

## People Biodiversity Register (PBR): General Details

**Name of the Panchayat Samiti:**Chapper A

**Taluk:**Latti

**District:** Udhampur

**State:**JK UT

**Geographical Area of the Panchayat Samiti:**1233

**Population under the Panchayat Samiti:** Total:1817

**Male:** 956

**Female:-** 861

**Habitat and Topography:** Hilly

**Climate (Rainfall, Temperature and weather patterns):**rainfall,snowfall

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

**Date, Month and Year of PBR Preparation:** 21/08/2020

**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 than one third to be women and not less than 18% belonging to SC/ST)**

**1)Name of the Chairperson:** Devinder Gupta

**Age:**71yrs

**Gender:** Male

**Address:**Chapper A Ward No.2

**Area of specialization:** Proper knowledge of desi jadi buti

**2) Name:** Gadno Devi

**Age:** 48yrs

**Gender:** Female

**Address:**Chapper A

**Area of specialization:** Desi nurses work

**3)Name:** Rano Devi

**Age:** 52yrs

**Gender:** Female

**Address:**Chapper A

**Area of specialization:** Desi nurses work

**4)Name:**Badri Nath

**Age:** 51yrs

**Gender:** Male

**Address:**ChapperA

**Area of specialization:**Fixing of dislocated bones by using traditional method

**5)Name:**Sudesh Kumar

**Age:** 33yrs

**Gender:** Male

**Address:**Chapper A

|   |
|---|
| <b>Area of specialization:</b> Proper knowledge of jadi buti      |
| <b>6)Name:</b> Bodhraj  |
| <b>Age:</b> 39yrs   |
| <b>Gender:</b> Male   |
| <b>Address:</b> Chapper A   |
| <b>Area of specialization:</b> Proper knowledge of desi jadi buti |
| <b>7)Name:</b> Madan Lal  |
| <b>Age:</b> 48yrs   |
| <b>Gender:</b> Male   |
| <b>Address:</b> Chapper A   |
| <b>Area of specialization:</b> Forest Guard                       |
|   |

## 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: Khem Raj S/o Dhuni Chand

Age: 58yrs

Gender: Male

Address: Ward No. 6 Chapper A

Area of specialization: Use of traditional method prepared desi medicine

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name: Dewan Chand S/o Bagad

Age: 57yrs

Gender: Male

Address: Ward No. 4 Chapper A

Area of specialization: use of traditional method and prepare desi medicine

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

3) Name: Abdul majid S/o Jumma

Age: 60 years

Gender: Male

Address: Ward. No. 03

Area of specialization: Animal medicines

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

### Annexure 3

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

1) Name of the Chairperson: Mubark Hussain S/o Mohd. Yoysaf

Age: 33yrs

Gender: Male

Address: Ward No. 3 ChapperA

Area of specialization: Fisheries

2) Name of the Chairperson: Manzoor Hussain S/o Gulam Rasool

Age: 40yrs

Gender: Male

Address: Ward No. 3 ChapperA

Area of specialization: Fisheries

3) Name of the Chairperson: Suram Chand S/o Nika

Age: 68 years

Gender: Male

Address: Ward No. 3 ChapperA

Area of specialization: Horticulture

4) Name of the Chairperson: Kasturi Lal S/o Balia

Age: 48 years

Gender: Male

Address: Ward No. 1 ChapperA

Area of specialization: Agriculture

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

**1) Contact Person:** Romesh Kumar

**Name and Address:** Chapper A

**2) Contact Person:** 8493809075

**Name and Address:** Jaweed Ahmed

**3) Contact Person:** 9858668886

**Name and Address:** Mohd Sadiq Sec. Pyt. Chapper A

**4) Contact Person:** 9906170747

**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**

| <b>S.No</b> | <b>Name and address of the Person/Institute/company others</b> | <b>Local and Scientific Name of the biological material Accessed and quantity</b> | <b>Date and resolution of the BMC and endorsement by the Panchayat</b> | <b>Detail of collection fee imposed</b> | <b>Anticipated mode of sharing benefits or quantum of benefits shared</b> |
|-------------|--|---|--|---|---|
|             |  |   |  |   |   |
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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 | 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>        | Ghaan      | Gija           | Hilly / Terrain     | 1                  | Rare         | Rare    |                  |                 |      |               |               |                        |                             |
| Maize        | <i>Zea mays</i>            | Makka      | Hybrid & Local | Hilly / Terrain     | 76                 | Plenty       | Plenty  |                  |                 |      |               |               |                        |                             |
| Wheat        | <i>Triticum</i>            | Kanak      | Hybrid & Local | Hilly / Terrain     | 8                  | Plenty       | Normal  |                  |                 |      |               |               |                        |                             |
| Mustured     | <i>Brassica juncea</i>     | Sarsoo     | KOS-1          | Hilly / Terrain     | 6                  | Normal       | Plenty  |                  |                 |      |               |               |                        |                             |
| Moong        | <i>Vigna radata</i>        | Mung       | Desi           | Hilly / Terrain     | 2                  | Normal       | Rare    |                  |                 |      |               |               |                        |                             |
| Mash         | <i>Vigna mungo</i>         | Maa        | Desi           | Hilly / Terrain     | 2                  | Normal       | Rare    |                  |                 |      |               |               |                        |                             |
| Kidney Beans | <i>Phaseolous vulgaris</i> | Rajmaa     | Desi           | Hilly / Terrain     | 3                  | Normal       | Plenty  |                  |                 |      |               |               |                        |                             |
| Pea          | <i>Pisum sativa</i>        | Matar      | Arkel / Local  | Hilly / Terrain     | 2.0                | Normal       | Rare    |                  |                 |      |               |               |                        |                             |



|             |  |                 |                        |                            |     |        |        |  |  |  |  |  |  |  |
|-------------|--|-----------------|------------------------|----------------------------|-----|--------|--------|--|--|--|--|--|--|--|
| Potato      | <i>Solanum tuberosum</i>               | Aloo            | K- Sandoori / K Badsha | Hilly / Terrain            | 3   | Normal | Rare   |  |  |  |  |  |  |  |
| Onion       | <i>Allium cepa</i>                     | Gandu           | Chakra                 | Hilly / Terrain            | 2.0 | Normal | Rare   |  |  |  |  |  |  |  |
| Khol Khol   | <i>Brassica oleracea</i>               | Kadam           | White Veinna           | Hilly / Terrain            | 2   | Rare   | Plenty |  |  |  |  |  |  |  |
| Radish      | <i>Raphanus sativa</i>                 | Muli            | Beeju Sheetal          | Hilly / Terrain            | 1.0 | Rare   | Rare   |  |  |  |  |  |  |  |
| Cabbage     | <i>Brassica oleracea var. capitata</i> | Band Gobi       | Hyd                    | Hilly / Terrain            | 0.5 | Normal | Normal |  |  |  |  |  |  |  |
| Cauliflower | <i>Brassica oleracea var. botryts</i>  | Gobi            | Girza                  | Hilly / Terrain            | 0.5 | Normal | Normal |  |  |  |  |  |  |  |
| Okra        | <i>Avenmoschus esculentus</i>          | Bhindi          | Triveni /Local         | Sub Tropical/ Intermediate | 1   | Rare   | Rare   |  |  |  |  |  |  |  |
| Tomato      | <i>Solanum lycopersicum</i>            | Tamater         | Desi                   | Hilly                      |     | Plenty | Plenty |  |  |  |  |  |  |  |
| Turnip      | <i>Brassica rapa</i>                   | Gunglu /Shalgam | Desi                   | Hilly                      |     | Normal | Normal |  |  |  |  |  |  |  |
| Brinjal     | <i>Solanum Melongena</i>               | Patha           | Desi                   | Hilly                      |     | Plenty | Plenty |  |  |  |  |  |  |  |

**Formar 2:- Fruits 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 |                          |                    |                             |                                   |                                |                              |
| Apple.   | <i>Malus domestica</i>   | Saib, Saeu.       | Red Delicious, Golden Delicious, Maharaji. | Temperate           | Rare         | Plenty  | Horticulture Department  | Spring Season      | Provides nutrients & energy | Human consumption value addition. | Local consumption & Market     | Yes                          |
| Pear.    | <i>Pyrus communis.</i>   | Baghugosha/ Nakh. | Baghugosha / Pather Nakh.                  | Temperate           | Rare         | Plenty  | Horticulture Department  | Spring Season      | Provides nutrients & energy | Human consumption value addition. | Local consumption & Market     | Yes                          |
| Peach.   | <i>Prunus persica.</i>   | Aarohu.           | FLA-17, Desi.                              | Temperate           | Rare         | Plenty  | Horticulture Department  | Spring Season      | Provides nutrients & energy | Human consumption value addition. | Local consumption & Market     | Yes                          |
| Walnut.  | <i>Juglans regia.</i>    | Akhrode.          | Kagzi Selection, Hardshell (Batta)         | Temperate           | Rare         | Plenty  | Horticulture Department  | Spring Season      | Provides nutrients & energy | Human consumption value addition. | Local consumption & Market     | Yes                          |
| Apricot. | <i>Prunus armeniaca.</i> | Khumani.          | Veeco, Harcott, Quadri, Desi (Sari).       | Temperate           | Rare         | Plenty  | Horticulture Department  | Spring Season      | Provides nutrients & energy | Human consumption value addition. | Local consumption & Market     | Yes                          |
| Plum.    | <i>Prunus salicina.</i>  | Aloo bukhara.     | Santa Rosa, Satsuma, Mariposa.             | Temperate           | Rare         | Plenty  | Horticulture Department  | Spring Season      | Provides nutrients & energy | Human consumption value addition. | Local consumption & Market     | Yes                          |

**Format 3: Fodder Crops / Species**

| 1     | 2                         | 3          | 4                   | 5            |         | 6                        | 7                             | 8                         | 9             | 10                           |
|-------|---------------------------|------------|---------------------|--------------|---------|--------------------------|-------------------------------|---------------------------|---------------|------------------------------|
| Plant | Scientific Name           | Local Name | Landscape / Habitat | Local Status |         | Source of Plants / Seeds | Associated TK                 | Part Used                 | Other details | Community / Knowledge holder |
|       |                           |            |                     | Past         | Present |                          |                               |                           |               |                              |
| Maize | <i>Zea mays</i>           | Makki      | Hilly               | Plenty       | Plenty  | Farmers/ Deptt           | Nutritious & Palatable fodder | Above ground part         | Fodder        | Farmers                      |
| Bajra | <i>Pennisetum glaucum</i> | Bajra      | Hilly               | Plenty       | Plenty  | Farmers/ Deptt           | Source of energy for animals  | Above ground part         | Fodder        | Farmers                      |
| Banj  | <i>Quercus incana</i>     | Banj       | Hilly               | Plenty       | Plenty  | Farmers/ Deptt           | Source of energy for animals  | Leaves are used as fodder | Fodder        | Farmers                      |
|       |                           |            |                     |              |         |                          |                               |                           |               |                              |
|       |                           |            |                     |              |         |                          |                               |                           |               |                              |
|       |                           |            |                     |              |         |                          |                               |                           |               |                              |
|       |                           |            |                     |              |         |                          |                               |                           |               |                              |
|       |                           |            |                     |              |         |                          |                               |                           |               |                              |

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

**Format 4: Weeds**

| 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 |             |                    |                   |                           |                              |
| Stinging nettle | <i>Urtica dioica</i>       | Shadder    | Maize         |        | Hilly               | Plenty       | Plenty  |             |                    | Agri & waste mgt. | -                         | Farmers                      |
| Wild Rice       | <i>Echinochloa colonum</i> | Swanki     | Paddy         |        | Hilly               | Plenty       | Plenty  |             |                    | Agri & waste mgt. | -                         | Farmers                      |
|                 |                            |            |               |        |                     |              |         |             |                    |                   |                           |                              |
|                 |                            |            |               |        |                     |              |         |             |                    |                   |                           |                              |
|                 |                            |            |               |        |                     |              |         |             |                    |                   |                           |                              |
|                 |                            |            |               |        |                     |              |         |             |                    |                   |                           |                              |
|                 |                            |            |               |        |                     |              |         |             |                    |                   |                           |                              |

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 |
| Apple, Pear & Other deciduous fruit trees.       | Sanjose Scale.    | <i>Quadraspidiotus perniciosus</i>             | Scale            | Temperate Fruit Trees | March-April.            | Spray during dormancy with diesel oil emulsion @2-3% in the month of January-February & apply any systemic insecticide in summer season.   | No            | Causes damage upto 30-40% in production. | Yes                        |
| Apple  | Wooly Apple Aphid | <i>Eriosoma lanigerum</i>                      | Ruae walla keeda | -do-                  | July-August.            | Spray of Methyl-o-dimeton @100ml/ 100Ltr water or Chloropyriphas at petal fall stage.  | No            | Causes damage upto 25-50% in production. | Yes                        |
| Apple & Other Fruit Trees, willow, poplar trees. | Hairy caterpillar | <i>Lymantria obfuscata.</i>                    | Paghu kuta       | Polyphagous pests     | May-June                | Strapping burlap skirts around tree trunks & collection / destruction of larve-May-June. Spray Chloropyriphos @100ml / 100 Ltr water after petal fall.   | No            | Causes damage upto 5-10% in production.  | Yes                        |
| Apple & Other Fruit Trees.                       | Stemborer         | <i>Acolesthes Sarta.</i>                       | Luri             | Temperate Fruit Trees | May-August.             | Clean the holes, apply Phenyle ball/ per hole & then plug it with cotton soaked in petrol or Dichlorovas @3ml / Ltr water.   | No            | Causes damage upto 5-10% in production.  | Yes                        |
| Apple & Other Fruit Trees.                       | Chafer beetles    | <i>Adorctus simplex &amp; Holotrichia spp.</i> | --               | Temperate Fruit Trees | March-July.             | Apply 70-100 gm of Carbofuran 3G in the basins by hoeing the 5cm soil around trunk & spray Chloropyriphos @100ml / 100 Ltrs water.   | No            | Causes damage upto 15-20% in production. | Yes                        |
| Apple & Other Fruit Trees.                       | Blossom Thrips.   | <i>Thrips flavus</i>                           | --               | -do-                  | March-April.            | Spray Ethion @100ml / 100 Ltrs water with diesel oil emulsion will reduce the infestation of blossom thrps. Pre-bloom spray of methyle-o-demeton @80 ml/ 100 ltr water or dimethoate @100ml / 100 Ltr water will adequate control. | No            | Causes damage upto 10-15% in production. | Yes                        |

|                               |                                |  |            |                       |              |  |    |  |     |
|-------------------------------|--------------------------------|--|------------|-----------------------|--------------|--|----|--|-----|
| Apple.                        | Apple leaf folder and scraper. | <i>Archips termias</i>                         | --         | -do-                  | April-May    | Application of Methyl-o-demeton @100ml / 100 Ltr water after petal fall.   | No | Causes damage upto 2-5% in production.   | Yes |
| Apple.                        | Spider mites.                  | <i>Tetranychus Urticae</i>                     | Makdi      | -do-                  | April-May    | Spray of Propargite 57% EC @1ml/ltr of water   | No | Causes damage upto 5-10% in production.  | Yes |
| Apple.                        | Tent catterpillar              | <i>Malacosome indica</i>                       | Tanbu keda | Temperate Fruit Trees | March-May.   | Spray of Methyle oxydemeton @100ml / 100 ltrs of water.  | No | Causes damage upto 10-15% in production. | Yes |
| Peach, Plum, Apricot.         | Peach leaf curl aphid.         | <i>Brachycaudus helicyrsi.</i>                 | --         | Temperate Fruit Trees | April-May    | Spray Chloropyriphos @100ml /100 Ltrs water or Dimethoate @100ml /100 Ltr of water after pitel fall. Repeate after 15 days if necessary.     | No | Causes damage upto 20-25% in production. | Yes |
| Peach, Plum, Apricot, Cherry. | Peach Aphid                    | <i>Myzus Persicae.</i>                         | --         | -do-                  | March-May.   | Spray Dresfol @100ml /100 Ltr water or Dimethoate / Chloropyriphos @100 ml /100 Ltr water at bud burst stage.                                | No | Causes damage upto 20-25% in production. | Yes |
| Peach                         | Fruit fly                      | <i>Dacus dorsalis</i>                          | --         | -do-                  | May-August.  | Spray Dimethoate or Chloropyriphos @100ml / 100 Ltr water after petal fall. Repeat spray with Dichlorovas @70ml /100 Ltr water if necessary. | No | Causes damage upto 30-35% in production. | Yes |
| Peach, Plum, Apricot.         | Sanjose Scale.                 | <i>Quadraspidiotus perniciosus</i>             | --         | -do-                  | March-April. | Spray during dormancy with diesel oil emulsion in January-February.  | No | Causes damage upto 15-20% in production. | Yes |
| Peach, Plum, Apricot.         | Shootborer                     | <i>Scolytusnitidus</i>                         | --         | -do-                  | March-April. | Spray with Propaniphos+ Cypermethrin @15ml /10 ltr of water.   | No | Causes damage upto 5-10% in production.  | Yes |
| Peach, Plum, Apricot.         | Stemborer                      | <i>Acolesthes Sarta.</i>                       | --         | -do-                  | March-April. | Spray during dormancy with diesel oil emulsion in January-February.  | No | Causes damage upto 5-10% in production.  | Yes |
| Peach, Plum, Apricot.         | Chafer beetles                 | <i>Adorctus simplex &amp; Holotrichia spp.</i> | --         | -do-                  | March-April. | Spray during dormancy with diesel oil emulsion in January-February.  | No | Causes damage upto 5-10% in production.  | Yes |

|                               |                        |                                  |    |                               |                          |   |    |   |     |
|-------------------------------|------------------------|----------------------------------|----|-------------------------------|--------------------------|---|----|---|-----|
| Peach, Plum, Apricot, Cherry. | Peach twig borer       | <i>Acolesthes Sarta.</i>         | -- | Temperate Fruit Trees         | March-April.             | Spray during dormancy with diesel oil emulsion in January-February. Pruning / destruction of borer infested branches during autumn. Balance dose of fertilizer. The holes may be plastered with mud prepared by adding carbaryl 50WP & soil in the ratio of 1:6 (insecticide & soil). Dimethoate @100ml / 100 Ltr water May & July. | No | Causes damage upto 5-10% in production. | Yes |
|                               | Fruit fly.             | <i>Bactrocera dorsalis</i>       | -- | -do-                          | April-June.              | Clean cultivation, Shallow ploughing of soil orchard, Apply fruit fly trap w.e.f. April-May.  | No | Causes damage upto 15% in production.   | Yes |
| Walnut                        | Walnut weevil          | <i>Alcides porrectirostris</i>   | -- | Intermediate temperate areas. | May-September            | Collection / Destruction of fallan nuts. Proper sanitation may be maintained. Spray Chloropyriphos @100ml / 100 Ltr water or quinalphos @140ml /100 Ltr of water in May.  | No | Causes damage upto 40% in production.   | Yes |
|                               | Hairy caterpillar      | <i>Lymantria obfuscata.</i>      | -- | -do-                          | April-June               | Collection / Destruction of egg masses, pupae, Larve. Use of Burlap skirts around the tree trunk in May-June.   | No | Delfoliation of leaves.                 | Yes |
|                               | Walnut scale           | <i>Quadraspidiotus Juglandis</i> | -- | -do-                          | April-June               | Spray Chloropyriphos @100ml /100 Ltrs water at petal fall stage April-August. Spray Diesel oil emulsion during dormancy or spray Dimethoate @140ml / 100 Ltrs of water May-June.  | No | Causes damage upto 5-10% in production. | Yes |
|                               | Stemborer              | <i>Acolesthes Sarta.</i>         | -- | -do-                          | Whole year in old trees. | Spray during dormancy with diesel oil emulsion in January-February. Tree trunk should plastered in April-May with carbaryl 50 WP & soil 1:6   | No | Weaken the plant.                       | Yes |
|                               | Shoot / Pin holeborers | <i>Scolytusnitidus</i>           | -- | -do-                          | April-November           | Spray during dormancy with diesel oil emulsion in January-February. Tree trunk should plastered in April-May with carbaryl 50 WP & soil 1:6   | No | Causes damage upto 5-10% in production. | Yes |

|       |        |                |        |                  |             |                                 |   |                                     |                            |
|-------|--------|----------------|--------|------------------|-------------|---------------------------------|---|-------------------------------------|----------------------------|
| Maize | Monkey | Rhesus macaque | Bandar | Affect all crops | All seasons | Mechanical / chemicals measures | - | Cause extensive damage to all crops | Farmers/<br>General people |
|-------|--------|----------------|--------|------------------|-------------|---------------------------------|---|-------------------------------------|----------------------------|



**Format 6: Markets for Domesticated animals**

| 1  | 2  | 3   | 4  | 5  | 6   | 7                                       | 8 | 9                     |
|--|--|---|--|--|---|---|---|-----------------------|
| <b>Name of the market &amp; location</b> | <b>Weekly (D)/ Fortnightly (D) / Monthly (D) / Biannual (M) / Annual (M) [1]</b> | <b>Types of animals bought and sold [2]</b> | <b>Types and Average Number of animals transacted in a day</b> | <b>Places from which animals are brought</b> | <b>Places to which the animals are sold / transported</b> | <b>Name and location of fish market</b> |   | <b>Source of fish</b> |
| <b>NO ORGANISED MARKET</b>               |  |   |  |  |   |   |   |                       |
|  |  |   |  |  |   |   |   |                       |
|  |  |   |  |  |   |   |   |                       |

**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                |
|-----------------------------------|--|------------------------|----------------------------|---|---------------------------------------|--------------------------------------|-------------|-------------------------|------------------------------|-------------------|
| <b>Community &amp; Population</b> | <b>Families &amp; Major occupation</b> | <b>Sub- occupation</b> | <b>Depending Landscape</b> | <b>Major resources accessed and seasons of access</b> | <b>Landscape management practices</b> | <b>Resource management practices</b> | Cast/ Tribe | <b>Social condition</b> | <b>Nature of inhabitants</b> | <b>No. of HHs</b> |
| Farmers                           | Farming                                | Labourers              | Nature                     | Farming/ Summer                                       | Agriculture                           | NTFP from forest                     | SC          | Poor                    | Farmers                      |                   |
|                                   |  |                        |                            |   |                                       |                                      | ST          |                         |                              |                   |
|                                   |  |                        |                            |   |                                       |                                      | OBC         |                         |                              |                   |
|                                   |  |                        |                            |   |                                       |                                      | Gen         |                         |                              |                   |
|                                   |  |                        |                            |   |                                       |                                      |             |                         |                              |                   |
|                                   |  |                        |                            |   |                                       |                                      |             |                         |                              |                   |

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 group | Management practices                                | General uses             | Associated TK                      | Other detail | Community assessed |
| 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, Fodder, Fibre etc. | Medicinal, Traditional, Religious. | -            | Self Observed      |
| Non- Cultivated Land | -    | -           | Non- Irrigated Area/ State Land |                           | Agricultural Lands are privately owned | Wild Plants / Weeds          | Insect        | -          | -   | Fodder                   | Medicinal, Traditional, Religious. | -            | Self Observed      |
| Grazing Land         | -    | -           | State Land/ Forest Land         |                           | Govt/Private                           | Wild Plants / Weeds/ Grasses | Insect        | -          | -   | Fodder                   | Medicinal, Traditional, Religious. | -            | Self Observed      |

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

### Format 9: Waterscape

| 1                              | 2               | 3                                | 4                        | 5  | 6                                    | 7  | 8                               | 9   | 10                                      | 11                   | 12                  | 13                        |
|--------------------------------|-----------------|----------------------------------|--------------------------|--|--------------------------------------|--|---------------------------------|---|---|----------------------|---------------------|---------------------------|
| <b>Waterscape element type</b> | <b>Sub-type</b> | <b>Features and approx. area</b> | <b>Ownership</b>         | <b>General Flora</b>                             | <b>General Fauna</b>                 | <b>Major Uses</b>                        |                                 | <b>Management practices</b>   | <b>General uses</b>                     | <b>Associated TK</b> | <b>Other detail</b> | <b>Community assessed</b> |
| Stream                         | -               | Direct small underground streams | Revenue/<br>Private Land | Mostly Ferns,<br>Bryophytes,<br>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 |
| Canals                         | -               | From the bigger nalas            | Revenue/<br>Private Land | All crops including fruits, vegetables & Flowers | Frog, Tadpoles, Fishes, Water snakes | Irrigation, Hydro Power, Chakki/ Gharats | Farmer                          | Small Check Dams  | Irrigation, drinking of domestic animal | -                    | -                   | Local villagers           |
| Nalas                          | -               | Direct small underground streams | Revenue/<br>Private Land | All crops including fruits, vegetables & Flowers | Frog, Tadpoles, Fishes, Water snakes | Irrigation                               | Farmer                          | Check Dams  | Irrigation, drinking of domestic animal | -                    | -                   | Local villagers           |
| Bowli                          |                 |                                  | Pvt. Land                |  | Frog, Tadpoles, Fishes, Water snakes | Daily household and drinking             | Farmer                          |   | Irrigation, drinking of domestic animal |                      |                     | Local villagers           |

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

**Format 10: Soil Type**

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

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

| Format 11: Fruit Trees |                          |                      |  |                       | DOMESTICATED BIODIVERSITY |         |                            |                       |                                   |   |                                    |                               |
|------------------------|--------------------------|----------------------|--|-----------------------|---------------------------|---------|----------------------------|-----------------------|-----------------------------------|---|------------------------------------|-------------------------------|
| 1                      | 2                        | 3                    | 4  | 6                     | 7                         |         | 8                          | 9                     | 10                                | 11                                      | 12                                 | 13                            |
| Plant Type             | Local Name               | Scientific Name      | Variety  | Landscape/<br>Habitat | Local Status              |         | Source of<br>plant/seeds   | Season of<br>Fruiting | Uses (usage)                      | Associated TK                           | Other details<br>market/own<br>use | Community/<br>Know.<br>holder |
|                        |                          |                      |  |                       | Past                      | Present |                            |                       |                                   |   |                                    |                               |
| Apple.                 | <i>Malus domestica</i>   | Saib, Saeu.          | Red Delicious,<br>Golden Delicious,<br>Maharaji. | Temperate             | Rare                      | Plenty  | Horticulture<br>Department | Spring Season         | Provides<br>nutrients &<br>energy | Human<br>consumption value<br>addition. | Local<br>consumption &<br>Market   | Yes                           |
| Pear.                  | <i>Pyrus communis.</i>   | Baghugosha/<br>Nakh. | Baghugosha / Pather<br>Nakh.                     | Temperate             | Rare                      | Plenty  | Horticulture<br>Department | Spring Season         | Provides<br>nutrients &<br>energy | Human<br>consumption value<br>addition. | Local<br>consumption &<br>Market   | Yes                           |
| Peach.                 | <i>Prunus persica.</i>   | Aarohu.              | FLA-17, Desi.                                    | Temperate             | Rare                      | Plenty  | Horticulture<br>Department | Spring Season         | Provides<br>nutrients &<br>energy | Human<br>consumption value<br>addition. | Local<br>consumption &<br>Market   | Yes                           |
| Walnut.                | <i>Juglans regia.</i>    | Akhrode.             | Kagzi Selection,<br>Hardshell (Batta)            | Temperate             | Rare                      | Plenty  | Horticulture<br>Department | Spring Season         | Provides<br>nutrients &<br>energy | Human<br>consumption value<br>addition. | Local<br>consumption &<br>Market   | Yes                           |
| Apricot.               | <i>Prunus armeniaca.</i> | Khumani.             | Veeco, Harcott,<br>Quadri, Desi (Sari).          | Temperate             | Rare                      | Plenty  | Horticulture<br>Department | Spring Season         | Provides<br>nutrients &<br>energy | Human<br>consumption value<br>addition. | Local<br>consumption &<br>Market   | Yes                           |
| Plum.                  | <i>Prunus salicina.</i>  | Aloo bukhara.        | Santa Rosa,<br>Satsuma, Mariposa.                | Temperate             | Rare                      | Plenty  | Horticulture<br>Department | Spring Season         | Provides<br>nutrients &<br>energy | Human<br>consumption value<br>addition. | Local<br>consumption &<br>Market   | Yes                           |

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

| 1          | 2          | 3                            | 4           | 5                     | 6                                 | 7            |           | 8  | 9                  | 10                                       | 11                              | 12                         |
|------------|------------|------------------------------|-------------|-----------------------|-----------------------------------|--------------|-----------|--|--------------------|--|---------------------------------|----------------------------|
| Plant type | Local Name | Scientific Name              | Variety     | Landscape/<br>Habitat | Source of<br>plant/seeds          | Local Status |           | Uses (Usage)   | Part Used          | Associated TK                            | Other details<br>market/own use | Community<br>Known Holders |
|            |            |                              |             |                       |                                   | Past         | Present   |  |                    |  |                                 |                            |
| Shrub      | Kemblu     | Berberies aristata           | Wild/ Local | Lowland valley        | Naturally Grown                   | Available    | Available | Antidiabetic, cure<br>blood pressure, kidney<br>ailments                 | Roots and<br>Fruit | Medicinal value                          | Market value                    | Self observed              |
| Herb       | Barrain    | Acorus calamus               | Wild/ Local | Lowland valley        | Naturally Grown                   | Available    | Available | Used for gastro<br>intestinal problem                                    | Roots              | Medicinal value                          | Market value                    | Self observed              |
| Herb       | Bhang      | Cannabis sativa              | Wild/ Local | Lowland valley        | Naturally Grown                   | Available    | Available | Cure fever, dysentery<br>sunstroke and give<br>alertness to the body     | Leaves             | Unknown                                  | Own use                         | Self observed              |
| Herb       | Pudina     | Mentha spicata               | Local       | Lowland valley        | Naturally<br>Grown/<br>Cultivated | Available    | Available | Antiviral, antibacterial,<br>anti-inflammatory                           | Leaves             | Unknown                                  | Own use                         | Self observed              |
| Herb       | Methi      | Trigonella<br>foenum-graecum | Local       | Lowland valley        | Cultivated                        | Available    | Available | Balance cholestrol,<br>maintain liver and<br>health                      | Seeds              | Unknown                                  | Own use                         | Self observed              |
| Herb       | Dhania     | Coriandrum<br>sativum        | Local       | Lowland valley        | Cultivated                        | Available    | Available | Digestion problems   | Leaves,<br>Seeds   | Unknown                                  | Own use                         | Self observed              |
| Herb       | Pyaz       | Allium cepa                  | Local       | Lowland valley        | Cultivated                        | Available    | Available | Used for cold and<br>cough   | Roots              | Unknown                                  | Own use/ Market<br>value        | Self observed              |
| Herb       | Lahusan    | Allium sativum               | Local       | Lowland valley        | Cultivated                        | Available    | Available | Highly nutritious,<br>Combat sickness,<br>reduces blodd pressure<br>etc. | Roots              | The latex of the<br>plant heal<br>wounds | Own use/ Market<br>value        | Self observed              |



|      |            |                         |       |                |                 |           |           |                             |             |                 |              |               |
|------|------------|-------------------------|-------|----------------|-----------------|-----------|-----------|-----------------------------|-------------|-----------------|--------------|---------------|
| Herb | Wild cumin | <i>Carum carvi</i>      | Local | Hilly          | Naturally grown | Available | Available | Cure disases and anti-viral | Fruit       | Unknown         | Own use      |               |
| Herb | Kuth       | <i>Saussurea costus</i> | Local | Lowland valley | Naturally Grown | Available | Available | Used in medicine            | seeds       | Medicinal value | Market value | Self observed |
| Herb | Banafsha   | <i>Viola odorata</i>    | Local | Lowland valley | Naturally Grown | Available | Available | Used in medicine            | Whole plant | Medicinal value | Market value | Self observed |



### 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 |                               | Associated TK  | Other details | Community/<br>Know Holders      |
|            |            |                   |   | Past         | Present   |                  |                               |  |               |                                 |
| Tree       | Deodar     | Cedrus deodara    | Moist Temperate/ Dry<br>Temperate                   | Available    | Available | Wild/Home garden | Furniture/<br>Medicinal value | Wood used for Furniture<br>and stump used to extract<br>cedar wood oil | Unknown       | Self Observed                   |
| Tree       | Sunu       |                   | Temperate   | Available    | Available | Wild/Home garden | Furniture                     | Wood used for Furniture  | Unknown       | Self Observed                   |
| Tree       | Kail       | Pinus wallichiana | Moist Temperate/ Dry<br>Temperate                   | Available    | Available | Wild/Home garden | Furniture                     | Wood used for Furniture  | Unknown       | Self Observed                   |
| Tree       | Sehtoot    | Morus serrata     | Sub-tropical/ Temperate                             | Available    | Available | Wild/Home garden | Furniture                     | Wood used for Furniture  | Unknown       | Self Observed                   |
| Tree       | Safeda     | Populus ciliata   | Sub-tropical/ Temperate                             | Available    | Available | Wild/Home garden | Furniture                     | Wood used for Furniture  | Unknown       | Self Observed                   |
| Tree       | Champ      | Alnus nepalensis  | Moist Temperate/ Dry<br>Temperate/ Sub-<br>Tropical | Available    | Available | Wild/Home garden | Furniture                     | Wood used for Furniture  | Unknown       | Self Observed                   |
| Tree       | Akhrot     | Juglans regia     | Temperate   | Available    | Available | Wild/Home garden | Furniture                     | Wood used for Furniture  | Unknown       | Self Observed                   |
| Trees      | Fir        | Abies pindrow     | <i>Temperate areas</i>                              | Available    | Available | Wild             | Furniture                     | Firewood and Timber is<br>used   | N.A           | Generally, held by<br>community |
| Trees      | Spruce     | Picea smithiana   | Temperate areas                                     | Available    | Available | Wild             | Furniture                     | Firewood and Timber is<br>used   | N.A           | Generally, held by<br>community |

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

### 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      | Gaye/ Go   | Bos indicus     | Local/N.D            | Short Less Milk | Semi intensive    | More         | More    | Dairy, Dung, Ploughing |               | yes                | Ghee, Curd, Paneer, Kaladi, Butter            | Farmers                |
|             | Dogli Gaye | Bos torus       | HF                   | Black & White   | Semi intensive    | Absent       | Few     | Dairy & Dung           |               | yes                | Ghee, Curd, Paneer, Kaladi, Butter            | Farmers                |
|             |            |                 | Jersey C/B           | Dished Face     | Semi intensive    | Absent       | Few     | Dairy & Dung           |               | yes                | Ghee, Curd, Paneer, Kaladi, Butter            | Farmers                |
| Buffalo     | Manj       | bubelus Bubalis | Local                | Less Milk       | Semi Intensive    | Many         | Many    | Dairy & Draught        |               | yes                | Ghee, Curd, Paneer, Kaladi, Butter            | Farmers                |
| Horse       | Ghoda      | Equus-coballus  | Local                | Short (Pony)    | Semi Intensive    | few          | Few     | Load                   |               | No                 | Load  | Farmers                |
| Mule        | Khachar    | -do-            | Hybrid               | Short (Pony)    | Semi Intensive    | few          | Few     | Load                   |               | No                 | Load  | Farmers                |
| Dog         | Kutta/     | C. familiaris   | Local                | Small hair      | Stray             | More         | More    |                        |               |                    |   |                        |

|         |            |                 |        |                  |           |        |                |           |    |     |               |                 |
|---------|------------|-----------------|--------|------------------|-----------|--------|----------------|-----------|----|-----|---------------|-----------------|
| Dog     | Local      | C-Familiars     | Local  | Small hair       | Stray     | More   | More           | --        | -- | --  | --            | --              |
| Cat     | Billi      | Felis catus     | Local  | Small hair       | Stray     | More   | More           | --        | -- | --  | --            | --              |
| Poultry | Desi Murga | G-domestica     | Local  | Feathered Shanks | Backyard  | More   | Less           | Meat, egg |    | No  | Meat purpose  | Farmers         |
|         | Broiler    | Galus-domestica | Hybrid | White            | Intensive | Absent | Few (inported) | Meat      |    | No  | Meat          | Poultry Farmers |
| Goat    | Bakri      | Capra Aegagrus  | Local  | White & black    | Backyard  | More   | More           | Meat      | -  | Yes | Multi purpose | Farmers         |
| Sheep   | Bhed       | Ovis Aries      | Local  | Many colours     | Backyard  | Rare   | Rare           | Meat      | -  | Yes | Multi purpose | Farmers         |

Uses include milk, meat, skin, fur and etc.



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





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

| 1          | 2               | 3                           | 4      | 5                | 6            |           | 7                    | 8              | 9                   | 10            | 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       | Deodar          | <i>Cedrus deodara</i>       | Tree   | Moist/ Temperate | Available    | Available | Commercial use       | Timber         | Timber              | Value         | Self - observed            |
| Trees      | Akhrot          | <i>Juglans regia</i>        | Tree   | Moist/ Temperate | Available    | Available | Commercial use       | Fruit          | Fruit               | Value         | Self - observed            |
| Tree       | Banj            | <i>Quercus incana</i>       | Tree   | Temperate        | Available    | Available | Own use              | Leaves         | Fodder              | Unknown       | Self - observed            |
| Shurbs     | Garna           | <i>Carissa opaca</i>        | Shurbs | Sub-Tropical     | Available    | Available | Own use              | Fruit          | Edible              | Nutrition     | Self - observed            |
| Shrub      | Kareel- kaimbal | <i>Berberis aristata DC</i> | Shurbs | Forest           | Available    | Available | Commercial use       | Roots          | Fruit               | Value         | Self - observed            |
| Herb       | Pudina          | <i>Mentha spp.</i>          | Herb   | Sub-Tropical     | Available    | Available | Own use              | Leaves         | Fruit               | Value         | Self - observed            |
| Herb       | Bhang           | <i>Cannabis sativa</i>      | Herb   | Sub-Tropical     | Available    | Available | Own use              | Leaves         | Medicinal value     | Unknown       | Self - observed            |
| Tree       | Apple           | <i>Malus domestica</i>      | Tree   | Scattered        | Available    | Available | Commercial use       | Fruit          | Source of nutrition | Value         | Self - observed            |

**Format 19: Wild Plant Species of Importance**

| 1    | 2          | 3                           | 4       | 5  | 6         |
|------|------------|-----------------------------|---------|--|-----------|
| S.No | Local Name | Scientific Name             | Variety | Importance<br>(as economic, social, cultural etc.) | Status    |
| 1    | Deodar     | <i>Cedrus deodara</i>       | Wild    | Social & economic                                  | Available |
| 2    | Kail       | <i>Pinus wallichiana</i>    | Wild    | Economic, social & medicinal values,<br>timber etc | Available |
| 3    | Kemal      | <i>Lannea coromandelica</i> | Wild    | Social & economic                                  | Available |
| 4    | Banfsha    | <i>Viola odorata</i>        | Wild    | Medicinal  | Available |
| 5    | Guchi      | <i>Morchella esculanta</i>  | Wild    | Economic, Edible                                   | Available |
|      |            |                             |         |  |           |
|      |            |                             |         |  |           |
|      |            |                             |         |  |           |
|      |            |                             |         |  |           |

### Format 20: Aquatic Biodiversity

| 1                              | 2                          | 3  | 4                 | 5  | 6  |  | 7                                      | 8             | 9   | 10  |
|--------------------------------|----------------------------|--|-------------------|--|--|--|--|---------------|---|---|
| Local Name                     | Scientific Name            | Variety                                  | Features          | Habitat  | Local Status   |  |  | Associated TK | Other Details   | Community/ Knowledge Holder                 |
|                                |                            |  |                   |  | Past   | Present  |  |               |   |   |
| Rainbow Trout                  | <i>Oncorhynchus mykiss</i> | Wild, Fresh Water & Hill Stream Fishies. | Bony, Fresh Water | Fresh water Streams & Rivers. Trout exclusively established in upper stretches of River Tawi and other adjoining feeding streams | All Fish species were available except Rainbow Trout which was introduced in the year 2005-06. | Mahaseer is now a days is reported very few in catch and Trout is well established in the Upper reaches of the River Tawi. | Human Food Fish.<br>Sport Fish (Trout) | Yes           | <b>Mode of Catching Fish:-</b><br>Cast Net, Fishing Rod and Hook line.<br><br><b>Breeding Time:-</b><br>Trout Breeds between months of November to January and others breeds in Monsoon season. | Yes, Among Fishermen and Angling Community. |
| Alma                           | <i>Schizothorax spp.</i>   |  |                   |  |  |  |  |               |   |   |
| Doga                           | <i>Glyptothorax spp.</i>   |  |                   |  |  |  |  |               |   |   |
| and other Hill Stream Fishies. |                            |  |                   |  |  |  |  |               |   |   |
| Rainbow Trout                  | <i>Oncorhynchus mykiss</i> | Wild, Fresh Water & Hill Stream Fishies. | Bony, Fresh Water | Fresh water Streams & Rivers. Trout exclusively established in upper stretches of River Tawi and other adjoining feeding streams | All Fish species were available except Rainbow Trout which was introduced in the year 2005-06. | Mahaseer is now a days is reported very few in catch and Trout is well established in the Upper reaches of the River Tawi. | Human Food Fish.<br>Sport Fish (Trout) | Yes           | <b>Mode of Catching Fish:-</b><br>Cast Net, Fishing Rod and Hook line.<br><br><b>Breeding Time:-</b><br>Trout Breeds between months of November to January and others breeds in Monsoon season. | Yes, Among Fishermen and Angling Community. |
| Alma                           | <i>Schizothorax spp.</i>   |  |                   |  |  |  |  |               |   |   |
| Doga                           | <i>Glyptothorax spp.</i>   |  |                   |  |  |  |  |               |   |   |
| and other Hill Stream Fishies. |                            |  |                   |  |  |  |  |               |   |   |
|                                |                            |  |                   |  |  |  |  |               |   |   |

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

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

| <b>1</b>     | <b>2</b>          | <b>3</b>               | <b>4</b>       | <b>5</b>          | <b>6</b>      |
|--------------|-------------------|------------------------|----------------|-------------------|---------------|
| <b>S.No.</b> | <b>Local Name</b> | <b>Scientific Name</b> | <b>Variety</b> | <b>Importance</b> | <b>Trends</b> |
| 1            | Kasrod ( fern)    | <i>Tracheophyta</i>    | Wild           | Social & Economic | Self observed |
|              |                   |                        |                |                   |               |
|              |                   |                        |                |                   |               |
|              |                   |                        |                |                   |               |
|              |                   |                        |                |                   |               |
|              |                   |                        |                |                   |               |

**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 |                  |                  |               |                               |                             |
| Shrubs                    | Kareel- kaimbal | <i>Berberis aristata DC</i> | Wild    | Hilly               | Available    |         | Rasount          | Jaundice         | Roots         | Commercial use                | Self observed               |
| Herb                      | Banfsha         | <i>Viola odorata</i>        | Wild    | Hilly               | Available    |         | Used in medicine | Used in medicine | Whole part    | Commercial use                | Self observed               |
| Herb                      | Kuth            | <i>Soussurea lappa</i>      | Wild    | Hilly               | Available    |         | Used in medicine | Used in medicine | Whole part    | Commercial use                | Self observed               |
| Herb                      | Nagchettri      | <i>Trillium govanianum</i>  | Wild    | Hilly               | Available    |         | Medicinal use    | Pain killer      | Leaves & stem | Commercial use                | Self observed               |
| Herb                      | Choru/Chohori   | <i>Angelica glauca Edgw</i> | Wild    | Hilly               | Available    |         | Medicinal        | Dysantary        | Roots         | Commercial use                | Self observed               |
|                           |                 |                             |         |                     |              |         |                  |                  |               |                               |                             |
|                           |                 |                             |         |                     |              |         |                  |                  |               |                               |                             |

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           | Nil                     |
|            |                 |                 |                     |              |         |              |           |               |               |                         |
|            |                 |                 |                     |              |         |              |           |               |               |                         |
|            |                 |                 |                     |              |         |              |           |               |               |                         |
|            |                 |                 |                     |              |         |              |           |               |               |                         |
|            |                 |                 |                     |              |         |              |           |               |               |                         |

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





**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           | Part used     | Associated TK | Other details (mode of use)     | Community knowledge holder |
|                           |              |                                  |         |              | Past         | Present |                |               |               |                                 |                            |
| Trees                     | Akhrot       | <i>Juglans regia</i>             | Local   | Temperate    | Available    |         | Gum diseases   | Bark, leaves  |               | Brushing teeth                  | Self observed              |
| Shrubs                    | Trimuru      | <i>Zantho Xylum Aurmatum</i>     | Wild    | Sub-Tropical | Available    |         | Anti-Septic    | Leaves, fruit |               | Brushing teeth & Medicines      | Self observed              |
| Herbs                     | Jungli putna | <i>Mentha arvensis</i>           | Local   | Hilly        |              |         | Anti-bacterial | Leaves        |               | Traditional use                 | Self observed              |
| Trees                     | Peach        | <i>Prunus persica</i>            | Local   | Hilly        | Available    |         |                | Twigs         |               | Brushing teeth                  | Self observed              |
| Herbs                     | Dhania       | <i>Coriandrum sativum</i>        | Local   | Hilly        | Available    |         | Many problems  | Leaves        |               | Traditional use                 | Self observed              |
| Herb                      | Methi        | <i>Trigonella foenum-graecum</i> | Local   | Hilly        | Available    |         | Spice          | Seeds         | Used as spice | Leaves are used in food / spice | Locals                     |
|                           |              |                                  |         |              |              |         |                |               |               |                                 |                            |

### Format 26: Timber Plants

| 1          | 2                 | 3   | 4            |           | 5                  | 6                            | 7  | 8                               |
|------------|-------------------|---|--------------|-----------|--------------------|------------------------------|--|---------------------------------|
| Local Name | Scientific Name   | Habitat   | Local Status |           | Other Uses, if any | Associated TK                | Other Details  | Community/<br>Knowledge Holder  |
|            |                   |   | Past         | Present   |                    |                              |  |                                 |
| Deodar     | Cedrus deodara    | Moist Temperate/ Dry<br>Temperate               | Available    | Available | Wild/Home garden   | Furniture/Medicinal<br>value | Wood used for Furniture<br>and stump used to extract<br>cedar wood oil | Self Observed                   |
| Sunu       |                   | Temperate                                       | Available    | Available | Wild/Home garden   | Furniture                    | Wood used for Furniture  | Self Observed                   |
| Kail       | Pinus wallichiana | Moist Temperate/ Dry<br>Temperate               | Available    | Available | Wild/Home garden   | Furniture                    | Wood used for Furniture  | Self Observed                   |
| Sehtoot    | Morus serrata     | Sub-tropical/ Temperate                         | Available    | Available | Wild/Home garden   | Furniture                    | Wood used for Furniture  | Self Observed                   |
| Safeda     | Populus ciliata   | Sub-tropical/ Temperate                         | Available    | Available | Wild/Home garden   | Furniture                    | Wood used for Furniture  | Self Observed                   |
| Champ      | Alnus nepalensis  | Moist Temperate/ Dry<br>Temperate/ Sub-Tropical | Available    | Available | Wild/Home garden   | Furniture                    | Wood used for Furniture  | Self Observed                   |
| Akhrot     | Juglans regia     | Temperate                                       | Available    | Available | Wild/Home garden   | Furniture                    | Wood used for Furniture  | Self Observed                   |
| Fir        | Abies pindrow     | <i>Temperate areas</i>                          | Available    | Available | Wild               | Furniture                    | Firewood and Timber is<br>used   | Generally, held by<br>community |
| Spruce     | Picea smithiana   | Temperate areas                                 | Available    | Available | Wild               | Furniture                    | Firewood and Timber is<br>used   | Generally, held by<br>community |





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

| 1           | 2             | 3                            | 4                   | 5            | 6                | 7            |           | 8           | 9       | 10              | 11            | 12                             |
|-------------|---------------|------------------------------|---------------------|--------------|------------------|--------------|-----------|-------------|---------|-----------------|---------------|--------------------------------|
| Animal Type | Local Name    | Scientific Name              | Habitat             | Description  | Season when seen | Local status |           | uses if any | Ass. TK | Mode of hunting | Other details | Community/<br>Knowledge Holder |
|             |               |                              |                     |              |                  | Past         | Present   |             |         |                 |               |                                |
| Mammals     | Chitra        | <i>Pantherapardus</i>        | Terrestrial/ Forest | Spots        | All seasons      | Available    | Available | Unknown     | Unknown | Non applicable  |               | Locals                         |
| Mammals     | Jackal        | <i>Canisaureus</i>           | Terrestrial/ Forest | Grey colour  | All seasons      | Available    | Available | Unknown     | Unknown | Non applicable  |               | Locals                         |
| Reptiles    | Cobra         | <i>Naja naja</i>             | Terrestrial/ Forest | Spotted      | All seasons      | Available    | Available | Unknown     | Unknown | Non applicable  |               | Locals                         |
| Birds       | JungleCrow    | <i>Corvovs marcorhynchos</i> | Terrestrial/ Forest | Black colour | All seasons      | Available    | Available | Unknown     | Unknown | Non applicable  |               | Locals                         |
| Mammals     | Jungali Billi | <i>Felis chaus</i>           | Terrestrial/ Forest | Spots        | All seasons      | Available    | Available | Unknown     | Unknown | Non applicable  |               | Locals                         |

| 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.) |
| N.A              | N.A        | N.A             | N.A                | N.A     | N.A              | N.A                          |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |
|                  |            |                 |                    |         |                  |                              |

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

**Format 30: Fauna**

| <b>1</b>       | <b>2</b>          | <b>3</b>               | <b>4</b>  | <b>5</b>       | <b>6</b>                            |
|----------------|-------------------|------------------------|---|----------------|-------------------------------------|
| <b>Sr. No.</b> | <b>Local Name</b> | <b>Scientific Name</b> | <b>Type of Animals (Mammals / Birds / Fish / Insect etc.)</b> | <b>Habitat</b> | <b>Remarks (Rare / Common etc.)</b> |
| N.A            | N.A               | N.A                    | N.A   | N.A            | N.A                                 |
|                |                   |                        |   |                |                                     |
|                |                   |                        |   |                |                                     |
|                |                   |                        |   |                |                                     |



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

| 1       | 2                               | 3               |
|---------|---------------------------------|-----------------|
| Sr. No. | Information of local importance | Remarks         |
| 1       | Monkey                          | Damage to crops |
| 2       | Bear                            |                 |

*End of Part II*