

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti : Lower Talwara

Taluk: Pouni

District : Reasi

State: J&K

Geographical Area of the Panchayat Samiti:

Population under the Panchayat Samiti: Total : 677

Male: 349 **Female :** 328

Habitat and Topography: Hilly and plains

Climate (Rainfall, Temperature and weather patterns) : 34°C in summer & 4°C in winter

Land Use (Nine fold classification available with village records) : Agri area=18.2 ha & Non- agri. Area=6.1 ha

Date, Month and Year of PBR Preparation: 31/08/2020

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: Kahmiri Bibi

Age: 27

Gender: Female

Address: Lower Talwara

Area of specialization:

2) Name: Anu Radha

Age: 30

Gender: Female

Address: Lower Talwara

Area of specialization:

3)Name: Baby Rani

Age: 35

Gender: Female

Address: Lower Talwara

Area of specialization:

4)Name: Rekha

Age: 29

Gender: Female

Address: Lower Talwara

Area of specialization:

5)Name: Mohd Mussa

Age: 44

Gender: Male

Address: Lower Talwara

Area of specialization:

6)Name: Nazir Mohd

Age: 40

Gender: Male

Address: Lower Talwara

Area of specialization:

7)Name: Mohd Saleem

Age: 39

Gender: Male

Address: Lower Talwara

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 : NIL

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name: NIL

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

3) Name: NIL

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:** Ram Parkash

Age: 45

Gender: Male

Address: Talwara

Area of specialization: Horticulture

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:

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: NIL**

Name and Address:

2) **Contact Person: NIL**

Name and Address:

3) **Contact Person: NIL**

Name and Address:

4) **Contact Person: NIL**

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**

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

End of Part I

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					
Plant	<i>Sorghum bicolor</i>	chari	subtropical	good	good					farmers
Pearl millet	<i>Pennisetum glaucum</i>	bajra	subtropical	good	good					farmers
Barley	<i>Avena fatua</i>	Javi	subtropical	good	good					farmers
Barseem	<i>Trifolium alexandrinum</i>	chattala	subtropical	good	good					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					
Bhang	<i>Cannabis sativa</i>	bhang			subtropical	good	good					
Congress grass	<i>Parthenium hysterophorus</i>	congress grass			subtropical	good	good					
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
cauliflower	bug	<i>Aphis</i>	teeli						
Brinjal	Hadda beetle	<i>Henosepilachna vigintioctopunctata</i>	ladybird						
Guava, citrus	Spiralling whiteflies	<i>Aleurodicus dispersus</i>	bug						
Cabbage	Aphid	<i>Aphidoidea</i>	greenfly						
Grains	Smut	<i>Ustilaginoidea virens</i>	smut						
Rice	Mites	<i>Steneotarsonemus spinki</i>	mite						
Wheat	Yellow rust	<i>Puccinia striiformis</i>	yellow rust						

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
SC=20%	Agricultue									THHs=280
ST=10%	Agricultue									
General =70%	Agricultue									

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											
Total agricultural area				18.2 ha									
Un- irrigated area				18.2 ha									
Non- agricultural use				6.1 ha									
Culturable waste land				0.4 ha									
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			Govt.									
Bowlis			Govt.									
Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,												

Format 11: Fruit Trees

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 Tree	Amb	<i>Mangifera indica</i>	local, Malda, Chausa, Fazli, Totapuri	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to August	Sucking, table, processing	Record vailable in old books.	Own uses and sold in market	Popular in local population.
Woody Tree	Lychee	<i>Litchi chinensis</i>	local	Sub-tropical	Good	Good	Layered plants.	March to July	Table and processing	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Woody Tree	Amrood	<i>Pidium guajava</i>	Local	Sub-tropical	Good	Good	Seedling trees, grafted/ layered.	March to August, Dec. To January	Table and processing.	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Climber	Angoor	<i>Vitis vinifera</i>	Local, Perllet, Beauty Seedless	Sub-tropical	Good	Good	Cuttings	Feb. To June	Table and processing.	Introduced by traders and domesticated locally.	Own uses and sold in market	Popular in local population.
Woody Tree	Mosammi	<i>Citrus sinensis</i>	Mosambi, Jaffa, Red Blood	Sub-tropical	Good	Good	Grafted Plants	March to Jan.	Table and processing.	Record vailable in old books.	Own uses and sold in market	Popular in local population.
Woody Tree	Sangtra	<i>Citrus reticulata</i>	Kinnow, Sangtra	Sub-tropical	Good	Good	Grafted Plants	March to Jan.	Table and processing.	Record vailable in old books.	Own uses and sold in market	Popular in local population.
Woody Tree	Nimboo	<i>Citrus aurantifolia</i>	Local, Kagzi, Italian, Eureka	Sub-tropical	Good	Good	Grafted Plants	March to Oct.	Processing.	Record vailable in old books.	Own uses and sold in market	Popular in local population.
Woody Tree	Galgal	<i>Citrus limon</i>	Local	Sub-tropical	Good	Good	Seedling andn Grafted Plants	March to Sept.	Processing.	Record vailable in old books.	Own uses and sold in market	Popular in local population.
Woody Tree	Kimb	<i>Citrus medica</i>	Local	Sub-tropical	Good	Good	Seedling trees	March to Sept.	Processing.	Record vailable in old books.	Own uses and sold in market	Popular in local population.

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					
Holy Basil	Tulsi	<i>Ocimum tenuiflorum</i>	Local	Subtropical		good	good	antioxidant				Self observed
Aloe vera	Aloe vera	<i>Aloe barbadensis</i>	Local	Subtropical		good	good	antibacterial				Self observed
Curry leaves	curry leaf	<i>Murraya koenigii</i>	Local	Subtropical		good	good	rich source of Vit.A,B,C,B2				Self observed
Bay leaves	bay leaf	<i>Laurus nobilis</i>	Local	Subtropical		good	good	Healthy immune system				Self observed
Mint	pudina	<i>Mentha piperita</i>	Local	Subtropical		good	good	treats stomach woes				Self observed

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	Bhed	<i>Ovis aries</i>	Local	small size, rough coat	Flock rearing	Least concern	Least concern	mutton, wool, manure	Yes	Yes	Bones, skin and gutt	Locals and nomads
Sheep	Bhed	<i>Ovis aries</i>	Rambouillet cross	large size, fine wool	Flock rearing	Least concern	Least concern	mutton, wool, manure	Yes	Yes	Bones, skin and gutt	Locals and nomads
Goat	Bakri	<i>Capra hirus</i>	Local	small size, low body weight	Flock rearing	Least concern	Least concern	Chevon, hair,manure	Yes	Yes	Bones, skin and gutt	Locals and nomads
Goat	Bakri	<i>Capra hirus</i>	Beetal	large size, high body weight	Flock rearing	Least concern	Least concern	Chevon, hair,manure	Yes	Yes	Bones, skin and gutt	Locals and nomads
Goat	Bakri	<i>Capra hirus</i>	Kaghani	large size, high body weight	Flock rearing	Least concern	Least concern	Chevon, hair,manure	Yes	Yes	Bones, skin and gutt	Locals and nomads
Cow	gau	<i>Bos taurus</i>	desi/jersey					Milk, ghee				
Buffalo	Bhains	<i>Bubalus bubalis</i>						Milk				

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	Maha seer	<i>Tor putitora</i>	scale Carp	Large scales along with the lateral lines with two pairs of barbels.	Streams and ponds	plenty	plenty	food		yes		fishery man

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

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					
Tree	Chir	<i>Pinus roxburghii</i>	Tree	Sub -tropical	Available	Available	Own Use	Fruits		Medicinal Use	Self observed
Tree	Khair	<i>Accacia catechu</i>	Tree	Sub -tropical	Available	Available	Own Use	Fruits	Used in Gastro Problems	Medicinal Use	Self observed
Tree	Garna	<i>Carissa spinarum</i>	Shrubs	Sub -tropical	Available	Available	Own Use	Fruits			Self observed
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Sub -tropical	Available	Available	Own Use	fruits/wood	Used for Diabetes		Self observed
Tree	Amb	<i>Mangifera indica</i>	Tree	Sub -tropical	Available	Available	Own Use	Fruits/Wood			Self observed
Tree	Soyanjana	<i>Moringa oleifera</i>	Tree	Sub -tropical	Available	Available	Own Use	Fruits/Wood			Self observed
Tree	Tunnu	<i>Toona ciliata</i>	Tree	Sub -tropical	Available	Available	Own Use	Wood			Self observed
Tree	Neem	<i>Azadirachta indica</i>	Tree	Sub -tropical	Available	Available	Own Use	Wood			Self observed
Tree	Amlı	<i>Phyllanthus emblica</i>	Tree	Sub -tropical	Available	Available	Own Use	wood			Self observed

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
Sl. No.	plant	Local Name	Scientific Name	Importance (as economic, social, cultural etc.)	Status
1		Khair	<i>Acacia catechu</i>	Social and Economic	Available
2		Exotic Acacia	<i>Acacia farnesana</i>	Social and Economic	Available
3		Kikkar	<i>Acacia nilotia</i>	Social and Economic	Available
4		safed Siris	<i>Albizzia procera</i>	Social and Economic	Available
5		kala siris	<i>Albizzia lebeck</i>	Social and Economic	Available
6		Kawar gandal	<i>Aloe barbandensis</i>	Social and Economic	Available
7		Chaleri Saag	<i>Amaranthus viridis</i>	Social and Economic	Available
8		Neem	<i>Azadirachta indica</i>	Social and Economic	Available
9		bamboo	<i>Bambusa bamboos</i>	Social and Economic	Available
10		Bhang	<i>Cannabis sativa</i>	Social and Economic	Available

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				
Barrain	<i>Acorus calamns</i>		Medicinal herb	Aquatic	good	good	gastritis			
Akk	<i>Ipomea carnea</i>		bush	Aquatic	good	good	anticancer			
White Water lily	<i>Nymphaea spp</i>			Aquatic	good	good	diarrhea			
Waterhyme	<i>Hydrilla spp</i>			Aquatic	good	good				
Water hyacinth	<i>Eichornea crassipes</i>			Aquatic	good	good				

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					
Tree	Amla	<i>Phyllanthus emblica</i>	Wild	Sub-Tropical	Available	Available		Antibacterial	whole plant		locals
Herbs	Bhang	<i>Cannabis sativa</i>	Wild	Sub-Tropical	Available	Available		treats anxiety	whole plant		locals
Tree	Jamun	<i>Syzygium cumini</i>	Wild	Sub-Tropical	Available	Available		increases hb	fruit & seed		locals
Tree	Imli	<i>Tamarindus indica</i>	Wild	Sub-Tropical	Available	Available		treats indigestion	dried fruit		locals
Herbs	Giloe	<i>Tinospora sinensis</i>	Wild	Sub-Tropical	Available	Available		detoxify blood	stem		locals
Tree	Bahera	<i>Terminalia bellirica</i>	Wild	plains & lower hills	Available	Available		manage loss of appetite	dried fruit		locals
Tree	Kamala	<i>Mallotus philippensis</i>	Wild	Sub-Tropical	Available	Available		infection of intestines	fruit		locals
Tree	Kikar	<i>Acacia nilotica</i>	Wild	Sub-Tropical	Available	Available		stop gingivitis	Bark & branches		locals
Tree	Neem	<i>Azadirachata indica</i>	Wild	Sub-Tropical	Available	Available		Treats leprosy	bark, leaves		locals

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					
Chaleri Saag	<i>Amaranthus Viridis</i>		Sub-Tropical	Available	Available	protect against oxidative stress	leaves			Farmer
Jangli Putna	<i>Mentha arvensis</i>		Sub-Tropical	Available	Available	digestive health	leaves			Farmer
Wild onion	<i>Allium canadense</i>		Sub-Tropical	Available	Available	anti-inflammatory properties	bulb, stem, flower			Farmer
Wild oats	<i>Avena fatua</i>		Sub-Tropical	Available	Available	moderate stress	seeds			Farmer

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

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					
Herb	Bhrami buti	<i>Centella asiatica</i>		Sub-Tropical	good		treat respiratory problems	leaf			Gardeners
Herb	Khas khas	<i>Chrysopogon Zizanoides</i>		Sub-Tropical	good		boosts immune system	Seeds			gardeners
Tree	Amar bel	<i>Cuscuta reflexa</i>		Sub-Tropical	good		Treats gastrointestinal problems	seeds			Gardeners
Tree	Amla	<i>Phyllanthus emblica</i>		Sub-Tropical	good		Prevent viral infections	Berries			Gardeners
Tree	Imli	<i>Tamarindus indica</i>		Sub-Tropical	Good		Stomach disorders	fruit			Gardeners
Herb	Pudina	<i>Mentha arvensis</i>		Sub-Tropical	Good		Treats stomach woes	leaves			Gardeners
Shrub	Tulsi	<i>Ocimum sanctum</i>		Sub-Tropical	Good		Ayurvedic medicines	leaves			Gardeners

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)	Other details	Community/ Knowledge Holder
						Past	Present					
Mammals	Chital	<i>Axis axis</i>		Orange coat with white spots		rare	rare					
Mammals	Squirrel	<i>Sciuridae</i>		medium sized rodents		Plenty	plenty					
Mammals	Fox	<i>Vulpes</i>				rare	rare					
Mammals	Jackal	<i>Canis aureus</i>				rare	plenty					
Mammals	Jungle Cat	<i>Felis chaus</i>		reed cat		rare	rare					
Mammals	Leopard	<i>Panthera pardus</i>				rare	rare					
Birds	Pigeon	<i>Columbidae</i>				plenty	plenty					
Birds	Bee eater	<i>Meropidae</i>				plenty	plenty					
Mammals	Monkey	<i>Simiiformes</i>				plenty	plenty					
Mammals	Deer	<i>Cervidae</i>				Plenty	plenty					
Mammals	Nilgai	<i>Boselaphus tragocamelus</i>				Plenty	plenty					
Mammals	Barasingha	<i>Rucervus duvaucelii</i>				Plenty	plenty					
Birds	Peacock	<i>Pavo cristatus</i>				Plenty	plenty					

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.)

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
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
	none	

End of Part II