

People Biodiversity Register (PBR): General Details

Name of the Panchayat Samiti: Gurha Slathia Lower

Taluk: Vijaypur

District: Samba

State: J&K

Geographical Area of the Panchayat Samiti:

Population under the Panchayat Samiti: Total 2348

Male 1193

Habitat and Topography: Kandi

Climate (Rainfall, Temperature and weather patterns)

Land Use (Nine fold classification available with village records)

Date, Month and Year of PBR Preparation: 16-02-2022

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

Name of the Chairperson: Jatinder singh

Gender: Male

Ward: Mandhi Udh Gurha Slathia

Specialization:

Name: Rakesh singh

Gender: Male

Ward: Mandi Gurha slathia lower

Specialization:

Name: Uma slathia

Gender: female

Ward: Gurha Slathia lower

Specialization:

Name: Miss Rajni Devi

Gender: female

Ward: Gurha Slathia lower

Specialization:

Name: Pawan Kumar

Gender: male

Ward: Udh Mandi Gurha slathia

Specialization:

Name: Pardeep singh

male

udh mandi gurha slathia

specialization:

Name: Shivani Sharma

years

female

Gurwal

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 : NA

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

2) Name: NA

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

3) Name:

Age:

Gender:

Address:

Area of specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:

Medicinal Use:

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: GIRDHARI LAL S/O NAND LAL

Age: 60

Gender: Male

Address: Khara

Area of specialization: prograssive farmer

2) Name : SURAT SINGH S/O CHET SINGH

Age: 50

Gender: Male

Address: Babli

Area of specialization: prograssive farmer

3) Name :

Age:

Gender:

Address:

Area of specialization:

4) Name :

Age:

Gender:

Address:

Area of specialization:

Annexure 4

Details of schools, colleges, departments, universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR	
1) Contact Person:	
Name and Address:	GHSS Gurha Slathia
2) Contact Person:	
Name and Address:	Govt. Primary School Garh Mandi
3) Contact Person:	
Name and Address:	
4) Contact Person:	
Name and Address:	Govt. Primary School Mandi udh

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	PR-113	Suitable for Sub Tropical areas . Matures in 135 -140 day approx.		Abundant	Abundant	Dwarf High Yielding variety	June - Oct	Food Fodder		Suitable for Cultivation in Low land , Mid HillsAreas, Hot & Humid Climate	Agri Deptt. / Private Agencies	
	<i>Oryza sativa</i>	Dhan, Munji	Pusa - 1121	Suitable for Sub-tropical areas		Abundant	Abundant	Exception kernel elongation and volume expansion more than 4 times after cooking	June-Oct	Food Fodder	Easy digestibility	Suitable for typical water logged area where crop remains submerged	Agri Deptt. / Private Agencies	
	<i>Oryza sativa</i>	Dhan, Munji	Begumi	160-165 cm		Abundant	Rare	Tall in height , sweet in taste , High starch Content	June - Oct	Food Fodder	More Nutritive Value	Suitable for Plain & Mid Hills	Local	Pahari community
	<i>Oryza sativa</i>	Dhan, Munji	Jaya	Plant Height 140-145 cm		Abundant	Abundant	Dwarf High Yielding variety	June - Oct	Food Fodder			Agri Deptt. / Private Agencies	
Maize+bajra	<i>Zea mays</i>	Makk, kukri, challi, Buhтта, jobawr	Double Dekalb Yellow	Mostly warm weather Plant		Abundant	Abundant	High yeilding Variety	July to Oct. kharif season crop	Grain, Fodder	Raw material used in industries producing starch oil, Pahramceuticals, Cosmetics and Paper	Suitable of Plain & Mid Hills	Agri. Deptt. / Private Agencies	
	<i>Zea mays</i>	Makk, kukri, challi, Buhтта, jobawr	KH-517	Mostly warm weather Plant		Abundant	Abundant	Lodging resistant	July to Oct. kharif season crop	Grain, Fodder	Fodder is of good quality, remains green and fresh for long time	Suitable of Plain & Mid Hills	Agri. Deptt. / Private Agencies	

pulses	<i>Vigna mungo</i>	Maa/ Mash	T-9	Suitable of Plain & Mid Hills		Abundant	Abundant	High yeilding Variety	June- Aug kharif season crop	Dhal, Papad, wadi, Nutritive fodder for milch animals	hight Protein contents	Can be used as green manuring crops	Agri. Deptt. / Private Agencies
	<i>Vigna radiata</i>	Moong	ML 131 ,ML181, PDM 54	Suitable of Plain & Mid Hills thrives best under hot and humid climate		Abundant	Abundant	High yeilding Variety	June- Aug kharif season crop	Dhal, Papad, wadi, Nutritive fodder for milch animals	hight Protein contents	Can be used as green manuring crops	Agri. Deptt. / Private Agencies
Til (OILSEED)	<i>Seasamum indicum</i>	til	Punjab til -1	Suitable of Kandi areas & Mid Hills		Abundant	Abundant	High yeilding Variety	June- Oct	Oil,	high oil content	White seed Variety . Matures in 80-85 days . Plant hight 1.3-1.6 mtr.	Agri. Deptt.
Okra	<i>Abelmoschus esculentus Moench</i>	Bhindi	Pusa A-4	Suitable for Plain & Mid Hills		Abundant	Abundant	High yield Variety	Feb- March June- July (rainy season)	Food	Rich source of fibre	tolerant to YVM and aphids , dark green fruit , size 12-15 cm long and first picking starts in 45 days	Agri. Deptt. / Private Agencies
Bottle Gourd	<i>Lagenaria siceraria</i>	Loki, Tumbdi	Pusa Summer prolific long	Sub-tropical and intermediate		Abundant	Abundant	The fruits are long, the skin colour is llowish green	Spring & Summer	Vegetables, raita, soup & Juice	it can grow in all types of soils	It can tolerate cold climate but not frost	Agri. Deptt. / Private Agencies
BRINJAL	<i>Solanum melongena</i>	Baingan	janak ,pusa purple long	Mostly warm weather Plant		Abundant	Abundant	fruits are both round and long depending upon variety. Colour of fruit is dark purple , light purple .	it requires a long growing season with average day and night temperature	food	sandy loam soil is preffered. Silt loams and clay loams are also suitable.	it cannot tolerate frost	Agri. Deptt. / Private Agencies
Wheat	<i>Triticum aestivum</i>	Kanak	HD-2967	150-155 cm		Abundant	Abundant	Dwarf High Yielding variety	Nov- Apr.	Food Fodder	Moderatley resistant to yellow rust	Suitable for Plain & Mid Hills	Agri Deptt. / Private Agencies
	<i>Triticum aestivum</i>	Kanak	Raj -3077	135-140 cm		Abundant	Abundant	Dwarf High Yielding variety	Nov- Apr.	Food Fodder	late sown variety suitable for kndi areas	Suitable for Plain & Mid Hills	Agri Deptt. / Private Agencies
	<i>Triticum aestivum</i>	Kanak	PBW-644	Tropical / Subtropical zones			New Variety	Drought resistant	Nov- Apr.	Food Fodder	Early sown variety for more Fodder	Suitable for Plain & Mid Hills	Agri Deptt. / Private Agencies

Chickpea (pulse)	<i>Cicer arietinum</i>	Chana / Gram	C-235	Kandi Areas / Irrigated		Abundant	Abundant	Highly stable variety, seeds are small and yellowish brown	Rabi	for human consumption and animal feed	rich source of protien and energy	Thrives best on well drained sandy or light soils.	Agri. Deptt. / Private Agencies	
mustard (OILSEED)	<i>brassica rapa</i>	sarson	pusa bold, RH-30	sub tropical plains/ kandi area		Abundant	Abundant	high yielding varieties .	Rabi season crop sowing time 2nd fortnight Oct to 1st week Nov.	Oil,	rich source of oil	Thrives best on well drained loamy soils.crop duration 90-95days	Agri. Deptt. / Private Agencies	
Tomato	<i>Solanum lycopersicum</i>	Tamatar,	Kashi (DVRT-2)	Plant are Green, Fruit are red , spherical medium to large sized		Abundant	Abundant	First harvest at 70-75 days after transplanting . Resistant to TLCV.	Transplanting Jan to Mid Feb	Food	Resistant to TLCV.	Suitable of Plain & Mid Hills	Agri. Deptt. / Private Agencies	
Radish	<i>Raphanus sativus</i>	Mooli	Japanese White	Plain and mid hills					Ending Nov-January	Vegetable, Salad & Fodder	Flesh is snow white, crisp, solid and mildly pungent	It matures in 65 to 70 days	Agri. Deptt. / Private Agencies	

Format 2: Fruit Plants

1	2	3	4	5	6		7	8	9	10	11	12
Plant	Scientific Name	Local Name	Variety	Landscape / Habitat	Local Status		Source of Seeds/Plants	Season of Fruiting	Associated TK	Uses	Other details market / own use	Community / Knowledge holder
					Past	Present						
Woody	<i>Mangifera indica</i>	Amb	Wild, Dashehari,	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to	Record vailable in old books.	Sucking, table, processing	Own uses and sold in market	Popular in local population.
Tree			Malda, Amrapali,					August				
			Mallika, Langra,					Aug				
			Swarn Rekha,									
			Chausa, Fazli,									
			Totapuri, Ramkila, Baramasim etc.									
Tree			Seedless, Rose Scented					July				
Woody	<i>Pidium guajava</i>	Amrood	Wild, Allahbad,	Sub-tropical	Good	Good	Seedling trees, grafted/ layered.	March to	Introduced by traders and domesticated locally.	Table and processing.	Own uses and sold in market	Popular in local population.
Tree			Sardar, Lalit, Arka					August,				
			Amulaya, Sheveta, Punjab Pink					Dec. To January				
Climber	<i>Vitis vinifera</i>	Angoor	Wild, Perlet,	Sub-tropical	Good	Good	Cuttings	Feb. To	Introduced by traders and domesticated locally.	Table and processing.	Own uses and sold in market	Popular in local population.
			Beauty Seedless					June				
Woody	<i>Emblica</i>	Amla	wild, Banarsi,	Sub-tropical	Good	Good	Seedling trees, grafted plants.	March to Nov.	Record vailable in old books.	Processing	Own uses and sold in market	Popular in local population.
Tree	<i>officinalis</i>		Neelam, NA 7.									
Woody	<i>Citrus sinensis</i>	Mosammi	Mosambi, Jaffa,	Sub-tropical	Good	Good	Grafted	March to Jan.	Record vailable in old books.	Table and processing.	Own uses and sold in market	Popular in local population.
Tree			Red Blood				Plants					
Woody	<i>Citrus reticulata</i>	Sangtra	Kinnow, Sangtra	Sub-tropical	Good	Good	Grafted	March to Jan.	Record vailable in old books.	Table and processing.	Own uses and sold in market	Popular in local population.
Tree							Plants					
Woody	<i>Citrus aurantifoli a</i>	Nimboo	Wild, Kagzi, Italian,	Sub-tropical	Good	Good	Grafted	March to Oct.	Record vailable in old books.	Processing.	Own uses and sold in market	Popular in local population.
Tree			Eureka				Plants					

Woody	<i>Citrus limon</i>	Galgal	Wild	Sub-tropical	Good	Good	Seedling andn Grafted Plants	March to Sept.	Record vailable in old books.	Processing.	Own uses and sold in market	Popular in local population.
Tree												
Woody	<i>Citrus medica</i>	Kimb	Wild	Sub-tropical	Good	Good	Seedling trees	March to Sept.	Record vailable in old books.	Processing.	Own uses and sold in market	Popular in local population.
Tree												
Woody	<i>Citrus jambhiri</i>	Jamiri	Wild	Sub-tropical	Good	Good	Seedling trees	March to Oct.	Record vailable in old books.	Processing, root stock	Own uses and sold in market	Popular in local population.
Tree												
Woody	<i>Citrus limetoides</i>	Mithoo	Wild	Sub-tropical	Good	Good	Seedling trees	March to Sept.	Record vailable in old books.	Table and processing.	Own uses and sold in market	Popular in local population.
Tree												
Woody	<i>Citrus x floridana</i>	Kumquat	Wild	Sub-tropical	Good	Good	Grafted	March to Jan..	Record vailable in old books.	Processing.	Own uses and sold in market	Popular in local population.
Tree							Plants					
Woody	<i>Citrus tangerina</i>	Narangi	Wild	Sub-tropical	Good	Good	Grafted	March to Dec.	Record vailable in old books.	Ornamental and processing.	Own uses	Popular in local population.
Tree							Plants					
Woody	<i>Zizyphus mauritiana</i>	Ber	Umran, Katha, Seb	Sub-tropical	Good	Good	Grafted	March to Nov.	Record vailable in old books.	Table purposes	Own uses and sold in market	Popular in local population.
Tree							Plants					
Woody	<i>Zizyphus jujuba</i>	Phowari Ber	Wild	Sub-tropical	Good	Good	Seedlings	March to Nov.	Record vailable in old books.	Table purposes	Own uses and sold in market	Popular in local population.
Tree												
Bush	<i>Grewia subinaequa</i>	Phalsa	Wild	Sub-tropical	Good	Good	Seedlings and Cuttings	March to	Record vailable in old books.	Processing	Own uses and sold in market	Popular in local population.
	<i>lis</i>							July				
Woody	<i>Syzygium cumini</i>	Jamun	Wild	Sub-tropical	Good	Good	Seedlings and Grafted	March to	Record vailable in old books.	Processing	Own uses and sold in market	Popular in local population.
Tree								July				
Woody	<i>Cordia myxa</i>	Lasooda	Wild	Sub-tropical	Good	Good	Seedlings	March to	Record vailable in old books.	Processing purposes	Own uses and sold in market	Popular in local population.
Tree								June				
Bush	<i>Carissa carandas</i>	Gerna	Wild	Sub-tropical	Good	Good	Seedlings	March to	Record vailable in old books.	Table purposes and processing	Own uses and sold in market	Popular in local population.
								July				
Woody Tree	<i>Aegle marmalos</i>	Bill	Wild	Sub-tropical	Good	Good	Seedlings	March to	Record vailable in old books.	Table purposes and processing	Own uses and sold in market	Popular in local population.
Woody	<i>Prunus persica</i>	Aru	Wild, Sun Red,	Sub-tropical	Good	Good	Grafted	Feb. to	Introduced by traders and domesticated locally.	Table purposes and processing	Own uses and sold in market	Popular in local population.
Tree			Florida Sun				Plants	June				

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					
Sorghum	<i>Sorghum bicolor</i>	Jowar	Warm climate crop	Plenty	Plenty	Agri. Deptt. /Private	It has resistance to desiccation and tolerate to water logging condition .	whole plant	Soil with clay loam texture having good water retention capacity are best suitable for its cultivation	
Pearl Millet	<i>Pennisetum typhoides</i>	Bajra	tropical /sub-tropical climate	Plenty	Plenty	Agri. Deptt. /Private	high tillering crop	whole plant	It is quick growing , disease and frost resistant	
Berseem	<i>Trifolium alexandrinum</i>	Berseem	winter forage.	Plenty	Plenty	Agri. Deptt. /Private	It is rich in Calcium and phosphorus	Part used whole plant. Repeated cuts can be taken .	Improves physical condion of soil . It can be grown in all types of soil except very light sandy soil	

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					
shol		Shol	Paddy	Broad leaf and consumed the nutrients of the plants and reduces the production	floating on the water	Plenty	Plenty	Nil	Drying of paddy field as a result leafs dry	-	Hady and wider adoptability, multiply very fast	Pahari Community
Shama		Shama	Paddy	compete with nutritions, light and space with Paddy crop and reduces the production	Tall growing just like paddy	Plenty	Plenty	Nil	Use of weedicide	-	-	-
Dhoob	<i>Cynodon dactylon</i>	Dhoob	Maize	Weed emerg with the germination with Maize seed and grow along with plants till the early growth period and cause sever crop weed compitation.	Grows with Maize crop	Plenty	Plenty		1). 2-3 Weeding follwed by earthingup. 2). pre emergence appliation Atrazine @ 1-1.25 Kg / per ha of 50% WP		Losses caused by Weeds are more during early stage than in later stages.	
Bathua	<i>Chenopodium sp</i>	Baathu	Wheat	Broad leaf and consumed the nutrients of the plants and reduces the production	Germination in the field after 20 days	Plenty	Plenty	Nil	1.Use of weedicide		Hady and wider adoptability, multiply very fast	
Sitti	<i>Phalaris minor</i>	Sitti, Gehoon ka mama, Gulli Danda	Wheat	Compete with nutritions, light and space with wheat crop and reduces the productionNarrow Leav Weed	Grows with Wheat crop	Plenty	Plenty	Nil	1. Use of Weedicides metribuzinic @200Gms/ha dissolved in 500-600 l of water		Hady and wider adoptability, multiply very fast	

Chauli	<i>Amaranthus viridis</i>	Chaulai	Sesame	Compete with nutrients, light and space with wheat crop and reduces the production.	grows with the sesame crop	Plenty	Plenty	eaten as a green leafy vegetable in parts of India	Alachlor (1.0) or Thiobencarb(2.0).	In rainfed conditions herbicide use is very limited due to low yield, which may not compensate for the cost of the herbicide.	Hady and wider adoptability, multiply very fast
Dhoob	<i>Cynodon Doctylon</i>	Dhoob, Bermuda Grass	Sesame	Compete with nutrients, light and space with wheat crop and reduces the production Narrow Leav Weed	grows with the sesame crop	Plenty	Plenty	Nil	Alachlor (1.0) or Thiobencarb(2.0).		Hady and wider adoptability, multiply very fast
Jangli Pudina	<i>Agerantum conyzoides</i>	Goat weed , Jangli pudina	mustard	Broad leaf and consumed the nutrients of the plants and reduces the production	grows with mustard crop	Plenty	Plenty	Nil	.Use of weedicide		90-100 cm tall hairy herbaceous unpleasent smell
Krishna Neel	<i>Anagallis Arvensis</i>	Blue Pimpernel	mustard	Compete with nutrients, light and space with wheat crop and reduces the production.	grows with mustard crop	Plenty	Plenty	Nil	.Use of weedicide		Hady and wider adoptability, multiply very fast 10- 30 cms tall
Satyanashi	<i>Argemone Mexicana</i>	krishnaneel	mustard	Compete with nutrients, light and space with wheat crop and reduces the production.	commonly found in the waste lands. But also grow along mustard	Plenty	rare	1.used in Ayurveda medicinal properties 2. used for reclamation of alkaline soils. Satyanashi oil is famous for termite control	use of glyphosate is recommended pre emergence		Hady and wider adoptability, multiply very fast

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
Paddy	Grasshopper	<i>Hieroglyphus niogrorepletus</i>	Tidda , Raja da Gorha ,	Polyphagus	June to Novemeber	1.Destroy eggs by cleaning bunds 2. Spray the bunds with Malathion 5 % D @ 25 Kg / Ha	Both nymphs and Adults feed on the leaves , they devour the young shoots and newly farm ear heads.	Adults are like locust but smaller in size	
Paddy	Rice Hispa	<i>Dicladispa armigera</i>	Neela tittu	Appeaqr in all varieties of rice	July -Sep	1. Clip the affected tips of leaves before transplanting	Quinalphos 25EC 1 litre per ha in 750 ltr of water	The grubs this pest mine into the leaves and adults are external fidders.	
Wheat	Field Rats	<i>Bandicota sp.</i> <i>Tatera sp.</i>	Chua, Kees,	Burrow in soil .Rats are found in nearly all areas of Earth which are inhabited by human beings.	Through out the year	1. Poison baiting 2. bund trimming to minimize harborage 3. use indigenous traps	Thje cause have loss to standing wheat crop and harvested crop in stores.	Domestic rats differ from wild rats in many ways. They are calmer and less likely to bite; they can tolerate greater crowding; they breed earlier and produce more offspring; and their brains, livers, kidneys, adrenal glands, and hearts are smaller	
	Termites	<i>Microtermes obesi</i>	seenak, seonk, white ant,	Generally appears at wet places, lives in nests made under ground	Through out the year	1. Destroy termitaria in an around field 2. Never use raw FYM 3. For termites control in standing crop, dilute 4l of chlorryphos 20EC in 5l of water and mix in 50 kg of sand thoroughly . Boradcast this treated soil in the infested areas.	These are Social insect that lives under gound in colonies.	The damage plant dry up completely and are easily pulled out	
cole crops	Cabbage butterfly	<i>Pieris brassicae</i>	Titili	The large white butterfly's habitat consists of large, open spaces, as well as farms and vegetable gardens, because of the availability of its food source.	Oct onwards	1. Release of Trichogramma chilionis @50000 adults/ha per release (6 times)at weekly interval in Mid January 2. Donot spray the crop near harvesting			

Cucurbits	Fruit fly	<i>Bactrocera cucurbitae</i>	Titli	Fruit flies are of concern both as nuisance pests and as serious contaminators of food.	After Summer Rains when Humidity is high.	1. Install methyl eugenol traps @ 5-100/Ha 2. Spray Malathion @ 1ml +10 Grms gur/ ltr of water at evening hours when fruits flies are congregated on the leave surface.	Female fruit flies lay their eggs on the surface of rotting fruits and vegetables. Each female may lay as many as 500 eggs. These eggs hatch into larvae which molt twice before becoming fully grown.	Adults may be dull yellowish, brownish yellow, or brownish black in color and range from 1/10 to 1/5 inch long. Most species have red eyes. Larvae are very small (ranging from 1/10 to 1/5 inch long), dirty white, and maggot-shaped. They can be recognized by the stalked posterior spiracles on the last abdominal segment.	
Brinjal	Brinjal fruit & shoot borer	<i>Leucinodes orbonalis</i>		Tropics & sub tropics	Rainy Season	1. Regular clipping of infested shoots and fruits and destroy them 2. Installation of Pheromone traps @ 100/Ha. 3. Spary Cypermethrin @ 1ml/Ltr. Of water	Caterpillars bore into the shoots and fruits. The hole remains plugged with black excreta		
sesame	hairy caterpillars, leaf rollers, pod borer, aphids, white fly			sub tropics	kharif season	dust the crop with chloropyriphos 1.5%D or lindane 1.3%D @ 1.25KG/Kanal or carbyl 50% WP 75g/kanal .	all these insects suck the cell sap of the crop from leaves and pods. Also spread yellow mosaic virus (white fly)		
mustard	mustard aphids	<i>lipaphis erysimi</i>	tella, keeda		mostly in late sown crop . Mostly during mid Jan	a. cultural control 1. early sowing of crop by first fortnight of october. 2. use recommended dose of fertilizer b. biological control. 1. conserve potential bio control agents like parasitoids, Ladybird beetles. c. chemical control 1. combination of chloropyriphos + acitamiprid 0.05% is highly effective. 2. spray chloropyriphos 20 EC or imidacloprid @ 0.5ml/lt water.	These insects attack tender growth if the plants especially new shoots , young leaves , flowers and pods.		
	mustard sawfly	<i>athalia lugens proxima</i>	makhi		rabi season	spray crop with carbyl 50 WP @ 1.5kg/ha.	the larve attack young crop , bite holes and skeletonize leaves completely such plants do not bear seeds		
	Hairy Catterpillar		luhri		rabi season	collect and destroy cogregating caterpillars spray the crop 0.03% quinalphos 20 EC @ 1.25L of water/ ha	they feed on leaves, ypung shoots and green pods		

Okra	Blister Beetal	<i>mylabris pustulatus</i>	kida		comes at flowering stage	use of thiodicarb 0.09% can control the pest	mainly feed on the reproductive parts of the plants. Yield is redused.		
	Leaf roller	<i>sytlepta derogata</i>	kida			spay quinalphos 25EC(2ml/lit of water or carbyl 4gm/lit water to control	larve feed on the okra leaves and in severe infestation the whole plant gets defoliated		
	Whitefly	<i>bemisia tabaci</i>	makhi	habitat consists of farms and vegetable gardens, because of the availability of its food source.	comes during the vegetative stage of the crop	4-5 FOLIAR SPRAYS OF IMIDACLOPRID 0.02% OR DIMETHOATE 0.05% at an interval of 10 days.	the milky minute white fly sucks the sap from the leaves. Tne affected leaves curl and dry. The plant shows stunted growth	these flies are also responsible for transmitting the yellow vien mosaic virus (YVMV).	
	Fruit and Shoot Borer	<i>earias vittela</i>	luhri	Occurs through out the country	occurs during the humid conditions especially after the rainfall	spay quinalphos 25EC(2ml/lit of water or carbyl 4gm/lit water to control	adult female lays eggs on the leaves, floral buds and tender fruits. Small brown caterpillar bore into the shoots and later on they7 bore into the fruits.		
	Mealy Bug	<i>phenacoccus solenopsis</i>				spray quinalphos 25EC or 625gof Thiodicarb 75WP in 500litof water.	both nymph and adults suck the sap of the leaves , flowers , buds,fruit of the plant.	this is very destructive insect and needs to be controlled in its early stages of growth	
Tomato	Fruit borer	<i>helicoverpa armigera</i>	kida , luhri	habitat consists of farms and vegetable gardens, because of the availability of its food source.	they appear the flowering stage of the crop.	spray of endosulfan(0.07%) or dichlorovos(0.1%) should be sprayed to control the insect.	damage starts from flowering .Eggs are laid on young leaves which are damaged by young larvae. Later they migrate to developing fruits. They bore the fruit with half of the body outside the fruit.	one larva feeds on many fruits.causing 5-50% losses.	
	serpentine leaf minor	<i>lirtomyza trifolli</i>	kida	this has become a common problem now a days	appear at vegetative stage of the crop	spray the azadiractin (neem oil)5ml/lit of water. Repeat after fortnight. Or spray triazophos(0.05%)	the larvae mine the leaves especially the basal leaves.	if more sprays are given due to mortality of natural enemies. Pest increases. Application of granular insecticide increases the incidence.	
	Cut Worm	<i>Agrotis ipsilon</i>	Luhri	Occurs through out the country but especially Hilly areas	July onward .	1. Install light traps @2/Ha 2. Install Pheromones traps @40/Ha to attract to kill the male moths 3. Chlorpyriphos 30EC@3ml/of water	Larva cut the seedling at the ground level .	They live in soil during the day and feed at night . The caterpillar are in grey in colour	

Gram	Termites	<i>Microtermes obesi</i>	seenak, seonk, white ant,	Generally appears at wet places, lives in nests made under ground	Through out the year	1. Destroy termitaria in an around field 2. Never use raw FYM 3. For termites control in standing crop, dilute 4l of chlorpyriphos 20EC in 5l of water and mix in 50 kg of sand thoroughly . Boradcast this treated soil in the infested areas.	These are Social insect that lives under gound in colonies.	The damage plant dry up completely and are easily pulled out	
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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
2283	210 Farming families but not wholly depends on Agriculture ,Pvt Service ,Labour ,Poultry(agriculture).Farmers have shifted from agriculture to pvt service due to the wild animals like pigs ,monkeys npeacock ets	1 Animal Husbandary 2.Poultry Business3)Pvt service 4)Transport 5)	Agriculture landscape	land, water,labour, capital , improved agriculture inputs and biodiversity for sustaining the profitability of agriculture, maintaining livelihoods and social well-being in rural communities. Seasons : KHARIF AND RABI	By following the Agronomic practices : that farmers incorporate to improve soil quality, enhance water usage, manage crops and better fertilizer management as a way of improving agricultural practices.	1.tillage practices and reconsolidation 2. plant and crop rotations 3.irrigation management 4. proper use of maure and fertilizer 5. IPM				

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											
Plains and Kandi area			plains	hilly as well as	Forest, private and state lands	Broad leaved mainly	Domestic animals wildlife such as porcupine, jackel, etc.	Public, Private and Govt. also		Plantation and agriculture			
			Hillocks	plain terrian with gentle slope	Forest, private and state lands	Broad leaved and conifers	Domestic animals wildlife such as porcupine, jackel, etc.	Public, Private and Govt. also		Plantation and agriculture			
Shiwalik areas			Hills	Hills with gentle slopes	Forest, private and state lands	Broad leaved and conifers	Domestic animals wildlife such as porcupine, jackel, etc.	Public, Private and Govt. also		Plantation and agriculture			

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
Lithosols	Gravelly loam to Gravelly silty loam	pH 7.1-7.8, occur on steep slopes in the forest hills of 400-600 mtrs. 33-38% water holding capacity	use of organic matter	maize & fodder crops	-	-	-
Alluvial soil	loamy soils	pH 7.0-7.7, organic carbon 0.28-0.61%	use of organic matter	Wheat Paddy vegetables	-	-	-

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

1	2	3	4	5	6	7		8	9	10	11	12
Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Source of plant/seeds	Local status		Uses (usage)	Part used	Associated TK	Other details market/own use	Community/ Know. Holders
						Past	Present					
Herbs	Dudlu	<i>Taraxacum officinale</i>		Temperate area	Root	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Herbs	Tarad	<i>Dioscorea belophylla</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Root	N.A	N.A	Generally, held by community
Herbs	Jungli putna	<i>Mentha arvensis</i>		Lower shiwalik/Temperate area	Root	Abundant	Abundant	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Trimuru	<i>Zanthoxylum aurmatum</i>		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Shrubs	brankad	<i>Adha toda vesica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil		N.A	N.A	Generally, held by community
Shrubs	Drainkdu	<i>Murraya koenigii</i>		Sub-Tropical area	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Shrubs	Dussa	<i>Colebrookia oppositifolia</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Flower	N.A	N.A	Generally, held by community
Shrubs	Thor/Shuu	<i>Euphorbia royleana</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bareyan	<i>Acorus calamus</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Canabis sativa</i>		Lower shiwalik	Seed	Abundant	Abundant	nil		N.A	N.A	Generally, held by community

Tree	Amla	<i>Phyllanthus emblica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Bair	<i>Ziziphus xylocarpa</i>		Lower shiwalik	Seed	Rare	Rare	nil	Stem	N.A	N.A	Generally, held by community
Tree	Bheda	<i>Terminalia bellerica</i>		Lower shiwalik	Seed	Rare	Abundant	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Bill-Patre	<i>Angle mermelos</i>		Sub-Tropical area	Seed	Abundant	Abundant	nil	Root	N.A	N.A	Generally, held by community
Tree	Drankh	<i>Melia azedarach</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves	N.A	N.A	Generally, held by community
Tree	Harad	<i>Terminalia chebula</i>		Lower shiwalik	Seed	Abundant	Abundant	Good for digestion	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Jaman	<i>Syzygium cumini</i>		Lower shiwalik	Seed	Abundant	Abundant	maintains sugar level in human body	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Kakad-Singhi	<i>Pistacia khinjuk</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Karal	<i>Bauhinia variegata</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Flower	N.A	N.A	Generally, held by community
Tree	Khair	<i>Acacia catechu</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A	Generally, held by community
Tree	Kringal	<i>Casia fistula</i>		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community
Tree	Lusada	<i>Cordia dichotoma</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Mangoo	<i>Mangifera Indica</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem/Fruit	N.A	N.A	Generally, held by community
Tree	Retha	<i>Sapindus Mukorossii</i>		Lower shiwalik	Seed	Rare	Rare	nil	Fruit	N.A	N.A	Generally, held by community

Tree	Rumbal	<i>Ficus racemosa</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves	N.A	N.A	Generally, held by community
Tree	Sree	<i>Albizia lebbek</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Leaves/Stem	N.A	N.A	Generally, held by community
Tree	Talli	<i>Dalbergia sissoo</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community
Tree	Trimbal	<i>Ficus auriculata</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Fruit	N.A	N.A	Generally, held by community
Tree	Tuni	<i>Toona ciliata</i>		Lower shiwalik	Seed	Abundant	Abundant	nil	Stem	N.A	N.A	Generally, held by community
Tree	Arjun	<i>Terminalia arjuna</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Tree	Bheda			Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Tree	Amla	<i>Amblica officinales</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Tree	Neem	<i>Azadirachta indica</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
tree	Khair	<i>Accacia catechu</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community
Shrubs	Bhang	<i>Cannabis sativum</i>		Lower shiwalik	Seed	Rare	Rare	nil	Leaves/Bark	N.A	N.A	Generally, held by community

Format 14: Timber Plants / Trees

1	2	3	4	5		6	7	8	9	10
Plant Type	Local Name	Scientific Name	Habitat	Local status		Wild/ home-garden	Other uses (multi)	Associated TK	Other details	Community/ Know. holder
				Past	Present					
Trees	Kiker	<i>Acacia nilotica</i>	Lower shiwalik	Rare	Rare	Wild	own	nil	nil	Generally, held by community
Trees	Mango	<i>Mangifera indica</i>	Lower shiwalik	Abundant	Abundant	Wild/ home-garden	own	nil	nil	Generally, held by community
Trees	Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundant	Wild	commercial	nil	nil	Generally, held by community
Trees	Sree	<i>Albizzia lebbeck</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	Wild	own	nil	nil	Generally, held by community
Trees	Jammun	<i>Syzygium cumini</i>	Lower shiwalik	Rare	Abundant	Wild	own	nil	nil	Generally, held by community

Format 15: Domesticated Animals

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Breed (local/hybrid)	Features	Method of keeping	Local status		Uses	Associated TK	Commercial rearing	Other details including products and services	Community Know. Holders
						Past	Present					
cattle	Cow	<i>Bas indicus</i>	local	small in height	intensive	abud	Dec	milky	NA	NA	NA	NA
	cow	<i>Bas tarus</i>	cross breed	big in height	semi intensive	few	inc	Drought	NA	NA	NA	NA
Buffalo	Manz	<i>Bubalis</i>	do	-	-	few	inc	do	NA	NA	NA	NA
Chicken	Chicken	<i>Gallus</i>	do	-	-	few	inc	Meat & egg	NA	NA	NA	NA
		<i>Domesticus</i>										
Goat	Goat	<i>Capra Hircus</i>	do	-	-	few	inc	Milky & meat	NA	NA	NA	NA

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

1	2	3	4	5	6		7	8	9	10	11
Plant Type	Local Name	Scientific Name	Habit	Habitat	Local status		Commercial / own use	Part collected	Associated TK	Other details	Community Knowledge Holder
					Past	Present					
Tree	Amlı	<i>Phyllanthus emblica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits	Used in Gastro Problem	Medicinal use	Self observed
Tree	Ber	<i>Ziziphus jujuba</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits		Medicinal use	Self observed
Tree	Bour	<i>Ficus benghalensis</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits	Unknown		Self observed
Tree	Chilla	<i>Casearia tomentosa</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaf and Wood	Unknown		Self observed
Tree	Chir	<i>Pinus roxburghii</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Kakoa	<i>Flacourtia indica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits			Self observed
Tree	Daronkal	<i>Murraya koenigii</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves			Self observed
Tree	Dudaya	<i>Wrightia arborea</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves			Self observed
Shrubs	Garna	<i>Carissa spinarum</i>	Shrubs	Sub - Tropical	Available	Available	Own Use	Fruits			Self observed
Tree	Jamun	<i>Syzygium cumini</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood	Used for Diabetes		Self observed
Tree	kaam	<i>Mitragyna parvifolia</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Kembal	<i>Lannea coromandelica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Kamla	<i>Mallotus philippensis</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Khair	<i>Acacia catechu</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Kodh	<i>Aloe barbadensis</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Krongal	<i>Cassia fistula</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Lucenia	<i>Leucaena spp.</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Plah	<i>Butea monosperma</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Phulai	<i>Acacia modesta</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Pansara	<i>Wendlandia spp.</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves and Wood			Self observed
Tree	Reetha	<i>Sapindus mukorossi</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits and Wood			Self observed
Shrubs	Santa	<i>Dodonaea viscosa</i>	Shrubs	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Sarri	<i>Albezzia spp.</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Simbal	<i>Bombax ceiba</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Talli	<i>Dalbergia sisso</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Thub / Dudhruk	<i>Erythrina spp.</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Balugar	<i>Bauhinia vahlii</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Chuindi	<i>Xylosma longifolium</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Doss/sanan	<i>Colebrookea oppositifolia</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed

Tree	Khini	<i>Ficus semicordata</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Kral	<i>Bauhinia variegata</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves/Flowers		Self observed
Tree	Lana	<i>Ficus hispida</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Dhaman	<i>Grewia optiva</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Charmod	<i>Ehretia spp.</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Badh	<i>Ficus religiosa</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Behra	<i>Terminalia bellirica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood		Self observed
Tree	Bilan	<i>Aegle marmelos</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood		Self observed
Tree	Gandila	<i>Nerium oleander</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Gulmorh	<i>Delonix regia</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Oanni	<i>Lyonia ovalifolia</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Rumble	<i>Ficus racemosa</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/ Wood		Self observed
Tree	Draink	<i>Melia azedarach</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves/Wood		Self observed
Tree	Harad	<i>Terminalia chebula</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood		Self observed
Tree	Amb	<i>Mangifera indica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood		Self observed
Tree	Soyanjana	<i>Moringa oleifera</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood		Self observed
Tree	Tunnu	<i>Toona ciliata</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Neem	<i>Azadirachta indica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Plakh	<i>Ficus virens</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves/Wood		Self observed
Tree	Rehn	<i>Quercus lucotricophora</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	chamar sama	<i>Holoptelea integrifolia</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	lasura	<i>Cordia myxa</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits/Wood		Self observed
Tree	kassod	<i>Senna siamea</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	tantary	<i>Oroxylum indicum</i>	Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Shrubs	BRANKED	<i>Justicia adhatoda</i>	Shrubs	Sub - Tropical	Available	Available	Own Use	Leaves		Self observed
Tree	KHAR	<i>Saccharum bengalense</i>	Tree	Sub - Tropical	Available	Available	Own Use	Leaves		Self observed
Tree	Imli	<i>Tamarandis indica</i>	Tree	Sub - Tropical	Available	Available	Own Use	Fruits		Self observed
Tree	Cribul		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Kurri		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Narsino		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Pandal		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Rala		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Tai		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Salag		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Karmroo		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Khro		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Gagerada		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	kamkam		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	kangi		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	kenye/kenyo		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	lanyan		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed
Tree	Karkai/katkai		Tree	Sub - Tropical	Available	Available	Own Use	Wood		Self observed

Tree	Gamai		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Kalam/kalen		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Karmanglu		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Tanda		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	mankarahan		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Amity		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Banhadma		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Gangara		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed
Tree	Kavita		Tree	Sub - Tropical	Available	Available	Own Use	Wood			Self observed

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
	Rati	<i>Abrus precatorius</i>	Wild	Social and Economic	Available
	Khair	<i>Acacia catechu</i>	Wild	Social and Economic	Available
	Exotic acacia	<i>Acacia farnesiana</i>	Wild	Social and Economic	Available
	Phulai or Fly	<i>Acacia modesta</i>	Wild	Social and Economic	Available
	Kikar	<i>Acacia nilotica</i>	Wild	Social and Economic	Available
	Parkanda	<i>Achyranthes aspera</i>	Wild	Social and Economic	Available
	Bel	<i>Aegle marmelos</i>	Wild	Social and Economic	Available
	Nuriya	<i>Aerva sanguinolenta</i>	Wild	Social and Economic	Available
	Ramban	<i>Agave americana</i>	Wild	Social and Economic	Available
	Kala Siris	<i>Albizia lebeck</i>	Wild	Social and Economic	Available
	Kramblu	<i>Albizia odoratissima</i>	Wild	Social and Economic	Available
	Safed siris	<i>Albizia procera</i>	Wild	Social and Economic	Available
	Kuad Gandal	<i>Aloe barbadensis</i>	Wild	Social and Economic	Available
	Chaleri Saag	<i>Amaranthus viridis</i>	Wild	Social and Economic	Available
	Seski	<i>Artemisia parviflora</i>	Wild	Social and Economic	Available
	Kathal	<i>Artocarpus heterophyllus</i>	Wild	Social and Economic	Available
	Nad	<i>Arundo donax</i>	Wild	Social and Economic	Available
	Neem	<i>Azadirachta indica</i>	Wild	Social and Economic	Available
	Bamboo	<i>Bambusa bambos</i>	Wild	Social and Economic	Available
	Bamboo	<i>Bambusa nutans</i>	Wild	Social and Economic	Available
	Kachnar	<i>Bauhinia purpurea</i>	Wild	Social and Economic	Available
	Baloonger	<i>Bauhinia vahlii</i>	Wild	Social and Economic	Available
	Kachnar	<i>Bauhinia variegata</i>	Wild	Social and Economic	Available
	Simbal	<i>Bombax ceiba</i>	Wild	Social and Economic	Available
	Jungli toot	<i>Broussonetia papyrifera</i>	Wild	Social and Economic	Available
	Plaah	<i>Butea monosperma</i>	Wild	Social and Economic	Available
	Bhang	<i>Cannabis sativa</i>	Wild	Social and Economic	Available
	Chilla	<i>Casearia tomentosa</i>	Wild	Social and Economic	Available
	Krangal	<i>Cassia fistula</i>	Wild	Social and Economic	Available

	Mainphal	<i>Catunaregum spinosa</i>	Wild	Social and Economic	Available
	Aajan Grass	<i>Cenchrus ciliaris</i>	Wild	Social and Economic	Available
	Brahmi buti	<i>Centella asiatica</i>	Wild	Social and Economic	Available
	Karun	<i>Chenopodium murale</i>	Wild	Social and Economic	Available
	Khas Khas	<i>Chrysopogon zizanoides</i>	Wild	Social and Economic	Available
	Kapoor	<i>Cinnamomum camphora</i>	Wild	Social and Economic	Available
	Bhus	<i>Cirsium arvense</i>	Wild	Social and Economic	Available
	Sanali or Dussa	<i>Colebrookea oppositifolia</i>	Wild	Social and Economic	Available
	Barna	<i>Crateva religiosa</i>	Wild	Social and Economic	Available
	Amar Bel	<i>Cuscuta reflexa</i>	Wild	Social and Economic	Available
	Shudri	<i>Cynoglossum lanceolatum</i>	Wild	Social and Economic	Available
	Deela	<i>Cyperus rotundus</i>	Wild	Social and Economic	Available
	Tali	<i>Dalbergia sissoo</i>	Wild	Social and Economic	Available
	Dhatura	<i>Datura stramonium</i>	Wild	Social and Economic	Available
	Baans	<i>Dendrocalamus strictus</i>	Wild	Social and Economic	Available
	Palain	<i>Dichanthium annulatum</i>	Wild	Social and Economic	Available
	Kalu grass	<i>Dicliptera bupleuroides</i>	Wild	Social and Economic	Available
	Sadhun	<i>Dioscorea melanophyma</i>	Wild	Social and Economic	Available
	Santha	<i>Dodonaea viscosa</i>	Wild	Social and Economic	Available
	Duranta	<i>Duranta erecta</i>	Wild	Social and Economic	Available
	Chamror	<i>Ehretia acuminata</i>	Wild	Social and Economic	Available
	Chamror	<i>Ehretia laevis</i>	Wild	Social and Economic	Available
	Dhol Dhak	<i>Erythrina suberosa</i>	Wild	Social and Economic	Available
	Pangara	<i>Erythrina variegata</i>	Wild	Social and Economic	Available
	Safeda	<i>Eucalyptus camaldulensis</i>	Wild	Social and Economic	Available
	Hybrid safeda	<i>Eucalyptus tereticornis</i>	Wild	Social and Economic	Available
	Bubbeain	<i>Eulaliopsis binata</i>	Wild	Social and Economic	Available
	Thor	<i>Euphorbia royleana</i>	Wild	Social and Economic	Available
	Trimbal	<i>Ficus auriculata</i>	Wild	Social and Economic	Available
	Bohr	<i>Ficus benghalensis</i>	Wild	Social and Economic	Available
	Fagora	<i>Ficus palmata</i>	Wild	Social and Economic	Available
	Rumble	<i>Ficus racemosa</i>	Wild	Social and Economic	Available
	Badh or Pipal	<i>Ficus religiosa</i>	Wild	Social and Economic	Available
	Kakoa	<i>Flacourtia indica</i>	Wild	Social and Economic	Available
	Kanphuta	<i>Flemingia chappar</i>	Wild	Social and Economic	Available
	Bhattani	<i>Gomphrena celosioides</i>	Wild	Social and Economic	Available
	Dhaman	<i>Grewia optiva</i>	Wild	Social and Economic	Available
	Lamb grass	<i>Heteropogon contortus</i>	Wild	Social and Economic	Available

	Aakh	<i>Ipomoea carnea</i>	Wild	Social and Economic	Available
	Kharpoway	<i>Ipomoea purpurea</i>	Wild	Social and Economic	Available
	Chameli	<i>Jasminum officinale</i>	Wild	Social and Economic	Available
	Ratanjot	<i>Jatropha curcas</i>	Wild	Social and Economic	Available
	Brenker	<i>Justicia adhatoda</i>	Wild	Social and Economic	Available
	Kemal	<i>Lannea coromandelica</i>	Wild	Social and Economic	Available
	Panjphuli	<i>Lantana camara</i>	Wild	Social and Economic	Available
	Mithu grass	<i>Lathyrus sativus</i>	Wild	Social and Economic	Available
	Kamila	<i>Mallotus philippensis</i>	Wild	Social and Economic	Available
	Baryar	<i>Malvastrum coromandelianum</i>	Wild	Social and Economic	Available
	Aam	<i>Mangifera indica</i>	Wild	Social and Economic	Available
	Drehnk	<i>Melia azedarach</i>	Wild	Social and Economic	Available
	Kaam	<i>Mitragyna parvifolia</i>	Wild	Social and Economic	Available
	Toot	<i>Morus alba</i>	Wild	Social and Economic	Available
	Drenkeri	<i>Murraya koenigii</i>	Wild	Social and Economic	Available
	Gandila	<i>Nerium oleander</i>	Wild	Social and Economic	Available
	Kua	<i>Olea europaea</i> subsp.	Wild	Social and Economic	Available
		<i>cuspidata</i>	Wild	Social and Economic	Available
	Chhitter	<i>Opuntia elatior</i>	Wild	Social and Economic	Available
	Tetar	<i>Oroxylum indicum</i>	Wild	Social and Economic	Available
	Congress Grass or Jari	<i>Parthenium hysterophorus</i>	Wild	Social and Economic	Available
	Deena nath grass	<i>Pennisetum pedicellatum</i>	Wild	Social and Economic	Available
	Napier grass	<i>Pennisetum purpureum</i>	Wild	Social and Economic	Available
	Khajoor	<i>Phoenix sylvestris</i>	Wild	Social and Economic	Available
	Amla	<i>Phyllanthus emblica</i>	Wild	Social and Economic	Available
	Chir	<i>Pinus roxburghii</i>	Wild	Social and Economic	Available
	Daduni	<i>Punica granatum</i>	Wild	Social and Economic	Available
	Jojra	<i>Pupalia lappacea</i>	Wild	Social and Economic	Available
	Basant panchami	<i>Reinwardtia indica</i>	Wild	Social and Economic	Available
	Arnid	<i>Ricinus communis</i>	Wild	Social and Economic	Available
	Junglee Palak	<i>Rumex hastatus</i>	Wild	Social and Economic	Available
	Khar	<i>Saccharum bengalense</i>	Wild	Social and Economic	Available
	Kai	<i>Saccharum spontaneum</i>	Wild	Social and Economic	Available
	Reetha	<i>Sapindus mukorossi</i>	Wild	Social and Economic	Available
	Bari kasondi	<i>Senna occidentalis</i>	Wild	Social and Economic	Available
	Kassod	<i>Senna siamea</i>	Wild	Social and Economic	Available

	Cassia	<i>Senna sulfurea</i>	Wild	Social and Economic	Available
	Panwar	<i>Senna tora</i>	Wild	Social and Economic	Available
	Kezun grass	<i>Setaria sphacelata</i>	Wild	Social and Economic	Available
	Kayan Kothi	<i>Solanum americanum</i>	Wild	Social and Economic	Available
	Ban tamakoo	<i>Solanum erianthum</i>	Wild	Social and Economic	Available
	Jamun	<i>Syzygium cumini</i>	Wild	Social and Economic	Available
	Imli	<i>Tamarindus indica</i>	Wild	Social and Economic	Available
	Phul dudi	<i>Tarxacum campyloides</i>	Wild	Social and Economic	Available
	Arjun	<i>Terminalia arjuna</i>	Wild	Social and Economic	Available
	Bahera	<i>Terminalia bellirica</i>	Wild	Social and Economic	Available
	Harar	<i>Terminalia chebula</i>	Wild	Social and Economic	Available
	Giloe	<i>Tinospora sinensis</i>	Wild	Social and Economic	Available
	Tunu	<i>Toona ciliata</i>	Wild	Social and Economic	Available
	Jiyo	<i>Trema orientalis</i>	Wild	Social and Economic	Available
	Pakhra	<i>Tribulus terrestris</i>	Wild	Social and Economic	Available
	Kayalu	<i>Tulipa clusiana</i>	Wild	Social and Economic	Available
	Bachita	<i>Urena lobata</i>	Wild	Social and Economic	Available
	Bana	<i>Vitex negundo</i>	Wild	Social and Economic	Available
	Pansar	<i>Wendlandia exserta</i>	Wild	Social and Economic	Available
	Dhain	<i>Woodfordia floribunda</i>	Wild	Social and Economic	Available
	Dhain	<i>Woodfordia fruticosa</i>	Wild	Social and Economic	Available
	Dudhi	<i>Wrightia arborea</i>	Wild	Social and Economic	Available
	Jojera	<i>Xanthium strumarium</i>	Wild	Social and Economic	Available
	Timbru	<i>Zanthoxylum armatum</i>	Wild	Social and Economic	Available
	Ber	<i>Ziziphus jujuba</i>	Wild	Social and Economic	Available
	Cribul		Wild	Social and Economic	Available
	Kurri		Wild	Social and Economic	Available
	Narsino		Wild	Social and Economic	Available
	Pandal		Wild	Social and Economic	Available
	Rala		Wild	Social and Economic	Available
	Tai		Wild	Social and Economic	Available
	Salag		Wild	Social and Economic	Available
	Karmroo		Wild	Social and Economic	Available
	Khro		Wild	Social and Economic	Available
	Gagerada		Wild	Social and Economic	Available
	Tottery		Wild	Social and Economic	Available
	kamkam		Wild	Social and Economic	Available
	kangi		Wild	Social and Economic	Available

	kenye/kenyo		Wild	Social and Economic	Available
	lanyan		Wild	Social and Economic	Available
	Karkai/katkai		Wild	Social and Economic	Available
	Gamai		Wild	Social and Economic	Available
	Kalam/kalen		Wild	Social and Economic	Available
	Karmanglu		Wild	Social and Economic	Available
	Tanda		Wild	Social and Economic	Available
	no name		Wild	Social and Economic	Available
	mankarahan		Wild	Social and Economic	Available
	Amity		Wild	Social and Economic	Available
	Banhadma		Wild	Social and Economic	Available
	Gangara		Wild	Social and Economic	Available
	Kavita		Wild	Social and Economic	Available
	Balugar		Wild	Social and Economic	Available
	Chuindi		Wild	Social and Economic	Available
	Doss/sanan		Wild	Social and Economic	Available
	Khini		Wild	Social and Economic	Available
	Kral		Wild	Social and Economic	Available
	Lana		Wild	Social and Economic	Available
	Dhaman		Wild	Social and Economic	Available
	Charmod		Wild	Social and Economic	Available
	Badh		Wild	Social and Economic	Available
	Behra		Wild	Social and Economic	Available
	Bilan		Wild	Social and Economic	Available
	Gandila		Wild	Social and Economic	Available
	Gulmorh		Wild	Social and Economic	Available
	Oanni		Wild	Social and Economic	Available
	Rumble		Wild	Social and Economic	Available
	Draink		Wild	Social and Economic	Available
	Harad		Wild	Social and Economic	Available
	Amb		Wild	Social and Economic	Available
	Soyanjana		Wild	Social and Economic	Available
	Tunnu		Wild	Social and Economic	Available
	Neem		Wild	Social and Economic	Available
	Plakh		Wild	Social and Economic	Available
	Rehn		Wild	Social and Economic	Available
	chamar sama		Wild	Social and Economic	Available
	lasura		Wild	Social and Economic	Available

	kassod		Wild	Social and Economic	Available
	tantary		Wild	Social and Economic	Available
	BRANKED		Wild	Social and Economic	Available
	KHAR		Wild	Social and Economic	Available
	Sagwan		Wild	Social and Economic	Available
	Imli		Wild	Social and Economic	Available

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	Khair	<i>Acacia catechu</i>	Wild	Sub-tropical	Available	Available					
Tree	Phulai or Fly	<i>Acacia modesta</i>	Wild	Sub-tropical	Available	Available					
Tree	Kikar	<i>Acacia nilotica</i>	Wild	Sub-tropical	Available	Available					
Tree	Parkanda	<i>Achyranthes aspera</i>	Wild	Sub-tropical	Available	Available					
Tree	Bel	<i>Aegle marmelos</i>	Wild	Sub-tropical	Available	Available					
Tree	Kramblu	<i>Albizia odoratissima</i>	Wild	Sub-tropical	Available	Available					
Tree	Neem	<i>Azadirachta indica</i>	Wild	Sub-tropical	Available	Available					
Tree	Simbal	<i>Bombax ceiba</i>	Wild	Sub-tropical	Available	Available					
Shrubs	Bhang	<i>Cannabis sativa</i>	Wild	Sub-tropical	Available	Available					
Shrubs	Garna	<i>Carissa spinarum</i>	Wild	Sub-tropical	Available	Available					
Tree	Krangal	<i>Cassia fistula</i>	Wild	Sub-tropical	Available	Available					
Herbs	Brahmi buti	<i>Centella asiatica</i>	Wild	Sub-tropical	Available	Available					

Herbs	Khas Khas	<i>Chrysopogon zizanoides</i>	Wild	Sub-tropical	Available	Available					
Tree	Kapoor	<i>Cinnamomum camphora</i>	Wild	Sub-tropical	Available	Available					
Tree	Fagora	<i>Ficus palmata</i>	Wild	Sub-tropical	Available	Available					
Tree	Rumble	<i>Ficus racemosa</i>	Wild	Sub-tropical	Available	Available					
Tree	Toot	<i>Morus alba</i>	Wild	Sub-tropical	Available	Available					
Shrubs	Drenkeri	<i>Murraya koenigii</i>	Wild	Sub-tropical	Available	Available					
Tree	Khajoor	<i>Phoenix sylvestris</i>	Wild	Sub-tropical	Available	Available					
Tree	Amla	<i>Phyllanthus emblica</i>	Wild	Sub-tropical	Available	Available					
Tree	Reetha	<i>Sapindus mukorossi</i>	Wild	Sub-tropical	Available	Available					
Tree	Jamun	<i>Syzygium cumini</i>	Wild	Sub-tropical	Available	Available					
Tree	Imli	<i>Tamarindus indica</i>	Wild	Sub-tropical	Available	Available					
Tree	Arjun	<i>Terminalia arjuna</i>	Wild	Sub-tropical	Available	Available					
Tree	Bahera	<i>Terminalia bellirica</i>	Wild	Sub-tropical	Available	Available					
Tree	Harar	<i>Terminalia chebula</i>	Wild	Sub-tropical	Available	Available					
Herbs	Giloe	<i>Tinospora sinensis</i>	Wild	Sub-tropical	Available	Available					

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
Kachnar	<i>Bauhinia purpurea</i>	Wild	Forest/ Roadside	Both			
Gulmohar	<i>Delonix regia</i>	Wild	Forest/ Roadside	Non-commercial			
Plah		Wild	Forest/ Roadside	Non-commercial			
Amaltas		Wild	Forest/ Roadside	Non-commercial			
Raat Ki Rani		Wild	Forest/ Roadside	Non-commercial			
Bougan Villa		Wild	Forest/ Roadside	Non-commercial			
Acacia Galaka		Wild	Forest/ Roadside	Non-commercial			
Wild Rose		Wild	Forest/ Roadside	Non-commercial			
Gandilla		Wild	Forest/ Roadside	Non-commercial			
Simble		Wild	Forest/ Roadside	Non-commercial			
Thub / Dudhruk	<i>Erythrina spp.</i>	Wild	Forest/ Roadside	Non-commercial			
Siris		Wild	Forest/ Roadside	Non-commercial			

Kadam		Wild	Forest/ Roadside	Non-commercial			
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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				
Kiker	<i>Acacia Nilotica</i>	Lower shiwalik	Rare	Rare	Datun	nil	Nil	Generally, held by community
Mangoo	<i>Mangifera Indica</i>	Lower shiwalik	Abundant	Abundant	fruit	nil	Nil	Generally, held by community
Safeda	<i>Eucalyptus spp.</i>	Lower shiwalik	Rare	Abundant	furniture	nil	Nil	Generally, held by community
Sree	<i>Albizzia lebbeck</i>	Lower shiwalik	Abundant	Abundant		nil	Nil	Generally, held by community
Talli	<i>Dalbergia sissoo</i>	Lower shiwalik	Abundant	Abundant	furniture	nil	Nil	Generally, held by community
Tuni	<i>Toona ciliata</i>	Lower shiwalik	Abundant	Abundant		nil	Nil	Generally, held by community
Popular	<i>Populus ciliata</i>	Lower shiwalik	Rare	Abundant		nil	Nil	Generally, held by community
Jammun	<i>Syzygium cumini</i>	Lower shiwalik	Rare	Abundant	fruit/	nil	Nil	Generally, held by community

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

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local Status		Uses (if any)	Associated TK	Mode of Hunting, collecting (if any)	Other details	Community/ Knowledge Holder
						Past	Present					
Rabbit	khargosh		Forest area	-	All	-	-	-	-	-	-	-
Crow	kaa		tree	-	All	-	-	-	-	-	-	-
Pigeon	kabotar		tree	-	All	-	-	-	-	-	-	-
Peacock	mor		tree	-	All	-	-	-	-	-	-	-
Monkey	bander		tree	-	All	-	-	-	-	-	-	-
snakes	sap		Forest area	-	raining	-	-	-	-	-	-	-
Lizard	Kirli		Forest area	-	All	-	-	-	-	-	-	-
Mongoose	neol		Forest area	-	All	-	-	-	-	-	-	-

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.)
1	kikar	<i>Acacia Nilotica</i>	Broad leave	sub tropical	summer	Common
2	Mangoo	<i>Mangifera Indica</i>	Broad leave	sub tropical	summer	Common
3	Safeda	<i>Eucalyptus spp.</i>	Broad leave	sub tropical	summer	Common
4	Sree	<i>Albizzia lebbeck</i>	Broad leave	sub tropical	summer	Common
5	Talli	<i>Dalbergia sissoo</i>	Broad leave	sub tropical	summer	Common
6	Popular	<i>Populus ciliata</i>	Broad leave	sub tropical	summer	Common
7	Jammun	<i>Syzigium cummni</i>	Broad leave	sub tropical	summer	Common

Format 30: Fauna

1	2	3	4	5	6
Sr. No.	Local Name	Scientific Name	Type of Animals (Mammals / Birds / Fish / Insect etc.)	Habitat	Remarks (Rare / Common etc.)
1	Cow		Mammels	Terrestrial	Common
2	Buffalow		Mammels	Terrestrial	Common
3	Sheep		Mammels	Terrestrial	Common
4	Goat		Mammels	Terrestrial	Common
5	Sparow		Birds	Terrestrial	Common
6	Crow		Birds	Terrestrial	Common
7	Parrot		Birds	Terrestrial	Common
8	Peacock		Birds	Terrestrial	Rare
9	Ant		insects	Terrestrial	Common
10	Bee		insects	Terrestrial	Common
11	Butterfly		insects	Terrestrial	Common
12	Mosquto		insects	Terrestrial	Common
13	Cater pillar		Aquatic Animals	Terrestrial	Common
14	Fish		Aquatic Animals	Aquatic	Common
15	Frog		Aquatic Animals	Aquatic	Common

16	Tortoise		Aquatic Animals	Aquatic	Common
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Format 31: Any other information of local importance

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