar	<i>Pisum spp.</i>									

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	-	-	-	-	-		
	Farlai										
	Timbru	<i>Zanthoxylum aurmatum</i>									
	Koo										

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

















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

1	2	3
Sr. No.	Information of local importance	Remarks
	Mango	
	Amrood	
	Citrus	
	Water scarcity	
	Kandoli, Bhindi - Market	

*End of Part II*