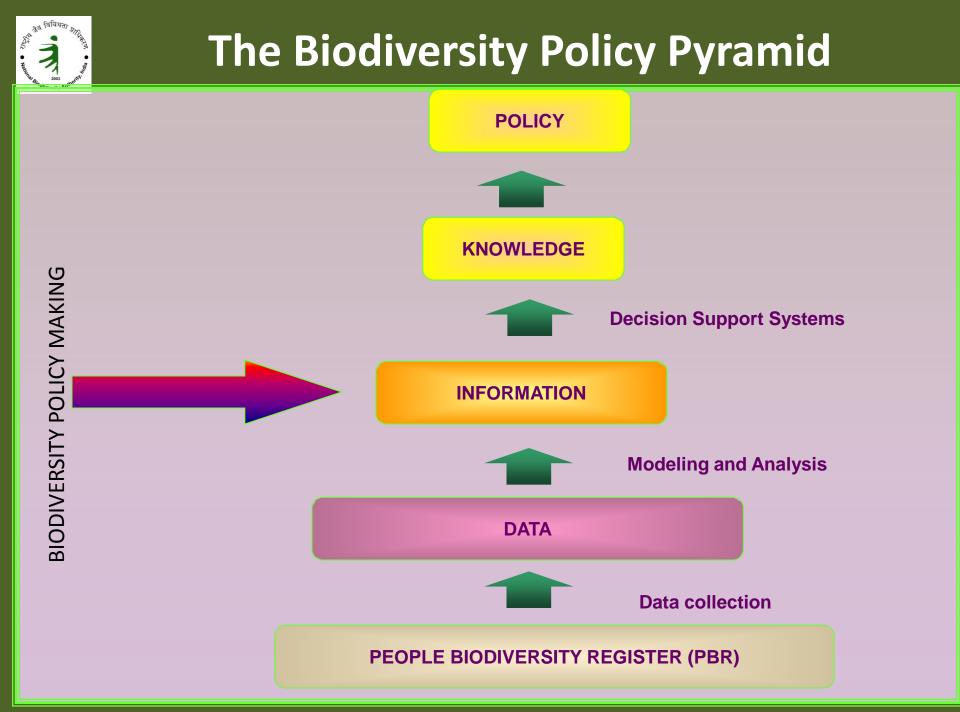


PREPARING A PEOPLES' BIODIVERSITY REGISTER



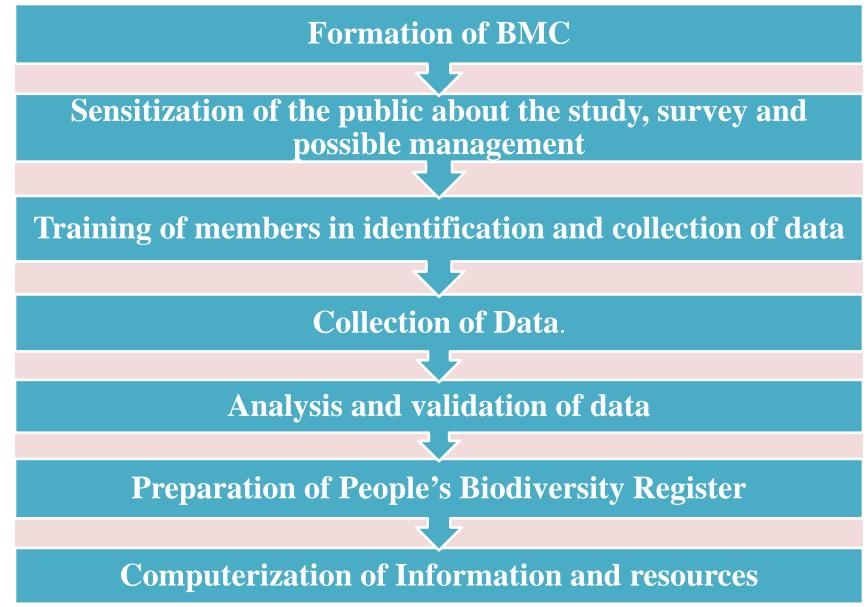
This Presentation was prepared by Dr. K. Thulsi Rao and modified by NBA







Process in PBR Preparation



Consultative Led by Local Communities









Through Biodiversity Management Committees (BMCs)

All Taxa Biodiversity Inventory, Management Information System & Bio-Mapping



Species Charecters

Fauna Colour GRAY

Gender ADULT MALE 💌

Measurement Details

TOT SIGHTED DATE BEAT

Fauna Code

NA272021004

NA272021005

NA2812020002

Fauna Group Nam

AUNA SPECIMEN CODE COMMON NAM

HONEY BEE

DRAGONELY

SEETES

labitat Observations

STATUS FOREST TYPE

20 27/02/2002 MANNANUR (N) COMMON MIXED DRY DECIDUOUS FOREST 3 27/02/2002 MANNANUR (N) ABUNDANCE MIXED DRY DECIDUOUS FOREST

5 28/12/2002 BOMMANAPALLY ABUNDANCE MIXED DRY DECIDUOUS FOREST

- Graph Report

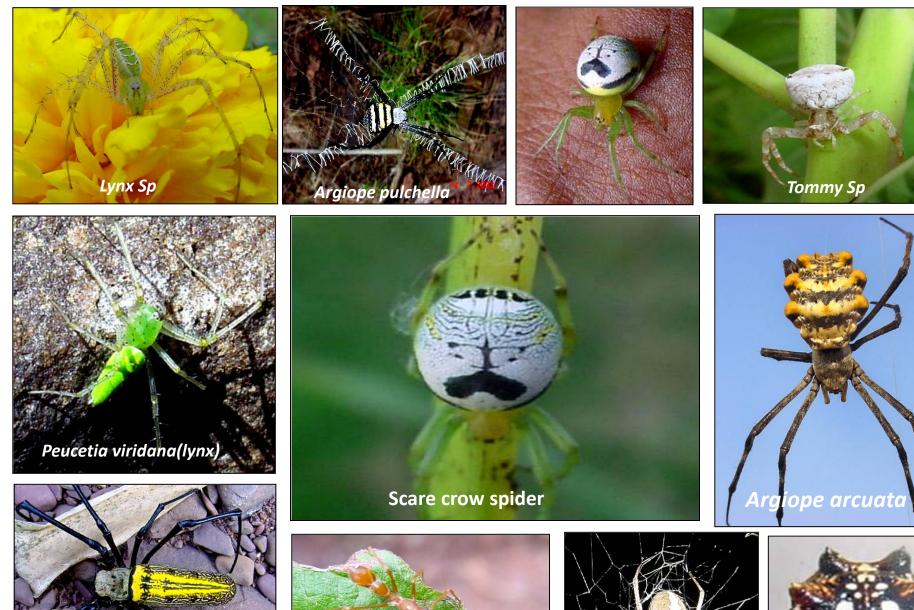
1

Surveying & Collection of **Voucher Specimens**

Specimens Identification & Preservation

Database Management & Bio-Mapping





Myrmarachne sp

Orb Spider



Nephilia maculata

Peoples' Biodiversity Registers (PBRs) Guidelines

The Process :

- It is to be undertaken in a participatory mode involving varying sections of village society.
- While documenting, the knowledge and views of both genders are to be recorded.
- Information provided by people need to be collated, analysed and crosschecked before documentation.
- The PBR is important base document in the legal arena as evidence of availability of resource and knowledge and hence careful documentation is necessary.



Peoples' Biodiversity Registers (PBRs) Guidelines

The Process :

• The document should be endorsed by the BMC and later publicized in the Gram Sabha / Gram Panchayat / Panchayat Samiti. The document can be a very useful tool in the management and sustainable use of bio resources.

• The document can also be a very useful teaching tool for teaching environmental studies at schools, colleges and university level

• The document should be periodically updated with additional and new information as and when generated.

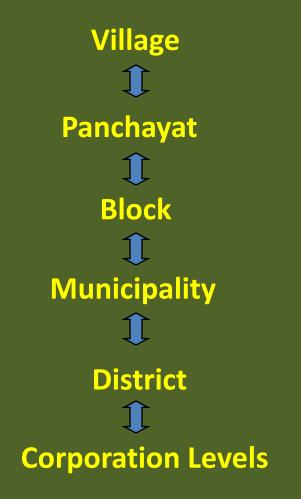
• The PBR will be deposited with State Biodiversity Board (SBB) according to some SBB Rules (Ex: Kerala).



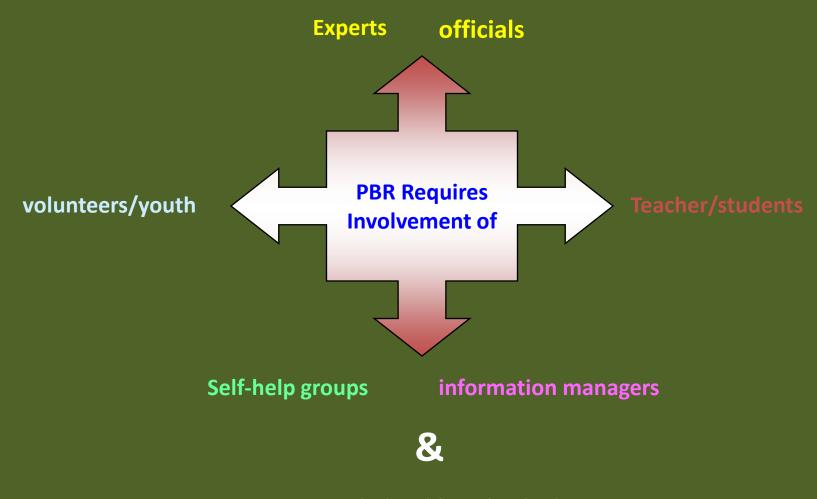
Peoples' Biodiversity Registers (PBRs)

Operating spatial scales

PBR can be proposed at







Knowledgeable individuals

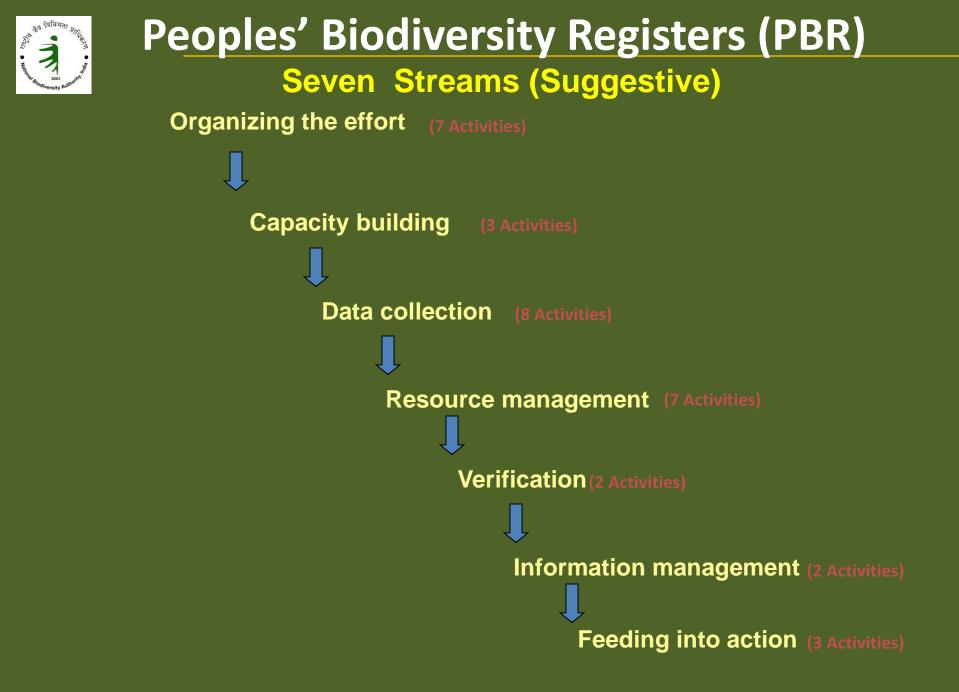




The PBR process shall be

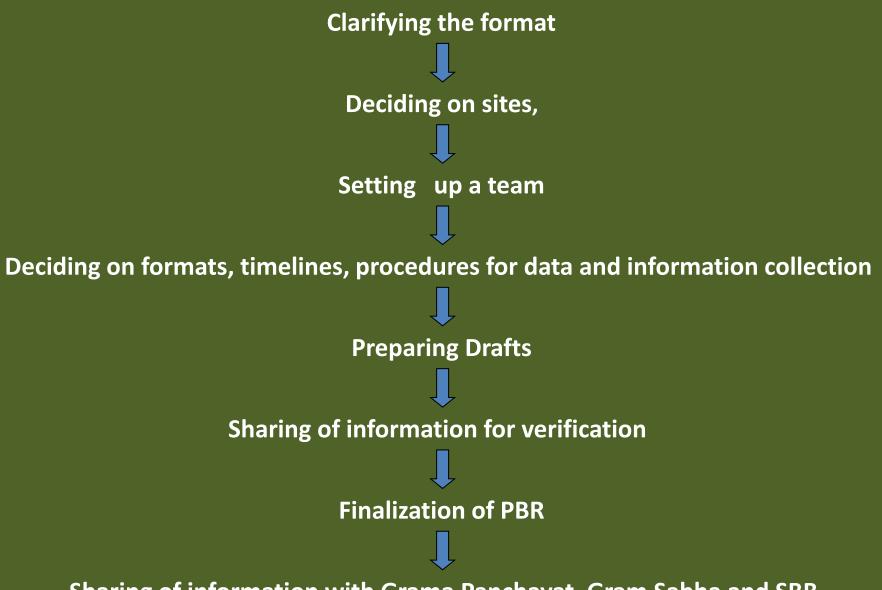
1. An integral component of decentralized, participatory management of natural resources,

It shall be introduced in phases,
beginning with the relatively simpler activities.



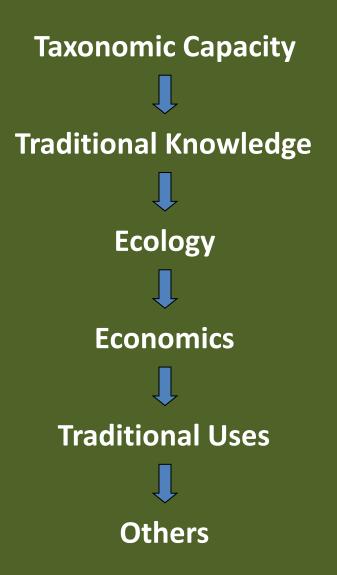


1.Organising the system



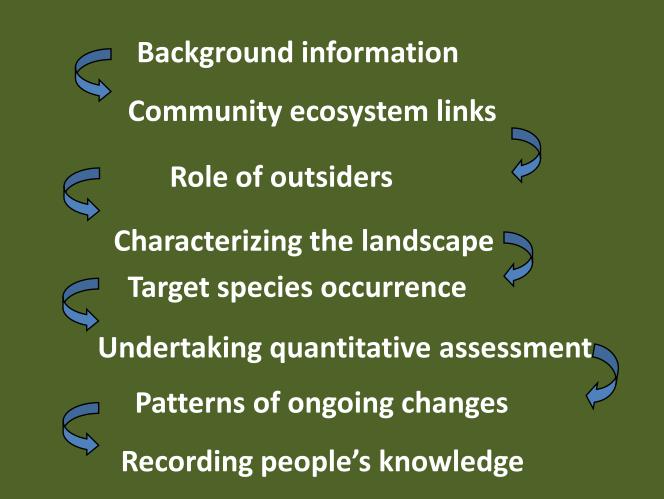
Sharing of information with Grama Panchayat, Gram Sabha and SBB







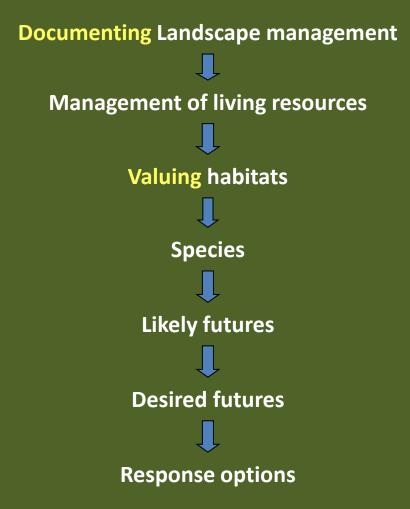
3.Data collection





4.Resource management

Perceptions, values and preferences





5. Verification

Checking for duplication Checking for duplication Ecological information People's knowledge



6. Information management

Preparing Hard Copy

Safeguarding, soft copies, if available

Preparing an action plan an using data and information



Agreeing on response options

Preparing a management plan

Preparing an Action Plan to use the default information



PART - I

Details: General description about the GP with GPS location. Annexure 1-5 Maps (GP, Taluk & Zilla /District) Photos: field study, BMC members, training to BMC members and diversity of the GP.

PART - II

Formats 1-30.

PART – III

Profile of the study area.Details of the natural resources.Abbreviations.References



Data Collection

Form 1. Background Information

C2. Community – Ecosystem Links

Form 2: List of categories of activities and occupations of people residing within the study area.

Form 3: Square matrix showing relation of activities within the study area.

Form 4: Composition of Eco-resource User Groups (Inside study area)

Composition of Eco-system links- Understanding Peoples' Perceptions through In-depth.



C3. Role of Outsiders

Form 5: List of activities by outsider within study area Form 6: Square matrix of outsider activities the study area Form 7: Composition of outside influences Form 8: List of Knowledgeable Individuals

C4. Characterizing the landscape

Form 9A: Description of LSEs and their codes

Form 9: Description of Landscape Elements (LSEs)

Form 10: Description of Waterscape Element (WSEs)

Form 11: Topography and trend in area of selected LSEs

Form 12: Survey of selected WSEs

Form 13: Estimate of vegetation cover of selected LSEs



C5. Target Species Occurrence

Form 15-Occurrence and abundance of target species/varieties for entire study area.

Form 16- Occurrence and abundance of target species in selected LSE\WSEs



C6: Understanding quantitative assessment C7: Patterns of Ongoing Changes

Form-17 Extent of interaction with important LSE\WSEs User Groups

Form-18 Extent of interaction with L\WSEs types by User groups (Outside)

Form-19-History of important LSEs over 10 years from User groups

Form-20- History of important WSEs over 10 years from User groups

Patterns of Ongoing Changes-Trend analysis



C8: Recording People's Knowledge

Form-21 Common information on knowledge

Form-22A-Health-Human/Veterinary/Plant

Form 22B-Management-L\WSE type /L/WSE/ Population/Individual organism

Form 22C-Instrumentation

Form 224D-Ecology and behaviour

Form 22E-Agricultural practices

Form 22F-Plant and animal varieties

Form 22G-Art

Form 22H-Rituals

Form 22 I-Food processing



Peoples' Biodiversity Register Resource management:

Perceptions, values and preferences

D1. Documenting Landscape Management

Form 23-Pattern of ongoing changes in LSEs from User groups

Form 24-Pattern of ongoing changes in WSEs from User groups

D2. Documentation Management of Living Resources

Form-25-Patterns of ongoing changes from User groups regarding significant species

Experiences : Management of Living Resources-School level studies in support of Andhra Pradesh Biodiversity Strategy and Action Plan



D3. Valuing Habitats

D4. Valuing Species

D5. Likely Futures.

D6. Desired Futures

D7. Response Options:

Form 26 - Listing of managing issues

Form 27 - Assessing actions taken to change management

Form 28 - Responses to change in management actions



Verification

E1: Verification of Ecological Information

E2. Verification of People's Knowledge



Annexure 1

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

1) Name of the Chairperson:

Age:

Gender:

Address:

Area of specialization:

Annexure 2

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

Name:

Age:

Gender:

Address:

Area of Specialization:

Location from which the person accesses biological material:

Perception of the practitioner on the resource status:



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:

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

Contact Person
Name and Address:
Contact Person
Name and Address:
You may add names of more institutions / NGO / Individuals, etc. if necessary.



PBR – Formats AGROBIODIVERSITY

Format 1: Crop Plants

1	2	3	4	5	6	7		8	9	10	11	12	13	14
Crop	Scientific Name	Local Name	Variety	Landscape / Habitat	Approx area	Local S	Status	Special feature s	Cropping season	Uses	Associate d TK	Other details	Source of Seeds/Pl ants	Commun ity/ Knowled
					shown	Past	Present	3			TK .		ants	ge Past Present Holder
Rice	Oryza sativa		Veliyan	Lowland valleys		Ple nty	Rare	Tall variety High yield Resista nt to drough t, flood, pest & disease s		Food Fodder Roofin g Fuel	Provides more energy	Suitable for "Valicha" cultivatio n		Kurichiya Kuruma W. Chetty





Format 2: Fruit Plants

1	2	3	4	5		6	7	8	9	10	11	12
Plant	Scientific	Local Name	Variety	Landscape / Habitat	Local St	atus	Source of Seeds/Plants	Season of	Associated TK	Uses	Other details	Community /
	Name	Name		Habitat	Past	Present	Seeds/ Plants	Fruiting	IK		market / own use	Knowledge holder

Format 3: Fodder Crops / Species

1	2	3	4		5	6	7	8	9	10
Plant	Scientific	Local	Landscape /	Local Sta	tus	Source of	Associated	Part	Other	Community /
	Name	Name	Habitat	Past	Present	Seeds/Plants	тк	Used	details	Knowledge holder

Format 4: Weeds

2	3	4	5	6		7	8	9	10	11	12
Scientific	Local	Affecte	Impact	Landscape / Habitat	Local St	atus	Uses if any	Management	Associated	Other Details	Community / Knowledge
Nume	Nume	crop		nasitat	Past	Present	in any	options	ik .	Like exotic	holder
	2 Scientific Name		Name Name d	Name Name d	Scientific NameLocal NameAffecte dImpact HabitatLandscape / Habitat	Scientific Name Local Affecte Impact Landscape / Local St Base d Habitat Habitat Hast	Scientific Name Local Affecte d Impact Landscape / Habitat Local Status	Scientific Name Local Affecte d Impact Impact Landscape / Habitat Local Status Uses if any	Scientific Name Local Affecte d Affecte d Impact Habitat Landscape / Habitat Local Status Uses if any options Management options	Scientific Name Local Affecte d Impact Impact Landscape / Habitat Local Status Uses if any Management options Associated TK	Scientific Name Local Affecte d Impact Landscape / Habitat Local Status Uses if any Management options Associated TK Other Details



Format 5: Pests of Crops

1	2	3	4	5	6	7	8	9	10
Host	Insect / Animal	Scientifi c name	Local name	Habitat	Time / season of attack	Management mechanism	Associated TK	Other details	Community knowledge holder

Format 6: Markets for Domesticated

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

Format 7: People Scape

1	2	3	4	5	6	7	8	9	10	11
Comm unity & Popul ation	Families & Major occupatio n	Sub occupatio n	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



Format 8: Landscape

1			2	3	4	5	6	7	8	9	10	11	12
Major L	andscap	es	Sub - Landscapes	Features and	Ownership	General flora	General fauna	User group	Managem ent	General uses	Associat ed TK	Other details	Commu nity
Agric ultur al land	Pon d	Fallow land		approx. area				S	practices				accesse d

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	Commun ity accessed

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



Format 11: Fruit Trees

1	2	3	4	5		6	7	8	9	10	11	12
Plant	Local	Scient ific	Variety	Landscape	Local S	tatus	Source of	Season of	Uses	Associated	Other	Community /
type	Name	Name		/ Habitat	Past	Presen t	Seeds/Plant s	Fruiting	(Usage)	ТК	Details Market /	Knowledge holder
						L					own	

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

1 2 3 4 5 6 7 8 9 10 11 12	
----------------------------	--

Plant			Variety	Landscape/	Source of	Local St	atus	Source of	Associated	Part	Other	Community /
		fic Name		Habitat	plant/seeds	Past	Present	Seeds/Plants	ТК	Used	details	Knowledge holder

Format 13: Ornamental Plants / Trees / Climbers etc.,

1	2	3	4	5	6	7	8	9	10
Pl ant Type	Local Name	Scientific Name	Variety	Source of plant/seeds	Commercial / non- commercial	Uses	Associated TK	Other details	Community / Knowledge holder



Format 14: Timber Plants / Trees

1	2	3	4		5	6	7	8	9	10
Plant	Local Name	Scientific Name	Habitat	Local Stat	tus	Wild/Home garden	Other Uses (multi)	Associated TK	Other details	Community / Knowledge
				Past	Present					holder

Format 15: Domesticated Animals

1	2	3	4	5	6	7		8	9	10	11	12
Animal Type	Local Name	Scientifi c Name	Breed (Local / Hybri d)	Featur es	Method of keeping	Local Sta Past	atus Present	uses	Associated TK	Commerci al rearing	Other Details Including products and services	Community / Knowledge holder

Format 16: Culture Fisheries

1	2	3	4	5	6	7		8	9	10	11	12
FISH	Local	Scientifi	Variety	Featur	Water	Local St	atus	uses	Associated	Commerci	Other Details	Community /
Туре	Name	c Name		es	scape (Pond / bheri / talao)	Past	Present		ТК	al rearing	Including products and services	Knowledge holder



Format 17: Markets / Fairs for Domesticated Animals, Medicinal Plants and other products

1	2	3	4	5	6	7	8	9
Name of the weekly market or fair	Location	Weekly / Fortnightly & Others Bi-annual / Annual	Day held	Month incase of bi-annual or annual market fair	Types of animal bought and Sold Number of animals (average) transacted in a day	Number of animals (average) transacted in a day	Places from where the animals are arrived	Places to where the animals are transpor ted

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 st Past	atus Present	Com merci al / own use	Part collected	Associated TK	Other details	Community Past Present Knowledge Holder

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
S.No	Local Name	Scientific Name	Variety	Importance (as economic, social cultural etc.,)	Status



Format 20: Aquatic Biodiversity

1	2	3	4	5		6	7	8	9	10
Local Name	Scientific Name	Variety	Features	Habitat	Local S Past	status Present	uses	Associated TK	Other Details Including products and services	Community / Knowledge holder

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
S.No	Local Name	Scientific Name	Variety	Importance	Trends

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	Habitat	Local Sta Past	atus Present	uses	Part used	Associated TK	Other Details Including products and services	Community / Knowledge holder



Format 23: Wild relatives of Crops

1	2	3	4		5	6	7	8	9	10
Local Name	Scientifi c Name	Associ ated crop	Habitat	Local St Past	atus Present	uses	Part used	Associated TK	Other Details	Community / Knowledge holder

Format 24: Ornamental Plants

1	2	3	4	5	6	7	8
Local Name	Scientific Name	Variety	Habitat	Commercial / Non- commercial Uses	Associated TK	Other Details	Community / Knowledge holder

Format 25: Fumigate / Chewing Plants

1	2	3	4	5		6	7	8	9	10	11
Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variet y	Habitat	Local Past	Status Present	uses	Part used	Associated TK	Other Details	Community / Knowledge holder



Format 26: Timber Plants

Local NameScientific NameHabitat Local StatusLocal Statususes usesAssociated TKOther DetailsCommunity / Knowledge holder	1	2	3		4	5	6	7	8
Post Procont			Habitat	Local	Status	uses		Other Details	
	Name	Name		Past	Present		ТК		

Format 27 A: Coastal and Marine Flora

1	2	3	4	5	6	7	8	9	10
Plant Type	Local Name	Scientifi c Name	Habita t	Local Status Past Present	Parts Collected (if any)	uses	Associated TK	Other Details	Community / Knowledge holder

Format 27 B: Coastal and Marine Flora

1	2	3	4	5	6	7	8	9	10
Animal Type	Local Name	Scientifi c Name	Habita t	Local Status Past Present	Parts Collected (if any)	uses	Associated TK	Other Details	Community / Knowledge holder



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

1	2	3	4	5	6	7		8	9	1	0	11	12
Animal Type	Local Name	Scientific Name	Habitat		Season when seen	Local Stat	us Present	uses	Associated TK	Mode Huntin collect	ng,	Other Details	Community / Knowledge holder
URBAN BIODIVERSITY Format 29: Flora													
1	2		3	4		5			6			7	
Sr. No.	Local Name	Scier Nam		Type of Plants	Habit	tat	Flow	ering Seaso	n		Remai	rks (Rare / Co	ommon etc.)

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.)

Format 31: Any other information of Local Importance

1	2	3				
Sr. No.	Information of Local Importance	Remars				

THANK YOU