

## Peoples' Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: BANOLA

Taluk/Tehsil: Mendhar

District:Poonch

State/UT: Jammu And Kashmir

Geographical Area of the pancahayt Samiti: 346 Hectare

Population Of the Panchayat samiti...Total 2342 ( Total Population)

Male= 1126

Female = 1216

Habitat and Topography:

Climate (Rainfall, Temperature and other weather patterns): Sub-Tropical

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

Date, Month and Year of PBR preparation: 25-08-2020





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S/o Mohd. Hussain

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Chairman

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ijiced ( Secretary Panchayat)

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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 : Nil

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

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

1) Name : Abdul Kareem S/o Mohd. Hussain

Age: 42 years

Gender:

Address:

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

**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>



**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							
Maize	<i>Zea Mays</i>	Makh	Bio-9621, K-6129, K-65, GG, star -9, 4794,DD , 7314	Hilly, Temperate & intermediate areas of district	24000 hac	Local varieties	Improved varieties	1.March to April sown	Kharif	1. Major food item	Staple food	-	Farmers kept seed, Deptt. of Agri, Private seed dealer	Generally aged farmer or rural communities
								2.Local variety dentles		2. Feeding to poultry and cattle				
								3.Corn and flour sweet in taste		3 .Used as flour				
										4. Straw used as dry fodder				
Wheat	<i>Triticum astivum</i>	Kanak- Rare	HD -2967, HD 3086	Hilly, Temperate & intermediate areas of district	15000 hac.	Local varieties	Improved varieties	1.HYV	Rabi	1. Grains used as food	Staple food	-	Seed selected from previous yr. crop, deptt. of agri.	Local faming communities
						Moond		2. Resistant to pest		2.Straw used as dry fodder				
								3. susceptible to all kind of rust		3.Pre mature crop used as fodder				
								4. Drought resistant						
Garlic	<i>Allium sativum</i>	Thoom - Abundant	Yamuna Safed(G-1,G-50,G-282), German White	Hilly, Temperate & intermediate ar. of distt.	50 hac.	Local varieties	Improved varieties	1.Disease resistance variety	Rabi	As a spice	-	-	Seed selected from previous yr. crop,	Local faming communities
								2. 5-8 cloves						
								3. Rich and spicy in flavour						





**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					
Bermuda Grass	<i>Cynodon dactylon</i>	Maize			Hilly, Temperate & intermediate ar. of distt	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	-	Manual control/ Chemical mgmt. through herbicides	nil	nil	No TK associated with knowledge of weed
Zehar bael	<i>Ipomea sp.</i>	Maize			Hilly, Temperate & intermediate ar. of distt	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	-	Manual control/ Chemical mgmt. through herbicides	nil	nil	No TK associated with knowledge of weed
Dheloo	<i>Cyprus rotundus</i>	Maize			Hilly, Temperate & intermediate areas of district	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	-	Manual control/ Chemical mgmt. through herbicides	nil	nil	No TK associated with knowledge of weed
Ghass	<i>Cyprus esculantus</i>	Maize			Hilly, Temperate & intermediate areas of district	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	-	Manual control/ Chemical mgmt. through herbicides	nil	nil	No TK associated with knowledge of weed
Bathua	<i>Chenopodium album</i>	Maize			Hilly, Temperate & intermediate areas of district	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	Used as vegetable	Manual control/ Chemical mgmt. through herbicides	nil	nil	No TK associated with knowledge of weed
Wild oat	<i>Avena fatua</i>	Wheat			Hilly, Temperate & intermediate areas of district	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	-	Manual control/ Chemical mgmt. through herbicides	Source for high quality protein	Local	No TK associated with knowledge of weed

Gully danda	<i>Phalaris minor</i>				Hilly, Temperate & intermediate ar of district	No weed mgmt.	Weed mgmt. on scientific lines being followed by farmers	-	Manual control/ Chemical mgmt. through herbicides	Source for high quality protein	Local	No TK associated with knowledge of weed
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**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
	Rice Thrips	<i>Stenchaetothrips biformis</i>		Paddy Field	August to September	Dusting of carbaryl 5% or malathion 5% @ rs. 25 kg /hac	nil	nil	Nil
	Rice Grasshopper	<i>Hieroglyphus banian</i>	Tridhaa	Paddy Field	June to September	Trimming the bunds	nil	nil	Nil
						Dusting of carbaryl 5% or malathion 5% @ rs. 25 kg /hac			
	Stem Borer	<i>Samia inferens</i>		Wheat		Need base application of triazophos or quinaphos	nil	nil	Nil
						Installation of pheromone traps for monitoring			
WHEAT	Field Rats	<i>Bendicota bangalensis, Torera indica, Millardia meltada</i>		All fields	All season	Traps and chemicals	nil	nil	Nil
	Cut worm	<i>Agroris sp.</i>	-	Maize	April to May	Chemical mgmt. through insecticide (phorate)	nil	nil	Nil
MAIZE	Stem Borer	<i>Chilo partellus</i>	-	Maize	June to July	Ploughing of filed after harvest and destroy stubbles & weeds	nil	nil	Nil
						Distruction of infected plant and removal of dead herts			
						Chemical mgmt. through insecticide			
						Deep summer ploughing			

	Cob Worm	<i>Helicoverpa armigera</i>	-	Maize	June to July	<ul style="list-style-type: none"> <li>· Installation of pheromone traps for monitoring</li> </ul>	nil	nil	Nil
						<ul style="list-style-type: none"> <li>· Chemical mgmt. through insecticide</li> </ul>			
	Blister Beetel	<i>Mylabris pustulata</i>	Khundii	Maize	June to August	<ul style="list-style-type: none"> <li>· Avoid excessive use of nitrogenous fertilizers</li> </ul>			
						<ul style="list-style-type: none"> <li>· Manual collection or collection with insect net and killing of adults in kerosenized water</li> </ul>	nil	nil	Nil
						<ul style="list-style-type: none"> <li>· Need based spray of carbaryl and fenthione</li> </ul>			
MUSTRAD	Aphid	<i>Lipasphis erisymi</i>	-	Mustard	Mustard	<ul style="list-style-type: none"> <li>· Avoid late sowing &amp; excessive use of nitrogen fertilizers</li> </ul>			
						<ul style="list-style-type: none"> <li>· Crop should be sown before 20<sup>th</sup> oct.</li> </ul>	nil	nil	Nil
						<ul style="list-style-type: none"> <li>· Need base spray of dimethoate 30 EC or Methyl Demetone 25 EC</li> </ul>			

**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	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil





**Format-8 Landscape**

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											
Cultivated Land	Not Applicable	Not Applicable	Cultivated Land	108 Hac	Agricultural Land are Privately owned	Fodder and Crop Plants	Insects,Snakes, Dogs,Fox,Jackels , Mangoose etc	Nil	Nil	Nil		Nil	Low-Income community
Non-Cultivated Land	Not Applicable	Not Applicable	Non-Cultivated Land	204 Hac	Govt./Private	Wild plants and Fodder Plants	Insects,Snakes, Dogs, Fox, Jackels , Hawk etc	Nil	Nil	Nil		Nil	Low-Income community
Forest Land	Not Applicable	Not Applicable	Forest Land	195 Hac	Government	Wild plants	Wild animals, wild Chicken, fox, Jackel, Insects, Eagle etc	Nil	Nil	Nil		Nil	Low-Income community



**Format-10 Soil Type**

1	2	3	4	5	6	7	8
<b>Soil Type</b>	<b>Color &amp; texture</b>	<b>Features</b>	<b>Soil Management</b>	<b>Plants / Crop Suitable</b>	<b>Flora and Fauna</b>	<b>Associate TK</b>	<b>Other Information</b>
Sandy and clay soil	Clayey loam, sandy loam,	Fine Granular, Dub-Angular Blocky Structure having pH 7.8-8.3, Water Holding capacity more than 40%	Use of Organic matter	Maize, Wheat & Rice	Kiker , Besa, Mannu, Snake, Lizard, Jackals	-	-



**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					
Shrubs	Bhang	Canabis sativa	Wild	Hilly	Seed	Abundant	Abundant	Medicinal use	Leaves	N.A	N.A	Generally, held by community



**Format-14 Timber Plants/Trees**

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	<i>Scientific Name</i>	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Chir	<i>Pinus roxburghii</i>	Sub-tropical	Rare	Rare	Wild	Roofing, furniture etc.	nil	nil	
Trees	Oak	<i>Quercus incana</i>	Sub-tropical	Rare	Rare	Wild	Roofing, furniture etc.	nil	nil	



**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					
	Jersey Ghan	<i>Bos iaurus</i>	CB Jersey	Dished Face	Backyard/Commrcial	Very few	Increased	Dairy	Nil	Yes	Milk	All
Buffalo	Manj	<i>Bubales bubalis</i>	Local	Low yield	Backyard	Abdulant	Decreased	Dairy	Nil	No	Milk	Gujjar Community
	Punjabi Mais	<i>Bubales bubalis</i>	Murrah	Black coloured Body	Backyard	Very few	Increased	Dairy	Nil	Yes	Milk	All
Dog	Kutta	<i>Canis familiaris</i>	Local	Nil	Stray	Abdulant	Abdulant	Nil	Nil	No	No	Stray
Cat	Billi	<i>Felis catus</i>	Local	Grey colour	Pet	Abdulant	Abdulant	Pet	Nil	Nil	Nil	Nil





**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		Commercial / own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Trees	Bair	<i>Ziziphus xylocarpa</i>	Trees	Sub-Tropical	Rare	Rare	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Drankh	<i>Melia azedarach</i>	Trees	Sub-Tropical	Abundant	Rare	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Fagwara	<i>Ficus palmata</i>	Trees	Sub-Tropical	Abundant	Abundant	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Kanthe	<i>Pyrus paschia</i>	Trees	Sub-Tropical	Rare	Rare	own	Leaves	nil	nil	Generally, held by community
Trees	Kiker	<i>Acacia Nilotica</i>	Trees	Sub-Tropical	Abundant	Abundant	own	Leaves	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Trees	Sub-Tropical	Rare	Abundant	own	Stem	nil	nil	Generally, held by community
Trees	Tooth	<i>Morus alba</i>	Trees	Sub-Tropical	Abundant	Abundant	own	Leaves/Fruit	nil	nil	Generally, held by community



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

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance (as economic, social, cultural etc.)	Status
1	Bhang	<i>Cannabis sativa</i>	Wild	Economic, social	
2	Wild anaar	<i>Punica granatum</i>	Wild	Economic, social	



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

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Sl. No.</b>	<b>Local Name</b>	<b>Scientific Name</b>	<b>Variety</b>	<b>Importance</b>	<b>Trends</b>
Nil	Nil	Nil	Nil	Nil	Nil



**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					
Shrub	Simlu	Berberis lyceum						It is an excellent tonic for combating ability after malarial & other fevers & diseases	Fruit, roots		
Herb	Banafsha	Viola						Flowers are used in perfumery & are also used medicinally as demulcent and biliousness & lungs trouble	Flower		





**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	Other details (mode of use)	Community knowledge holder
					Past	Present					
Shrub	Trimuru	<i>Zanthoxylum</i>		Forest	Rare	Rare	use for teeth Cleaning/ Medicinal Purpose	Fruit, Branches	-	-	Generally, held by community
		<i>aurmatum</i>									
Shrub	Bana	<i>Vitex negundo</i>	-	Locally present	Rare	Rare	use for teeth Cleaning	Branches	-	-	Generally, held by community
Shrub	Kiker	<i>Acacia Nilotica</i>		Forest	Rare	Rare	use for teeth Cleaning	Branches	N.A	N.A	Generally, held by community

**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				
Chir	<i>Pinus roxburghii</i>		Rare	Rare	Roofing, furniture etc.	Whole for different uses		
Oak	<i>Quercus incana</i>		Moderate	Moderate	Roofing, furniture etc.	Whole for different uses		









**Format 29: Flora**

1	2	3	4	5	6	7
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)
	Garanda	<i>Punica granatum</i>				
	Khirk	<i>Celtis australis</i>				
	Kainth	<i>Pyrus paschia</i>				
	Fagora	<i>Ficus palmata</i>				
	Bana	<i>vitex negundo</i>				
	Tooth	<i>Morus alba</i>				
	Mannu	<i>Ulmus walichaina</i>				

**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.)
1	Jackal	<i>Canis aureus</i>	Mammals	Forest	Common
2	Squirrel	<i>Sciuridae</i>	Mammals	Forest	Common
3	House Crow	<i>Corvus splendens</i>	Birds	Forest	Common
4	Manj	<i>Bubalus bubalis</i>	Mammals	Forest	Common
5	Cat	<i>Felis cactus</i>	Mammals	Forest	Common
6	Pig	<i>Sus scrofa</i>	Mammals	Forest	Common
7	Egrit	<i>Bubulcus Ibis</i>	Birds	Tree	Common
8	Mountain Hawk Eagle	<i>Nisaetus nipalensis</i>			Common

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

1	2	3
Sr. No.	Information of local importance	Remarks