

Peoples' Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: Kot Lower B Garhi

Taluk/Tehsil: Bhalwal

District: Jammu

State/UT: Jammu And Kashmir

Geographical Area of the panchayat Samiti: 3 sq km

Population Of the Panchayat samiti...Total 3547

Male= 1834 **Female =** 1613

Habitat and Topography: Plain

Climate (Rainfall, Temperature and other weather patterns): Subtropical with moderate rainfall

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

Date, Month and Year of PBR preparation: 31/10/2019

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: Hari Saran S/o Dina Nath

Age: 65

Gender : Male

Address: Jungwari

Area of specialization: Ghari Kota

2) Name: Meenu Kumari D/O Des Raj

Age: 28

Gender: Female

Address: Jungwari

Area of specialization: Ghari Kota

3) Name: Soma Devi W/o Darshan Lal

Age: 55

Gender: Female

Address: Jungwari

Area of specialization: Ghari Kota

4) Name: Chunni Lal S/o Maggar Singh

Age: 60

Gender: Male

Address: Jungwari

Area of specialization: Ghari Kota

5) Name: Balkrishan S/o Pindha Ram

Age: 55

Gender: Male

Address: Jungwari

Area of specialization: Ghari Kota

6) Name: Kartar Chand S/o Bhagu Ram, Deceased

Age: 65

Gender: Male

Address: Jungwari

Area of specialization: Ghari Kota

7) Name: Kewal Krishan S/o Hari Saran

Age: 50

Gender: Male

Address: Jungwari

Area of specialization: Ghari Kota

Annexure 2

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

1) Name: Soma devi

Age: 55

Gender: Female

Address: Jungwadi

Area of Specialization: Fixes dislocated bones

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:

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| Annexure 3 |
| List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry |
| 1) Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization: |
| 2) Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization: |
| 3) Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization: |
| 4) Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization: |

Annexure 4

Details of schools, colleges, departments, universities, government institutions, non-governmental biodiversity in agriculture, fisheries, and forestry

1) Contact Person Hari Saran S/o Dina Nath

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**Details of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefits derived and the mode of their sharing**

| No | Name and address of the person/ institution/ company/ others | Local and Scientific Name of the biological material accessed and quantity | Date and resolution of the BMC and endorsement by the panchayat | Details of collection fee imposed | Anticipated mode of sharing benefits or quantum of benefits shared |
|-----------|---|---|--|--|---|
| | Nil | Nil | Nil | Nil | Nil |
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End of Part I

Format 1 Crop Plants

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|--------|------------------------------|-------------|--|--|--------------|---------|---|---------------|-------------------------------------|------------------------------------|-------------------------|---|---------------------------|
| S.No | Crop | Scientific Name | Local Name | Description of the variety | Landscape / Habitat | Local status | | Special features | Uses | Associated TK | Other details | Cropping Season | Source of Seeds / Plants | Community / Known. Holder |
| | | | | | | Past | Present | | | | | | | |
| 1 | Rice | <i>Oryza sativa</i> | Dhan/ Munji | B-370(Fine & Long duration) | Planes / Low laying Areas | Normal | Normal | Basmati 370 is world wise known for its aroma | Food & Fodder | Provides energy fragrance and taste | - | Kharif (May to October) | Farmers / Department/ Private Suppliers | Farmers |
| | | | | Basmati 1121/(Coarse K39 K434 Rattana & Long duration) | | Normal | Normal | Medium tall Coarse Grains | | | | | | |
| 2 | Maize | <i>Zea mays</i> | Maka | Dekalb double | Sub tropical / Upland | Rare | Plenty | Tall, high yielding with yellow in colour) | Food & Fodder | Provides energy | - | Kharif (May to October) | Farmers / Department/ Private Suppliers | Farmers |
| | | | | K-517 | | Plenty | Rare | Average tall with yellow in colour | | | | | | |
| | | | | Ujala | | Normal | Plenty | | | | | | | |
| | | | | K-612 | | Plenty | Normal | | | | | | | |
| | | | | Pro Agro-4794 | | Plenty | Normal | Tall, high yielding with yellow in colour) | | | | | | |
| 3 | Moong | <i>Vigna radiata</i> | Moong | PDM-54 | Hot / Humid of Sub tropical region | Normal | Rare | Medium | Food | Source of Vegetable Protein | Also suitable for green Manuring | Summer/ Kharif | Farmers/ Department/Private suppliers | Farmers |
| | | | | SML-668 | | Normal | Plenty | High yielding Variety | | | | | | |
| | | | | IPM-0203 | | Normal | Rare | Excessive vegetative growth | | | | | | |
| 4 | Mash | <i>Vigna mungo</i> | Mhaa | PU-19 | Warm / Humid of Sub tropical region | Normal | Normal | High yielding Variety | Food | Source of Vegetable Protein | - | Summer/ Kharif | Farmers/ Department/Private suppliers | Farmers |
| | | | | Utra | | Normal | Normal | | | | | | | |
| 5 | Bajra | <i>Pennisetum americanum</i> | Bajra | Local Variety | Warm / Humid climate under Sandy loam Soil | Normal | Normal | Tall & low Yielding variety | Food & Fodder | Source of Energy | - | Kharif (May to October) | Farmers/ Department/Private suppliers | Farmers |
| | | | | MHB-110 | | Normal | Normal | | | | | | | |
| 6 | Wheat | <i>Triticum aestivum</i> | Kanak | HD2967,PBW644 | Cool Climate during early part of its growth | Plenty | Plenty | High yielding Variety | Food & Fodder | Source of Energy | Suitable for Chappati/Bread making | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 7 | Lentil | <i>Lens esculenta</i> | Masar | PL406 | Cool & dry | Normal | Normal | High yielding Variety | Food | Source of Protein/Energy | Improve soil fertility | Rabi | Farmers/ Department/Private suppliers | Farmers |

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|----|--------------|---|--------------------|--|--|----------|----------|--|---|--|---|------------------------------|---------------------------------------|---------|
| 8 | Chick-pea | <i>Cicer arietinum</i> | Chana | GNG-469/C 235 | Cool & dry | Normal | Normal | High yielding Variety | Food | Source of Protein/Energy | Improve soil fertility | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 9 | Peas | <i>Pisum sativum</i> | Matar | Rachna | Cool & dry | Normal | Normal | Early maturing & High yielding | Food | Source of Protein/Energy | Used as Vegetable | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 10 | Onion | <i>Allium cepa</i> | Ganday | nasik Red, Red Coral, Monsanto And Local Spp. | local Planee areas | Abundant | Abundant | Bulbs Cash Crop | Vegetables | Vegetable | Staple Vegetable food | Rabi | Farmers/ Department/Private suppliers | |
| 11 | Mustard | <i>Brassica juncea/ Brassica campestris</i> | Sarson/Sarya | Pusa Bold/ KOS -1 | Cool & dry | Normal | Normal | Matures in 145-150 days with 40-42 % oil content | oil for Food | Source of energy | vegetable Oil extracted from seeds used in cooking | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 12 | 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 calcium,copper, potassium | vegetable Oil extracted from seeds used in cooking | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 13 | Linseed | <i>Linum usitatissimum</i> | Alsi | LC 54 | Cool & dry | Normal | Normal | Medium duration | Food & fiber | Source of energy in the shape of Oil | Medicinal,industrial & domestic use | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 14 | 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 energy value | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 15 | Toria | <i>Brassica j. rape cv.Toria</i> | Toria | RSPT-1,RSPT-2,Local var. | Cool & dry with bright sunshine | Normal | Normal | Short duration Annual Herb | oil for prepration of Food | Source of energy calcium,copper, potassium | vegetable Oil extracted from seeds used in cooking | Between Kharif & Rabi season | Farmers/ Department/Private suppliers | Farmers |
| 16 | Sugarcane | <i>Saccharum officinarum</i> | Ganna | COJ-64,COJ-81 | Sub Tropical | Rare | Rare | Long duration crop for Nine months | Food | Source of energy in the shape of Gur/Sugar | Sugar cane Juice used as prefered drink for instant source of energy during summer besides beating heat | Spring season | Farmers/ Department/Private suppliers | Farmers |
| 17 | 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 amount of vitamin A&C | winter season | Farmers/ Department/Private suppliers | Farmers |
| 18 | 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 ,sala d, soup, Souce | rich source of Ascorbic acid | Tomatoes are also packed with vitamins A and C, calcium, potassium. | Rabi | Farmers/ Department/Private suppliers | Farmers |

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|----|--------------|---|-----------|--|--|----------|----------|---|--|--|---|----------------|---------------------------------------|---------|
| 19 | Okra | <i>Abelmoschus esculentus</i> | Bindi | Varsha uphar, Arka Anamika | Tropical/sub tropical vegetable Hot and humid climate | Abundant | Abundant | Tender green fruit used as vegetable | Mainly vegetable | Source of Fiber | Contains dietary fibers, protein and carbohydrates | Summer/ Kharif | Farmers/ Department/Private suppliers | Farmers |
| 20 | Cucumber | <i>Cucumis sativus</i> | Kheera | Kheera local, JL | Grows in all climatic conditions, Tropical, Sub tropical & temperate | Abundant | Abundant | Limbing annual bearing elongated thick cylindrical fruit | Mainly used as salad | - | It also used as antipyretic and causing cooling effect | Summer/ Kharif | Farmers/ Department/Private suppliers | Farmers |
| 21 | Bottle gourd | <i>Lagenaria siceraria</i> | Lokki | PSPL/Punjab Long | Summer & rainy season crop | Abundant | Abundant | Vines vigorous, profusely branched | Subzis, curries and gravies. | - | It also contains essential vitamins and minerals | Summer/ kharif | Farmers/ Department/Private suppliers | Farmers |
| 22 | 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 maintaining low sugar level | Summer/ kharif | Farmers/ Department/Private suppliers | Farmers |
| 23 | 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 value protein, Vitamine B1, B2 < B6 and manganese | Summer season | Farmers/ Department/Private suppliers | Farmers |
| 24 | 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, phosphorus & iron | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 25 | 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, phosphorus & iron | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 26 | Knol khol | <i>Brassica oleraceae var. gongylodes</i> | Kadam | White vienna, Purple vienna | cool & moist climate/sub tropical | Abundant | Abundant | Swollen stem green/purple with long and broad leaves | Swollen stem and leaves are consumed as vegetable | - | - | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 27 | Spinach | <i>Spinacia oleracea</i> | Palak | All Green, Delta | Cool season Crop, thrives well on well drained loam soils | Abundant | Abundant | Tender green leaves & root used as Vegetable | Tender green leaves used as leafy Vegetable | - | Vitamins A and C, fiber, folic acid, and other nutrients | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 28 | Radish | <i>Raphanus sativus</i> | Mulli | Japanes White, Koren Etc | Cool season Crop, thrives well on well drained Sandy loam soils | Abundant | Abundant | Tender green leaves & roots used as Vegetable | Modified Roots are used as Vegetable & Salad | - | Full of vitamin A, C, E, B6, potassium, and other minerals, | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 29 | 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/Private suppliers | Farmers |

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|----|---------------------|---|-----------------|----------------------------|---|----------|----------|--|---|--|---|------|---------------------------------------|---------|
| 30 | Turnip | <i>Brassica rapa</i> | Gunglu /Shalgam | PTWG/Local | Cool &moist climate/sub tropical& intermedite | Abundant | Abundant | Modified Root is eatable | Root is used as Vegetable ,Salad,. | - | Good source of Vit.C,Dietary Fiber &Potassium | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 31 | Exocitic Vegetables | <i>Broccoli// Chinese Cabbage / Capsicum etc.</i> | | Prevalent Hybrid varieties | Cool &moist climate/sub tropical& intermedite | Rare | Abundant | All Plants parts and Fruits are eatable. Rich Source of antioxidants | Salad and Vegetable | | Rich Source of Multivitamins, Minerals and Antioxidants | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 32 | Garlic | <i>Allium sativum</i> | Thoom | Prevalent hybrid varieties | Cool & moist climate | Rare | Abundant | bulb | Used as vegetable & spice | | Rich source of vitamin C,B6,Mn | Rabi | Farmers/ Department/Private suppliers | Farmers |
| 33 | Coriander | <i>Coriandrum sativum</i> | Taniya | Prevalent hybrid varieties | Cool & moist climate | Rare | Abundant | leaves are eatables | leaves are used as vegetable and seeds as spice | leaves are used for fragrance in cooked dishes | Rich source of Vitamin A,C,dietary fibre,iron,Mn etc | Rabi | Farmers/ Department/Private suppliers | Farmers |

Format 2: Fruit Plants

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | 12 |
|-------|-----------------|------------|---------|---------------------|--------------|---------|------------------------|--------------------|---------------|------|--------------------------------|------------------------------|
| Plant | Scientific Name | Local Name | Variety | Landscape / Habitat | Local Status | | Source of Seeds/Plants | Season of Fruiting | Associated TK | Uses | Other details market / own use | Community / Knowledge holder |
| | | | | | Past | Present | | | | | | |
| nil | nil | nil | nil | nil | nil | | nil | nil | nil | nil | nil | nil |
| | | | | | | | | | | | | |
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Format 03 Fodder Crop/ Species

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 | 12 | 13 |
|--------|---------|-------------------------------|------------|--------|-----------------------------|-----------------------------|--------------|----------|----------------------------|---|----------------------------|---|-----------------------|
| 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 | Berseem | <i>Trifolium alexandrinum</i> | Chhatala | Annual | | Sub Humid & moderately cool | Abundant | Abundant | Entire Plant | Nutritious & palatable fodder, Source of energy for animals | Fodder | Farmers / Department/ Private Suppliers | Farmers |
| 2 | Oats | <i>Avena spp.</i> | Javi | Annual | | Cool & moist climate | Abundant | Abundant | Above ground part of plant | Nutritious & palatable fodder, | Fodder | | Farmers |
| 3 | Sorghum | <i>Sorghum spp.</i> | cherri | Annual | | Warm & humid | Abundant | Abundant | Above ground part of plant | Source of energy | Fodder | Farmers / Department/ Private Suppliers | Farmers |
| 4 | Maize | <i>Zea mays</i> | Makki | Annual | | Warm & humid | Abundant | Abundant | Above ground part of plant | Source of energy | Food & fodder | | Farmers |
| 5 | Bajra | <i>Pennisetum americanum</i> | Bajra | Annual | | Warm & humid | Abundant | Normal | Above ground part of plant | Source of energy | Food & fodder | Farmers / Department/ Private Suppliers | Farmers |
| 6 | Cowpea | <i>Vigna unguiculata</i> | Rongi | Annual | | Warm & humid | Abundant | Normal | Above ground part of plant | Kharif Legume with high protein | Fodder | | Farmers |

Format 04 Weeds

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 | 12 | 13 |
|--------|--------------------|-------------------------------------|---------------------------------|---|-----------------------------------|---------------------------|--------------|----------|--|--------------------------------------|--|---|--------------------------|
| S. No. | Plant | Scientific Name | Local Name | Affected Crop | Habit | Landscape/ Habitat | Local Status | | Uses if any | Management options | Associated TK | Other details | Community Kn. Holders |
| | | | | | | | Past | Present | | | | | |
| 1 | Pig Weed | <i>Amaranthus viridis</i> | Jangli Choulai/Chaleri | 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 | Farmers |
| 2 | Lamb's quarters | <i>Chenopodium album</i> | Bathua/ Kanh/Wild Spinach | Wheat, Pea, Potato | Annual herb | Agri. Land | Normal | Normal | Eaten as boiled green veg | Physical, Mechanical, Chemical | Rich Source of protein, Vit. A, Calcium , Phosporous & potash | Annual feed & fermentation of Beverages | Farmers |
| 3 | Nut Grass | <i>Cyperus rotundus</i> | Dilla/Motha | Paddy,maize, sugarcane, vegetable | Perennial | Agri. & Non Agri. Land | Abundant | Abundant | Fodder & Animals | Physical, Mechanical, Chemical | Nil | Tradionally used as medicine | Farmers |
| 4 | Barnyard Grass | <i>Echinochloa crusgalli</i> | Swank | Paddy | Annual | Agri. Land | Abundant | Abundant | Fodder & Animals | Physical, Mechanical, Chemical | Nil | Nil | Farmers |
| 5 | Carrot grass | <i>Parthenium hysterophorus</i> | Congress Grass | Gardens & sugarcane ratoon crops & other crops | Annual | Agri. Land | Abundant | Abundant | Nil | Physical, Mechanical, Chemical | Abnoxious weed difficult to manage | | Farmers |
| 6 | Bur Clover | <i>Medicago denticulata</i> | Maina | Wheat Grass Peas | Perennial herbaceous legume | Agri. Land | Normal | Normal | Fodder,vegetabl e & green manure | Mechanical, Chemical | Nil | Improves Soil fertility | Farmers |
| 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 | Farmers |
| 8 | Meadow Pea | <i>Lathyrus aphaca</i> | Matri | Wheat Grass Peas, mustard | annual | Agri. Land | Normal | Normal | Fodder | Mechanical, Chemical | Nil | Agri. Land | Farmers |

| | | | | | | | | | | | | | |
|----|----------------|----------------------------|--------------|--------------------|-------------|-----------------------|----------|----------|-------------------|----------------------|-----|-----------------------------|---------|
| 9 | Canada Thistle | <i>Cirsium arvense</i> | Leh | Wheat gram, Barley | Perennial | Agri. & wasteLand | Normal | Normal | | Mechanical, Chemical | Nil | Agri. Land | Farmers |
| 10 | Bang | <i>Cannabis indica</i> | Bang/pang | Kharif Crops | Perennial | Agri. & wasteLand | Normal | Normal | | Mechanical, Chemical | Nil | Agri. Land | Farmers |
| 11 | chickweed | <i>Ageratum conyzoides</i> | Nilibuti | Rabi Crops | Perennial | Agri. & wasteLand | Normal | Normal | | Mechanical, Chemical | Nil | Agri. & wasteLand | Farmers |
| 12 | Dub Grass | <i>Cynodon dactylon</i> | Dub Grass | Rabi/ Kharif | Perennial | Agri. & wasteLand | Abundant | Abundant | Fodder | Mechanical, Chemical | Nil | Agri. & wasteLand | Farmers |
| 13 | Wild oats | <i>Avena fatua</i> | Jangli Javi | Oats | Annual herb | Sub Tropical | Rare | Rare | Fodder | Above ground parts | - | Nutrativ Fodder for Animals | Farmers |
| 14 | Wild Rice | <i>Echinochloa colonum</i> | Swanki | Paddy | Annual herb | Sub Tropical | Rare | Rare | Fodder | Above ground parts | - | Nutrativ Fodder for Animals | Farmers |
| 15 | Jhonson Grass | <i>Sorghum halepense</i> | Beru grass | Sorghum | Perinneal | Sub Tropical | Rare | Rare | Fodder | Above ground parts | - | Nutrativ Fodder for Animals | Farmers |
| 16 | wild onion | <i>Allium humaie</i> | Jangli payas | Onion | Annual herb | Temprate/sub tropical | Rare | Rare | Food and medicine | All parts used | - | - | Farmers |

Format 05 Pests of Crops

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--------|----------------------------|---|--------------------|------------------|--|-----------------------|---|---------------|--|-----------------------|
| S. No. | Insect /Animal | Scientific Name | Local Name | Habit | Habitat | Time/Season of Attack | Management Mechanism | Associated TK | Other details | Community Kn. Holders |
| 1 | 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 |
| 2 | Termite | <i>Microtermes obesi/ Odontoremes obesus</i> | Telle | Chewing & biting | Wheat & other crops | Nov-May | Cultural & Chemical measures | - | Major threat to unirrigated crops | Farmers |
| 3 | <i>Blister beetle</i> | <i>Mylabris spp.</i> | Ghori | Chewing & biting | Attacks Maize, Bhindi & Pulses | June-Oct | Mechanical& Chemical measures | - | Insectivorous feed on grasshopper | Farmers |
| 4 | <i>Cereal leaf Beetle</i> | <i>Oulema melanopus</i> | | Chewing & biting | Attacks Maize | Aug-Sep | Chemical measures | - | Most recent occurrence | Farmers |
| 5 | <i>Red Pumpkin Beetle</i> | <i>Raphidopalpa foveicollis</i> | Lal Kaddu Beetle | Chewing & biting | Cucurbits | March-Oct | Chemical measures | - | Most common in fields of Cucurbits | Farmers |
| 6 | <i>Cucurbits fruit fly</i> | <i>Bactrocera cucurbitae</i> | Melon fly | Chewing & biting | Attacks Pumpkin, cucumber & gourds | Throughout the year | Mechanical & Chemical, pheromone trap | - | Danger to all cucumber crops | Farmers |
| 7 | <i>Maize stem Borer</i> | <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 |
| 8 | <i>Grasshopper</i> | <i>Hygro blasses Negro / Hieroglyphus nigropletus</i> | Tidi/tridda | Maize and Paddy | Maize, Paddy, Jojr Bajra | July to sept | Mechanical& Chemical measures | - | Eats leaves | Farmers |
| 9 | <i>Rice Gundhi Bug</i> | <i>Leptocorisa acuta</i> | Gandi Bug | Paddy | Paddy at milking stage | July to Oct. | Mechanical& Chemical measures | - | Pierce the grains at milking stage | Farmers |

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|----|-------------|---------------------------------|---------------------------|---|-----------------------------------|---------------------|-------------------------------|---|---|----------------------------|
| 10 | Army worm | <i>Spodoptera Frugiperda</i> | Caterpillar | All Crops | Defoliates Major crops | Throughout the year | Mechanical& Chemical measures | - | Defoliates all crops | Farmers |
| 11 | Leaf Floder | <i>Cnaphalocrocis medinalis</i> | Caterpillar | Feeds on leaves and stem | Attack on Paddy Leaves | June to Oct. | Mechanical& Chemical measures | - | Major threats | Farmers |
| 12 | Stem Borer | <i>Scirpophaga incertulas</i> | Tana shedat/ caterpillars | Bores into stem results into dead heart | Crops Plants | June to Oct. | Mechanical& Chemical measures | - | Major threats | Farmers |
| 13 | Cut worm | <i>Agrotis ipsilon</i> | Ludi | Cuts stem and leaves | Wheat sorghum maize and other | Throughout the year | Mechanical& Chemical measures | - | Major threats | Farmers |
| 14 | White Fly | <i>Aleyrodidae</i> | | Suks the shap of plants | Sobin Bhindi and all pulses crops | April to Oct. | Chemical measures | - | Major threats | Farmers |
| 15 | Field rats | <i>Rattus argentiventer</i> | Chouha/Chua | Nocturnal in habit | Attacks all crops | Throughout the year | Mechanical& Chemical measures | - | Lives in burrows opening hidden in bushes | Farmers |
| 16 | Monkey | <i>Rhesus macaque</i> | Bander | Attacks agriculture crops | Forest & human habitat | Throughout the year | Traps & chemosterlization | - | Cause extensive damage to almost all crops,attacks humans | general public/ Farmers |

Format 7: Peoplescape

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------------------------|-----------------------------|------------------|-----------------------|---|--------------------------------|-------------------------------|-------------|----------------------|-----------------------|------------|
| Community & Population | Families & Major Occupation | Sub- Occupation | Depending Landscape | Major resouces accessed and seasons of access | Landscape management practices | Resource management practices | Cast/ Tribe | Social condition | Nature of inhabitants | No. of HHs |
| SC,St & General 3547 | Farming,Labour | Animal husbandry | Agriculture Landscape | - | - | - | SC | Middle Class, BPL | - | |
| | | | | | | | | | | |
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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 | | | | | | | | | | | |
| Plain Area | | | Cultivated land, plantations | | Private ,state lands, | Broad leaved mainly | Domestic animals, wildlife such as cow,buffalo,goat etc | Public,as well as pvt,and Govt also | | Plantation and agriculture | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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

Format 9: Waterscape

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|-----------|--------------------------|--------------|---------------|--|---|-------------|----------------------|--------------|---------------|---------------|--------------------|
| Waterscape element type | Sub- type | Features and approx area | Ownership | General flora | General fauna | Major uses | User groups | Management practices | General uses | Associated TK | Other details | Community accessed |
| Ponds | | | Private land | kamal,Baryan, | Frogs , Tortoise, snakes, snail, | Cattles, washing cloths, irrigation, etc | public | | | | | Local people |
| Tube well | | | Private land | | Frogs , fishes, Tortoise, snakes, snail, | Cattles, washing cloths, irrigation, Drinking etc | public | | | | | Local people |
| Hand pumps | | | Private | | Frogs , fishes, Tortoise, snakes, snail, | Cattles, washing cloths, irrigation, Drinking etc | public | | | | | Local people |
| Examples: Ponds, Streams, Rivers, Lake, Canal, Tubewell, Dug well etc., | | | | | | | | | | | | |

Format 10 Soil Type

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|------------|--------|--------------------------------|--|---|---|---|---------------|---|
| 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 Rapidly | 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. | - | Generally not suitable for plants which need lot of water |
| 2 | Clay Loam | Type A | Light yellow to reddish 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 | wheat, sugarcane, oil seeds etc | 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 trees

| 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/Amb | 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 | |
| Litchi | <i>Litchi chinensis</i> | Litchi | Culcatta, Dehradun | Tree, Regular Bearing | Plains | Plenty | Plenty | Nurseries | Jul - Aug | Fruit | | Marketing | |
| 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 | | | |
| Amla | <i>Phyllanthus emblica</i> | Ambla | Local Selection, NA-7 | Tree, Regular Bearing | Plains | Plenty | Plenty | Nurseries, Local Collections | Nov.- Dec | Pickling Preserve etc | | Marketing, Own Use | |
| Ber | <i>Ziziphus mauritiana</i> | Ber | Gola, Varanasi | Tree, Regular Bearing | Plains | Plenty | Plenty | Local | Jul - Aug | Fruit | | Own Use | |
| Jamun | <i>Syzygium cumini</i> | Jamun | Local Selection | Tree, Regular Bearing | Plains | Rare | Rare | Nurseries, Local Raised | Jul - Aug | Fruit | | Own Use | |

| | | | | | | | | | | | | | |
|-------------|----------------------------|--------------|-------------------------|------------------------------|-------------------|------|--------|-------------------------------|-----------|-----------------|--|--------------------|--|
| Pomegranate | <i>Punica granatum</i> | Anaar, Druni | Ganesh, Kandhari, Local | Tree, Regular Bearing, Shrub | Plains, Mid hills | Rare | Rare | Nurseries, Local Raised, Wild | May - Aug | Fruit, Anardana | | Own Use | |
| Pear | <i>Pyrus spp.</i> | Nakh | Pathar Nakh, China Pear | Tree, Regular Bearing | Plains, mid hills | Rare | Rare | Nurseries | Aug - Sep | Fruit | | Own Use | |
| Peach | <i>Prunus persica</i> | Aaroo | July Elberta, Quetta | Tree, Regular Bearing | Plains, mid hills | Rare | Plenty | Nurseries | Jun - Jul | Fruit | | Marketing, Own Use | |
| Strawberry | <i>Fragaria × ananassa</i> | Strawberry | Chandler | Runner, Annual | Plains, mid hills | Rare | Plenty | Nurseries | Mar - Apr | Fruit | | Marketing | |
| Karonda | <i>Carissa carandas</i> | Garnay | Local | Shrub | Hills/ Plains | Rare | Rare | Wild, Local | Jun - Aug | Fruit | | Marketing, Own Use | |
| Papaya | <i>Carica papaya</i> | Papita | Local | Tree | Plains | Rare | Plenty | Nurseries, Locally Raised | Aug - Oct | Fruit | | Own Use | |
| Banana | <i>Musa paradisiaca</i> | kela | Local | Tree | Plains, | Rare | Normal | Locally raised | june -sep | Fruit | | Own use | |
| Loquat | <i>Eriobotrya japonica</i> | lgaath | Local | Tree | Plains | Rare | Normal | locally raised | Sep -jan | Fruit | | Own use | |

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 |
|------------|--------------|----------------------------------|---------|------------------------------------|--------------------------|--------------|----------|--------------|-----------|---------------|-----------------------------|------------------------------|
| Plant Type | Local Name | Scientific Name | Variety | Landscape/ Habitat | Source of plant/seeds | Local status | | Uses (usage) | Part used | Associated TK | Other details market/own | Community/ Know. |
| | | | | | | Past | Present | | | | | |
| Herbs | Dudlu | <i>Taraxacum officinale</i> | | Temperate area | Root | Rare | Rare | nil | Leaves | N.A | N.A | Generally, held by community |
| Herbs | Tarad | <i>Dioscorea bulbifera</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Root | N.A | N.A | Generally, held by community |
| Herbs | Jungli putna | <i>Mentha arvensis</i> | | Lower shiwalik / Temperate area | Root | Abundant | Abundant | nil | Leaves | N.A | N.A | Generally, held by community |
| Shrubs | Trimuru | <i>Zanthoxylum armatum</i> | | Lower shiwalik | Seed | Rare | Rare | nil | Fruit | N.A | N.A | Generally, held by community |
| Shrubs | brankad | <i>Adhatoda vasica</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | | N.A | N.A | Generally, held by community |
| Shrubs | Drainkdu | <i>Murraya koenigii</i> | | Sub-Tropical area | Seed | Rare | Abundant | nil | Fruit | N.A | N.A | Generally, held by community |
| Shrubs | Dussa | <i>Colebrookea oppositifolia</i> | | Lower shiwalik | Seed | Rare | Rare | nil | Flower | N.A | N.A | Generally, held by community |
| Shrubs | Thor/Shuu | <i>Euphorbia royleana</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Leaves | N.A | N.A | Generally, held by community |
| Shrubs | Bareyan | <i>Acorus calamus</i> | | Lower shiwalik | Seed | Rare | Rare | nil | Leaves | N.A | N.A | Generally, held by community |
| Tree | Bair | <i>Ziziphus xylocarpa</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Stem | N.A | N.A | Generally, held by community |
| Tree | Bheda | <i>Terminalia bellirica</i> | | Lower shiwalik | Seed | Rare | Abundant | nil | Fruit | N.A | N.A | Generally, held by community |
| Tree | Bill-Patre | <i>Aegle marmelos</i> | | Sub-Tropical area | Seed | Abundant | Abundant | nil | Root | N.A | N.A | Generally, held by community |
| Tree | Drankh | <i>Melia azedarach</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Leaves | N.A | N.A | Generally, held by community |

| | | | | | | | | | | | | |
|------|--------------|----------------------------|--|----------------|------|----------|----------|---|--------------|-----|-----|------------------------------|
| Tree | Harad | <i>Terminalia chebula</i> | | Lower shiwalik | Seed | Abundant | Abundant | Good for digestion | Stem/Fruit | N.A | N.A | Generally, held by community |
| Tree | Jaman | <i>Syzygium cumini</i> | | Lower shiwalik | Seed | Abundant | Abundant | maintains sugar level in human body | Leaves/Fruit | N.A | N.A | Generally, held by community |
| Tree | Kakad-Singhi | <i>Pistacia khinjuk</i> | | Lower shiwalik | Seed | Rare | Rare | nil | Leaves/Fruit | N.A | N.A | Generally, held by community |
| Tree | Amb | <i>Mangifera indica</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Stem/Fruit | N.A | N.A | Generally, held by community |
| Tree | Retha | <i>Sapindus mukorossii</i> | | Lower shiwalik | Seed | Rare | Rare | nil | Fruit | N.A | N.A | Generally, held by community |
| Tree | Rumbal | <i>Ficus racemosa</i> | | Lower shiwalik | Seed | Rare | Abundant | nil | Leaves | N.A | N.A | Generally, held by community |
| Tree | Sree | <i>Albizia lebbek</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Leaves/Stem | N.A | N.A | Generally, held by community |
| Tree | Talli | <i>Dalbergia sissoo</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Stem | N.A | N.A | Generally, held by community |
| Tree | Trimbal | <i>Ficus auriculata</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Leaves/Fruit | N.A | N.A | Generally, held by community |
| Tree | Tunu | <i>Toona ciliata</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Stem | N.A | N.A | Generally, held by community |
| Tree | Arjun | <i>Terminalia arjuna</i> | | Lower shiwalik | Seed | Abundant | Abundant | nil | Leaves/Bark | N.A | N.A | Generally, held by community |
| Tree | Amla | <i>Emblica officinalis</i> | | Lower shiwalik | Seed | Abundant | Abundant | used in treatment of Anaemia,piles,stomach complaints | Leaves/Bark | N.A | N.A | Generally, held by community |
| Tree | Neem | <i>Azadirachta indica</i> | | Lower shiwalik | Seed | Abundant | Abundant | leaves are antihelminthic, diuretic, insecticidal | Leaves/Bark | N.A | N.A | Generally, held by community |

| | | | | | | | | | | | | |
|--------|----------|--------------------------------|--|----------------|------------|----------|----------|---|--------------------|-----|---------|------------------------------|
| Shrubs | Bhang | <i>Cannabis sativa</i> | | Lower shiwalik | Seed | Abundant | Abundant | leaf juice is useful in dandruff & lice infestation | Leaves/Bark | N.A | N.A | Generally, held by community |
| Shrub | Tulsi | <i>Ocimum sanctum</i> | | Warm | Seed/Plant | Rare | Rare | Used to cure fever,cold,sore throat etc | Roots/Stem/Leaves | | Own use | Generally held by community |
| Herb | Aloevera | <i>Aloe barbadensis miller</i> | | Subtropical | Plant | Rare | Rare | Antibacterial, Antiviral &Antiseptic properties | Gel of leaves used | | Own use | Generally, held by community |

Note uses: Food/ Veterinary Medicine,/ Human Medicine (Sub-divisions like for children, women etc),/ Agricultural Purpose (Bio-pesticide) Other details: Propagation methods, / Harvesting period,/ Cultivated or collected from wild or both,/ Perennial/annual/seasonal

Format 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>Cassia fistula</i> | | Flower Fruit | Non-Commercial | N.A | N.A | N.A | Generally, held by community |
| Tree | Gandera | <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 |
| Tree | Badah | <i>Salix alba</i> | | Seed | Non-Commercial | N.A | N.A | N.A | Generally, held by community |
| Climber | Kareer | <i>Rosa acicularis</i> | | Seed | Non-Commercial | N.A | N.A | N.A | Generally, held by community |

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 | Mango | <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>Albizzia 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 | Tunu | <i>Toona ciliata</i> | Lower shiwalik | Abundant | Abundant | Wild | own | nil | nil | Generally, held by community |
| Trees | Popular | <i>Populus ciliata</i> | Lower shiwalik | Rare | Abundant | Wild | own | nil | nil | Generally, held by community |
| Trees | chir | <i>Pinus roxburghii</i> | Lower shiwalik | Rare | Rare | 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 |

FORMAT15: 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 Detail | Community know holders |
| | | | | | | Past | Present | | | | | |
| Cattle | Gau | <i>Bos indicus</i> | ND | Low yield | stall feeding | Abundant | Decrease | Dairy | Nil | No | Milk | All |
| | Jersy Gau | <i>Bos taurus</i> | CB Jersy | 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 |
| Horse | ghoda | <i>Equus caballus</i> | Local | Red color body | Backyard | Abundant | Decrease | Pack/ Cart | Nil | No | Pack/ Cart | All |
| Mule | khacchar | <i>E.assinus xE caballus</i> | Local | Black | Backyard | Abundant | Decrease | Pack/ Cart | Nil | No | Pack/ Cart | All |
| Poultry | Kukkar | <i>Gallus domesticus</i> | Local | Enriched meat flavor | Backyard | Abundant | Decrease | Egg ,meat | Nil | No | Egg ,meat | All |
| | | <i>Gallus domesticus</i> | Chabro | good egger | Backyard | few | Increased | Egg,meat | Nil | No | Egg ,meat | All |
| | Broiler | <i>Gallus domesticus</i> | Hybrid | white color , fast growing | deep litter | few | Increased | meat | Nil | Yes | Meat | All |

| | | | | | | | | | | | | |
|--------|----------|------------------------------|-------------|---|------------|----------|-----------|------------|-------------------------|-----|-----------|-----|
| Bird | Chakore | <i>Alectoris chukar</i> | Local | black and white stripes ,beak is short, strong, and orange in color | Backyard | few | Decrease | Egg,meat | Nil | Yes | Egg, Meat | All |
| | Parrot | <i>Psittacula krameri</i> | Local | parrot green in colour with red beak | Backyard | few | Decrease | decorative | Nil | No | Nil | All |
| | Pigeon | <i>Columba livia</i> | Local | white color , fast growing | Backyard | few | Decrease | decorative | Nil | No | nil | All |
| Dog | Kutta | <i>Canis familiaris</i> | Local | Nil | Pet ,Stray | Abundant | Abundant | Nil | Nil | No | Nil | |
| Cat | Billi | <i>Felis catus</i> | Local | Grey /white color | Pet ,Stray | Abundant | Abundant | pet | Nil | No | Nil | |
| Rabbit | Khargosh | <i>Oryctolagus cuniculus</i> | White gaint | white | Pet ,wild | few | few | Pet | Nil | No | Nil | |
| Goat | bakri | <i>Capra hircus</i> | | herbivorous ruminant animals | Pet | Few | decreased | Dairy,Meat | Milk is very nutritious | Yes | Milk | All |

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 | Shisham/Taali | <i>Dalbergia sissoo</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Stem, Timber | - | - | Local people |
| Tree | Amla | <i>Embllica officinalis</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Fruit | Food processing | - | Local people |
| Tree | Sree | <i>Albizzia lebbeck</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Chir | <i>Pinus roxburghii</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | Resin | - | Local people |
| Tree | Lecunia | <i>Leucaena leucocephala</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Simbal | <i>Bombax cebia</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Kamila | <i>Mallotus philippensis</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Krangal | <i>Cassia fistula</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Ber | <i>Ziziphus jujuba</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Fruit | - | - | Local people |
| Tree | Plash | <i>Butea monosperma</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Arjun | <i>Terminalia arjuna</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Jamun | <i>Syzygium cumini</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Santha | <i>Dodonaea viscosa</i> | Shrubs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Amb | <i>Mangifera indica</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Fruit | - | - | Local people |
| Tree | Kiker | <i>Acacia nilotica</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |

| | | | | | | | | | | | |
|---------|---------------------|---------------------------------|---------|---------------------------|------|----------|------------------------|------------------|---|---|--------------|
| Tree | Teak | <i>Tectona grandis</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Safeda | <i>Eucalyptus</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Tree | Bel | <i>Aegle marmelos</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Leaves/ Fruit | - | - | Local people |
| Tree | kakoa | <i>Flacourtia indica</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Fruit | - | - | Local people |
| Grass | Bans | <i>Dendrocalamus strictus</i> | Grass | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Sticks | - | - | Local people |
| Herbs | Bhang | <i>Cannabis sativa</i> | herbs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Leaves | - | - | Local people |
| Shrub | Jojra | <i>Pupalia lappacea</i> | Shrubs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | - | - | - | Local people |
| Shrub | Garna | <i>Carissa spinarum</i> | Shrubs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Fruit | - | - | Local people |
| Shrub | Panjphuli | <i>Lantana camara</i> | Shrubs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | - | - | - | Local people |
| Shrub | Gandila | <i>Nerium indicum</i> | Shrubs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Flower | - | - | Local people |
| Shrub | Pansar | <i>Wendlandia heynei</i> | Shrubs | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | - | - | - | Local people |
| Herbs | congress Grass | <i>Parthenium hysterophrous</i> | herbs | Northern/ Sub-Tropical | Good | Moderate | - | - | - | - | Local people |
| Tree | Badh | <i>Ficus religiosa</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | - | | - | - | Local people |
| Tree | Phulai | <i>Acacia modesta</i> | Tree | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | - | Local people |
| Climber | Tarad | <i>Dioscorea bulbifera</i> | Climber | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Roots | | | Local people |
| Climber | Jungli bitter melon | <i>Momordica charantia</i> | Climber | Northern/ Sub-Tropical | Good | Moderate | Commercial/ own use | Fruit | | | Local people |
| Climber | Purple yam | <i>Dioscorea alata</i> | Climber | Northern/ Sub-Tropical | Good | Moderate | - | | | | Local people |
| Climber | Striped cucumber | <i>Diplocyclos palmatus</i> | Climber | Northern/ Sub-Tropical | Good | Moderate | - | | | | Local people |

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 | Santha | <i>Dodonaea viscosa</i> | Shrub | Firewood | Good |
| 2 | Kanner/Lal Gandila | <i>Nerium indicum</i> | Shrub | | Good |
| 3 | Daduni | <i>Punica granatum</i> | Shrub | Live Hedge fencing | Good |
| 4 | Brenker | <i>Adhatoda vasica</i> | Shrub | - | Good |
| 5 | Bhang | <i>Cannabis sativa</i> | Shrub | Medicinal | Good |
| 6 | Aakh | <i>Ipomea carnea</i> | Shrub | Soil binder | Good |
| 7 | pansar | <i>Wendlandia heynei</i> | Shrub | Firewood | Good |

Format 20: Aquatic Biodiversity

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 |
|---------------|---------------------------------------|---------|---|---------|--------------|---------|---------------|---------------|-----------------------------------|
| Local Name | Scientific Name | Variety | Features | Habitat | Local Status | | Associated TK | Other details | Community/ Knowledge Holder |
| | | | | | Past | Present | | | |
| Juk | <i>Gastropoda</i> | | Land snails have a strong muscular foot, they use mucus to enable them to crawl over rough surfaces and to keep their soft bodies from drying out. | | Good | Good | | | |
| Carp | <i>Cyprinus carpio</i> | | Dorsal fin base long with 17-22 branched rays and a strong toothed spine in front, pharyngeal teeth 5:5 teeth with flattened crowns. | | Good | Good | | | |
| Brown trout | <i>Salmo trutta</i> | | An average length of 40-80 cm with a maximum length of 140 cm the spawning behaviour of brown trout is similar to that of the closely related Atlantic salmon. | | Good | Good | | | |
| Turtle | <i>Testudines</i> | | Turtles spend most of their lives in water, they are adapted for aquatic life, freshwater turtles live in ponds and lakes, and they climb out of the water onto logs or rocks to bask in the warm sun | | Good | Good | | | |
| Sago pondweed | <i>Potamogeton pectinatus</i> | | is a perennial at a fast rate, it is in flower from May to September. The species is hermaphrodite (has both male and female organs) and is pollinated by water. It is noted for attracting wildlife. | | Good | Good | | | |
| Kamal | <i>Nelumbo nucifera</i> | | edible, with rhizome, seeds, and leaves have been used as folk medicine, Ayurveda and Oriental medicine | | Good | Good | | | |
| Water Spinach | <i>Ipomoea aquatica</i> | | it contains abundant quantities of water, iron, Vitamin C, Vitamin A and other nutrients | | Good | Good | | | |
| Watercress | <i>Rorippa nasturtium - aquaticum</i> | | It contains a plethora of antioxidants, which may lower your risk of heart disease and several types of cancer. It's also a good source of minerals that protect your bones | | Good | Good | | | |

Format 21: Wild Aquatic Plant Species of Importance

| 1 | 2 | 3 | 4 | 5 | 6 |
|-------|---------------|---------------------------------------|---------|--|--------|
| SI.No | Local Name | Scientific Name | Variety | Importance | Trends |
| 1 | Kamal | <i>Nelumbo nucifera</i> | | edible, with rhizome ,seeds, and leaves have been used as folk medicine, ayurveda and oriental medicine | |
| 2 | Water Spinach | <i>Ipomoea aquaticum</i> | | it contains abundant quantities of water, iron, vitaminC, Vitamin A and other nutrients | |
| 3 | Watercress | <i>Rorippa nasturtium - aquaticum</i> | | It contains a plethora of antioxidants, which may lower your risk of heart disease and several types of cancer it's also a good source of minerals that protect your bones | |

Format 22: Wild Plants of Medicinal Importance

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 |
|--------------------------------|------------|----------------------------|---------|-----------------------|--------------|---------|--------------|--------------|---------------------------------|--------------------------------|
| Plant (Herb,Shrub, Tree) | Local Name | Scientific Name | Variety | Landscape/ Habitat | Local Status | | Uses (usage) | Part used | Other details market/own use | Community/ Knowledge Holder |
| | | | | | Past | Present | | | | |
| Tree | Arjun | <i>Terminalia arjuna</i> | Tree | Northern/Sub-Tropical | Good | Good | Medicinal | Bark | - | Local people |
| Tree | Amla | <i>Emblica officinalis</i> | Tree | Northern/Sub-Tropical | Good | Good | Medicinal | Bark/ Fruit | - | Local people |
| Tree | Sukchain | <i>Pongamia pinnata</i> | Tree | Northern/Sub-Tropical | Good | Good | Medicinal | Bark | - | Local people |
| Tree | Jamun | <i>Syzygium cumini</i> | Tree | Northern/Sub-Tropical | Good | Good | Medicinal | Fruit /seeds | - | Local people |

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 |
| Gandila | <i>Nerium indicum</i> | Shrub | Northern/ Sub-Tropical | - | - | - | - |
| Panjtara | <i>Tara spinosa</i> | Shrub | Northern/ Sub-Tropical | - | - | - | - |
| Bougainvillea | <i>Bougainvillea glabra</i> | Shrub | Northern/ Sub-Tropical | - | - | - | - |
| Gulmohar | <i>Delonix regia</i> | Tree | Northern/ Sub-Tropical | - | - | - | - |

Format 25:Fumigate/Chewing Plants

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 |
|--------------------------------|------------|-------------------------|---------|-----------------------------------|--------------|----------|-----------------|-----------|---------------|----------------------------------|--------------------------------|
| Plant (Herb,Shrub, Tree) | Local Name | Scientific Name | Variety | Habitat | Local Status | | Uses (Usage) | Part used | Associated TK | Other details(mode of use) | Community /Knowledge holder |
| | | | | | Past | Present | | | | | |
| Herb | Pudina | <i>Mentha spp.</i> | | Homestead, agricultural land | Abundant | abundant | Spice | leaves | | | local people |
| Tree | curry tree | <i>Murraya koenigii</i> | | moist forest and agricultral land | Abundant | abundant | Spice | leaves | | | |
| Herb | wild Tulsi | <i>Ocimum sanctum</i> | | Moist soil | Abundant | abundant | Medicinal | leaves | | | |

Format26: Timber Plants

| 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|------------|-------------------------|-----------------------|--------------|----------|---------------------|------------------|---------------|-----------------------------|
| Local Name | Scientific Name | Habitat | Local Status | | Other Uses ,if any | Associated TK | Other Details | Community /Knowledge holder |
| | | | Past | Present | | | | |
| Chir | <i>Pinus roxburghii</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |
| Taali | <i>Dalbergia sissoo</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |
| Ber | <i>Ziziphus jujuba</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |
| Swanjna | <i>Tectona grandis</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |
| Safeda | <i>Eucalyptus</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local People |
| Simbal | <i>Bombax ceiba</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |
| Tunu | <i>Toona ciliata</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |
| Jamun | <i>Syzygium cumini</i> | Northern/Sub-Tropical | Good | Moderate | Commercial/ own use | Timber/ Firewood | - | Local people |

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 |
| | | | | | | Past | Present | | | | |
| Wild Animal | Squirrels/Galadchua | <i>Sciuridae</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | Local people |
| Wild Animal | Boar | <i>Sus scofra</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Wild Animal | Indian Hare | <i>Lepus nigricollis</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Wild Animal | Monkey | <i>Cercopithecidae</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Wild bird | Rose ringed parakeet | <i>Psittacula krameri</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Wild Animal | Porcupine | <i>Erethizon dorsatum</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| wild insects | Grasshopper/ Tridda | <i>Chorthippus brunneus</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| wild insects | butterfly/Titliya | <i>Danaus plexippus</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| wild insects | bees/Por | <i>Apis mellifera</i> | Northern/ Sub-Tropical | bees are winged insects known for pollination | - | Good | Good | - | - | - | - |

| | | | | | | | | | | | |
|--------------|---------------|---------------------------------|------------------------|--|---------------------|------|------------|---|---|---|--------------|
| wild insects | ants/Kiddiyan | <i>Brachymyrmex patagonicus</i> | Northern/ Sub-Tropical | Common insect but have unique capabilities | - | Good | Good | - | - | - | - |
| wild insects | Bumble bee | <i>Bombus</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Amphibia | Frog/Didu | <i>Euphlyctis cyanophlyctis</i> | Northern/ Sub-Tropical | Frogs typically lay eggs in water. Eggs hatch into aquatic larva called Tadpoles | - | Good | Good | - | - | - | - |
| Reptiles | Tortoises | <i>Lissemys punctata</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Reptiles | Snake/Sap | <i>Natrix</i> | Northern/ Sub-Tropical | - | - | Good | Good | - | - | - | - |
| Bird | Gtaary | <i>Passer domesticus</i> | Northern/ Sub-Tropical | Strongly associated with human habitation | Throughout the year | Good | Decreasing | | | | Local people |
| Bird | Kaa | <i>Corvus splendens</i> | Northern/ Sub-Tropical | Primarily a scavenger feeding on left over rubbish from humans | Throughout the year | Good | Decreasing | | | | Local people |

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Format 29: Flora

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---------|------------|-----------------|----------------|---------|------------------|------------------------------|
| Sr. No. | Local Name | Scientific Name | Type of Plants | Habitat | Flowering Season | Remarks (Rare / Common etc.) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

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

Format 31: Any other information of local importance

| 1 | 2 | 3 |
|---------|---------------------------------|---------|
| Sr. No. | Information of local importance | Remarks |
| | none | |

End of Part II