

Biodiversity Register (PBR): General Details**Name of the Panchayat Samity: BT-II****Taluk:KISHTWAR****District: Kishtwar****UT: Jammu & Kashmir****Geographical Area of the Panchayat Samity: 500 hact.****Population under the Panchayat Samity: 1250****Male: 650 Female: 600****Habitat and Topography: Hilly terrain****Climate (Rainfall, Temperature and other weather patterns) Land Use (Nine fold classification available with village records) Irrigated area : Nil****Management Regime: Reserve Forests (RF) / Joint Forest Management (JFM) / Protected Areas (PA) / Community Owned and Managed Forests (COM)**

End of Part Ist

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) |
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| 1) Name of the Chairperson: Ghulam Rasool |
| Age: 65 years |
| Gender: Male |
| Address: Hasti |
| Area of specialization: Retd. Employee |
| 2) Name: Gulnaza Begum W/o Akhter Hussain |
| Age: 35 Years |
| Gender: Female |
| Address: Dewaroo |
| Area of specialization: Job card holder |
| 3)Name: Zahida Begum W/o Lt. Mohd Ayoub |
| Age: 41 years |
| Gender: Female |
| Address: Dewaroo |
| Area of specialization: Asha worker |
| 4)Name: Farooq Ahmed |
| Age: 26 years |
| Gender: MALE |
| Address:Dewaroo |
| Area of specialization: Labourer |
| 5)Name : Bashir Ahmed Ganie |
| Age: 72 years |
| Gender: MALE |
| Address: shalimar |
| Area of specialization: Agriculture |
| 6) Name: Swami Raj S/o Shadi Lal |
| Age: 56 years |
| Gender: Male |
| Address: Shalimar |
| Area of specialization: Agricultural |
| 7) Name: Gh Mohd S/o Wali Mohd |
| Age: 65 Years |
| Gender: Male |

Address: Lanyal

Area of specialization: Agricultural

Annexure 2

| List of <i>Vaids, hakims</i> and traditional health care (human and livestock) practitioners residing and or using biological resources occurring within the jurisdiction of the village |
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| Name: |
| Age: |
| Gender: |
| Address: |
| Area of Specialization: |
| Location from which the person accesses biological material: Forest |
| Perception of the practitioner on the resource status: Medicinal use: |
| Name: |
| Age: |
| Gender: |
| Address: |
| Area of Specialization: |
| Location from which the person accesses biological material: Forest |
| Perception of the practitioner on the resource status: Medicinal use: |
| |
| Name: |
| Age: |
| Gender: |
| Address: |
| Area of Specialization: |
| |
| Location from which the person accesses biological material: Forest |
| Perception of the practitioner on the resource status: Medicinal use: |

Annexure 3

| List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry |
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| |
| Name: Ghulam Hussain S/o Ghulam Mohd |
| Age: 70 years |
| Gender: Male |
| Address: Lanyal Ward No 03 |
| FOREST SPECIALIST : Horticulture Knowledge |
| |
| Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization: |
| Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization : |
| |
| Name: |
| Age: |
| Gender: |
| Address: |
| Area of specialization |

Annexure 4

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| Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR |
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| 1) Name and Address: Musharaf Shabir R/o lanyal |
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| Contact: 9858136089 |
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| 2) Name and Address: Saima Karim, Agriculture Department |
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| Contact : 9797470374 |
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| 3) Name and Address: Hoshiar Singh Horticulture |
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| Contact: 6006336537 |
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| 4) Name and Address: Shafiya Tabasum, Teacher |
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| Contact: 9622174252 |
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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 |

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 | | | | | | | |
| Wheat | <i>Triticum aestivum</i> | Gundam | Local | Temperate conditions | 56.7 | Plenty | Plenty | Resistant to drought, pests & diseases | May-June | Food Fodder | Provides more energy | Not-known | Local preserved / Agriculture Deptt. | Locals & Deptt. Of Agriculture |
| Barley | <i>Hordeum vulgare</i> | Jow | Local | Temperate conditions | 57.4 | Plenty | Rare | -do- | May-June | Food Fodder | Provides more energy | Not-known | Local preserved | Locals & Deptt. Of Agriculture |
| Maize | <i>Zea mays</i> | Makki | Local | Temperate conditions | 15.25 | Plenty | Plenty | -do- | Sept-Oct | Food Fodder | Provides more energy | Not-known | Local preserved | Locals & Deptt. Of Agriculture |
| Oat | <i>Avena sativa</i> | Lawn | Local | Temperate conditions | 10.35 | Rare | Plenty | -do- | May-June | Fodder | Provides more energy | Not-known | Local preserved / Agriculture Deptt. | Locals & Deptt. Of Agriculture |
| Beans | <i>Phaseolus vulgaris</i> | Rajmash | Local | Temperate conditions | 25.2 | Plenty | Plenty | Resistant to drought, pests & diseases | Sept-Oct | Food Fodder | Provides more energy | Not-known | Local preserved | Locals & Deptt. Of Agriculture |
| Saffron | <i>Crocus sativus</i> | Kung, kesar | Local | Temperate conditions | 5 hac | Plenty | Plenty | | April- May | Spice, cosmetic & medicinal use | Added to milk as an aphrodisiac | Religious purpose | Saved from previous year crop | Locals & Deptt. Of Agriculture |

| | | | | | | | | | | | | | | |
|--------------|--------------------------------|-------------|----------------------------|----------------------|----|--------|--------|-----------------------|---------------------|--|--|--|--------------------------------------|--------------------------------|
| Cucumber | <i>Curmis sativus</i> | Khira | Local / Hybrid | Temperate conditions | NA | Plenty | Plenty | | Aug-Sept | Eaten raw as a salad | Nutritious value | Plant is a climber with green, elongated fruit | Local preserved / Seed shops | Locals & Deptt. Of Agriculture |
| Radish | <i>Raphanus sativus</i> | Mooli | Local turnip shaped radish | Temperate conditions | NA | Plenty | Plenty | NA | 2-3 crops in a year | Eaten raw, used as vegetable and pickle making | Traditional variety and cultivation practice | Round and elongated shape, white colored, eaten raw as well as cooked. Juice of leaves a good remedy to treat jaundice | Local preserved | Locals & Deptt. Of Agriculture |
| Tomato | <i>Lycopersicum esculentum</i> | Tamatar | Local / Hybrid | Temperate conditions | NA | Plenty | Plenty | NA | July-Sept | as vegetable and jam | Rich in vitamin C and Lycopene | Plant small, branched, fruits of varied taste, colour and shape based on the variety planted | Local preserved | Locals & Deptt. Of Agriculture |
| Kholrabi | <i>Brassica oleracea</i> | Kadam, monj | Local / Hybrid | Temperate conditions | NA | Plenty | Plenty | High yield production | Twice in a year | As vegetable | Rich in fibre | Leaves and stem relished as vegetable and pickle. | Local preserved / Agriculture Deptt. | Locals & Deptt. Of Agriculture |
| Bottle gourd | <i>Lagenaria siceraria</i> | Ghiya | Local/ Hybrid | Temperate conditions | NA | Plenty | Plenty | High yield production | May- Aug | As vegetable | Good for health | Highly nutritious. Dried by the local people for winters. | Local preserved / Agriculture Deptt. | Locals & Deptt. Of Agriculture |
| Green Chilly | <i>Capsicum annuum</i> | Mirchi | Local/ Hybrid | Temperate conditions | NA | Plenty | Plenty | High yield production | May- Aug | As vegetable | Improve immune system | Green and red in colour. Used in cooking and also eaten raw | Local preserved / Agriculture Deptt. | Locals & Deptt. Of Agriculture |

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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 (Repining) | Associated TK | Uses | Other details market/ ownuse | Community / Knowledge holder |
| | | | | | Past | Present | | | | | | |
| Apple | <i>Malus domestica</i> | Saib | Red delicious, Golden delicious, Ambri | Lowland valley / home gardens | Plenty | Plenty | Local preserved / Horticulture Deptt. | Aug-Sept | Reducing cholesterol, lowering blood sugar level | Nutritious value | Market / own use | Locals & Deptt. Of Horticulture |
| Apricot | <i>Prunus armeniaca</i> | Khubani | Safeda, Qadri | -do- | Plenty | Rare | Local preserved / grafting | June-July | Cures heart diseases | Nutritious value | Market / own use | Locals & Deptt. Of Horticulture |
| Walnut | <i>Juglans regia</i> | Akhroot | Local | Lowland valley / Agricultural land | Plenty | Plenty | Local preserved / Horticulture Deptt. | Aug-Sept | Reduces prostrate cancer and diabetes | Nutritious value | Market / own use | Locals & Deptt. Of Horticulture |
| Pear | <i>Pyrus communis</i> | Tang | Babugosha, Alle tang, Dud tang, Konternal, Tanchi, Wut, Kyuth, Nakh tang | -do- | Plenty | Plenty | Local preserved / grafting | Aug-Sept | Uses for mild digestion problems, diarrhea, severe cholera | Nutritious value | Market / own use | Locals & Deptt. Of Horticulture |

| | | | | | | | | | | | | |
|-------------|-------------------------|-------------|----------------------------|------------------|--------|-----------------------------|------------------------------|----------|---|--|------------------|---------------------------------|
| Peach | <i>Prunus persica</i> | Aadu | Local, Shan-e-Punjab, Amba | -do- | Plenty | Rare | Local preserved | Aug-Sept | Provides more energy | Nutritious value | Market / own use | Locals & Deptt. Of Horticulture |
| Pomegranate | <i>Punica granatum</i> | Anardana | Local / Hybrid | -do- | Plenty | Wild Rare/ Hybrid plenty | Local preserved | Sept-Oct | Rich source of iron, good for digestion | As fruit, juice and as chutney | Market / own use | Locals & Deptt. Of Horticulture |
| Grapes | <i>Vitis vinifera</i> | Angoor | Local / Hybrid | -do- | Common | Common | Local preserved | Aug-Sept | Nutritious value | Provides more energy | Market / own use | Locals & Deptt. Of Horticulture |
| Plum | <i>Prunus domestica</i> | Alu Bukhara | Santa Rosa / Local | Agriculture land | Rare | Common | Local preserved / Seed shops | Aug-Sept | Nutritious value | Reducing cholesterol, lowering blood sugar level | Market / own use | Locals & Deptt. Of Horticulture |
| Quince | <i>Cydonia oblonga</i> | Beehi | Local | -do- | Plenty | Common | Local preserved | Aug-Sept | Nutritious value | Provides more energy | Market / own use | Locals & Deptt. Of Horticulture |

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 | | | | | |
| Oat | <i>Avena sativa</i> | Lawn | Lowland valleys | Rare | Plenty | Local preserved / Agriculture Deptt. | Green & dry plant used as fodder for the livestock | Whole plant | Fodder for livestock | Locals |
| Robenia | <i>Robinia pseudoacacia</i> | Kikar | Lowland / Forest | Plenty | Rare | Natural propagation / Artificial regeneration | -do- | Green Leaves | Also a good soil binder plant | Locals |
| Ailanthus | <i>Ailanthus altissima</i> | Fak kul | Lowland / Forest | Plenty | Plenty | Natural propagation | -do- | Green Leaves | Also used as fuel wood | Locals |
| Fig | <i>Ficus carica</i> | Figura/Fog | Lowland / Forest | Plenty | Rare | Natural propagation | Provides fodder and more energy to livestock | Green / dry Leaves | Fruit edible & also used as fuel wood | Locals |
| Willow | <i>Salix alba</i> | Ier kul | Lowland / Forest | Plenty | Plenty | Natural propagation / Artificial regeneration | -do- | Green Leaves | Also used as fuel wood | Locals |
| Maize | <i>Zea mays</i> | Makki | Temperate/ Lowland valleys | Plenty | Plenty | Local preserved | Provides fodder and more energy to livestock | Whole plant | Also provides food grains | Locals |
| Bathua | <i>Chenopodium album</i> | Kunh | Temperate/ Lowland valleys | Rare | Common | Natural propagation | As Fodder | Whole plant | Eaten as a highly nutritious vegetable | Locals |

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 | | | | | |
| Grass | <i>Cynodon dactylon</i> | Dhrub | Every crop | Less growth of affected crop | Forest / Lowland | Plenty | Plenty | Fodder grass | Pesticide spraying / plucking out | Religious purpose | Not reported | Locals |
| Grass | <i>Lolium temulentum</i> | Rye grass | Wheat | -do- | Lowland | Plenty | Plenty | - | Manual plucking out | Weed adversely affect crop quality | Not reported | Locals |
| Herb | <i>Malva sylvestris</i> | Sotsal | Vegetables | -do- | Lowland | Plenty | Plenty | - | Manual plucking out | Medicinal use | Not reported | Locals |
| Herb | <i>Cannabis sativa</i> | Bhang | Every crop | -do- | Forest /Lowland | Plenty | Plenty | - | Manual plucking out | Religious purpose | Not reported | Locals |
| Herb | <i>Carduus nutans</i> | Kond posh | Every crop | -do- | Forest /Lowland | Plenty | Plenty | - | Manual plucking out | Weed | Not reported | Locals |
| Herb | <i>Utrica dioica</i> | Soi | Every crop | -do- | Forest /Lowland | Plenty | Plenty | - | Manual plucking | Weed | Not reported | Locals |

| | | | | | | | | | | | | |
|------|---------------------------------|--------------------|--------------------------|---|--------------------------|--------|--------|------|---------------------|-------------------------------|---------------------------------|--------|
| Herb | <i>Parthenium hysterophorus</i> | Congress grass | Every crop even to human | Less growth of affected crop and causes severe itching and respiratory problems in humans | Forest / Lowland | Absent | Plenty | - | Manual plucking | Causes severe skin problems | Highly invasive, exotic species | Locals |
| Herb | <i>Anthemis cotula</i> | Stinking chamomile | Every crop | -do- | Temperate | Plenty | Plenty | None | Manual plucking out | Medicinal use | Exotic species | Locals |
| Herb | <i>Phalaris minor</i> | Sitli | Wheat | -do- | Temperate & intermediate | Plenty | Plenty | Nil | Manual plucking out | Reduces the yield of the crop | Not reported | Locals |

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 |
| Maize | Insect | <i>Helicoverpa zea</i> | Corn earworm, true wire worm | Farm fields | - | Insecticide application | Leaf damager | Not known | Locals and Deptt. of agriculture/ Horticulture |
| Maize | Animal | <i>Rattus norvegicus</i> | Rat | Farm fields | After flowering | Chemical pesticide | Roots and fruit damager | Not known | |
| Polyphagous | Whitefly | <i>Bemisia tabaci</i> | Chithi makhi | Farm fields | July-August | Insecticide application | Damages the plant | Not known | |
| Wheat | Insect | <i>Odontotermes obesus</i> | Termites | Farm fields | Ripening period | Insecticide application | Root feeder | Not known | |
| Polyphagous | Insect | <i>Pieris brassicae</i> | Pediyan/ White cabbage butterfly | Farm fields | May- Sept | Insecticide application | Damages plant and reduces the yield | Not known | |
| Peach, plum | Insect | <i>Brachycaudus helichrysi</i> | Leaf- curling aphid | On host | May- October | Insecticide application | Damages the crop | Leaf defoliator | |
| Apple, Pear | Insect | <i>Eriosoma lanigerum</i> | Wooly aphid | On host and fallen leaves | May- October | Insecticide application | Damages the plant and crop | Not known | |
| Apple, Peach, Pear | Insect | <i>Quadraspidiotus perniciosus</i> | San jose scale | On host plant | May- October | Insecticide application | Damages the plant and crop | Scale insect | |

Format 6: Markets for Domesticated animals

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

Format 7: Peoplescape

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-----------------------------------|--|---|--|---|---------------------------------------|---|---------------------|-------------------------|--|-------------------|
| Community & Population | Families & Major occupation | Sub- occupation | Depending Landscape | Major resources accessed and seasons of access | Landscape management practices | Resource management practices | Caste/ Tribe | Social condition | Nature of inhabitants | No. of HHs |
| General and Schedule caste | Agriculture | Collection of NTFP, Cattle rearing, Artisans & Govt. Servants | Forest (Hilly terrain) / Agriculture landscape | Agriculture for the purpose of food grains and fodder | Terrace farming | Traditional resource management practices | General/ SC | Socially privileged | Most of them do own jobs, economically less privileged | 1846 |

Format-8 : Landscape.

| 1 | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------------------|--------|-------------|----------------|---------------------------|-------------------------------------|---------------|-----------------|-------------------|----------------------|--------------|---|---------------|---------------------------|
| Major Landscapes | | | Sub-Landscapes | Features and approx. area | Ownership | General flora | General fauna | User groups | Management practices | General uses | Associated TK | Other details | Community accessed |
| Agricultural land | Pond | Fallow land | | | | | | | | | | | |
| Cultivated/ Non-cultivated | Nil | Nil | Mountainous | Rocky/ sandy land | AGRICULTURAL LAND / PRIVATELY OWNED | Deodar | Cow | Local Inhabitants | Self management | cultivation | Indigenous knowledge of local communities | --- | Locals, bakerwals & Govt. |
| | | | | | | Kail | Flying squirrel | | | | | | |
| | | | | | | Krees | Monkey | | | | | | |
| | | | | | | Grasses | Jackal | | | | | | |
| | | | | | | Champ | Dog | | | | | | |
| | | | | | | Anar | Fox | | | | | | |
| | | | | | | Akhroot | Cat | | | | | | |
| | | | | | | Chinar | Rat | | | | | | |
| | | | | | | Fig | Lizard | | | | | | |
| | | | | | | Apricot | Snake | | | | | | |
| | | | | | | Hiroo | Pigeon | | | | | | |
| | | | | | | Mohru | House Sparrow | | | | | | |
| | | | | | | Kiker | Mosquito | | | | | | |
| | | | | | | Dandelion | Crow | | | | | | |
| <i>Parthenium</i> | Spider | | | | | | | | | | | | |

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 |
| Nallah | Nallah | Shalimar nallah, tributary of River Chenab | Govt. | Grasses | Insects | Irrigation | Locals | Nil | Nil | Nil | Nil | Local |
| Spring | Spring | Arkhol naal and Melan | Govt. | Grasses | Amphibians and insects | Drinking | Locals | Occasional de-silting | Irrigation, washing | Nil | Nil | Local |

Format 10: Soil type

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------|-----------------------------|--|--|---|---------------------------------------|--|-------------------|
| Soil Type | Color & Texture | Features | Soil management | Plants / crop suitable | Flora and fauna | Associated TK | Other information |
| Red soil and Sandy loamy soil | Greyish, red, small grained | Does not retain water, frequent irrigation | Recharged with leaf manure, animal waste compost | Conifer plants, broad leaved plants, Fruit plants, NTFP species, Wheat, barley, maize, rice and some seasonal vegetables. | Domesticated /wild plants and animals | Provides good quality of timber, fuelwood, NTFP, food and fodder | - |

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/ Habitat | Local Status | | Source of plant/seeds | Season of Fruiting(Repining) | Uses (usage) | Associated TK | Other details market/own use | Community/ Knowledge holder |
| | | | | | Past | Present | | | | | | |
| Tree | Saib/ Apple | <i>Malus domestica</i> | Red delicious, Golden delicious, Ambri | Lowland valley / home gardens | Rare | Plenty | Local preserved / Horticulture Deptt. | June- Oct | Nutritious value | Reducing cholesterol, lowering blood sugar level | Market / own use | Locals |
| Tree | Khubani/ Apricot | <i>Prunus armeniaca</i> | Safeda, Qadri | -do- | Plenty | Rare | Local preserved / grafting | May-July | Nutritious value | Cures heart diseases | Market / own use | Locals |
| Tree | Akhroot/ Walnut | <i>Juglans regia</i> | Local | Lowland valley / Agricultural land | Plenty | Plenty | Local preserved / Horticulture Deptt. | July- Sept | Nutritious value | Reduces prostrate cancer and diabetes | Market / own use | Locals |
| Tree | Tang/ Pear | <i>Pyrus communis</i> | Babugosha, Alle tang, Dud tang, Konternal, Tanchi, Wut, Kyuth, Nakh tang | -do- | Plenty | Plenty | Local preserved / grafting | July- Sept | Nutritious value | Uses for mild digestion problems, diarrhea, severe cholera | Market / own use | Locals |
| Tree | Aadu/ Peach | <i>Prunus persica</i> | Local, Shan-e- Punjab, Amba | -do- | Plenty | Plenty | Local preserved | June-Sept | Nutritious value | Provides more energy | Market / own use | Locals |
| Tree | Anardana/ Pomegranate | <i>Punica granatum</i> | Local / Hybrid | -do- | Plenty | Wild Rare/ Hybrid plenty | Local preserved | Aug-Oct | Nutritious value | Provides more energy | Market / own use | Locals |

| | | | | | | | | | | | | |
|---------|-----------------------|-------------------------|----------------|------|--------|--------|---------------------------------|------------|---------------------|--------------------------|------------------|------------------------------------|
| Climber | Angoor/ Grapes | <i>Vitis vinifera</i> | Local / Hybrid | -do- | Common | Common | Local preserved | Aug-Sept | Nutritious value | Provides more energy | Market / own use | Locals |
| Tree | Aloo bukhara/ Plum | <i>Prunus domestica</i> | Local / Hybrid | -do- | Plenty | Plenty | Local preserved / Seed shops | May-July | Nutritious value | Provides more energy | Market / own use | Locals |
| Tree | Beehi/ Quince | <i>Cydonia oblonga</i> | Local | -do- | Plenty | Common | Local preserved / Seed shops | Aug-Oct | Nutritious value | Provides more energy | Market / own use | Locals |
| Tree | Cherry | <i>Prunus avium</i> | Hybrid | -do- | Rare | Common | Deptt. Of Horticulture | June- July | Nutritious value | Provides more energy | Own use | Locals & Deptt. Of Horticulture |
| Tree | Nimbu | <i>Citrus limon</i> | Local | -do- | Common | Common | Horticulture Deptt | June- July | Nutritious value | Rich source of Vitamin C | Own Use | Locals & Deptt. Of Horticulture |

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 | 12 |
|------------|------------|---------------------------------|-------------|-----------------------|--------------------------|--------------|---------|---|--------------------|--|---------------------------------|------------------------------------|
| Plant Type | Local Name | Scientific Name | Variety | Landscape/ Habitat | Source of plant/seeds | Local status | | Uses (usage) | Part used | Associated TK | Other details market/own use | Community/ Knowledge holders |
| | | | | | | Past | Present | | | | | |
| Shrub | Khumlai | <i>Berberis lycium</i> | Wild (NTPF) | Lowlands / forests | Naturally grown | Plenty | Rare | Used as a cooling agent and also as a remedy for acidity. | Fruit | Used in various Ayurvedic formulations | Own use | |
| Herb | Panchalan | <i>Rheum moorcroftianum</i> | Wild (NTPF) | Alpine forest | Naturally grown | Plenty | Rare | Wound healing | Roots | Ayurvedic formulations | Own use | |
| Herb | Dhrub | <i>Cynodon dactylon</i> | MFP | Forest | Natural | Plenty | Rare | Used as a laxative,coolant. Also useful in bleeding & skin troubles. | Whole plant | Religious purpose | Market/ own use | |
| Herb | Vena | <i>Mentha longifolia</i> | MFP | Forest | Natural | Plenty | Plenty | Respraitory ailments, to treat wounds | Leaves | Used in sauces and dips as a cooling agent | Market/ own use | |
| Tree | Haadi | <i>Prunus armeniaca</i> | B/L | Forest | Natural | Plenty | Rare | Antisposmodic, chronic bronchitis | Whole plant | NA | Market/ own use | |
| Herb | Suchal | <i>Malva neglecta</i> | MFP | Forest | Natural | Plenty | Rare | Astringent,demulcent, diuretic | Leaves,Flowe rs | NA | Market/ own use | |
| Tree | Fog, feku | <i>Ficus palmata</i> | B/L | Forest | Natural | Plenty | Rare | used for skin diseases, treatment of lungs & bladder diseases | Fruit | NA | Market/ own use | |
| Tree | Akhroot | <i>Juglans regia</i> | B/L | Forest | Natural | Plenty | Rare | leaves are used in treatment of chronic coughs,asthma, purifation of blood and to treat diabetes | Leaves,Fruit, | NA | Market/ own use | |

| | | | | | | | | | | | |
|---------|-----------------|------------------------------|-------|-----------|----------------------|--------|---------------------|---|---------------------------------|--|--------------------|
| Herb | Hamesh-Bahar | <i>Calendula officinalis</i> | MFP | Forest | Natural | Plenty | Rare | Used for skin disease, burns | Flower,leaf | NA | Market/ own use |
| Herb | Banafsha | <i>Viola odorata</i> | MFP | Forest | Natural | Plenty | Rare | Throat problem,Cold,cough | Flower | NA | Market/ own use |
| Herb | Ganda | <i>Allium cepa</i> | MFP | Forest | Natural | Plenty | Plenty | Anti inflammatory, antiseptic | Bulb, Leaves | NA | Market/ own use |
| Herb | Thom | <i>Allium sativum</i> | MFP | Forest | Natural | Plenty | Plenty | Fever, diabetics, swellings | Bulbs | NA | Market/ own use |
| Herb | Dhaniya | <i>Coriandrum sativum</i> | MFP | Forest | Natural | Plenty | Plenty | Measles, hemorrhoids, toothache & joint pain | Leaves, Seeds | NA | Market/ own use |
| Herb | Mooli | <i>Raphanus sativus</i> | MFP | Forest | Natural | Plenty | Plenty | To treat constipation & hypertension | Leaves root | NA | Market/ own use |
| Herb | Sunflower | <i>Helianthus annuus</i> | MFP | Forest | Natural | Plenty | Common | High fever, snake bite | Leaf, Seeds | NA | Market/ own use |
| Climber | All, kaddu | <i>Cucurbita pepo</i> | MFP | Forest | Natural | Plenty | Plenty | Anti inflamentry, anti viral, anti ulcer | Fruit | NA | Market/ own use |
| Herb | Green Chilly | <i>Capsicum annum</i> | Local | Temperate | Cultivated | Plenty | Plenty | Good for immune system, eye sight. | Fruit | NA | Market/ own use |
| Herb | Rohan-hak/ Pran | <i>Allium carolinianum</i> | MFP | Temperate | Plenty | Rare | Commercial /Own use | Useful in maintaining blood chloesterol, also used as a digestive tonic | Bulbs, Leaves, Flowers | Used in curries as a substitute for onion. | Market/ own use |
| Herb | Kesar, kung | <i>Crocus sativus</i> | Local | Temperate | Preserved by farmers | Plenty | Plenty | Used in tea, milk, and cooking | Stamen and pistil of the flower | Used as an anti-depressant, anti-inflammatory, aphrodisiac | Market and own use |

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/ Knowledge holder |
| Shrub | Gainda | <i>Tagetes erecta</i> | Local | Preserved seed | Non- commercial | Used for religious purpose | Provides beauty to the home garden | NA | Locals |
| Shrub | Gulab | <i>Rosa indica</i> | Local | From cuttings | Non- commercial | Used for religious purpose | Used to make gulkand- a remedy for gastric troubles and also used as a refreshing drink in summers | NA | Locals |
| Shrub | Dhaliya | <i>Dahlia pinnata</i> | Local | Rhizomes of flower plant | Non- commercial | Used for religious purpose | Provides beauty to the home garden | NA | Locals |
| Climber | Ivy | <i>Hedera helix</i> | NA | Cuttings | Non- commercial | Ornamental | Provides beauty to the home garden | NA | Locals |

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 | | | | | |
| Tree | Dair | <i>Cedrus deodara</i> | Forests | Plenty | Plenty | Wild/ homegrown | Cedrus oil is used as a treatment of piles, kidney stone and diabetes etc. | Provides durable timber, fuelwood and for religious purpose | Evergreen tree having a conic crown with level dropping branches like X-mass tree | Local zamindars/people have got ample knowledge with respect to the identification of the species as well their common usage |
| Tree | Kail | <i>Pinus wallichiana</i> | Forests | Plenty | Plenty | Wild | Timber and furniture | Provides durable timber & fuelwood | Evergreen tree native to the Himalayas | |
| Tree | Fir | <i>Abies pindrow</i> | Forests | Plenty | Plenty | Wild | Timber and furniture | It helps in treating fever, cough and cold. Provides timber and furniture for houses. | Evergreen tree growing to 40-60 m tall with conical crown and level branches | |

| | | | | | | | | | |
|------|---------|-----------------------------|-----------------------|--------|--------|--------------------|-------------------------------------|--|---|
| Tree | Akhroot | <i>Juglans regia</i> | Private land / Forest | Plenty | Plenty | Wild / home garden | Furniture / agricultural implements | Walnut used as nutritious fruit. Its bark and leaves as well as the husk of seeds are used in different medicines and dyes | Large, deciduous tree |
| Tree | Kikar | <i>Robinia pseudoacacia</i> | Temperate | Plenty | Common | Wild/ home garden | Fuel wood, fodder | Leaves used to relieve pains | Deciduous tree with a beautiful white inflorescence |

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 | | | | | |
| Sheep | Bhead | <i>Ovis aries</i> | Local | Small size rough coat | Flock rearing/ Domestication | Plenty | Rare | Mutton and wool | Wool used to make blankets | Yes | Mutton, wool, manure, bones and hides | Local/Nomads |
| Sheep | Bhead | <i>Ovis aries</i> | Rambouillet cross breed | Large size low body weight | Flock rearing/ Domestication | Rare | Plenty | Mutton and wool | Wool used to make blankets | Yes | Mutton, wool, manure, bones and hides | Local/Nomads |
| Goat | Bakri | <i>Capra hircus</i> | Local | Small size low body weight | Flock rearing/ Domestication | Plenty | Rare | Mutton and wool | Milk good for health | Yes | Mutton, wool, manure, bones and hides | Local/Nomads |
| Goat | Bakri | <i>Capra hircus</i> | Kaghani, bakasooli | Large size high body weight | Flock rearing/ Domestication | Rare | Plenty | Mutton and wool | Milk good for health | Yes | Mutton, wool, manure, bones and hides | Local/Nomads |
| Cow | Gaay | <i>Bos taurus</i> | Local/ Desi/Jersey | Cows have hooves on there feet and can weight upto 400 pounds | Flock rearing/ Domestication | Plenty | Rare | Milk, Cow dung | Milk good for health | Yes | Milk, manure | Local/Nomads |
| Buffalo | Bhains | <i>Bubalus bubalis</i> | Local | Dark slab colour less | Domestication | Common | Common | Milk, Dung | Milk good for health | Yes | Milk, manure | Local/Nomads |
| Ox | Bael | <i>Bos taurus</i> | Local | For ploughing | Domestication | Plenty | Rare | For ploughing | NA | Yes | Used for ploughing | Local/Nomads |
| Dog | Kutta | <i>Canis familiaris</i> | Local/ Bakerwal | Small to median height, white, brown black in colour | Domestication | Plenty | Common | Guard, hunting | Nil | No | Nil | Local/Nomads |
| Cat | Billi | <i>Felis catus</i> | Local | Small, greyish black, white in colour | Wild/ Domestication | Common | Common | Pest control | Nil | No | Nil | Locals |
| Horse | Ghoda | <i>Equus caballus</i> | Local | Large strong animals, 60- 70 inches in height | Domestication/ Flock rearing | Common | Common | Used for riding and transport | Nil | Yes | NA | Local/Nomads |

| | | | | | | | | | | | | |
|---------|----------|--------------------------|--------------|---|---------------------------|--------|--------|-----------------------------------|-----|-----|-----|--------------|
| Mule | Khacchar | <i>Equus mulus</i> | Local | Generally brown, grey or black in colour, 55 to 65 inches in height | Domestication | Common | Common | Used as a draught and pack animal | Nil | Yes | Nil | Local/Nomads |
| Poultry | Kokad | <i>Gallus domesticus</i> | Desi/ Hybrid | Enriched meat flavour, high egg yield | Domestication/ Rearing | Common | Common | Egg/Meat | Nil | Yes | Nil | Local |
| Donkey | Gadha | <i>Equus asinus</i> | Local | White, black or grey in colour, smaller than a horse | Domestication | Common | Common | Used as a beast of burden | Nil | Yes | NA | Local/Nomads |

WILD BIODIVERSITY

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

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 |
|------------|------------|-----------------------------|-------------|-----------------|--------------|---------|------------------------|----------------|--|---|
| Plant Type | Local Name | Scientific Name | Habit | Habitat | Local status | | Commercial / own use | Part collected | Associated TK | Other details |
| | | | | | Past | Present | | | | |
| Tree | Deodar | <i>Cedrus deodara</i> | Terrestrial | Temperate areas | Plenty | Common | Commercial and own use | Wood | Cedrus oil is often used for its aromatic property | It's has a conic crown with level branches and dropping branchlet |
| Tree | Kail | <i>Pinus wallichiana</i> | Terrestrial | Temperate areas | Plenty | Common | Commercial and own use | Wood | Provide durable timber | Conifer plant |
| Tree | Fir | <i>Abies pindrow</i> | Terrestrial | Temperate areas | Plenty | Plenty | Commercial and own use | Wood | It helps in mitigating the level of anxiety | It help in treating fever, cough and cold |
| Tree | Oak/ Hiroo | <i>Quercus ilex</i> | Terrestrial | Temperate areas | Plenty | Plenty | Own uses | Leaves & Wood | Fodder & Fuel wood | Evergreen B.L tree |
| Tree | Brun | <i>Ulmus villosa</i> | Terrestrial | Temperate areas | Plenty | Plenty | Own use | Wood | Fodder and fuel wood | For religious purpose |
| Tree | Willow | <i>Salix alba</i> | Terrestrial | Temperate areas | Plenty | Plenty | Commercial /Own use | Leaves & Wood | Cricket Bat | Fodder |
| Herb | Dhoop | <i>Juninea macrocephala</i> | Terrestrial | Pasture | Plenty | Rare | Own use | Root | Dhoop / Agarbati sticks | NTFP |

| | | | | | | | | | | |
|---------|-----------------|------------------------------|-------------|-----------------|--------|--------|---------------------|------------------------|---|--|
| Herb | Kour | <i>Picrorhiza kurroa</i> | Terrestrial | Mountain region | Plenty | Plenty | Own use | Root | Medicinal use | NTFP |
| Herb | Bankakri | <i>Podophyllum hexandrum</i> | Terrestrial | Temperate areas | Plenty | Plenty | Own use | Root | Used for cancer treatment | NTFP |
| Herb | Kuth | <i>Saussurea lappa</i> | Terrestrial | Mountain region | Plenty | Plenty | Own use | Root | Medicinal use | NTFP |
| Herb | Nagchattri | <i>Trillium govanianum</i> | Terrestrial | Mountain region | Plenty | Rare | Own use | Root | Medicinal use | NTFP |
| Herb | Krees | <i>Dioscorea deltoidea</i> | Terrestrial | Temperate areas | Plenty | Rare | Own use | Rhizomes | Medicinal use | NTFP |
| Shurb | Kaimbli | <i>Berberis lycium</i> | Terrestrial | Temperate areas | Plenty | Rare | Own use | Fruits, leaves | Used as a remedy for acidity | NTFP |
| Grasses | Dhrub grass | <i>Cynodon dactylon</i> | Terrestrial | Temperate areas | Plenty | Plenty | Own use | Branch | Medicinal use | Religious purpose |
| Herb | Seski/ mooin | <i>Artemisia maritima</i> | Terrestrial | Temperate areas | Plenty | Rare | Commercial /Own use | Leaves | Used to treat gastric troubles in infants and in adults | Used in medicines |
| Herb | Rohan-hak/ Pran | <i>Allium carolinianum</i> | Terrestrial | Temperate | Plenty | Rare | Commercial /Own use | Bulbs, Leaves, Flowers | Useful in maintaining blood chloesterol, also used as a digestive tonic | Contain sulphur compounds which gives them their onion flavour |

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| Locals |
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Locals

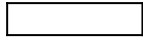
Locals

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 | Dhoop | <i>Jurinea macrocephala</i> | NTFP | Economic and social | Plenty |
| 3 | Bankakri | <i>Podophyllum hexandrum</i> | NTFP | Economic and social | Rare |
| 4 | Kuth | <i>Saussurea Lappa</i> | NTFP | Economic and social | Rare |
| 5 | Nagchattri | <i>Trillium govonianum</i> | NTFP | Economic and social | Rare |
| 6 | Krees | <i>Dioscorea deltoidea</i> | NTFP | Economic and social | Rare |
| 7 | Belladonna | <i>Atropa accuminata</i> | NTFP | Economic and social | Rare |
| 8 | Pamsalan | <i>Rheum australe</i> | NTFP | Economic and social | Rare |
| 9 | Chorai | <i>Angelica glauca</i> | NTFP | Economic and social | Rare |
| 10 | Hund | <i>Taraxacum officinalis</i> | NTFP | Economic and social | Common |
| 11 | Hamesh bahar | <i>Calendula officinalis</i> | Wild | Economic, social & religious | Rare |
| 12 | Kajuban | <i>Arnebia benthamii</i> | NTFP | Economic and social | Rare |
| 13 | Kulmoh | <i>Viburnum cotinifolium</i> | Bush/ Shrub | Social | Rare |
| 14 | Neel kanth | <i>Ajuga bracteosa</i> | Wild | Social | Rare |
| 15 | Suchal | <i>Malva neglecta</i> | Wild | Social | Plenty |
| 16 | Bhang | <i>Cannabis sativa</i> | Wild | Economic and social | Plenty |
| 17 | Kiker | <i>Robenia pseudoacacia</i> | Wild | Economic & Social | Common |
| 18 | Champ | <i>Alnus nitida</i> | Wild | Economic & Social | Common |
| 19 | Heru | <i>Quercus semecarpifolia</i> | Wild | Economic & Social | Plenty |

Gucchi

| | | | | | | | | | |
|----|----------------|----------------------------|------|------------------------------|--------|--|--|--|--|
| 20 | Moojin | <i>Artemisia maritima</i> | Wild | Economic & Social | Rare | | | | |
| 21 | Rohan-hak/Pran | <i>Allium carolinianum</i> | Wild | Economic & Social | Common | | | | |
| 22 | Kail | <i>Pinus wallichiana</i> | Wild | Economic & Social | Common | | | | |
| 23 | Ban tambaku | <i>Verbascum thapsus</i> | Wild | Economic & Social | Rare | | | | |
| 24 | Banafsha | <i>Viola odorata</i> | Wild | Economic & Social | Rare | | | | |
| 25 | Deodar | <i>Cedrus deodara</i> | Wild | Economic and social | Common | | | | |
| 26 | Kundiya/ Kundi | <i>Peziza violacea</i> | Wild | Economic | Rare | | | | |
| 27 | Bhoj patra | <i>Betula utilis</i> | Wild | Economic, Social & Religious | Rare | | | | |
| 28 | Gucchi | <i>Morchella esculenta</i> | Wild | Economic and social | Common | | | | |



Format 21: Wild Aquatic Plant Species of Importance

| 1 | 2 | 3 | 4 | 5 | 6 |
|----------------|-------------------|------------------------|----------------|-------------------|---------------|
| Sl. No. | Local Name | Scientific Name | Variety | Importance | Trends |
| NIL | NIL | NIL | NIL | NIL | NIL |
| NIL | NIL | NIL | NIL | NIL | NIL |

Format 22: Wild Plants of Medicinal Importance

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 | 9 | 10 | 11 |
|---------------------------|-----------------|------------------------------|--------------|---------------------|--------------|---------|---|---|------------------------|-------------------------------|-----------------------------|
| Plant (Herb, Shrub, Tree) | Local Name | Scientific Name | Variety | Landscape / Habitat | Local Status | | Associated TK | Uses (usage) | Part used | Other details market/ own use | Community/ Knowledge Holder |
| | | | | | Past | Present | | | | | |
| Tree | Deodar | <i>Cedrus deodara</i> | Conifer | Temperate forest | Plenty | Common | Timber, religious purpose | Used in neurological disorders, asthma, fever, arthritis & headache. | Wood | Own use | Locals |
| Herb | Bankakri | <i>Podophyllum hexandrum</i> | NTFP | Alpine forest | Plenty | Rare | Medicinal use | Cancer treatment | Roots | Own use | Locals |
| Herb | Kuth | <i>Saussurea lappa</i> | NTFP | Alpine forest | Plenty | Rare | Medicinal use | Ayurvedic medicines | Root | Own use | Locals |
| Herb | Nagchettri | <i>Trillium govonianum</i> | NTFP | Alpine forest | Plenty | Rare | Medicinal use | Used to treat boils, dysentery, inflammation. | Root | Own use | Locals |
| Herb | Krees | <i>Dioscorea deltoidea</i> | Wild | Temperate | Plenty | Rare | Medicinal use | Used in treatment of digestive disorders, wound & burns | Root | Own use | Locals |
| Herb | Belladonna | <i>Atropa accuminata</i> | NTFP | Alpine forest | Plenty | Rare | Medicinal use | Anti asthmatic | Roots and leaves | Own use | Locals |
| Herb | Pamchalan | <i>Rheum australe</i> | NTFP | Temperate forest | Plenty | Rare | Medicinal use | Useful in wound healing | Root | Own use | Locals |
| Shrub | Khumli | <i>Berberis lycium</i> | Thorny shrub | Temperate forest | Plenty | Rare | Medicinal use and for brush wood fencing | Used as a cooling agents and as a remedy for acidity | Fruit, leaves | Own use | Locals |
| Herb | Zakhm-e-hayaat | <i>Bergenia ciliata</i> | Wild | Temperate forest | Plenty | Rare | Used to treat wounds, diarrhoea and vomiting. | Useful in the treatment of uterine contraction, ulcers & kidney stones. | Root, leaves | Own use | Locals |
| Tree | Kail | <i>Pinus wallichiana</i> | Wild | Temperate | Plenty | Common | Medicinal, timber, fuel | Used to treat fever, wheezing cough & cold. | Seeds, leaves | Market/ Own use | Locals |
| Herb | Seski | <i>Artemisia maritima</i> | Wild | Temperate | Plenty | Rare | Medicinal use | As a remedy for stomach issues in infants and adults | Leaves | Market/ Own use | Locals |
| Herb | Rohan-hak/ Pran | <i>Allium carolinianum</i> | Wild | Temperate | Plenty | Rare | Medicinal use | Useful in maintaining blood cholesterol, also used as a digestive tonic | Bulbs, Leaves, Flowers | Market/ Own use | Locals |

| | | | | | | | | | | | |
|------|----------|------------------------|------|---------------------------|--------|-----------|---|---|---------|-----------------|--------|
| Herb | Banafsha | <i>Viola odorata</i> | Wild | Temperate | Plenty | Rare | Medicinal use | Used as an ingredient in tea to treat cough and cold | Flowers | Market/ Own use | Locals |
| Herb | Bhang | <i>Cannabis sativa</i> | Wild | Temperate | Plenty | Plenty | Used as a recreational or narcotic drug | Used in medicine to treat nausea, depression, migraine and other conditions | Leaves | Market/ Own use | Locals |
| Herb | Nunar | | | <i>Portulaca oleracea</i> | Wild | Temperate | Plenty | | | | |

Format 23: Wild relatives ofCrops

| 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 / Knowledge holder |
| | | | | Past | Present | | | | | |
| Wild potato | <i>Solanum chacoense</i> | None | Mountainous region | Plenty | Rare | Used in medicines | Leaves | Tubers are edible | Leaves and stem toxic | Locals |
| Vanpraan | <i>Allium atropurpureum</i> | All agricultural crop | Mountainous region | Plenty | Rare | Food | Leaves and flowers | Medicinal value | Exotic plant used as vegetable | Local |

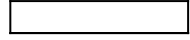
Format 24: Ornamental Plants

| 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 | | |
| Ivy | <i>Hedera nepalensis</i> | Local | Woodland, grassland, town and garden | Non- commercial | NIL | Invasive | NIL | | |
| Chinar | <i>Platanus orientalis</i> | Local | Temperate/ terrestrial | Non-commercial | Provide cool shade and home to many birds | Dried leaves are used as Kangri fuel | Locals | | |
| Gulab | <i>Rosa acicularis</i> | Local /wild | Temperate/ terrestrial | Non-commercial | Religious purpose | Rare | Locals | | |



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 longifolia</i> | Wild | Temperate | Plenty | Plenty | Cooling agent and used in various ayurvedic medicines | Whole plant | Good for digestion | Locals use it in making Chatni, dips and spices | Locals |
| | Chuku | <i>Oxalis corniculata</i> | Wild | Temperate | Plenty | Rare | Used in the treatment of influenza, fever, urinary tract infections & snake bites. | Leaves | | Locals eat the raw leaves which are sour in taste | Locals |
| | Bantambaku | <i>Verbascum thapsus</i> | Wild | Temperate | Plenty | Rare | Used in medicines | Leaves | Narcotic | | Locals |
| | Chorai | <i>Angelica glauca</i> | Wild | Temperate | Plenty | Common | Used as a fumigant to repel snakes | whole plant | A remedy for stomach ache. Also given to cows to increase the milk yield | Plant is burned, smoke acts as a repellent for snakes | Locals |
| | Bhang | <i>Cannabis sativa</i> | Wild | Temperate | Plenty | Plenty | Used in medicines | Leaves | Narcotic | Locals crush the leaves and consume it as a narcotic drug | Locals |
| Tree | Khor/Dun | <i>Juglanas regia</i> | Local | Temperate | Plenty | Plenty | Teeth cleaning, toothache | Leaves, bark | | Locals use the leaves and dried bark to clean the teeth | 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/ Knowledge Holder |
| | | | Past | Present | | | | |
| Deodar | <i>Cedrus deodara</i> | Temperate | Plenty | Common | Religious purpose | Provide durable timber | Soft wood timber | Local |
| Kail | <i>Pinus wallichiana</i> | Temperate | Plenty | Common | Furniture and fruit packing | Provide durable timber | Soft wood timber | Local |
| Fir | <i>Abies pindrow</i> | Temperate | Plenty | Plenty | Fruit packing industries | Providing good timber | Soft wood timber | Local |
| Spruce | <i>Picea smithiana</i> | Temperate | Plenty | Rare | fruit packing industries | Provide good timber | Soft wood timber | Local |
| Akhroot | <i>Juglans regia</i> | Temperate | Plenty | Common | Fruit and furniture | Provide good timber / fruit | Hard wood | Local |
| Popular | <i>Populus ciliata</i> | Temperate | Plenty | Plenty | Packing industries | Provide good timber | Hard wood | Local |
| Kikar | <i>Robinia pseudoacacia</i> | Temperate | Plenty | Common | Fuel wood, fodder | Leaves used to relieve pains | Deciduous tree with a beautiful white inflorescence | Local |

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibian, 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) | Associated TK | Mode of Hunting, collecting (if any) | Other details | Community/ Knowledge Holder |
| | | | | | | Past | Present | | | | | |
| Mammals | Kashmir grey langur | <i>Semnopithecus ajax</i> | Temperate | Greyish with black face | Throughout the year | Common | Abundant | - | | | - | |
| | Jackal | <i>Canis aureus</i> | Temperate | Nocturnal | Throughout the year | Plenty | Plenty | - | | | - | |
| | Wild cat | <i>Felis chaus</i> | Temperate | Grey, light brown in colour | Throughout the year | Common | Common | - | | | - | |
| | Lombri/ Fox | <i>Vulpus vulpus</i> | Temperate | Omnivore | Throughout the year | Plenty | Common | | | | | |
| | Pijad | <i>Capra aegagrus</i> | High altitude | Resembles goat | winter | Plenty | Rare | | | | | |
| | Hapat/ Bhalu | <i>Ursus americanus</i> | High altitude | Omnivore | Throughout the year | Plenty | Moderate | | | | | |
| | Monkey | <i>Rhesus macaque</i> | Temperate | Most common, greyish brown in colour | Throughout the year | Common | Plenty | | | | | |
| | Small Indian Mongoose | <i>Herpestes auropunctatus</i> | Temperate | Brownish in colour, carnivore | Throughout the year | Common | Common | | | | | |

| | | | | | | | | | | |
|-------|-----------------------------|-------------------------------|-----------|--|---------------------|--------|----------|---|--|---|
| | Leopard | <i>Panthera pardus</i> | Forest | Natural habitat | Summer | Plenty | Common | - | | - |
| Birds | Alpine accentor | <i>Prunella collaris</i> | Temperate | Small, dull brown & greyish in colour | Throughout year | Plenty | Plenty | - | | - |
| | House crow | <i>Corvus splendens</i> | Temperate | Black in colour with a strong beak, omnivore in nature | Throughout the year | Plenty | Plenty | - | | - |
| | Chidya/ Seid/ House sparrow | <i>Passer domesticus</i> | Temperate | Small birds with sexual dimorphism, feed on seeds & grains | Throughout the year | Plenty | Common | - | | - |
| | Himalayan Griffon | <i>Gyps himalayensis</i> | Temperate | Natural habitat | Throughout year | Plenty | Moderate | - | | - |
| | Jungle Crow | <i>Crovis macrorhynchus</i> | Temperate | Black in colour with a strong beak, omnivore in nature | Throughout year | Plenty | Plenty | | | |
| | Black tit | <i>Periparus rufonuchalis</i> | Temperate | Dull black in colour with dark black head and throat and white spots on cheeks | Throughout year | Plenty | Rare | - | | |
| | Blue rock thrush | <i>Monticola solitarius</i> | Temperate | Blue in colour with brownish abdomen | Throughout year | Plenty | Moderate | | | |
| | Blue wistling thrush | <i>Myophonus careuleus</i> | Temperate | Found in high altitudes | Throughout the year | Plenty | Plenty | - | | - |
| | Blue rock pigeon | <i>Columba livia</i> | Temperate | Grey in colour, feed on seeds, grain | Throughout the year | Common | Abundant | - | | - |

Necessary for maintaining the ecological balance

Prohibited

Locals

| | | | | | | | |
|--------------------|------------------------------|-----------|---|---------------------|----------|--------|---|
| Common myna | <i>Acridotheres tristis</i> | Temperate | Brown in colour with a yellow beak, feeds on seeds, grain | Throughout the year | Plenty | Common | - |
| Common cuckoo/koel | <i>Eudynamis scolopacea</i> | Temperate | Males black in colour and females dull grey with small black spots over the body. | Throughout the year | Plenty | Plenty | - |
| Tota | <i>Psittacula himalayana</i> | Temperate | Green with a slaty black head and a red beak. Feed on seeds, grain & fruits. | Throughout the year | Plenty | Common | |
| Cheel | <i>Milvus migrans</i> | Temperate | Carnivore, solitary bird | Throughout the year | Plenty | Common | |
| Chakor | <i>Alectoris chukar</i> | Temperate | Grey in colour, feed on seeds & grains | Throughout the year | Abundant | Rare | - |

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|---------|-------------------|------------------------------|-----------|---|---------------------|----------|----------|
| Insects | Dragonfly/ jahaz | <i>Orthetrum triangulre</i> | Temperate | Bluish and black in colour | Summer | Common | Common |
| | Cabbage butterfly | <i>Pteris brassicae</i> | Temperate | White in colour with black spots on fore wings. | Summer | Abundant | Abundant |
| | Cockroach | <i>Periplaneta americana</i> | Temperate | Waste material, food | Summer | Rare | Common |
| | Bed bug | <i>Cimex lectularius</i> | Temperate | Light brown in colour, flat oval | Summer | Common | Common |
| | Makhi | <i>Musca domestica</i> | Temperate | Small, black in colour with hairy body, nuisance pest | Summer | Common | Plenty |
| | Ant/ Chinti | <i>Solenopsis invicta</i> | Temperate | Black in colour, nuisance pest | Throughout the year | Common | Plenty |
| | Machar | <i>Culex sp.</i> | Temperate | Small light coloured with black and white abdomen | Summer | Common | Abundant |

| | | | | | | | | |
|-----------|---------------------|------------------------------|-------------|--|---------------------|----------|--------|--|
| Annelids | Earthworm | <i>Pheritema posthuma</i> | Temperate | Pinkish in colour with a slender, segmented body. | Summer | Common | Common | Used in vermicompost. Commonly known as farmer's friend. |
| Rodents | Rat/ Gagud | <i>Rattus rattus</i> | Temperate | Grey colour, large size | Throughout the year | Plenty | Plenty | Various types of venomous and non-venomous snakes found commonly |
| | Porcupine/ Shale | <i>Hystrix indica</i> | Temperate | Has sharp spikes | Throughout the year | Plenty | Common | |
| | Een | <i>Eoglaucmys fimbriatus</i> | Temperate | Nocturnal, Greyish Black in colour with a furry tail | Throughout the year | Plenty | Common | |
| Reptiles | Saanp | Serpentes (Sub-order) | Temperate | Limbless, carnivore with mobile jaw | Summer | Plenty | Common | |
| | Himalayan pit viper | <i>Gloydius himalayanus</i> | Rocky Hills | Black and grey in colour | Summer | Plenty | Common | |
| Amphibian | Frog | <i>Rana tigrina</i> | Temperate | | summer | Abundant | Common | |



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.) |
| NA | NA | NA | NA | NA | NA | NA |

Format-30 : Fauna.

| 1 | 2 | 3 | 4 | 5 | 6 |
|--------|------------------------|----------------------------------|---|----------------|-----------------------------|
| S. No. | Local Name | Scientific Name | Type of Animals (Mammals/ Birds/ Fish/ Insect etc.) | Habitat | Remarks (Rare/ Common etc.) |
| 1 | Leopard | <i>Panthera pardus</i> | Mammal | Forest | Rare |
| 2 | Jackal | <i>Canis aureus</i> | Mammal | Forest | Common |
| 3 | Black bear | <i>Ursus americanus</i> | Mammal | Forest | Rare |
| 4 | Shail/ Porcupine | <i>Hystrix indica</i> | Mammal | Forest | Rare |
| 5 | Chuha/Rate | <i>Mus booduga</i> | Mammal | Home/forest | Common |
| 6 | Wild shawl | <i>Nudibranchs</i> | Mammal | Home/forest | Rare |
| 7 | Wild goat | <i>Capra aegagrus</i> | Mammal | Home/forest | Rare |
| 8 | Wild dog | <i>Lycan pictus</i> | Mammal | Home/forest | Rare |
| 9 | Wild fox | <i>Vulpes vulpes</i> | Mammal | Home/forest | Common |
| 10 | Wild cat | <i>Felis silvestris</i> | Mammal | Home/forest | Common |
| 11 | Chakor | <i>Alectoris chukar</i> | Bird | Home/forest | Rare |
| 12 | Pintail | <i>Anas acuta</i> | Bird | Every where | Rare |
| 13 | parrot | <i>Psittaciformes</i> | Bird | Every where | Rare |
| 14 | Pigeon | <i>Columbidae</i> | Bird | Every where | Rare |
| 15 | House Sparrow | <i>Passer domesticus</i> | Bird | Every where | Rare |
| 16 | Sparrow | <i>Passer domesticus</i> | Bird | Every where | Rare |
| 17 | crow | <i>Corvus</i> | Bird | Every where | Rare |
| 18 | Peacock | <i>Pavo cristatus</i> | Bird | Every where | Rare |
| 19 | Bearded Vulture | <i>Gypaetus barbatus</i> | Bird | AS, RO, AE | Rear |
| 20 | Black Kite | <i>Milvus migrans</i> | Bird | GD, PC, FD, AE | Rear |
| 21 | Black- eared Kite | <i>Milvus [migrans] lineatus</i> | Bird | GD, AE | Summer Visitors |
| 22 | Bonelli's Eagle | <i>Aquila fasciata</i> | Bird | AE, OH | Winter Visitors |
| 23 | Booted Eagle | <i>Hieraaetus pennatus</i> | Bird | PS, AE, RO | Winter Visitors |
| 24 | Cinereous vulture | <i>Aegyptius monachus</i> | Bird | TB, OH, AE | Winter Visitors |
| 25 | Eastern Imperial Eagle | <i>Aquila heliaca</i> | Bird | TC, OH, AE | Winter Visitors |

| | | | | | |
|----|------------------|------------------------------|------|------------|-----------------|
| 26 | Egyptian Vulture | <i>Neophron percnopterus</i> | Bird | GD, AE, FD | Summer Visitors |
|----|------------------|------------------------------|------|------------|-----------------|

Format 31: Any other information of local importance

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