

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

Name of the Panchayat Samiti: MALIKPUR

Taluk/Tehsil: Miran Sahib

District: Jammu

State/UT: Jammu And Kashmir

Geographical Area of the panchayat Samiti: 109.7 ha

Population Of the Panchayat samiti...Total = 3265

Male= 1717

Female = 1548

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 | Address  | Area of Specialization |
|-------|-------------|---------------------------------|-----|--------|----------|------------------------|
| 1     | Chairperson | RAMESH LAL<br>S/O SAT PAUL      | 47  | M      | MALIKPUR |                        |
| 2     | Member      | INDER JEET<br>KOUR              | 44  | F      | MALIKPUR |                        |
| 3     | Member      | POLI DEVI W/O<br>RAJ KUMAR      | 45  | F      | MALIKPUR |                        |
| 4     | Member      | RAJ PAUL S/O<br>RAGHU RAM       | 50  | M      | MALIKPUR |                        |
| 5     | Member      | KULDEEP RAJ<br>S/O SEWA RAM     | 55  | M      | MALIKPUR |                        |
| 6     | Member      | SHIV RAM S/O<br>AMAR NATH       | 70  | M      | MALIKPUR |                        |
| 7     | Member      | TARSEM LAL<br>S/O DURHA<br>DASS | 56  | M      | MALIKPUR |                        |

**Annexure-2**

**Block:MIRAN SAHIB**

**Panchayat:MALIKPUR**

**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:

**Annexure 3**

**Block:**MIRAN SAHIB

**Panchayat:**MALIKPUR

**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: **Suraj dev**

Age: **45**

Gender: **Male**

Address: **Malikpur**

Area of specialization: **Agriculture**

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:**

**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**



**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/<br>Munji | B-370(Fine & Long duration)<br>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/<br>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/<br>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/<br>Private Suppliers |                           |

|   |              |   |             |                                    |  |          |          |  |   |   |  |               |  |         |
|---|--------------|---|-------------|------------------------------------|--|----------|----------|--|---|---|--|---------------|--|---------|
| 4 | Mustard      | <i>Brassica juncea/ Brassica comprestis</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/ Privaate 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/ Privaate 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/ Privaate Suppliers | Farmers |
| 7 | Chilli       | <i>Capsicum spp</i>                         | Mirchi      | Pusa Jawala, CH-1                  | Tropica/sub tropical 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/ Privaate 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 tropical Hot and humid climate                        | Abundant | Abundant | Tender green fruit used as vegetable                                   | Mainly vegetable                      | Source of Fiber              | Contains diata fibers, protein and carbohydratesry                  | 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/ Privaate 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/ Privaate 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/ Privaate 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/ Privaate 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/ Privaate Suppliers | Farmers |

|    |        |                         |                 |                          |   |          |          |   |  |   |  |      |  |         |
|----|--------|-------------------------|-----------------|--------------------------|---|----------|----------|---|--|---|--|------|--|---------|
| 18 | Radish | <i>Raphanus sativus</i> | Mulli           | Japenes 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 Vegetabke & Salad                       | - | Full of vitamin A, C, E, B6, potassium, and other minerals,              | Rabi | Farmers / Department/ Privaate 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. Vit A,C,B6,Folic acid | Rabi | Farmers / Department/ Privaate 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,Diatry Fiber & Potasium                             | Rabi | Farmers / Department/ Privaate 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> | Tarbuaj | local | plains | rare | Plenty | locally raised | May-Sept |  | fruit | marketing/ own use |  |
|------------|--------------------------|---------|-------|--------|------|--------|----------------|----------|--|-------|--------------------|--|

**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/<br>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 |
| 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  |                             |
| 6      | Bur Clover     | <i>Medicago denticulata</i>    | Maina             | Wheat Grass Peas                               | Perennial herbaceous legume | Agri. Land            | Normal       | Normal   | Fodder, vegetable & green manure | Mechanical, Chemical           | Nil                                 | Improves Soil fertility     |
| 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>geratum conyzoid</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   | -   | Nutrativ<br>Fodder for<br>Animals |
| 14 | Wild Rice  | <i>Echinochloa colonum</i> | Swanki       | Paddy        | Annual herb | Sub Tropical          | Rare    | Rare    | Fodder            | Above ground parts   | -   | Nutrativ<br>Fodder for<br>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                            |



|         |
|---------|
| Farmers |
| 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 : MALIKPUR**

| 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<br/>accessed</b> |
|                               |
|                               |

**Format 9: Waterscape**

**Panchyat Name : MALIKPUR**

| 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 :MALIKPUR**

| 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,<br>Locally<br>Raised | Aug - Oct | Fruit |  | Own Use |  |
|--------|----------------------|--------|-------|------|--------|------|--------|---------------------------------|-----------|-------|--|---------|--|

Watermelon

*Citrullus lanatus*

Tarbutj

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/<br>Habitat                   | Source of<br>plant/seeds | Local status |          | Uses (usage) | Part used         | Associated<br>TK | Other details<br>market/own | Community/<br>Know.             |
|            |              |                           |         |   |                          | Past         | Present  |              |                   |                  |                             |                                 |
| Herbs      | Jungli putna | <i>Mentha arvensis</i>    |         | Lower<br>shivalik/<br>Temperate<br>area | Stem/Seed                | Abundant     | Abundant | Medicinal    | Leaves            | N.A              | N.A                         | Generally, held by<br>community |
| Shrubs     | Bareyan      | <i>Acorus calamus</i>     |         | Lower<br>shivalik                       | Seed                     | Rare         | Rare     | Medicinal    | Leaves            | N.A              | N.A                         | Generally, held by<br>community |
| Herbs      | Bhang        | <i>Canabis sativa</i>     |         | Lower<br>shivalik                       | Seed                     | Abundant     | Abundant | Medicinal    | Leaves            | N.A              | N.A                         | Generally, held by<br>community |
| Tree       | Bair         | <i>Ziziphus marutiana</i> |         | Lower<br>shivalik                       | Seed                     | Rare         | Rare     | Medicinal    | Stem              | N.A              | N.A                         | Generally, held by<br>community |
| Tree       | Jamun        | <i>Syzygium cumini</i>    |         | Lower<br>shivalik                       | Seed                     | Abundant     | Abundant | Medicinal    | Leaves/Fruit      | N.A              | N.A                         | Generally, held by<br>community |
| Tree       | Karal        | <i>Bauhinia variegata</i> |         | Lower<br>shivalik                       | Seed                     | Rare         | Rare     | Medicinal    | Leaves/<br>Flower | N.A              | N.A                         | Generally, held by<br>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 shiwalik |      | Abundant | Abundant | Antioxidant   |             |     |     |                              |
| Aloe vera  | Aloe vera | <i>Aloe barbadensis</i>     |  | lower shiwalik |      | Abundant | Abundant | Antibacterial |             |     |     |                              |
| Climber    | Giloe     | <i>Tinospora cordifolia</i> |  | lower shiwalik |      | 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    | <i>Casia fistula</i>    |         | Flower Fruit          | Non-Commercial             | N.A                        | N.A           | N.A                        | Generally, held by community |
| Tree       | Gandela    | <i>Nerium oleander</i>  |         | Seed                  | Non-Commercial             | N.A                        | N.A           | N.A                        | Generally, held by community |
| Tree       | Thub       | <i>Erythrina indica</i> |         | Seed                  | Non-Commercial             | N.A                        | N.A           | N.A                        | Generally, held by community |
| Climber    | Kaneer     | <i>Rosa acicularis</i>  |         | Seed                  | Non-Commercial             | N.A                        | N.A           | N.A                        | Generally, held by community |
| Bushes/    | Marigold   | <i>Tagetes erecta</i>   |         | Nurseries             |                            | Ornamental/<br>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<br>(Pond/Bheri/T<br>alao) | Local status |           | Uses                       | Associated<br>TK | Commercial<br>Rearing | Other details                        | Community<br>Knowledge.<br>Holders |
|           |            |                     |         |  |                                      | Past         | Present   |                            |                  |                       |                                      |                                    |
| Fish      | Malli      | <i>Wallago attu</i> | Local   | Stream lined<br>body, Barbels,<br>scaleless, Cat<br>fish | Tawi River                           | Available    | Available | Own &<br>Commercial<br>use |                  |                       | Used as food as<br>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/<br>own use | Part<br>collected   | Associated TK   | Other details |
|            |            |                              |       |                         | Past         | Present  |                        |                     |                 |               |
| Tree       | Tali       | <i>Dalbergia sissoo</i>      | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial/<br>own use | Stem, Timber        | -               | -             |
| Tree       | Khair      | <i>Acacia catechu</i>        | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial/<br>own use | Timber/<br>Firewood | Katha           | -             |
| Tree       | Amla       | <i>Emblica officinalis</i>   | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial/<br>own use | Fruit               | Food processing | -             |
| Tree       | Siris      | <i>Albizzia lebbek</i>       | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial<br>own use  | Timber/<br>Firewood | -               | -             |
| Tree       | Simbal     | <i>Bombax ceiba</i>          | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial/<br>own use | Timber/<br>Firewood | -               | -             |
| Tree       | Kamila     | <i>Mallotus philippensis</i> | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial<br>/own use | Timber/<br>Firewood | -               | -             |
| Tree       | Krangal    | <i>Cassia fistula</i>        | Tree  | Farmlands & Urban areas | Good         | Moderate | Commercial/<br>own use | Timber/<br>Firewood | -               | -             |

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

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









**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      |
| 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/<br>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<br>(Herb,Shrub,<br>Tree) | Local Name | Scientific Name             | Variety | Landscape/Habitat         | Local Status |           | Uses (usage) | Part used      | Other details<br>market/own use | Community /<br>Knowledge<br>Holder |
|                                |            |                             |         |                           | Past         | Present   |              |                |                                 |                                    |
| Tree                           | Amla       | <i>Emblica officinalis</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                          | -                                  |
| Grass                          | Doob grass | <i>Cynadon dactylon</i>     |         | Alluvial plain/Farm lands | Good         | Good      | -            | Medicinal      | Leaves                          | -                                  |
| 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 | -                              | -             | -                | -                          |
| Gulmohar      | <i>Delonix regia</i>         | Tree    | Farm land | -                              | -             | -                | -                          |
| Krangal       | <i>Cassia fistula</i>        | Tree    | Farm land | -                              | -             | -                | -                          |
| Hibiscus      | <i>Hibiscus rosasinensis</i> | Tree    | Nurseries | Non commercial                 |               |                  |                            |



**Format 25:Fumigate/Chewing Plants**

| 1                              | 2           | 3                                 | 4       | 5                                    | 6            |         | 7                                | 8         | 9             | 10                               | 11                             |
|--------------------------------|-------------|-----------------------------------|---------|--------------------------------------|--------------|---------|----------------------------------|-----------|---------------|----------------------------------|--------------------------------|
| Plant<br>(Herb,Shrub,<br>Tree) | Local Name  | Scientific<br>Name                | Variety | Habitat                              | Local Status |         | Uses (Usage)                     | Part used | Associated TK | Other<br>details(mode of<br>use) | Community<br>/Knowledge holder |
|                                |             |                                   |         |                                      | Past         | Present |                                  |           |               |                                  |                                |
| Herb                           | Pudina      | <i>Mentha spp.</i>                |         | Homestead,<br>agricultural land      | Abudant      | Abudant | Spice                            | leaves    |               |                                  |                                |
| Tree                           | Curry tree  | <i>Murraya<br/>koenigii</i>       |         | Moist forest and<br>agricultral land | Abudant      | Abudant | Spice                            | leaves    |               |                                  |                                |
| Herb                           | Wild Tulsi  | <i>Ocimum<br/>sanctum</i>         |         | Moist soil                           | Abudant      | Abudant | Medicinal                        | leaves    |               |                                  |                                |
| Tree                           | Imli        | <i>amarindus indica</i>           |         | Sub-Tropical                         | good         | good    | Medicinal                        | fruit     |               |                                  |                                |
| Herb                           | Bhrami buti | <i>Centella<br/>asiatica</i>      |         | Sub-Tropical                         | good         |         | treat<br>respiratory<br>problems | leaf      |               |                                  | Gardeners                      |
| Herb                           | Khas khas   | <i>Chrysopogon<br/>Zizanoides</i> |         | Sub-Tropical                         | good         |         | boosts<br>immune<br>system       | Seeds     |               |                                  | gardeners                      |

### 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  |                                   |               |                  |                             |
| 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 |                             |





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|  |
| <b>10</b>                              |
| <b>Community/ Knowledge<br/>Holder</b> |
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**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 | Sparow     | <i>Passer domesticus</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    | -            | -             | -             | -                          |
| Mammals     | Jungle Cat | <i>Felis chaus</i>        |          | reed cat    |                  | rare         | rare    |              |               |               |                            |

Mammals

Monkey

*Simiiformes*

plenty

plenty

**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 lebbek</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<br>( Mammals /Birds/Fish/Insects<br>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 |
|         |                                 |         |