

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

Name of the Panchayat Samiti: MAKHANPUR

Taluk/Tehsil: Miran Sahib

District: Jammu

State/UT: Jammu And Kashmir

Geographical Area of the panchayat Samiti: 144.9 ha

Population Of the Panchayat samiti... Total= 3441

Male= 1855

Female = 1586

Habitat and Topography: Plains

Climate (Rainfall, Temperature and other weather patterns): 38°C in summer 7°C in winter

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

Date, Month and Year of PBR preparation: 30.06.2022

**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)**

S.No.	Category	Name	Age	Gender	Adress	Area of Specialization
1	Chairperson	DILDAR SINGH S/O LAAB SINGH	64	M	MP GUJJRNA	
2	Member	JAGAT RAM S/O SHARDA RAM	71	M	MP GUJJRNA	
3	Member	TAJINDER KOUR W/O DALEEP SINGH	48	F	MP GUJJRNA	
4	Member	KAVITA KUMARI D/O MADAN LAL	26	F	MP GUJJRNA	
5	Member	GURDEEP SINGH S/O KIRPAL SINGH	47	M	MP GUJJRNA	
6	Member	AMARJEET SINGH S/O MOHINDER SINGH	44	M	MP GUJJRNA	
7	Member	RAJINDER SINGH S/O ISHER SINGH	54	M	MP GUJJRNA	

**Annexure-2**

**Block :MIRAN SAHIB**

**Panchayat:MAKHANPUR GUJJRAN**

**List of Vaid, hakims and traditional health care (Human and livestock) practitioners residing and using biological resources occurring within the jurisdiction of the village**

1)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:

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:

<b>Annexure 3</b>
<b>Block :MIRAN SAHIB</b>
<b>Panchayat:MAKHANPUR GUJJRAN</b>
<b>List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry</b>
1) Name of the Chairperson: <b>SUKHVEER SINGH</b>
Age: <b>40</b>
Gender: <b>Male</b>
Address: <b>Makhanpur</b>
Area of specialization: <b>Agriculture</b>
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:** Gurdeep singh (Agriculture)

**Name and Address:** Makhanpur

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**



**Part II**

**AGROBIODIVERSITY**

**Format 1 Crop Plants**

S.No	Crop	Scientific Name	Local Name	Description of the variety	Landscape / Habitat	Local status		Special features	Uses	Associated TK	Other details	Cropping Season	Source of Seeds / Plants	Community / Known. Holder
						Past	Present							
1	Rice	<i>Oryza sativa</i>	Dhan/ Munji	B-370(Fine & Long duration) Basmati 1121/(Coarse K39 K434 Rattana & Long duration)	Planes / Low laying Areas	Normal	Normal	Basmati 370 is world wise known for its aroma	Food & Fodder	Provides energy fragrance and taste	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
						Normal	Normal	Medium tall Coarse Grains						
2	Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PBW644	Cool Climate during early part of its growth	Plenty	Plenty	High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Private Suppliers	Farmers
3	Onion	<i>Allium cepa</i>	Gamd	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas	Abundant	Abundant	Bulbs Cash Crop	Vegetables	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Private Suppliers	

4	Mustard	<i>Brassica juncea/ Brassica compestris</i>	Sarson	Pusa Bold/ KOS -1	Cool & dry	Normal	Normal	Matures in 145-150 days with 40-42 % oil content	oil for Food	Source of energy i	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers
5	Gobhi Sarson	<i>Brassica napus</i>	Gobhi Saria	GSL-1,DGS-1 ,Local	Cool & dry	Normal	Abundant	Annual Herb,yellow flowers bearing Pods	oil for Food,leaves used as vegetable	Source of energy i,calciam,copper,potassium	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers
6	Potato	<i>Solanum tuberosum</i>	Aalo	Kufri Sindhuri,Kufri Badsha, local	Potato is an herbaceous annual,requires cool weather,mostly rainfed conditions	Abundant	Abundant	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 n energy value	Rabi	Farmers / Department/ Private Suppliers	Farmers
7	Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropica/sub tropicall vegetable,grows well warm humid conditions	Abundant	Abundant	Pungency and flavor	Used as spice ,medicinal value	-	Contains good ammount of vitamin A&C	winter season	Farmers / Department/ Private Suppliers	Farmers



8	Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa rubi,Pusa early dwarf, Manisha Plus/local	Warm season crop	Abundant	Abundant	Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,salad, soup, Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
9	Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropicall vegetablHot and humid climate	Abundant	Abundant	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dieta fibers, protein and carbohydrates ry	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
10	Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local,JL	Grows in all climatoic conditions,Tropical,Sub tropical &temprate	Abundant	Abundant	Limbing annual bearing elongated thick cylendrical fruit	Mainly used as salad	-	It also used asantipyretic and causing cooling effect	Summer/ Kharif	Farmers / Department/ Privaate Suppliers	Farmers
11	Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer &rainy season crop	Abundant	Abundant	Vines vigorous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/ kharif	Farmers / Department/ Privaate Suppliers	Farmers
12	Bitter gourd	<i>Momordica charantia</i>	karela	Pusa Domausmi/Kundan	Warm and Humid climate	Abundant	Abundant	Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maitaining low suger level	Summer/ kharif	Farmers / Department/ Privaate Suppliers	Farmers

13	Beans	<i>Phaseolus Spp.</i>	Phaliya	Contender	Cool weather crop/Sandy/loamy soil	Abundant	Abundant	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High vale protein, Vitamine B1, B2, B6 and Maganese	Summer season	Farmers / Department/ Private Suppliers	Farmers
14	Cauliflower	<i>Brassica oleraceae var. botrytis</i>	Fol gobi	Pusa snow ball, Pusa Katki, local Girja	Both sub tropical & intermediate	Abundant	Abundant	White and tender head, curd formed from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein, carbohydrate, phasphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
15	Cabbage	<i>Brassica oleraceae var. capitata</i>	Band gobi	Golden Acre, Pride of India, Green Flesh	Both sub tropical & intermediate	Abundant	Abundant	Round head with light to dark green colour	Head Mainly used as vegetable, salad	-	Also good source of protein, carbohydrate, phasphorus & iron	Rabi	Farmers / Department/ Private Suppliers	Farmers
16	Knol khol	<i>Brassica oleraceae var. gongyloides</i>	Kadam	White vienna, Purple vienna	cool & moist climate/sub tropical	Abundant	Abundant	Swollen stem, green/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Private Suppliers	Farmers
17	Spanich	<i>Spinacea oleracea</i>	Palak	All Green, Delta	Cool season Crop, thrives well on well drained loam soils	Abundant	Abundant	Tender green leaves & root used as Vegetable	Tender green leaves used as leafy Vegetable	-	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Private Suppliers	Farmers

18	Radish	<i>Raphanus sativus</i>	Mulli	Japane White ,Koren Etc	Cool season Crop, thrives well on well drained Sandy loam soils	Abundant	Abundant	Tender green leaves & roots used as Vegetable	Modified Roots are used as Vegetable & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Private Suppliers	Farmers
19	Carrot	<i>Daucus carota</i>	Gajer	Pusa Kesar, local	Cool & moist climate/ sub tropical & intermedite	Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable, Salad, Juice, Sweet Dish, Preserve etc.	-	Good source of carotene, lutein, and zeaxanthin. Vitamin A, C, B6, Folic acid	Rabi	Farmers / Department/ Private Suppliers	Farmers
20	Turnip	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool & moist climate/ sub tropical & intermedite	Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable, Salad, .	-	Good source of Vit. C, Dietary Fiber & Potasium	Rabi	Farmers / Department/ Private Suppliers	Farmers

**Format 2: Fruit Plants**

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder
					Past	Present						
Mango	<i>Mangifera indica</i>	Aam	Desi, Dusheri, Malta	Plains	Plenty	Plenty	Nurseries	Jun-Aug		Fruit, Pickle, Preserves	Marketing, Own Use	Nil
Citrus Fruit	<i>Citrus spp.</i>	Galgal, Nimbu, Santra, Kinnoo etc.	Local Selection, Kagzi Lime etc.	Plains, mid hills	Plenty	Plenty	Nurseries	Through Out Year		Fruit, Pickle, Squashes etc	Marketing, Own Use	
Litchi	<i>Litchi chinensis</i>	Litchi	Culcatta, Dehradun	Plains	Plenty	Plenty	Nurseries	Jul - Aug		Fruit	Marketing	
Guava	<i>Psidium guajava</i>	Amrood	Local, L49 etc.	Plains, Lower Hills	Plenty	Plenty	Nurseries	Jul - Aug		Fruit	Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Anjoor	Local Dakh, Perlette	Plains, Mid Hills	Rare	Plenty	Nurseries	Jul - Aug		Fruit		
Papaya	<i>Carica papaya</i>	Papita	Local	Plains	Rare	Plenty	Nurseries, Locally Raised	Aug - Oct		Fruit	Own Use	

Watermelon	<i>Citrullus lanatus</i>	Tarbutj	local	plains	rare	Plenty	locally raised	May-Sept		fruit	marketing/ own use	
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**Format-3: Fodder Crop/ Species**

1	2	3	4	5	6	7	8	9	10	11	12		
S. No.	Plant	Scientific Name	Local Name	Habit	Area (Approx.)Rabi/Kharif	Landscape/Habitat	Local Status		Part Used	Associated TK	Other details (mode of use)	Sources of Seeds and Plants	Community Kn. Holders
							Past	Present					
1	Barseem	<i>Trifolium alexandrium</i>	Chhatala	Annual	8030	Sub Humid & moderately cool	Abundant	Abundant	Entire Plant	Nutritious & palatable fodder, Source of energy for animals	Fodder	Farmers / Department/ Private Suppliers	Farmers
2	Sorghum	<i>Sorghum spp.</i>	cherri	Annual	6840	Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Fodder	Farmers / Department/ Private Suppliers	Farmers
3	Oats	<i>Avena fatua</i>	Javi	Annual			Abundant	Abundant	Above ground part of plant		Fodder		

**Format 04 :Weeds**

1	2	3	4	5	6	7	8		9	10	11	12
S. No.	Plant	Scientific Name	Local Name	Affected Crop	Habit	Landscape/ Habitat	Local Status		Uses if any	Management options	Associated TK	Other details
							Past	Present				
1	Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Also Used as medicinal herb
3	Nut Grass	<i>Cyperus rotundus</i>	Dilla/Motha	Paddy,maize, sugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Tradionally used as medicine
4	Barnyard Grass	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil
5	Carrot grass	<i>Parthenum hysterophorus</i>	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Abundant	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage	
7	Canary Grass	<i>Phalaris minor</i>	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land

10	Bang	<i>Cannabis indica</i>	Bang	Kharif Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	#REF!
11	Nilibuti	<i>Ageratum conyzoides</i>	Nilibuti	Rabi Crops	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	#REF!
12	Dub Grass	<i>Cynodon dactylon</i>	Dub Grass	Rabi/ Kharif	Perennial	Agri. & wasteLand	Abudant	Abudant	Fooder	Mechanical, Chemical	Nil	Agri. & wasteLand
13	Wild oats	<i>Avena fatua</i>	Jangli Javi	Oats	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutratve Fodder for Animals
14	Wild Rice	<i>Echinochloa colonum</i>	Swanki	Paddy	Annual herb	Sub Tropical	Rare	Rare	Fodder	Above ground parts	-	Nutratve Fodder for Animals
16	Wild onion	<i>Allium humile</i>	Jangli payas	Onion	Annual herb	Temprate/sub tropical	Rare	Rare	Food and medicine	All parts used	-	-

13
<b>Community Knowledge Holders</b>
Farmers
Farmers
Farmers
Farmers
Farmers





**Format-5: Pests of Crops**

1	2	3	4	5	6	7	8	9	10
Host	Scientific Name	Insect /Animals	Local Name	Habitat	Time / Season of Attack	Management mechanism	Associated TK	Other Details	Community /Knowledge Holder
Mustard aphid	<i>Lipaphis erysimi</i>	aphid	Sucking pest	Attacks mustard & other cucurbit crops	Dec-March	Timely sowing of crop & Chemical, Biological & Mechanical	-	Major threat to oil seed crops of Rabi	Farmers
Termite	<i>Microtermis obesi/ Odontoremes obesus</i>	Telle	Chewing & biting	Wheat & other crops	Nov-May	Cultural & Chemical measures	-	Major threat to unirrigated crops	Farmers
Blister beetle	<i>Mylabris spp.</i>	Ghori	Chewing & biting	Attacks Maize, Bhindi & Pulses	June-Oct	Mechanical& Chemical measures	-	Insectivorous feed on grasshopper	Farmers
Maize stem Borer	<i>Chilo partellus</i>	Sundi /Tana-shedak	Chewing & biting	Attacks Maize, sorghum , Bajra & sugarcane	July to sept	Mechanical& Chemical measures	-	Causes dead hearts in young plants	Farmers
Cut worm	<i>Agrotis ipsilon</i>	Ludi	Cuts stem and leaves	Wheat sorguham maize and other	Throughout the year	Mechanical& Chemical measures	-	Major threats	Farmers
Wheat	<i>Puccinia stiriiformis</i>	yellow rust							

**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

**Note:** [1] (D) – day; (M) – month;

[2] **Types of animals may include:** Poultry / Sheep / Goats / Cattle / Ducks / Pigs / Donkeys / Mules / Horses / Camels / Others (Specify)



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**

**Panchyat Name :MAKHANPUR GUJJRAN**

1			2	3	4	5	6	7	8	9	10	11
Major Landscapes			Sub - Landscapes	Features and approx. Area	Ownership	General flora	General fauna	User groups	Management practices	General uses	Associated TK	Other details
Agricultural land	Pond	Fallow Land										
Plains			Plains	Flat sweeping landmass with small change in elevation	Private ,state lands,	Broad leaved mainly Tali, Beri,Jamun, Amb,Kikar, Bohr,Drenk, Dhub Grass	Domestic animals	Public,as well as pvt,and Govt also		Asthetic and Scenic beauty in Urban areas		

Provide a brief description of landscapes such as forests, plantations, cultivated land, estuary, pond, lake or other elements

<b>12</b>
<b>Community accessed</b>

**Format 9: Waterscape****Panchyat Name : MAKHANPUR GUJJRAN**

1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Waterscape element type</b>	<b>Sub- type</b>	<b>Features and approx area</b>	<b>Ownership</b>	<b>General flora</b>	<b>General fauna</b>	<b>Major uses</b>	<b>User groups</b>	<b>Management practices</b>	<b>General uses</b>	<b>Associated TK</b>	<b>Other details</b>	<b>Community accessed</b>
Ponds			Forest land and Private land	kamal,Baryan,	Frogs , fishes, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	Public					
Tube well			Forest land and Private land		Frogs , fishes, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	Public					
Canals			Private		Frogs , fishes, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	Public					
Hand pumps			Private		Frogs , fishes, snakes, snail,	Cattles, washing cloths, irrigation, Drinking etc	Public					



**Format 10: Soil type****Panchyat Name :MAKHANPUR GUJJRAN**

S.No.	Soil	Type	Colour	Features	Soil management	Plants/Crop Suitable	Flora and Fauna	Associated TK	Other Information
1	Sandy Loam	Type B	Soft Dark	Large particle size, Water drains Rapedily	Add compost, humus, Green Manuring, Decomposed manure etc improves soil quality for better plant growth	Beans, Tomato, Potato, Cucumber, onion, eggplants, carrot, Spinach etc.	Succulants like cacti, Lambs ear, etc.	-	Genrally not suitable for plants which need lot of water
2	Clay Loam	Type A	Light yellow to raddish colour	Small particles size, Texture dense and compact, retains water and nutrition	Provide good drainage, add organic manure in the form of compost or humus	Plants/Crop Suitable	Ornamental Plants/ grasses, plants with evergreen leaves, colourful Berries	-	Soil is good for wild varieties of crops, however drainage is a problem

**Format 11 Fruit tree**

1	2	3	4	5	6	7		8	9	10	11	12	13
Plants	Scientific Name	Local Name	Variety	Habit	Landscape / Habitat	Local Status		Source of Plants / Seeds	Seasons of Fruiting	Uses (Usages)	Associated TK	Others Details Market / Own Use	Community / Know Holder
						Past	Present						
Mango	<i>Mangifera indica</i>	Aam	Desi, Dusheri, Malta	Alternate Bearing	Plains	Plenty	Plenty	Nurseries	Jun-Aug	Fruit, Pickle, Preserves		Marketing, Own Use	
Citrus Fruit	<i>Citrus spp.</i>	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	Local Selection, Kagzi Lime etc.	Tree, Regular Bearing	Plains, mid hills	Plenty	Plenty	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc		Marketing, Own Use	
Guava	<i>Psidium guajava</i>	Amrood	Local, L49 etc.	Tree, Regular Bearing	Plains, Lower Hills	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Angoor	Local Dakh, Perlette	Vine, Regular Bearing	Plains, Mid Hills	Rare	Plenty	Nurseries	Jul - Aug	Fruit			
Jamun	<i>Syzygium cumini</i>	Jamun	Local Selection	Tree, Regular Bearing	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit		Own Use	

Papaya	<i>Carica papaya</i>	Papita	Local	Tree	Plains	Rare	Plenty	Nurseries, Locally Raised	Aug - Oct	Fruit		Own Use	
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Watermelon *Citrullus lanatus* Tarbuj local plains rare Plenty Local May - Aug fruit

**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	Community/ Know.
						Past	Present					
Herbs	Jungli putna	<i>Mentha arvensis</i>		Lower shiwalik/Temp erate area	Stem/Seed	Abundant	Abundant	Medicinal	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal	Leaves	N.A	N.A	Generally, held by community
Herbs	Bhang	<i>Canabis sativa</i>		Lower shiwalik	Seed	Abundant	Abundant	Medicinal	Leaves	N.A	N.A	Generally, held by community
Tree	Bair	<i>Ziziphus marutiana</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal	Stem	N.A	N.A	Generally, held by community
Tree	Jamun	<i>Syzygium cumini</i>		Lower shiwalik	Seed	Abundant	Abundant	Medicinal	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Amla	<i>Emblica officinalis</i>		Lower shiwalik	Seed	Rare	Rare	Medicinal	Leaves/Bark	N.A	N.A	Generally, held by community

Holy Basil	Tulsi	<i>Ocimum tenuiflorum</i>		lower shivalik		Abundant	Abundant	Antioxidant
Aloe vera	Aloe vera	<i>Aloe barbadensis</i>		lower shivalik		Abundant	Abundant	Antibacterial
Climber	Giloe	<i>Tinospora cordifolia</i>		lower shivalik		Good	good	

**Format 13: Ornamental Plants/ Trees/Climbers etc.**

1	2	3	4	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial/ non-commercial	Uses	Associated TK	Other details	Community/ Know. holder
Tree	kringal	Casia fistula		Flower Fruit	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Gandera	Nerium oleander		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Tree	Thub	Erythrina indica		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Climber	Kareer	Rosa acicularis		Seed	Non-Commercial	N.A	N.A	N.A	Generally, held by community
Bushes/	Marigold	<i>Tagetes erecta</i>		Nurseries		Ornamental/ Landscaping		Flower throughout the year	

**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					
Trees	Kiker	<i>Acacia nilotica</i>	Lower shiwalik	Rare	Rare	Wild	Own	Nil	Nil	Generally, held by community
Trees	Mangoo	<i>Mangifera indica</i>	Lower shiwalik	Abundant	Abundant	Wild/ home-garden	Own	Nil	Nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundant	Wild	Commercial	Nil	Nil	Generally, held by community
Trees	Sree	<i>Albizia lebbeck</i>	Lower shiwalik	Abundant	Abundant	Wild	Own	Nil	Nil	Generally, held by community
Trees	Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	Wild	Own	Nil	Nil	Generally, held by community
Trees	Jammun	<i>Syzygium cumini</i>	Lower shiwalik	Rare	Abundant	Wild	Own	Nil	Nil	Generally, held by community

### 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					
Cattle	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	Jersey Gau	<i>Bos taurus</i>	CB Jersey	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
	Amrecan Gau	<i>Bos taurus</i>	CB HF	Black and white spot	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Buffalo	Manj	<i>Bubalus bubalis</i>	Local	Low yield	stall feeding	Abundant	Decreased	Dairy	Nil	No	Milk	All
	Punjabi Mais	<i>Bubalus bubalis</i>	Murrah /Graded	Black color body	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Poultry	Parrot	<i>Psittaciformes</i>	Local	parrot green in colour with red beak	Backyard	few	Decrease	decorative	Nil	No	Nil	All
Poultry	Pigeon	<i>Columbidae</i>	Local	white color , fast growing	Backyard	few	Decrease	decorative	Nil	No	nil	All
Dog	Kutta	<i>canis familiares</i>	Local	Nil	Pet ,Stray	Abundant	Abundant	Nil	Nil	No	Nil	All / stray



**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/T alao)	Local status		Uses	Associated TK	Commercial Rearing	Other details	Community Knowledge Holders
						Past	Present					
Fish	Malli	<i>Wallago attu</i>	Local	Stream lined body, Barbels, scaleless, Cat fish	Tawi River	Available	Available	Own & Commercial use			Used as food as source of protein	

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
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/ own use	Part collected	Associated TK	Other details
					Past	Present				
Tree	Tali	<i>Dalbergia sissoo</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Stem, Timber	-	-
Tree	Khair	<i>Acacia catechu</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	Katha	-
Tree	Amla	<i>Emblica officinalis</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Fruit	Food processing	-
Tree	Siris	<i>Albizia lebbek</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial own use	Timber/ Firewood	-	-
Tree	Simbal	<i>Bombax ceiba</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tree	Kamila	<i>Mallotus philippensis</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial /own use	Timber/ Firewood	-	-
Tree	Krangal	<i>Cassia fistula</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-

1	2	3	4	5	6		7	8	9	10
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/ own use	Part collected	Associated TK	Other details
					Past	Present				
Tree	Ber	<i>Ziziphus jujuba</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Fruit	-	-
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tree	Santha	<i>Dodonaea viscosa</i>	Shrubs	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tree	Amb	<i>Mangifera indica</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Fruit	-	-
Tree	Kiker	<i>Acacia nilotica</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tree	Safeda	<i>Eucalyptus</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tree	Neem	<i>Azadirachta indica</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Climber	Amar bel	<i>Cuscuta reflexa</i>	Climber	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-

1	2	3	4	5	6		7	8	9	10
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/ own use	Part collected	Associated TK	Other details
					Past	Present				
Grass	Doob grass	<i>Cynadon dactylon</i>	Grass	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Shurb	Dhatura	<i>Datura stramonium</i>	Shurb	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Shurb	Arnid	<i>Ricinus communis</i>	Shurb	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Climber	Giloe	<i>Tinospora cordifolia</i>	Climber	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Shurb	Bana	<i>Vitex negundo</i>	Shurb	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Tree	Bel	<i>Aegle marmelos</i>	Tree	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Shurb	Drenkeri	<i>Murraya koengii</i>	Shurb	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-
Herb	Congress grass	<i>Parthenium hysterophorus</i>	Herb	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-

1	2	3	4	5	6		7	8	9	10
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial/ own use	Part collected	Associated TK	Other details
					Past	Present				
Herb	Chaleri saag	<i>Amaranthus viridis</i>	Herb	Farmlands & Urban areas	Good	Moderate	Commercial/ own use	Timber/ Firewood	-	-









<b>11</b>
<b>Community Knowledge Holder</b>
-

**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	Lal Gandila	<i>Nerium indicum</i>	Shrub	Aesthetic	Good
2	Daduni	<i>Punica grantum</i>	Shrub	Live Hedge fencing	Good
3	Brenkar	<i>Adhatoda vasica</i>	Shrub	Medicinal	Good
4	Aak	<i>Calotropis gigantea</i>	Shrub	Medicinal	Good
6	Bana	<i>Vitex negundo</i>	Shrub	Medicinal	Good
7	Bhang	<i>Cannabis sativa</i>	Shrub	Medicinal	Good
10	Neem	<i>Azadirachta indica</i>	Wild	Social and Economic	Available
11	bamboo	<i>Bambusa bamboos</i>	Wild	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 Holders
					Past	Present				
Sol	<i>Channa marulius</i>	Local	Snakehead fish, Air Breathing Fish	Fresh Water	Available	Available	Own & Commercial use	Used as food as source of protein	-	40%
Malli	<i>Wallago attu</i>	Local	Stream lined body, Barbels, scaleless, Cat fish	Tawi River	Available	Available	Own & Commercial use	Used as food as source of protein		

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

1	2	3	4	5	6
Sl.No	Local Name	Scientific Name	Variety	Importance	Trends
1	Auk	<i>Ipomoea cornea</i>		cure respiratory diseases	
2	Kumudene	<i>Nymphoides indica</i>		Wound healing	
3	Water Hyacinth, Floating Weed	<i>Eichhornia crassipes</i>	Invasive	Can be used to make compost, Mulching & to Clean Sewage	Free Floating Weed

**Format 22: Wild Plants of Medicinal Importance**

1	2	3	4	5	6		7	8	9	10
Plant (Herb,Shrub, Tree)	Local Name	Scientific Name	Variety	Landscape/Habitat	Local Status		Uses (usage)	Part used	Other details market/own use	Community / Knowledge Holder
					Past	Present				
Tree	Amla	<i>Emblica officinalis</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-
Tree	Jamun	<i>Syzygium cumini</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-
Tree	Ber	<i>Ziziphus jujuba</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-
Tree	Neem	<i>Azadirachata indica</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Leaves	-
Shurb	Dhatura	<i>Datura stramonium</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Fruit	-
Climber	Giloe	<i>Tinospora cordifolia</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Stem	-
Shurb	Bana	<i>Vitex negundo</i>		Alluvial plain/Farm lands	Good	Good	-	Medicinal	Leaves	-
Herbs	Bhang	<i>Cannabis sativa</i>	Wild	Sub-Tropical	Available	Available		treats anxiety	leaves	





<b>10</b>
<b>Community / Know holder</b>
Farmer
Farmer
Farmer
Farmer

**Format 24: Ornamental Plants**

1	2	3	4	5	6	7	8
Local Name	Scientific Name	Variety	Habitat	Commercial/Non-Commercial Uses	Associated TK	Any other Detail	Community/Knowledge Holder
Lal Gandila	<i>Nerium oleander</i>	Shrub	Farm land	-	-	-	-
Kaneer	<i>Thevetia peruviana</i>	Tree	Farm land	-	-	-	-
Bougainvillea	<i>Bougainvillea glabra</i>	Shrub	Farm land	-	-	-	-
Krangal	<i>Cassia fistula</i>	Tree	Farm land	-	-	-	-
Hibiscus	<i>Hibiscus rosasinensis</i>	Tree	Nurseries	Non commercial			



### Format26: 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				
Shisham	<i>Dalbergia sissoo</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	-
Ber	<i>Ziziphus jujuba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	-
Safeda	<i>Eucalyptus</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	-
Simbal	<i>Bombax ceiba</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	-
Jamun	<i>Syzygium cumini</i>	Northern/Sub-Tropical	Good	Moderate	Commercial/ own use		Timber/ Firewood	-
Khair	<i>Acacia catechu</i>	Subtropical/ Tropical	Plenty	Plenty	Wood contains catechin and tannin		Timber/ Firewood	
Peepal	<i>Ficus religiosa</i>	Subtropical/ Tropical	Plenty	Plenty	Commercial/ own use		Timber/ Firewood	





<b>10</b>
<b>Community/ Knowledge Holder</b>

**Format 28: Wild Animal (Mammals,Birds,Reptiles,Amphibia,Insects,others)**

1	2	3	4	5	6	7		8	9	10	11
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local status		Uses ,if any	Associated TK	Other Details	Community Knowledge Holder
Wild Animal	Squirrels	<i>Sciuridae</i>	Farmland	-	-	Past	Present	-	-	-	-
						Good	Good				
Wild Animal	Pig	<i>Sus domesticus</i>	Farmland	-	-	Good	Good	-	-	-	-
Wild Animal	Jackal	<i>Canis aureus</i>	Farmland	-	-	Good	Good	-	-	-	-
Wild Animal	Crow	<i>Corvus splendens</i>	Farmland	-	-	Good	Good	-	-	-	-
Wild Animal	Bee	<i>Apis cerana indica</i>	Farmland	-	-	Good	Good	-	-	-	-
Wild Animal	Frog	<i>Anura spp.</i>	Farmland	-	-	Good	Good	-	-	-	-
											-



**Format 29: Flora****URBAN BIODIVERSITY**

1	2	3	4	5	6	7
Sr. No.	Local Name	Scientific Name	Type of Plants	Habitat	Flowering Season	Remarks (Rare / Common etc.)
1	kikar	<i>Acacia nilotica</i>	Broad leave	Sub tropical	Summer	Common
2	Mango	<i>Mangifera indica</i>	Broad leave	Sub tropical	Summer	Common
3	Safeda	<i>Eucalyptus spp.</i>	Broad leave	Sub tropical	Summer	Common
4	Sree	<i>Albizzia lebeck</i>	Broad leave	Sub tropical	Summer	Common
5	Talli	<i>Dalbergia sissoo</i>	Broad leave	Sub tropical	Summer	Common
7	Popular	<i>Populus ciliata</i>	Broad leave	Sub tropical	Summer	Common
9	Jammun	<i>Syzygium cumini</i>	Broad leave	Sub tropical	Summer	Common

**Format 30: Fauna**

1	2	3	4	5	6
S.No	Local Name	Scientific Name	Type of Animals ( Mammals /Birds/Fish/Insects etc.)	Habitat	Remarks(Rare/common etc.
1	Cow		Mammals	Terrestrial	Common
2	Buffalow		Mammals	Terrestrial	Common
3	Sheep		Mammals	Terrestrial	Common
4	Goat		Mammals	Terrestrial	Common
5	Sparow		Birds	Terrestrial	Common
6	Crow		Birds	Terrestrial	Common
7	Parrot		Birds	Terrestrial	Common
8	Peacock		Birds	Terrestrial	Rare
9	Ant		insects	Terrestrial	Common
10	Bee		insects	Terrestrial	Common

11	Butterfly		insects	Terrestrial	Common
12	Mosquito		insects	Terrestrial	Common
13	Caterpillar		Insects	Terrestrial	Common
14	Fish		Aquatic Animals	Aquatic	Common
15	Frog		Aquatic Animals	Aquatic	Common
16	Tortoise		Aquatic Animals	Aquatic	Rare
17	Crocodile		Aquatic Animals	Aquatic	Rare

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

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