

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: Dhalpar

Block: Jaganoo

Taluk: Udhampur

District: Udhampur

State: J&K

Geographical Area of the Panchayat Samiti: 513 Hect.A389

Population under the Panchayat Samiti: Total: 2389

Male: 1239 **Female:** 1150

Habitat and Topography:

Climate (Rainfall, Temperature and weather patterns)

Land Use (Nine fold classification available with village records)

Date, Month and Year of PBR Preparation

Management Regime: Reserve Forest (RF)/Joint Forest Management(JGM)/Protected Areas(PA)/ Community Owned and Managed Forest(COM)

Annexure 1

Details of Biodiversity Management Committee (BMC) of the Panchayat (One elected Chairperson and six persons nominated by the local body ; not less than one third to be women and not less than 18% belonging to SC/ST)

1)Name of the Chairperson: Om Parkash

Age: 45 yrs

Gender: Male

Address: Dhalpar

Area of specialization: Sarpanch/ Chairman

2) Name: Dewan Chand S/o Kirthu Ram

Age: 68 yrs

Gender: Male

Address:Dhalpar

Area of specialization: Member

3)Name: Ankush Sharma S/o Madan Lal

Age: 25yrs

Gender: Male

Address: Dhalpar

Area of specialization: Member

4)Name: Noor Bano W/o Siraj Din

Age: 42 yrs

Gender: Female

Address: Dhalpar

Area of specialization: ST Member

5)Name: Pooja Sharma w/oo Vijay Kumar

Age: 30 yrs

Gender:Female

Address:Dhalpar

Area of specialization: Women Member

6)Name: Khan Mir S/o Beeru

Age: 70 yrs

Gender: Male

Address:Dhalpar

Area of specialization: Member

7)Name: Kamalveer Singh

Age: 45 yrs

Gender: Male

Address: Kulwanta

Area of specialization: Forest Guard/Secretary

Annexure-2

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

1) Name: Ankush Sharma S/o Madan Lal

Age: 28 yrs

Gender: Male

Address: Babial

Area of specialization: Hakim

Location from which the person accesses biological material: Surrounding Forest

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name: Hans Raj S/o Kirpa Ram

Age: 52 yrs

Gender: Male

Address: Dhalpar

Area of specialization: Hakim

Location from which the person accesses biological material: Surrounding Forest

Perception of the practitioner on the resource status:

Medicinal Use:

Annexure 3

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

1) Name of the Chairperson: Sunil Gupta

Age: 40yrs

Gender: Male

Address: Udampur

Area of specialization: Agriculture

2) Name of the Chairperson: Kamalveer Singh S/o Oveer Singh

Age:

Gender: Male

Address: R/o Kulwanta

Area of specialization: Forestry

Annexure 4

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

1) Contact Person:

Name and Address:

2) Contact Person:

Name and Address:

3) Contact Person:

Name and Address:

4) Contact Person:

Name and Address:

You may add names of more institutions/NGO/Individuals etc, if necessary

Annexure 5

Detail of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefit derived and the mode of their sharing

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

Part II
PBR – Formats
AGROBIODIVERSITY

Format 1: Crop Plants

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------|--------------------------|------------|----------------------------|---------------------|------------------------------|--------------|---------|--|-----------------|--------------------------|----------------------|----------------------------------|--|------------------------------|
| Crop | Scientific Name | Local Name | Variety | Landscape / Habitat | Approx. area shown (hectare) | Local Status | | Special features | Cropping season | Uses | Associated TK | Other details | Source of Seeds/Plants | Community / Knowledge Holder |
| | | | | | | Past | Present | | | | | | | |
| Rice | <i>Oryza Sativa</i> | Munji | Veliyan, Palm, Basmati | Lowland valleys | | Plenty | rare | Tall variety high yield resistant to drought, flood, pest & diseases | | Food Fodder Roofing Fuel | Provides more energy | Suitable for Valicha cultivation | Local/ Agri | Kurichiya Kuroma w. Cheny |
| Maize | <i>Zea mays</i> | Muck | Deela, Pinoor, Kauchau 517 | Hilly | | Plenty | Rare | Tall variety High yield Resistant to drought, flood, pest & diseases | Kharif | Food Fodder | Provides more energy | - | Farmers / Department/ Private dealers | Farmers/ Department |
| Wheat | <i>Triticum aestivum</i> | Kank | B 52, 2967/3086, 1080 | Hilly | | Normal | Plenty | Tall variety High yield Resistant to drought, flood, pest & diseases | Rabi | Food Fodder | Provides more energy | - | Farmers / Department/ Private dealers | Farmers/ Department |
| Mustard | <i>Brassica</i> | Sarso | Local | _do_ | | Normal | Normal | _do_ | Rabi | oilseed | _do_ | _ | seasonal govt seed store and shop also | |

The format 1 could be used for documenting information about Millets, Cereals, Oil seeds, Commercial crops, Tuber crops, Vegetables, Legumes, Aromatic crops etc. The column No. 9 'other details' vary with the nature of crops. For measuring local status, there need to identify a particular year – significant changes in ecology occurred – and compare the status as past and present (past = before the particular incident). We have to list out all possible features of a crop/plant and give short forms of the same. If relevant, cultivation practices, propagation techniques, usage etc can be included in the column 8, in associated TK.

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 | | | | | | |
| Pomegranate | <i>Punica granatum</i> | Anardana | Desi | Sub-Tropical | Normal | | Local seeds | | | Fruit | Own use | |
| Bair | <i>Ziziphus jujuba</i> | Ber | Desi | Sub-Tropical | Normal | | Local seeds | | | Fruit | Own use | |
| Peach | <i>Prunus persica</i> | Adu | Desi | Sub-Tropical | Normal | | Seeds | Summer | - | Fruit | Own use | Department/ Local |
| Mango | <i>Magnifera India</i> | Mango | Desi | Sub-Tropical | Normal | | Seeds | June, July | - | Fruit | Own use | |
| Banana | <i>Musa paradisiaca</i> | Kela | Desi | Sub-Tropical | Normal | | Seeds | June, July | - | Fruit | Own use | |
| Nakh | <i>Pyrus</i> | | Desi | Sub-Tropical | Normal | | Seeds | | | | | |
| | | Marsathra | Desi | Sub-Tropical | Normal | | Seeds | | | | | |
| Trimbal | <i>Ficus auriculata</i> | Trimbal | Desi | Sub-Tropical | Normal | | Seeds | June, July | | Fruit | Own use | |
| Garna | <i>Carissa spinarum</i> | Garna | Desi | Sub-Tropical | Normal | | Seeds | June, July | | Fruit | Own use | |
| Papaya | <i>Carica papaya</i> | Papita | Desi | Sub-Tropical | Normal | | Seeds | June, July | | Fruit | Own use | |

| | | | | | | | | | | | |
|---------------|----------------------------|--------|------|--------------|--------|-------|------------|--|-------|---------|--|
| Black berries | <i>Syzygium cumini</i> | Jamun | Desi | Sub-Tropical | Normal | Seeds | June, July | | Fruit | Own use | |
| Loquat | <i>Eriobotrya japonica</i> | Loquat | Desi | Sub-Tropical | Normal | Seeds | June, July | | Fruit | Own use | |

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|------------|------------------------------|------------|--|--|--|--|--|--|--|--|
| Goobmtal | | Goobmtal | | | | | | | | |
| Trimbal | <i>Ficus auriculata</i> | Trimbal | | | | | | | | |
| wheat | <i>Triticum aestivum</i> | kanak | | | | | | | | |
| | Trifolium | Shatail | | | | | | | | |
| Lamb grass | <i>Heteropogon contortus</i> | Lamb grass | | | | | | | | |
| Doob Grass | <i>Cynodon dactylon</i> | Doob Grass | | | | | | | | |

Other details include fodder for which animal, special features, medicinal uses if any, seasons of availability, propagation methods, collecting from wild or cultivated etc.

Format 4: Weeds

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 |
|------------|--------------------------------|----------------|---------------|--------|---------------------|--------------|---------|-------------|--------------------|---------------|---------------------------|------------------------------|
| Plant | Scientific Name | Local Name | Affected crop | Impact | Landscape / Habitat | Local Status | | Uses if any | Management options | Associated TK | Other details like exotic | Community / Knowledge Holder |
| | | | | | | Past | Present | | | | | |
| Panjphuli | <i>Lantana camara</i> | Panjphuli | All crops | | Sub-Tropical | Rare | More | | | | | |
| Putna Jari | | Putna Jari | All crops | | Sub-Tropical | Rare | More | | | | | |
| | <i>Parthenum hysterophorus</i> | Congress Grass | All crops | | Sub-Tropical | Rare | More | | | | | |

Other details may include how long the weeds have been suppressing/adversely affecting the crops in this locality, when it came under notice, intensity of natural multiplication etc

Format 5: Pests of Crops

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|---------------------|------------------------------|--------------|-------------------|-------------------------|-------------------------------|---------------|---|----------------------------|
| Host | Insect / Animal | Scientific Name | Local Name | Habitat | Time / Season of Attack | Management Mechanism | Associated TK | Other Details | Community Knowledge Holder |
| | Indian Fox | <i>Vulpes bengalensis</i> | | | May-June | | | | |
| | Field rats | <i>Rattus meltda</i> | fpri- | Attacks all crops | July | Mechanical& Chemical measures | - | Cause extensive damage to almost all crops,attacks humans | Farmers/ General Public |
| | Rice Grass Hoppers | <i>Hicreoglyphus banayan</i> | | | - | | | | |
| | Monkey | <i>Macaca mulatta</i> | Bander/ Tolo | Attacks all crops | - | Mechanical& Chemical measures | - | Cause extensive damage to almost all crops,attacks humans | Farmers/ General Public |
| | Woolly Aphid | Eriosoma lenigerum | | | - | | | | |
| Rice | Yellow Stem Barrier | Crick Blate | | | | | | | |

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|--|----------|--|--|--|--|--|--|--|--|
| | Koo | | | | | | | | |
| | Chandroo | | | | | | | | |
| | Seey | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Other details may include possible reasons for insects/animal attack | | | | | | | | | |

Format 6: Markets for Domesticated animals

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|--|--|---|--|--|---|---|-----------------------------|-----------------------|
| Name of the market & location | Weekly (D)/ Fortnightly (D) / Monthly (D) / Biannual (M) / Annual (M) [1] | Types of animals bought and sold [2] | Types and Average Number of animals transacted in a day | Places from which animals are brought | Places to which the animals are sold / transported | Name and location of fish market | Types of fishes sold | Source of fish |
| | | | | | | | | |

NO ORGANISED MARKET

Note: [1] (D) – day; (M) – month;

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

Format 7: Peoplescape

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-----------------------------------|--|-----------------------|----------------------------|---|---------------------------------------|--------------------------------------|---------------------|-------------------------|------------------------------|-------------------|
| Community & Population | Families & Major Occupation | Sub-Occupation | Depending Landscape | Major resources accessed and seasons of access | Landscape Management Practices | Resource Management Practices | Cast / Tribe | Social Condition | Nature of Inhabitants | No. of HHs |
| | Farmer | Agriculture | | | | | | SC, ST, Gen | | |
| | | | | | | | | | | |
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Major occupation may be farming. Sub-occupations could be fishing, collection of NTFP animal husbandry, artisans, services Examples of depending landscapes are agriculture landscape, rivers, forest etc.

Major resources accessed could be agriculture resources of different nature, fish, birds, water, mud, and etc

How the community manages the landscapes they use for satisfying different needs, their strategies and perception

How the community manages the resources they access for satisfying different needs, their strategies and perception, conflicts etc

Format 8: Landscape

| 1 | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----------------------|------|-------------|---------------------------------|---------------------------|--|------------------------------|---------------|-------------|---|-------------------------|------------------------------------|---------------|--------------------|
| Major Landscapes | | | Sub - Landscapes | Features and approx. area | Ownership | General Flora | General Fauna | User groups | Management Practices | General Uses | Associated TK | Other Details | Community Accessed |
| Agricultural Land | Pond | Fallow Land | | | | | | | | | | | |
| Cultivated Land | - | - | Cultivated Land | | Agricultural Lands are privately owned | Wild Plants / Weeds | Insect | - | Ploughing, Sowing, weeding, hoeing, harvesting etc. | Food, Foder, Fibre etc. | Medicinal, Traditional, Religious. | - | Self Observed |
| Non- Cultivated Land | - | - | Non- Irrigated Area/ State Land | | Agricultural Lands are privately owned | Wild Plants / Weeds | Insect | - | - | Foder | Medicinal, Traditional, Religious. | - | Self Observed |
| Grazing Land | - | - | State Land | | Govt/Private | Wild Plants / Weeds/ Grasses | Insect | - | - | Foder | Medicinal, Traditional, Religious. | - | Self Observed |

The above information is not exhaustive and relevant additional information to be filled up by the concerned departments.

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

Format 9: Waterscape

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|-------------------------|-----------|----------------------------------|--------------------------|--|--------------------------------------|------------------------------|---------------------------------|---|---|---------------|---------------|---------------------------|
| Waterscape Element Type | Sub- Type | Features and Approx Area | Ownership | General Flora | General Fauna | Major Uses | User Groups | Management Practices | General Uses | Associated TK | Other Details | Community Accessed |
| Stream | - | Direct small underground streams | Revenue/ Private Land | Mostly Ferns, Bryophytes, Pteridophytes | Amphibians | Daily household and drinking | All the people of the said area | Traditionally management practices for strengthening of bunds and deepning of tank beds | Drinking & Washing Clothes | - | - | General People of Village |
| Nalas | - | Direct small underground streams | Revenue/ Private Land | All crops including fruits, vegetables & Flowers | Frog, Tadpoles, Fishes, Water snakes | Irrigation | Farmer | Check Dams | Irrigation, drinking of domestic animal | - | - | Local villagers |
| | | | Revenue | | Grass carp, frog, water, snakes | | | | | | | |

Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc.,

Format 10: Soil type

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------------|----------------------|---|-----------------|---|---|--------------------------------------|-------------------|
| Soil Type | Color & Texture | Features | Soil Management | Plants / Crop Suitable | Flora and Fauna | Associated TK | Other Information |
| Sandy Soil | Brown/Red/ Yellow | Well drained soil, adequate FYM & nitrogen content, prone to soil erosion due to steep slope | Sandy Loam | Kharif crops like Maize, Sorghum etc. Rabi crops like Wheat, Mustard etc. & other crops like cucurbits etc. | Flora: Fagada, Shisham, Dhaman, Retha, Sehtoot, Aru, Jamun, Gargle, Papita etc. Fauna: Billi, Dog, Cow, Sheep, Goat, Horse, Mule etc. | Religious/ Medicinal/ Traditional | - |
| Sandy Soil | Brown/Red/ Yellow | Well drained soil, adequate FYM & nitrogen content | Sandy Clay Loam | Kharif crops like Maize, Paddy etc. Rabi crops like Wheat, Mustard etc. & other crops like cucurbits etc. | Flora: Fagada, Shisham, Dhaman, Retha, Sehtoot, Aru, Jamun, Gargle, Papita etc. Fauna: Billi, Dog, Cow, Sheep, Goat, Horse, Mule etc. | Religious/ Medicinal/ Traditional | - |
| Red soil | | | | | | | |

The above information is not exhaustive and relevant additional information to be filled up by the concerned departments.

Format 12: Medicinal Plants (Herbs, Shrubs, Trees etc.)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 |
|------------|------------|------------------------------------|---------|-------------------------|--------------------------|--------------|----------------|--|--|--------------------------|------------------------------------|--------------------------------|
| Plant Type | Local Name | Scientific Name | Variety | Landscape/ Habitat | Source of Plant/Seeds | Local status | | Uses (usage) | Part used | Associated TK | Other details market/own use | Community/ Know. Holders |
| | | | | | | Past | Present | | | | | |
| Tree | Kainth | <i>Pyrus pashia</i> | Wild | Revenue/Private Land | Local | Available | Own use | Leaves, fruits | Leaves are used for staining purposes and fruits are edible | Traditional Medicines | - | Self observed |
| Tree | Kau | <i>Olea cuspidata</i> | Wild | Revenue/Private Land | Available | Available | Own use | Stem, branches | Stem and branches are used for making handles of agricultural tools. | Unknown | - | Self observed |
| Tree | Draink | <i>Melia azedarach</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Antioxidant, antianalgesic, antidiabetic | Leaves and Seed | Own use | - | Self observed |
| Tree | Kamila | <i>Mallotus philippinensis</i> | Wild | Revenue/Private Land | Available | Available | Staining agent | Dying and herbal remedies | Fruit | Own use | - | Self observed |
| Tree | Karangal | <i>Cassia fistula</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Amla | <i>Emblica officianalis</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |

| | | | | | | | | | | | | |
|-------|--------------|-----------------------------|------|----------------------|-----------|-----------|---------------------------|---|-------------------------|---------|---|---------------|
| Tree | Katriad | <i>Bauhinia Verigata</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Flai | <i>Acacia nilotica</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Jamun | <i>Syzzium cumini</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Kakar singhi | <i>Pistacia integerrima</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Arjuna | <i>Terminilia arjuna</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Retha | <i>Sapindus mukorossi</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Tree | Behra | <i>Terminilia bellirica</i> | Wild | Revenue/Private Land | Available | Available | | | | Own use | - | Self observed |
| Shrub | Bana | <i>Vitex negundu</i> | Wild | Revenue/Private Land | Available | Available | Medicinal and religious | Muscle relaxant, pain relieving | Leaves | Own use | - | Self observed |
| Shrub | Brainkad | <i>Adhadoda vasica</i> | Wild | Revenue/Private Land | Available | Available | Medicinal and traditional | Treatment of bronchitis, cough and cold | Stem, flower and leaves | Own use | - | Self observed |

| | | | | | | | | | | | | |
|-------|---------------|----------------------------|------|----------------------|-----------|-----------|-----------|---|------------------------|---------|---|---------------|
| Shrub | Lal Gandila | <i>Nerium indicum</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Medicinal properties like anthelmintic, diuretic, cardio tonic, anti cancer | Roots, leaves and bark | Own use | - | Self observed |
| Shrub | Kewda | <i>Agave americans</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Medicinal properties | Whole plant | Own use | - | Self observed |
| Shrub | Aloe vera | <i>Aloe vera</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Medicinal properties | Whole plant | Own use | - | Self observed |
| Shrub | Barrains | <i>Acorus Calamus</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | | | | | |
| Herb | Kins | <i>Dioseoria Deltoidea</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | | | | | |
| Herb | Bhang | <i>Cannabis Sativa</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | | | | | |
| Herb | Brahmni Butti | <i>Centella Asiastica</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | | | | | |
| Herb | Kadi Pata | <i>Murraya koenigii</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Antibacterial, antidiabetic | Leaves | Own use | - | Self observed |

| | | | | | | | | | | | | |
|---------|---------|-----------------------------|------|----------------------|-----------|-----------|-----------|---|----------------|----------------|---|---------------|
| Climber | Geloy | <i>Tinospora cardifolia</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Used to treat diabetics, high cholesterol, allergy, upset stomach, gout | Stem, branches | Own use | - | Self observed |
| Climber | Mlungad | <i>Bauhinia vahlii</i> | Wild | Revenue/Private Land | Available | Available | Medicinal | Antibacterial, antidiabetic, analgesic, anti-inflammatory | Leaves, Stem | Market/Own use | - | Self observed |

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 | Gaay | <i>Bosindicus</i> | Local | Humped | Semiintensive | Large | Less | Milk | Milk good for brain | Nil | Ghee, curd,Butter, kaladi,cheese | Farmer |
| | Jersey | <i>Bos Tarus</i> | Jersey Hybrid | Humpless | Stallfed | Less | Large | drought milk | Milk good for brain | Yes | Ghee, curd,Butter, kaladi,cheese | Farmer |
| | HF | <i>Bos Tarus</i> | Hforos | Humpless | Stallfed | Less | Large | drought milk | Milk good for brain | Yes | Ghee, curd,Butter, kaladi,cheese | Farmer |
| | Sahiwal | <i>Bosindicus</i> | Local | Humped | | Less | Large | drought milk | Milk good for brain | No | Ghee, curd,Butter, kaladi,cheese | Farmer |
| OX | Beal | <i>Bosindicus</i> | Local/Hybrid | Humped | Semiintensive | Large | Less | | Ploughing | No | Ploughing, carting | Farmer |
| Buffalo | Bhains | <i>Bubblous</i> | Local/Hybrid | Humpless | Semiintensive | Large | Less | Milk | Ploughing | No | Ploughing, carting | Farmer |
| | | <i>Bubalis</i> | | | | | | | | | | |
| Buffox | Saand | <i>Bubblous</i> | Local/Hybrid | Humpless | Semiintensive | Large | Less | Ploughing | Ploughing | No | Ploughing, carting | Farmer |
| | | <i>Bubalis</i> | | | | | | | | | | |
| Goat | Bakri | <i>Capra Hercus</i> | Local/Hybrid | - | Domesticated | Available | Available | Milk, Meat | - | Yes | Meat, Milk,Hide | Farmer, Bakerwal,shepherd |
| Sheep | Bhed | <i>Ovisovis</i> | Local/Hybrid | - | Domesticated | Available | Available | Meat | - | Yes | Meat and wool | Farmer, Bakerwal,shepherd |

| | | | | | | | | | | | | |
|-------|---------|---------------------|--------------|---|----------------------|-----------|-----------|--------------|---|----|-------------------|---------------------------|
| Dog | Kutta | <i>Cannis lupus</i> | Local/Hybrid | - | Pet/ Domesticated | Available | Available | Guarding | - | No | Guarding/security | Individual |
| Cat | Billi | <i>Felis Catus</i> | Local | - | Domesticated | Available | Available | Pest Control | - | No | - | - |
| Horse | Ghorda | <i>Equscabalus</i> | Local/Hybrid | - | Domesticated | Available | Available | Drought | - | - | Drought, racing | Individual horse owner |
| Mule | Khachar | - | Local | - | Domesticated | Available | Available | Drought | - | - | drought | Mule Owner |
| | | | | | | | | | | | | |

Uses include milk, meat, skin, fur and etc

Format 16: Culture Fisheries

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 |
|------------------------|-------------|------------------------------------|--------------|-----------|--------------------------------------|---|--|--------------------|------------------|-----------------------|--|-------------------------------------|
| Fish Type | Local Name | Scientific Name | Variety | Features | Waterscape (Pond/Bheri/ Talao) | Local status | | Uses | Associated TK | Commercial Rearing | Other details | Community Know. Holders |
| | | | | | | Past | Present | | | | | |
| Panchayat Barta | | | | | | | | | | | | |
| Carp | Rohu | <i>Labeo rohita</i> | IMC's | Bony Fish | (Pond/Bheri/ Talao) | Carp culture was taken up after the year 2002. | Carp Culture is being taken up with the facilitation of the department. | Human Food Fish | Partial | Yes | Mode of Catching Fish:- Drag Netting , Cast Netting etc., Breeding Time:- Monsoon season and Common Carp also breeds during the month of March and April. Fish Seed is procured from the differnet Farms of the Department. Traditionally Feeding is done by mixing Mustard Oil Cake Rice Bran, Wheat Bran,Crushed Maize etc. But now a days formulated pelleted feed is also available. | Yes, Among Farming Community. |
| | Mrigal | <i>Cirrhinus mrigla</i> | | | | | | | | | | |
| | Catla | <i>Catla catla</i> | | | | | | | | | | |
| | Common Carp | <i>Cyprinus carpio</i> | Exotic Carps | | | | | | | | | |
| | Grass Carp | <i>Ctenopharyngodon idella</i> | | | | | | | | | | |

WILD BIODIVERSITY
Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers etc.

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 |
|------------|---------------|------------------------------|-------|---------|--------------|---------|----------------------|----------------|---------------|---------------|----------------------------|
| Plant Type | Local Name | Scientific Name | Habit | Habitat | Local status | | Commercial / Own Use | Part Collected | Associated TK | Other Details | Community Knowledge Holder |
| | | | | | Past | Present | | | | | |
| Tree | Phulai or Fly | <i>Acacia modesta</i> | | Wild | | | | | | | |
| Tree | Talli | <i>Dalbergia sissoo</i> | | Wild | | | | | | | |
| Tree | Jamun | <i>Syzygium cumini</i> | | Wild | | | | | | | |
| Tree | Karangal | <i>Casia fistula</i> | | Wild | | | | | | | |
| Tree | Khair | <i>Acacia catechu</i> | | Wild | | | | | | | |
| Tree | Palash | <i>Butea monosperna</i> | | Wild | | | | | | | |
| Tree | Kakarsinghi | <i>Pistacia intergerrima</i> | | Wild | | | | | | | |
| Tree | Ber | <i>Ziziphus mauritiane</i> | | Wild | | | | | | | |
| Shrub | Santha | <i>Dodonaea viscosa</i> | | Wild | | | | | | | |
| Shrub | brankad | <i>Adha toda vesica</i> | | Wild | | | | | | | |

| | | | | | | | | | | | |
|-------|-----------------|----------------------------|--|------|--|--|--|--|--|--|--|
| Herb | Simlu | <i>Berberis lyceum</i> | | Wild | | | | | | | |
| Shrub | Anardana | <i>Punica granatum</i> | | Wild | | | | | | | |
| Tree | Indian Ash tree | <i>Lanea coromandelica</i> | | Wild | | | | | | | |
| Shrub | | <i>Bauhinia vahii</i> | | Wild | | | | | | | |

Format 19: Wild Plant Species of Importance

| 1 | 2 | 3 | 4 | 5 | 6 |
|-------|------------|-------------------------|---------|--|--------|
| S.No. | Local Name | Scientific Name | Variety | Importance (as Economic, Social, Cultural etc.) | Status |
| 1 | Talli | <i>Dalbergia sissoo</i> | | | |
| 2 | Simlu | <i>Berberis lyceum</i> | | | |
| 3 | Anardana | <i>Punica granatum</i> | | | |
| 4 | Khair | <i>Acacia catechu</i> | | | |
| | | | | | |

Format 21: Wild Aquatic Plant Species of Importance

| 1 | 2 | 3 | 4 | 5 | 6 |
|-------|------------|----------------------|---------|---|--------|
| S.No. | Local Name | Scientific Name | Variety | Importance | Trends |
| 1 | Aak | <i>Ipomea carnea</i> | Wild | Used as firewood, Medicinal Value, Bicompost. | |
| 2 | Duck Weed | <i>Lemna minor</i> | Wild | Source of food for aquatic water fowl, Animal Fodder, Waste water nutrients recovery. | |
| 3 | Bariyan | <i>Acorus spp.</i> | Wild | Has medicinal value | |
| | | | | | |
| | | | | | |
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Format 22: Wild Plants of Medicinal Importance

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 |
|---------------------------|---------------|------------------------------|---------|---------------------|--------------|---------|---------------|--------------|-----------|-------------------------------|-----------------------------|
| Plant (Herb, Shrub, Tree) | Local Name | Scientific Name | Variety | Landscape / Habitat | Local Status | | Associated TK | Uses (usage) | Part used | Other details Market/ Own Use | Community/ Knowledge Holder |
| | | | | | Past | Present | | | | | |
| Tree | Kamila | <i>Mallotus philippensis</i> | | Revenue/Pvt | Available | | | | | | |
| Herb | Simlu | <i>Berberis lyceum</i> | | Revenue/Pvt | Available | | | | | | |
| | Jamun | <i>Syzygium cumini</i> | | Revenue/Pvt | Available | | Medicinal | | | | |
| | Kakarsinghi | <i>Pistacia intergerrima</i> | | Revenue/Pvt | Available | | | | | | |
| | Retha | <i>Sapindus Mukorossii</i> | | Revenue/Pvt | Available | | Medicinal | | | | |
| | Bana | <i>Vitex negundo</i> | | Revenue/Pvt | Available | | Medicinal | | | | |
| | Flai | <i>Acacia Modesta</i> | | Revenue/Pvt | Available | | | | | | |
| Tree | Draink | <i>Melia azedarach</i> | | Revenue/Pvt | Available | | | | | | |
| | Akk Datura | <i>Calotropis procera</i> | | Revenue/Pvt | Available | | | | | | |
| Herb | Jungli Pudina | <i>Mentha arvensis L</i> | | Revenue/Pvt | Available | | | | | | |
| Tree | Santha | <i>Dodonaea viscosa</i> | | Revenue/Pvt | Available | | Medicinal | | | | |

Note: Uses: Food/Veterinary Medicine/Human Medicine (Sub-divisions like for children, women etc)/Agricultural Purpose (Bio-pesticide)

Other details: Harvesting period /Perennial/annual/seasonal

Format 23: Wild relatives of Crops

| 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 8 | 9 | 10 |
|------------|-----------------|-----------------|---------------------|--------------|---------|--------------|-----------|---------------|---------------|-------------------------|
| Local Name | Scientific Name | Associated Crop | Landscape / Habitat | Local Status | | Uses (usage) | Part Used | Associated TK | Other details | Community / Know holder |
| | | | | Past | Present | | | | | |
| Nil | Nil | Nil | Nil | Nil | | Nil | Nil | Nil | Nil | Nil |
| | | | | | | | | | | |
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Note: Other details may include 'function as a substitute plant' in the absence of a particular plant

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|---------------------------------------|
| 11 |
| Community knowledge holder |
| Local |
| Local |
| Local |
| Local |
| Local |
| Local |
| |
| |
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| |

| 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 | Fagada | <i>Ficus palmata</i> | Tree | Scattered tree found in village area | Mar-Apr | Common |
| 2 | Shisham | <i>Dalbergia Sissoo</i> | Tree | Scattered tree found in village area | Feb-Mar | Common |
| 3 | Dhaman | <i>Grewia optiva</i> | Tree | Sub-tropical | Oct-Nov | Common |
| 4 | Retha | <i>Sapindus mukorossi</i> | Tree | Sub-tropical/Mostly found in villages | Feb-Mar | Common |
| 5 | Sehtoot | <i>Morus serrata</i> | Tree | Sub-tropical/Mostly found in villages | Feb-Mar | Common |
| 6 | Kalasree | <i>Albizia lebbek</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 7 | Tunu | <i>Toona ciliata</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 8 | Kharak | <i>Celtis australis</i> | Tree | Sub-tropical | Oct-Nov | Common |
| 9 | Poplar | <i>Populus ciliata</i> | Tree | Temperate | Oct-Nov | Common |
| 10 | Kamilla | <i>Mallotus philippinensis</i> | Tree | Sub-tropical | Feb-Mar | Common |

| | | | | | | |
|----|--------|-----------------------------|-------|--|---------|--------|
| 11 | Aru | <i>Prunus persica</i> | Tree | Temperate/Scattered tree found in village area | Feb-Mar | Common |
| 12 | Gargle | <i>Citron</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 13 | Flai | <i>Acacia nilotica</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 14 | Jamun | <i>Syzzium cumini</i> | Tree | Sub-tropical | Mar-Apr | Rare |
| 15 | Draink | <i>Melia azedarach</i> | Tree | Sub-tropical | Nov-Dec | Common |
| 16 | Papita | <i>Carica papaya</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 17 | Simbal | <i>Bombyx ceiba</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 18 | Bael | <i>Aegel marmelos</i> | Tree | Sub-tropical | Feb-Mar | Common |
| 19 | Arjuna | <i>Terminilia arjuna</i> | Tree | Sub-tropical | Jan-Feb | Common |
| 20 | Retha | <i>Sapindus mukorossi</i> | Tree | Sub-tropical | Jan-Feb | Rare |
| 21 | Behra | <i>Terminilia bellirica</i> | Tree | Sub-tropical | Jan-Feb | Common |
| 22 | Safeda | <i>Eucalyptus globulus</i> | Tree | Sub-tropical | Mar-Apr | Rare |
| 23 | Bana | <i>Vitex negundu</i> | Shrub | Sub-tropical | Feb-Mar | Common |

| | | | | | | |
|----|--------------|------------------------------|-------|-------------------------|---------|--------|
| 24 | Brainkad | <i>Adhadoda vasica</i> | Shrub | Sub-tropical | Mar-Apr | Common |
| 25 | Lal Gandila | <i>Nerium indicum</i> | Shrub | Sub-tropical | Mar-Apr | Common |
| 26 | Barrain | <i>Acorus calamus</i> | Herb | Sub-tropical | - | Common |
| 27 | Bhang | <i>Cannabis sativa</i> | Herb | Sub-tropical | Oct-Nov | Common |
| 28 | Brahmi Butti | <i>Centella asiatica</i> | Herb | Sub-tropical | Mar-Apr | Rare |
| 29 | Geloy | <i>Tinospora cardifolia</i> | Shrub | Sub-tropical | - | Rare |
| 30 | Mlungad | <i>Bauhinia vahlliwight</i> | Shrub | Sub-tropical | Feb-Mar | Rare |
| 31 | Garna | <i>Carissa spinarum</i> | Shrub | Sub-tropical | Feb-Mar | Common |
| 32 | Sentha | <i>Dodonea viscosa</i> | Shrub | Sub-tropical | Feb-Mar | Rare |
| 33 | Timbru | <i>Zanthoxylum armatum</i> | Shrub | Sub-tropical/ Temperate | Jan-Feb | Rare |
| 34 | Datura | <i>Datura Inooxa</i> | Shrub | Sub-tropical | Mar-Apr | Rare |
| 35 | PanjPhulli | <i>Lantana Camera</i> | Shrub | Sub-tropical | Mar-Apr | Common |
| 36 | Lassini | <i>Leucaena Leucocephala</i> | Shrub | Sub-tropical | Mar-Apr | Common |

| | | | | | | |
|----|----------------|-----------------------------|-------|-------------------------|----------|--------|
| 37 | Chamber | <i>Artemisia Nilagrica</i> | Shrub | Sub-tropical | - | Rare |
| 38 | Dassi Aak | <i>Calotropis Procera</i> | Shrub | Sub-tropical | - | Rare |
| 39 | Jajooli | <i>Mucuna Pruriens</i> | Shrub | Sub-tropical | Oct-Nov | Rare |
| 40 | Trapparsula | <i>Opuntia vulgris</i> | Shrub | Sub-tropical | Apr-May | Rare |
| 41 | Kewda | <i>Agave americans</i> | Shrub | Sub-tropical | - | Rare |
| 42 | Aloe vera | <i>Aloe vera</i> | Shrub | Sub-tropical | - | Rare |
| 43 | Khabbal | <i>Cyanodon dactylon</i> | Grass | Sub Tropical | - | Common |
| 44 | Dilla | <i>Centipedde</i> | Grass | Sub Tropical | - | Common |
| 45 | Baru | <i>Sorghum Halepense</i> | Grass | Sub Tropical | - | Common |
| 46 | Trumba | <i>Fegopyrum esculentum</i> | Grass | Temperate | - | Common |
| 47 | Lamb Kaa | | Grass | Sub Tropical | May-June | Common |
| 48 | Congress Grass | <i>Parthenium</i> | Herbs | Sub Tropical | - | Common |
| 49 | Pudina | <i>Mentha spicata</i> | Herbs | Sub-tropical/ Temperate | - | Common |

| | | | | | | |
|----|-------------|-----------------------------|-------|--------------|----------|--------|
| 50 | Puthkanda | <i>Achyranthes Aspra</i> | Herbs | Sub-tropical | - | Common |
| 51 | Jojra | <i>Pupalia Lappacea</i> | Herbs | Sub-tropical | May-June | Common |
| 52 | Dudli Butti | <i>Euphorbia geniculata</i> | Herbs | Sub-tropical | May-June | Common |
| 53 | Aak | <i>Ipomoea Carnea</i> | Herbs | Sub-tropical | May-June | Common |
| 54 | Kadi Pata | <i>Murraya koenigii</i> | Herbs | Sub-tropical | - | Common |

Format 30: Fauna

| 1 | 2 | 3 | 4 | 5 | 6 |
|---------|------------|---------------------------|--|-------------------------------------|------------------------------|
| Sr. No. | Local Name | <i>Scientific Name</i> | Type of Animals (Mammals / Birds / Fish / Insect etc.) | Habitat | Remarks (Rare / Common etc.) |
| 1 | Billi | <i>Felis Bengalensis</i> | Mammals | Terrestrial | Common |
| 2 | Ged | <i>Canis aureus</i> | Mammals | Terrestrial | Common |
| 3 | Ged | <i>Vulpes bengalensis</i> | Mammals | Terrestrial | Common |
| 4 | Bandar | <i>Innuus rhesus</i> | Mammals | Arboreal/ Lives near habitation | Common |
| 5 | Khadkanu | <i>Lepus nigricollis</i> | Mammals | Terrestrial/ tropical | Common |
| 6 | Newla | <i>Herpestes edwarsi</i> | Mammals | Terrestrial, tropical and temperate | Common |
| 7 | Sae | <i>Hystrix indica</i> | Mammals | Grassland and mountain | Common |
| 8 | Chua | <i>Rattus rattus</i> | Mammals | Temperate, Terrestrial and tropical | Common |
| 9 | Chamgadad | <i>Chiroptera</i> | Mammals | Temperate, Terrestrial and tropical | Common |
| 10 | Cow | <i>Bos taurus</i> | Mammals | Domestic | Common |
| 11 | Buffalo | <i>Babalus bubalis</i> | Mammals | Domestic | Common |
| 12 | Goat | <i>Capra aegagrus</i> | Mammals | Domestic | Common |
| 13 | Sheep | <i>Ovis aries</i> | Mammals | Domestic | Common |

| | | | | | |
|----|---------------|---------------------------------|----------|-------------------------------------|--------|
| 14 | Domestic Fowl | <i>Gallus gallus</i> | Mammals | Domestic | Common |
| 15 | Horse | <i>Equus caballus</i> | Mammals | Domestic | Common |
| 16 | Mule | <i>Equus asinus</i> | Mammals | Domestic | Common |
| 17 | Dog | <i>Canis lupus familiaris</i> | Mammals | Domestic | Common |
| 18 | Kerli | <i>Hemidatylys frenatus</i> | Reptiles | Wild | Common |
| 19 | Khoo | <i>Varauns Bangalensis</i> | Reptiles | Wild | Common |
| 20 | Dhaleda | <i>Chamaeleo zeylanicus</i> | Reptiles | Wild | Common |
| 21 | Chiri | <i>Passer domesticus</i> | Birds | Temperate/Terrestrial | Common |
| 22 | Kaa | <i>Corvus brachyrhynchos</i> | Birds | Temperate/Terrestrial | Common |
| 23 | Totaa | <i>Psittacula krameri</i> | Birds | Terrestrial/Freshwater | Common |
| 24 | Ell | <i>Gyps bengalensis</i> | Birds | Temperate/Terrestrial | Common |
| 25 | Lundhi | <i>Haliaeetus leucocephalus</i> | Birds | Temperate | Common |
| 26 | Kabutar | <i>Columba livia</i> | Birds | Arboreal | Common |
| 27 | Mor | <i>Pavo cristatus</i> | Birds | Terrestrial, tropical and temperate | Common |
| 28 | Gatari | <i>Acridotheres tristis</i> | Birds | Terrestrial, tropical and temperate | Common |
| 29 | Bulbul | <i>Pycnonotus leucogenys</i> | Birds | Arboreal | Common |
| 30 | Tarkhan | <i>Melanerpes formicivorus</i> | Birds | Arboreal | Common |
| 31 | Kala Titar | <i>Melanoperdix niger</i> | Birds | Wild | Common |
| 32 | Babbler | <i>Turdoides striata</i> | Birds | Wild | Common |
| 33 | Barn swallow | <i>Hirundo rustica</i> | Birds | Terrestrial, tropical and temperate | Common |

| | | | | | |
|----|----------------|----------------------------------|----------|-----------------------|--------|
| 34 | Pinja | <i>Terpsiphone Paradisi</i> | Birds | Wild | Common |
| 35 | Mendak | <i>Rana tigerna</i> | Amphibia | Wild | Common |
| 36 | Jook | <i>Hirudinea</i> | Amphibia | Wild | Common |
| 37 | Sarkeed | <i>Brachyura</i> | Amphibia | Aquatic | Common |
| 38 | Songla | <i>Periplaneta americana</i> | Insects | Near Habitation | Common |
| 39 | Passfail | <i>Coccinella septumpunctata</i> | Insects | Terrestrial/Temperate | Common |
| 40 | Trida | <i>Orthoptera caelifera</i> | Insects | Wild | Common |
| 41 | Timba | <i>Anisoptera</i> | Insects | Wild | Common |
| 42 | Blister beetle | <i>Mylabris pustulata</i> | Insects | Wild | Common |
| 43 | Gilhari | <i>Funabulus Palmarum</i> | Rodent | Wild | Common |

Note: Separate format should be used for road side plantation - habitat / Parks and Gardens / Housing estate / Commercial buildings/ other institutional areas, Private club premises and also for Aquatic (water) habitat and Terrestrial (land) habitat

Format 31: Any other information of local importance

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

End of Part II