

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti : Manyal Lower	
Taluk: Thannamandi	
District: Rajouri	
State: Jammu And Kashmir	
Geographical Area of the Panchayat Samiti: 471	No of Households : 345
Population under the Panchayat Samiti: Total 1397	
Male: 687 Female: 710	
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	
Management Regime: Reserve Forest (RF)/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Managed Fore	

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 : Haji Karamat Ullah	
Age: 63 Yrs	
Gender:Male	
Address: Manyal Lower	
Area of specialization: Distt. Office Ladakh	
2) Name:Shazia Kosser w/o Shanawaz	
Age: 27 Yrs	
Gender:Female	
Adress:Manyal Lower	
Area of specialization:	
3) Name:Zahida Parveen w/o Liaqat Ali	
Age: 27 Yrs	
Gender:Female	
Adress:Manyal Lower	
Area of specialization:	
4) Name:Mohd Taj s/o Abdul Aziz	
Age: 36 yrs	
Gender:Male	
Adress:Manyal Lower	
Area of specialization: Ex - Serviceman	
5) Name: Shahmim Akhter w/o Mohd Zubair	
Age: 35 yrs	
Gender:Female	
Adress:Manyal Lower	
Area of specialization:	
6) Name:Robina Kosser w/o Mumtaz Hussain	
Age: 34 yrs	
Gender:Female	
Adress:Manyal Lower	
Area of specialization:	
7) Name :Mohd Khan s/o Sultan Khan	
Age: 53 yrs	
Gender:Male	
Adress:Manyal Lower	
Area of specialization: VLW	

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 : Mohd. Azam Khan

Age: 62

Gender: Male

Address: Manyal

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:

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:

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: GN Kamlak
Age: 61
Gender:male
Adress:Manyal Lower
Area of specialization:
2) Name of the Chairperson: Abdul Rashid s/o Gulam Mohd.
Age: 40
Gender: Male
Adress:Manyal Lower
Area of specialization: Agriculture
3) Name of the Chairperson
Age:43yrs
Gender:male
Adress:Manyal Lower
Area of specialization:
4) Name of the Chairperson:
Age:52yrs
Gender:male
Adress:Manyal Lower
Area of specialization:

Annexure 4

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

1) Contact Person: RDD

Name and Address: Mohd Khan (Secretary pyt)

2) Contact Person: G N Kamlak s/o

Name and Address: Manyal

3) Contact Person: Shahnawaz Khan s/o Gulam Nabi

Name and Address: Manyal

4) Contact Person: Shazia Houser w/o Shah Nawaz

Name and Address: Manyal

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
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil
	Nil	Nil	Nil	Nil	Nil

End of Part I

FORMAT-1: CROP PLANTS

S.No	Crop	Scientific Name	Local Name	Variety	Land Scape / Habitat	Approx area sown	Local Status		Special feature	Cropping season	Uses
							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
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
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
4	Mustard	<i>Brassica juncea</i>	Sarson	Pusa bold, Gobi Sarson, KOS-1	Cool & dry		Normal	Normal	Matures in 145-150 days with 40-42 % oil content	Rabi	Source of energy
Vegetables											
a	Okra	<i>Avenmoschus esculentus</i>	Bhindi	Arka Anamika, Versha Uphar, PS, PK,	sub tropical & intermediate		Normal	Normal	Green Veg	Kharif	Green Veg
b	Brinjal	<i>Solanum melongena</i>	Bangun	PPL,PPC, PH4, BR112	sub tropical & intermediate		Normal	Normal	Green Veg	Kharif	Green Veg
c	Brottle Gourd	<i>Lagenaria siceraria</i>	Kaddu	PSPL, Punjab Komal	sub tropical & intermediate		Normal	Normal	Green Veg	Kharif	Green Veg
d	Knol Khol	<i>Brassica oleracea</i>	Kadam	King of Market , White Vienna, Purple Vienna	sub tropical & intermediate		Normal	Normal	Green Leafy Veg	Rabi	Swollen stem and leaves are consumed as vegetable
e	Cauliflower	<i>Brassica oleracae var.botrytis</i>	Ful gobi	Pusa Snow Ball, Pusa Katki, Girja	sub tropical & intermediate		Normal	Normal	-	Rabi	Curd used as vegetable
g	Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa Rubi,Pusa Early Dwarf, Manisha Plus/ local	Sub Tropical & intermediate		Normal	Normal	-	Kharif	Rich in Ascorbic acid

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						
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	
Grapes	<i>Vitis vinifera</i>	Angoor	Local Dakh, Perlette,	subtropical, Mid hills	rare	rare	Nurseries	July-August		Fruit		
Apple	<i>Malus domestica</i>	Sabe	Red Delcious, Golden Delocious, Maharaji, American etc.	Temperate	rare	plenty	Nurseries	Aug- Oct.		fruit, value addition	Marketing , 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 Burzal,	Mid hills	plenty	plenty	Nurseries	June-July		Fruit	own use	
Walnut	<i>Juglans regia</i>	Akrote	Kagzi, hard shelled	Temperate	plenty	plenty	Nurseries, locally raised	sept-Oct		Dry fruit	Marketing , 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	
Persimmon	<i>Diospyrus kaki</i>	Amlook	Local	Mid hills /Temperate	rare	rare	locally raised	July-August		fruit	Marketing	
Olive	<i>Olea europea</i>	Khao, jaiton	Local, Carotina	Mid hills /Temperate	rare	rare	locally raised	August-October		fruit	Marketing	

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

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

S.No	Plant	Scientific Name	Local Name	Affected Crop	Impact	Land Scape / Habitat	Local Status		Uses if Any	Management Options	Associated TK
							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
2	Parathenium	<i>Parthenium hysterophorus</i>	Congress grass	All crops	Allelopathy effect, reduce yield	Sub Tropical/intermediate	Rare	Plenty	Nil	Chemical / Manual Control	Abnoxious weed difficult to manage
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
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
5	Bhang	<i>Cannabis sativa</i>	Bhang	Maize, Wheat, Vegetables	Allelopathy effect, Compete with crops	Sub Tropical/intermediate	Plenty	Plenty	psychoactive effects	Chemical / Manual Control	intoxicating causes dehydration, nausea and headache
6	Barnyard grass	<i>Achinocloa crusgalli</i>	Swanki	Rice/Maize	Compete with crops	Sub Tropical/intermediate	Plenty	Plenty	Fodder & Animals	Chemical / Manual Control	nil
7	Nut Grass	<i>Cyprus rotandus</i>	Dilla/Motha	Paddy,maize, vegetable	Perennial	Agri. & Non Agri. Land	Plenty	Plenty	Fodder & Animals	Physical, Mechanical, Chemical	Nil

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

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	July to sept	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>Aphidoidea spp.</i>	Aphid/ Tella	Sub Tropical /Intermediate	Dec-March	Chemical control	-	Nil	Farmers

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
Sale and Purchase of Animals at Local and Individual Level								

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
Muslims	Farmers/ Govt and Private Employees	Farming								

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
Agriculture	Pond	Fallow land											
Hilly area													

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
Bowli								By panchayat				Yes
Springs												

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						
	Fagoda	<i>Ficus Carica</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Kainth	<i>Pyrus Pashia</i>				Good	Seed	Spring	Timber		Own use	GN Kamlakh
	Apple	<i>Malus domestica</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Peach	<i>Pranus perisica</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Akhroot	<i>Junglas Regia</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Pear	<i>Pyrus spp</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Apricot	<i>Pranusarenica</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Amlokh	<i>Plum Persimon</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Plum	<i>Pranus Salicinia</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh
	Citrus	<i>Citrus spp.</i>				Good	Seed	Spring	Fruit		Own use	GN Kamlakh

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	harduli	<i>Rhododendron spp.</i>		Forest	natural			cough treatment	flower		own use	aware
Herb	gucchi	<i>Morchella esculanta</i>		Forest	natural			antiboitic	fruit		own use	aware
Shrub	Simblu	<i>Berberies lycium</i>		forest	natural			anti-boitic	leaves, root		own use	aware

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					

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					

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

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

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				

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

Format 22 : wild Plants of Medicinal impoartance

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					
Herb	Gucchi	<i>Morchelah spp.</i>		Forest	Good	average			whole		
shrub	Maslona			Forest	Good	average			roots		
shrub	Patla			Forest	Good	average			leaves		
	Kandoor			Forest	Good	average			Whole		

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					

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

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
	Maize and maize flour is usually exported to Jammu and adjoining areas.	

End of Part II