

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: -Bhalwal Mullo

Taluk: Pargwal

District:Jammu

State: J&K

Geographical Area of the Panchayat Samiti: 1242.87 (In Hects)

Population under the Panchayat Samiti: Total: 3287

Male: 1543 Female: 1744

Habitat and Topography: Plain and Low lying area

Climate (Rainfall, Temperature and weather patterns) : Moderate and Dry

Land Use (Nine fold classification available with village records)

Date, Month and Year of PBR Preparation: August 2020

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

Annexure 1

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

Name of the Chairperson: Swaran Kanta

Term: 0 Year

Gender: Female

Address: R/o Bhalwal Mullo

Field of specialization:

Name: Swarno Devi

Term: 1 Year

Gender: Female

Address: R/o Bhalwal Mullo

Field of specialization:

Name: Kamlesh devi

Term: 0 Year

Gender: Female

Address: R/o Bhalwal Mullo

Field of specialization:

Name: Mulkh Raj

0 Year

r: Male

ss: R/o Bhalwal Mullo

f specialization:

e: Shamsher Singh

0 Year

r: Male

ss: R/o Bhalwal Mullo

f specialization:

e: Kirpal Singh

5 Year

r: Male

ss: R/o Bhalwal Mullo

f specialization:

e: Kulbushan Singh

9 Year

r: Male

ss: R/o Bhalwal Mullo

f specialization:

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 : Kewal Krishan Singh

Age:54 Year

Gender: male

Address: R/o Bhalwal Mullo

Area of specialization: Human Hakim

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name: Ratan Singh

Age:60 Year

Gender:Male

Address: R/o Najwal

Area of specialization: Human physician

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

3) Name:

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

Annexure 3

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: Uttam Singh

Age: 47 Year

Gender: male

Address: R/o Najwal

Area of specialization: Agriculture

2) Name of the Chairperson: Subash Chander

Age: 53 Year

Gender: male

Address: Nikowal

Area of specialization: Forestry

3) Name of the Chairperson: Joginder Lal

Age: 57 Year

Gender: Male

Address: R/o Channi Tanna

Area of specialization: Animal Husbandry

4) Name of the Chairperson: Tarsem Singh

Age: 58 Year

Gender: Male

Address: R/o Bhalwal Mullo

Area of specialization: Fisheries

Annexure 4

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

1) Contact Person:

Name and Address: Sushma Devi (Teacher)

2) Contact Person:

Name and Address: Asha Devi (Anganwari Worker)

3) Contact Person:

Name and Address: Dr. Veer Abhimanya Koual (Veterinary Surgeon)

4) Contact Person:

Name and Address: Surinder Kumar (Forest)

Annexure 5

S.no	Name and address of the Person/Institute/company others	Local and Scientific Name of the biological material Accessed and quantity	Date and resolution of the BMC and endorsement by the Panchayat	Detail of collection fee imposed	Anticipated mode of sharing benefits or quantum of benefits shared
1	Nil	Nil	Nil	Nil	Nil

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>	Dhan/ Munji	B-370(Fine & Long duration)	Planes / Low laying Areas		Normal	Normal	Basmati 370 is world wise known for its aroma	Food & Fodder	Provides energy fragrance and taste	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
			Basmati 1121/(Coarse K39 K434 Rattana & Long duration)			Normal	Normal	Medium tall Coarse Grains						
Maize	<i>Zea mays</i>	Maka	Dekalb double	Sub tropical / Upland		Rare	Plenty	Tall, high yielding with yellow in colour)	Food & Fodder	Provides energy	-	Kharif (May to October)	Farmers / Department/ Private Suppliers	Farmers
			K-517			Plenty	Rare	Average tall with yellow in colour						
			Ujala			Normal	Plenty							
			K-612			Plenty	Normal							
			Pro Agro-4794			Plenty	Normal							
			MHB-110			Normal	Normal							
Wheat	<i>Triticum aestivum</i>	Kanak	HD2967,PBW644	Cool Climate during early part of its growth		Plenty	Plenty	High yielding Variety	Food & Fodder	Source of Energy	Suitable for Chappati/Bread making	Rabi	Farmers / Department/ Private Suppliers	Farmers

Peas	<i>Pisum sativum</i>	Matar	Rachna	Cool & dry
Onion	<i>Allium cepa</i>	Gamd	nasik Red. Red Coral, Monsanto And Local Spp.	local Planee areas
Mustard	<i>Brassica juncea/ Brassica compestris</i>	Sarson	Pusa Bold/ KOS -1	Cool & dry
Gobhi Sarson	<i>Brassica napus</i>	Gobhi Saria	GSL-1,DGS-1 ,Local	Cool & dry
Linseed	<i>Linum usitatissimum</i>	Alsi	LC 54	Cool & dry
Potato	<i>Solanum tuberosum</i>	Aalo	Kufri Sindhuri,Kufri Badsha, local	Potato is an herbaceous annual,requires cool weather,mostly rainfed conditions
Toria	<i>Brassica j. rape cv.Toria</i>	Toria	RSPT-1,RSPT-2,Local var.	Cool & dry with bright sunshine

Normal	Normal	Early maturing &High yielding	Food	Source of Protein/Energy	Used as Vegetable	Rabi	Farmers / Department/ Private Suppliers	Farmers
Abundant	Normal	Bulbs Cash Crop	Vegetables	Vegetable	Staple Vegetable food	Rabi	Farmers / Department/ Private Suppliers	
Normal	Normal	Matures in 145-150 days with 40-42 % oil content	oil for Food	Source of energy	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers
Normal	Normal	Annual Herb,yellow flowers bearing Pods	oil for Food,leaves used as vegetable	Source of energy i,calciam,copper, potassium	vegetable Oil extracted from seeds used in cooking	Rabi	Farmers / Department/ Private Suppliers	Farmers
Normal	Normal	Medium duration	Food & fiber	Source of energy in the shape of Oil	Medicinal,industrial & domestic use	Rabi	Farmers / Department/ Private Suppliers	Farmers
Abundant	Normal	Tubers are round to ovoid, creamish white to light red in colour with shallow eyes	Under ground tubers are used as vegetable,chips etc	-	High carbohydrate,provide high n energy value	Rabi	Farmers / Department/ Private Suppliers	Farmers
Normal	Rare	Short durationAnnual Herb	oil for preparation of Food	Source of energy i,calciam,copper, potassium	vegetable Oil extracted from seeds used in cooking	Between Kharif & Rabi season	Farmers / Department/ Private Suppliers	Farmers

Sesame	<i>Sesamum indicum</i>	Til	Punjab Til No.1/local	Warm / Humid of Sub tropical region
Sugarcane	<i>Saccharum officinarum</i>	Ganna	COJ-64,COJ-81	Sub Tropical
Chilli	<i>Capsicum spp</i>	Mirchi	Pusa Jawala, CH-1	Tropica/sub tropical vegetable.grows well warm humid conditions
Tomato	<i>Solanum lycopersicum</i>	Tamater	Pusa rubi,Pusa early dwarf, Manisha Plus/local	Warm season crop
Okra	<i>Abelmoschus esculentus</i>	Bindi	Varsha uphar, Arka Anamika	Tropica/sub tropical vegetableHot and humid climate
Cucumber	<i>Cucumis sativus</i>	Kheera	Kheera local,JL	Grows in all climatoic conditions,Tropica l,Sub tropical &temprate
Bottle gourd	<i>Lagenaria siceraria</i>	Lokki	PSPL/Punjab Long	Summer &rainy season crop
Bitter gourd	<i>Momordica charantia</i>	karela	Pusa Domausmi/Kundan	Warm and Humid climate

Normal	Rare	Medium Yielding	Food	Source of Vegetable oil	Religiuos and medicinal value	June - Oct.	Farmers / Department/ Privaate Suppliers	Farmers
Rare	Rare	Long duration crop for Nine months	Food	Source of energy in the shape of Gur/Sugar	Sugar cane Juice used as prefered drink for instant source of energy during summer besides beating heat	Spring season	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Pungency and flavor	Used as spice ,medicianal value	-	Contains good ammount of vitamin A&C	winter season	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Rare	Stems are woody and weak, and tend to vine over other types of plants.	Used as vegetable ,salad, soup,Souce	rich source of Ascorbic acid	Tomatoes are also packed with vitamins A and C, calcium, potassium.	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Rare	Tender green fruit used as vegetable	Mainly vegetable	Source of Fiber	Contains dieta fibers,protein and carbohydratesry	Summer/Kharif	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Limbing annual bearing elongated thick cylendrical fruit	Mainly used as salad	-	It also used asantipyretic and causing cooling effect	Summer/Kharif	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Vines vigrous, profusly branched	Subzis, curries and gravies.	-	It also contains essential vitamins and minerals	Summer/kharif	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Herbaceous climbing annual with ridged stems	Vegetable and medicinal value	-	Used for maitaining low suger level	Summer/kharif	Farmers / Department/ Privaate Suppliers	Farmers

Beans	<i>Phaseolus Spp.</i>	Phaliya	Contender	Cool weather crop/Sandy/loamy soil
Cauliflower	<i>Brassica oleraceae var.botrytis</i>	Fol gobi	Pusa snow ball,Pusa Katki,local Girja	Both sub tropical &intermediate
Cabbage	<i>Brassica oleraceae var.capitata</i>	Band gobi	Golden Acre,Pride of India,Green Flesh	Both sub tropical &intermediate
Knol khol	<i>Brassica oleraceae var.gongyloides</i>	Kadam	White vienna,Purple vienna	cool &moist climate/sub tropical
Spanich	<i>Spinacea oleracea</i>	Palak	All Green,Delta	Cool season Crop, thrives well on well drained loam soils
Radish	<i>Raphanus sativus</i>	Mulli	Japanes White ,Koren Etc	Cool season Crop, thrives well on well drained Sandy loam soils
Carrot	<i>Daucus carota</i>	Gajer	Pusa Kesar,local	Cool &moist climate/ sub tropical& intermedite
Turnip	<i>Brassica rapa</i>	Gunglu /Shalgam	PTWG/Local	Cool &moist climate/sub tropical&intermedite

Abundant	Normal	Tender green pods are used as vegetable	Mainly vegetable	Source of energy in the shape of Gur/Sugar	High vale protein,VitamineB1, B2<B6 and Maganese	Summer season	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	White and tender head ,curdformed from shortened flower part	Curd Mainly used as vegetable	-	Also good source of protein,carbohydrate ,phasphorus& iron	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Round head withlight to dark green colour	Head Mainly used as vegetable,salad	-	Also good source of protein,carbohydrate ,phasphorus& iron	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Rare	Swollen stem ,grrn/purple with long and broad leaves	Swollen stem and leaves are consumed as vegetable	-	-	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Tender green leaves & root used as Vegetable	Tender green leaves used as leafy Vegetable	-	Vitamins A and C, fiber, folic acid, and other nutrients	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Normal	Tender green leaves &roots used as Vegetable	Modified Roots are used as Vegetabke & Salad	-	Full of vitamin A, C, E, B6, potassium, and other minerals,	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Rare	Modified Root is eatable	Root is used as Vegetable, Salad, Juice, Sweet Dish, Preserve etc.	-	Good source of carotene, , lutein, and zeaxanthin.Vit A,C,B6,Folic acid	Rabi	Farmers / Department/ Privaate Suppliers	Farmers
Abundant	Abundant	Modified Root is eatable	Root is used as Vegetable ,Salad,.	-	Good source of Vit.C,Diatry Fiber &Potasium	Rabi	Farmers / Department/ Privaate Suppliers	Farmers

Format 02 : Fruit Plant

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder
					Past	Present						
Mango	<i>Mangifera indica</i>	Aam	Desi, Dusheri, Malta	Plains	Plenty	Plenty	Nurseries	Jun-Aug	Fruit, Pickle, Preserves		Marketing, Own Use	
Citrus Fruit	<i>Citrus spp.</i>	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	Local Selection, Kagzi Lime etc.	Plains, mid hills	Plenty	Plenty	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc		Marketing, Own Use	
Litchi	<i>Litchi chinensis</i>	Litchi	Culcatta, Dehradun	Plains	Plenty	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing
Guava	<i>Psidium guajava</i>	Amrood	Local, L49 etc.	Plains, Lower Hills	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Anjoor	Local Dakh, Perlette	Vine, Regular Bearing	Rare	Rare	Plenty	Nurseries	Jul - Aug	Fruit		
Ber	<i>Ziziphus mauritiana lamk</i>	Ber	Gola, Varanasi	Tree, Regular bearing	Plenty	Rare	Local	Jul - Aug	Fruit		Own Use	
Jamun	<i>Syzygium cumini</i>	Jamun	Local Selection	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit		Own Use	
Pomegranate	<i>Punica granatum</i>	Anaar, Druni	Ganesh, Kandhari, Local	Plains, Mid hills	Rare	Rare	Nurseries, Local Raised, Wild	May - Aug	Fruit, Anardana		Own Use	

Format 03 Fodder Crop/ Species

1	2	3	4	5		6	7	8	9	10
PLANT	LOCAL NAME	SCIENTIFIC NAME	LANDSCAPE/HABITAT	LOCAL STATUS		SOURCE OF PLANT/SEEDS	PART USED	ASSOCIATED TK	OTHER DETAILS	COMMUNITY/ KNOWN HOLDER
				PAST	PRESENT					
Barseem	Chhatala	<i>Trifolium alexandrium</i>	Sub Humid & moderately cool	Abundant	Abundant	Entire Plant	Nutritious & palatable fodder, Source of energy for animals	Fodder	Farmers / Department/ Private Suppliers	Farmers
Oats	Javi	<i>Avena spp.</i>	Cool & Moist climate	Abundant	Abundant	Above ground part of plant	Nutritious & palatable fodder	Fodder	Farmers / Department/ Private Suppliers	Farmers
Sorghum	cherri	<i>Sorghum spp.</i>	Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Fodder	Farmers / Department/ Private Suppliers	Farmers
Maize	Makki	<i>Zea mays</i>	Warm & humid	Abundant	Abundant	Above ground part of plant	Source of energy	Food & fodder		Farmers

Bajra	Bajra	<i>Pennisetium americanum</i>	Warm & humid	Abundant	Normal	Above ground part of plant	Source of energy	Food & fodder	Farmers / Department/ Private Suppliers	Farmers
Cowpea	Rongi	<i>Vigna unguiculata</i>	Warm & humid	Abundant	Normal	Above ground part of plant	Kharif Legume with high protein	Fodder		Farmers

Format 04 Weeds

1	2	3	4	5	6	7		8	9	10	11	12
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					
Pig Weed	<i>Amaranthus viridis</i>	Jangli Choulai	Rice, Maize & sugarcane	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein & amino acid	Also Used as medicinal herb	Farmers
Lamb's quarters	<i>Chenopodium album</i>	Bathua/Kanah/Wild Spinach	Wheat, Pea, Potato	Annual herb	Agri. Land	Normal	Normal	Eaten as boiled green veg	Physical, Mechanical, Chemical	Rich Source of protein, Vit. A, Calcium, Phosphorous & potash	Annual feed & fermentation of Beverages	Farmers
Nut Grass	<i>Cyperus rotundus</i>	Dilla/Motha	Paddy, maize, sugarcane, vegetable	Perennial	Agri. & Non Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Traditionally used as medicine	Farmers
Barnyard Grass	<i>Echinochloa crusgalli</i>	Swank	Paddy	Annual	Agri. Land	Abundant	Abundant	Fodder & Animals	Physical, Mechanical, Chemical	Nil	Nil	Farmers
Carrot grass	<i>Parthenum hysterophorus</i>	Congress Grass	Gardens & sugarcane ratoon crops & other crops	Annual	Agri. Land	Abundant	Abundant	Nil	Physical, Mechanical, Chemical	Abnoxious weed difficult to manage		Farmers

Bur Clover	<i>Medicago denticulata</i>	Maina	Wheat Grass Peas	Perennial herbaceous legume	Agri. Land	Normal	Normal	Fodder,vegetable & green manure	Mechanical, Chemical	Nil	Improves Soil fertility	Farmers
Canary Grass	<i>Phalaris minor</i>	Sitti/gilli danda	Wheat Grass Peas, mustard	annual	Agri. Land	Abundant	Abundant	Fodder & forage	Mechanical, Chemical	Source for High quality protein	Agri. Land	Farmers
Meadow Pea	<i>Lathyrus aphaca</i>	Matri	Wheat Grass Peas, mustard	annual	Agri. Land	Normal	Normal	Fodder	Mechanical, Chemical	Nil	Agri. Land	Farmers
Canada Thistle	<i>Cirsium arvense</i>	Leh	Wheat gram, Barley	Perennial	Agri. & wasteLand	Normal	Normal		Mechanical, Chemical	Nil	Agri. Land	Farmers
wild onion	<i>Allium humaie</i>	Jangli payas	Onion	Annual herb	Temprate/sub tropical	Rare	Rare	Food and medicine	All parts used	-	-	Farmers

Format 05 Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientific name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder
Mustard aphid	aphid	<i>Lipaphis erysimi</i>	Sucking pest	Attacks mustard & other cucurbit crops	Dec-March	Timely sowing of crop & Chemical, Biological & Mechanical	-	Major threat to oil seed crops of Rabi	Farmers
Termite	Telle	<i>Microtermis obesi/ Odontoremes obesus</i>	Chewing & biting	Wheat & other crops	Nov-May	Cultural & Chemical measures	-	Major threat to unirrigated crops	Farmers
Blister beetle	Ghori	<i>Mylabris spp.</i>	Chewing & biting	Attacks Maize, Bhindi & Pulses	June-Oct	Mechanical& Chemical measures	-	Insectivorous feed on grasshopper	Farmers
Cereal leaf Beetle		<i>Oulema melanopus</i>	Chewing & biting	Attacks Maize	Aug-Sep	Chemical measures	-	Most recent occurrence	Farmers
Red Pumpkin Beetle	Lal Kaddu Beetle	<i>Raphidopalpa foveicellis</i>	Chewing & biting	Cucurbits	March-Oct	Chemical measures	-	Most common in fields of Cucurbits	Farmers
Cucurbits fruit fly	Melon fly	<i>Bactrocera cucurbitae</i>	Chewing & biting	Attacks Pumpkin, cucumber & gourds	Throughout the year	Mechanical & Chemical, Pheronon trap	-	Danger to all cucumber crops	Farmers
Maize stem Borer	Sundi /Tana-shedak	<i>Chilo partellus</i>	Chewing & biting	Attacks Maize, sorghum , Bajra & sugarcane	July to sept	Mechanical& Chemical measures	-	Causes dead hearts in young plants	Farmers

Grasshopper	Tidi	<i>Hygro blasses Negro / Hieroglyphus nigropletus</i>	Maize and Paddy	Maize, Paddy, Jojr Bajra	July to sept	Mechanical& Chemical measures	-	Eats leaves	Farmers
Rice Gandhi Bug	Gandhi Bug	<i>Leptocorzia varcornis</i>	Paddy	Paddy at miliking stage	July to Oct.	Mechanical& Chemical measures	-	Pierce the grains at miliking stage	Farmers
Army worm	Caterpillar	<i>Spodoptera Frugiperda</i>	All Crops	Defoliates Major crops	Through the year	Mechanical& Chemical measures	-	Defoliates all crops	Farmers

Format 7: Peoplescape

1	2	3	4	5	6	7	8	9	10	11
Community & Population	Families & Major occupation	Sub- occupation	Depending Landscape	Major resources accessed and seasons of access	Landscape management practices	Resource management practices	Cast / tribe	Social condition	Nature of inhabitants	No. of HHs
Hindu Population	Agriculture	Fisheries Forestry animal husbandary Govt. Employees Private sector	Nil	Nil	Nil	Nil	SC/ST/Gen	Nil	Nil	799

Format 8: Landscape

1			2	3	4	5	6	7	8	9	10	11	12
Major Landscapes			Sub - Landscapes	Feature s 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											
Nil													

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
NIL												

Format 10 Soil Type Block Pargwal Panchayat Gurha Manhasa (District Jammu)

1	2	3	4	5	6	7	8
Soil Type	Color & Texture	Features	Soil management	Plants / crop suitable	Flora and fauna	Associated TK	Other information
Sandy Loam	Soft Dark	Large particle size, Water drains Rapedily	Add compost, humus, Green Manuring, Decomposed manure etc improves soil quality for better plant growth	Beans, Tomato, Potato, Cucumber, onion, eggplants, carrot, Spinach etc.	Succulants like cacti, Lambs ear, etc.	-	Genrally not suitable for plants which need lot of water
Clay Loam	Light yellow to raddish colour	Small particles size, Texture dense and compact, retains water and nutrition	Provide good drainage, add organic manure in the form of compost or humus	Plants/Crop Suitable	Ornamental Plants/ grasses, plants with evergreen leaves, colourful Berries	-	Soil is good for wild varieties of crops, however drainage is a problem

Format 11: Fruit Trees

1	2	3	4	5	6	7		8	9	10	11	12	13
Plant Type	Local Name	Scientific Name	Variety	Habit	Landscape/ Habitat	Local Status		Source of plant/seeds	Season of Fruiting	Uses (usage)	Associated TK	Other details market/own use	Community/ Know. holder
						Past	Present						
Mango	Aam	<i>Mangifera indica</i>	Desi, Dusheri, Malta	Alternate Bearing	Plains	Plenty	Plenty	Nurseries	Jun-Aug	Fruit, Pickle, Preserves		Marketing, Own Use	
Citrus Fruit	Khatti, Galgal, Nimbu, Santra, Kinnoo etc.	<i>Citrus spp.</i>	Local Selection, Kagzi Lime etc.	Tree, Regular Bearing	Plains, mid hills	Plenty	Plenty	Nurseries	Through Out Year	Fruit, Pickle, Squashes etc		Marketing, Own Use	
Litchi	<i>Litchi chinensis</i>	Litchi	Culcatta, Dehradun	Tree, Regular Bearing	Plains	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing	
Guava	Amrood	<i>Psidium guajava</i>	Local, L49 etc.	Tree, Regular Bearing	Plains, Lower Hills	Plenty	Plenty	Nurseries	Jul - Aug	Fruit		Marketing, Own Use	
Grapes	<i>Vitis vinifera</i>	Anjoor	Local Dakh, Perlette	Vine, Regular Bearing	Plains, Mid Hills	Rare	Plenty	Nurseries	Jul - Aug	Fruit			
Aonla	Ambla	<i>Phyllanthus emblica</i>	Local Selection, NA-7	Tree, Regular Bearing	Plains	Plenty	Normal	Nurseries, Local Collections	Nov.- Dec	Pickling Preserve etc		Marketing, Own Use	
Ber	Ber	<i>Ziziphus mauritiana lamk</i>	Gola, Varanasi	Tree, Regular Bearing	Plains	Plenty	Plenty	Local	Jul - Aug	Fruit		Own Use	
Jamun	Jamun	<i>Syzygium cumini</i>	Local Selection	Tree, Regular Bearing	Plains	Rare	Rare	Nurseries, Local Raised	Jul - Aug	Fruit		Own Use	
Pomegranate	<i>Punica granatum</i>	Anaar, Druni	Ganesh, Kandhari, Local	Tree, Regular Bearing, Shrub	Plains, Mid hills	Rare	Rare	Nurseries, Local Raised, Wild	May - Aug	Fruit, Anardana		Own Use	

Format 13: Ornamental Plants/ Trees/Climbers etc.

1	2	3	4	5	6	7	8	9	10
Plant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial/ non- commercial	Uses	Associated TK	Other details	Community/ Know. holder
Nil	Nil	<i>Nil</i>							

FORMAT15: DOMESTICATED ANIMALS

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
Cattle	Gau	<i>Bos indicus</i>	ND	Low yield	stall feeding	Abundant	Decrease	Dairy	Nil	No	Milk	All
	Jersey Gau	<i>Bos taurus</i>	CB Jersey	Dished face	stall feeding / semi intensive	Very few	Increase	Dairy	Nil	yes	Milk	All
	Amrekan Gau	<i>Bos taurus</i>	CB HF	Black and white spot	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Buffalo	Manj	<i>Bubalus bubalis</i>	Local	Low yield	stall feeding	Abundant	Decreased	Dairy	Nil	No	Milk	All
	Punjabi Mais	<i>Bubalus bubalis</i>	Murrah /Graded	Black color body	stall feeding / semi intensive	Very few	Increased	Dairy	Nil	Yes	Milk	All
Horse	ghoda	<i>Equus caballus</i>	Local	Red color body	Backyard	Abundant	Decrease	Pack/ Cart	Nil	No	Pack/ Cart	All
Poultry	Kukkar	<i>Galus domesticus</i>	Local	Enriched meat flavor	Backyard	Abundant	Decrease	Egg ,meat	Nil	No	Egg ,meat	All
	Farmi Kukkar	<i>Galus domesticus</i>	Chabro	good egger	Backyard	few	Increased	Egg.meat	Nil	No	Egg ,meat	All
	Broiler	<i>Galus domesticus</i>	Hybrid	white color , fast growing	deep litter	few	Increased	meat	Nil	Yes	Meat	All
Pig	Suar	<i>sus scrofa domesticus</i>	Yorkshire cross	white	Wild	few	Increased	Meat	Nil	Yes	Nil	Sikh /Christians/SCC community

Format 16: Culture Fisheries (Panchayat: 245-Bhalwal Mullo)

1	2	3	4	5	6	7		8	9	10	11	12
Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (pond/bheri/talao)	Local status		Uses	Associated TK	Commercial rearing	Other details	Community Know. Holders
						Past	Present					
Carp	Rohu	<i>Labeo rohita</i>	Indian Major Carp	Large Silver coloured fish, arched head	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	
	Catla	<i>Catla catla</i>	Indian Major Carp	large & broad head, grey scales, protruding lower jaw	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	
	Mrigal	<i>Cirrhinus mrigala</i>	Indian Major Carp	cycloid scales, mouth broad ,pharyngel teeth in 3 rows	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	
	Grass carp	<i>Ctenopharyngodon idella</i>	Exortic Carp	Wide & scaleless head, terminal mouth, protracted upper jaw	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	
	Common Carp	<i>Cyprinus Carpio</i>	Exortic Carp	Have long dorsal fin, have small barbels, mouth opens in an accordion like fashion	Pond	Available	Availabe	Own & Commercial use	Use as food as a good source of protein	Yes	-	

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					
Trees	Talli	<i>Dalbergia sissoo</i>	Trees			Normal	own	Stem	nil	nil	Generally, held by community
Trees	Tooth	<i>Morus alba</i>	Trees			Normal	own	Leaves/Fruit	nil	nil	Generally, held by community
Trees	Popular	<i>Populus ciliata</i>	Trees			Normal	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Trees			Normal	commercial	Stem	nil	nil	Generally, held by community
Trees	Sree	<i>Albizzia lebbek</i>	Trees			Normal	own	Leaves/Stem	nil	nil	Generally, held by community
Trees	Simbal	<i>Bombax ceiba</i>	Trees			Normal	commercial	Leaves/Stem	nil	nil	Generally, held by community
Tree	Draink	<i>Melia azedarach</i>	Tree			Normal	Own Use	Leaves/Wood			Self observed
Trees	Bill-Patre	<i>Angle mermelos</i>	Trees			Normal	own	Fruit	posses medicinal properties	nil	Generally, held by community
Trees	Badh	<i>Ficus Benghalensis</i>	Trees			Normal					
Trees	Peepal	<i>Ficus Religiosa</i>	Trees			Normal					

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
<i>Nil</i>					

Format 20: Aquatic Biodiversity

1	2	3	4	5	6		7	8	9	10
Local Name	Scientific Name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community/ Knowledge Holder
					Past	Present				
Kayehri	<i>labeo dero</i>	Local	Slender body covered with cycloid scales, head is over, silvery grey with rounded abdomen.	Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	20%
Seeng	<i>Mystus seengala</i>	Local	Have long Barbels, Scaleless body, Chisel shaped head, Cat fish	Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	20%
Sol	<i>Channa marulius</i>	Local	Snakehead fish, Air Breathing Fish	Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	20%
Mooree	<i>Channa orientalis</i>	Local	Snakehead fish, Air Breathing Fish	Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	20%
Rohu	<i>Labeo rohita</i>	Indian Major Carp	Large Silver coloured fish, arched head	Nullah	Available	Available	Own & Commercial use	Used as food as source of protein	-	20%

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
Sl. No.	Local Name	Scientific Name	Variety	Importance	Trends
No Aquatic weed found in this panchayat					

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					
Nil											

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										

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
Nil							

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				

nil

Format 27 A: Coastal and Marine Flora

Plant Type	Local Name	Scientific Name	Habitat	Local status		Part collected	Commercialuses (if any)	Other Uses	Associated TK	Community Knowledge Holder
				Past	Present					
NIL										

Format 29: Flora

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

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.)
Nil					

Format 31: Any other information of local importance

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