

PART – II

PROPOSED MANAGEMENT

CHAPTER – 5

PLAN OBJECTIVES AND PROBLEMS

5.1 THE VISION

Satkosia Gorge Sanctuary is the second Project tiger of Orissa and the heart of Mahanadi elephant reserve . Having a very high bio diversity index, it is famous for its deep gorge, steep terrain with dense forest with close canopy, banyan trees, Teak plantation , besides wide diversity of wild fauna.

This sanctuary was notified in 1976 to protect habitat of gharial and mugger. Now it has been proposed to declare the sanctuary as a Tiger Reserve as it is one of the best Tiger habitat and rich in its prey base like Gaur, Sambar, Chital and Barking deer population. The sanctuary is to be protected and managed to conserve this flag ship species in all its splendor. Enough breeding space with plenty of prey base will be the key. Satkosia is the best habitat for elephant in Mahanadi elephant reserve. Poaching for tusk is the only threat to the tuskers. Protection against poaching will be strengthened. The elephant corridor will be restored, connecting to Kapilas on eastern side and Rairakhol and Sambalpur on the western side . The sanctuary boundary will extend over adjoining elephant habitat for imposition of stringent legal provision..

The Mahanadi gorge will be the undisturbed habitat for gharial and mugger. fishing and traffic in river Mahanadi will be regulated. Nesting sites will be protected. Compact canopy is to be maintained to facilitate long range movement of giant squirrel population. Forest cover in degraded areas needs to be restored with ficus and other fruit bearing trees for supporting avi-fauna.

The key areas, mesic sites, critical habitats ,Red Flag zones will be identified and maintained at any cost.The sanctuary will also be made free from all possible threats like fire, grazing, illicit felling, poaching etc. in order to maintain the biodiversity and conserve the key species of the sanctuary.

Dependency of people in and around the sanctuary is to be reduced to a great extent. People will be provided with alternate livelihood options. Eco development activities will be under taken to reduce the dependency and to uplift the socio-economic status of the people through innovative micro enterprises.

Infrastructural development will be made to support ecotourism. Green rating will be maintained. Rest houses and dormitories will be developed. Better interpretive services will be provided. Religious places, scenic spots, sites of cultural heritage will be included in ecotourism for environment education and feeling of wilderness maintained. Satkosia will not only attract the local picnickers but also the foreign tourists and nature lovers.

Satkosia will be a learning centre and field for research activity, study of biodiversity, behavior and biology of wild animals , wild life management and habitat ecology for students/researchers of all over country.

5.2. Objectives of Management

Goal - To conserve the biodiversity in the sanctuary in general and along the Mahanadi Gorge and its adjoining landscape in particular with active support of the local community.

Objectives

Priority – 1

1. To restore and conserve a viable population of endangered Gharials and Muggers in Mahanadi gorge ecosystem.
2. To maintain the biodiversity with special emphasis on maintaining the viable population of Tiger and Elephant.
3. To enhance the catchment capability to increase water availability.

Priority – 2

4. To relocate identified villages and to reduce dependency of local communities on the forests and to mitigate the Man – Wildlife conflict.
5. To promote ecotourism for alternate livelihood support of the local community.

Priority – 3

6. To build cooperation of staff and people for effective management.

5.3. Problems in achieving the objectives:

1. Illicit felling and smuggling.
2. Poaching
3. Over fishing
4. Grazing
5. Excessive human settlement
6. Inadequate staff
7. Forest Fire.
8. Scarcity of water during summer
9. Invasion of weeds.

10. Human – Wildlife conflict.
11. Fragmentation of elephant habitat and loss of corridor links.
12. Poor socio-economic condition of people.
13. Inadequate training.
14. Lack of adequate Research and inventories.
15. Dependency of people on the sanctuary.
16. Inadequate infrastructures.
17. Lack of awareness.
18. More soil erosion.
19. Non-availability of land for relocation.
20. Poor health service to staff, less amenities.

PROBLEM MATRIX

Degree of Problems :	High	(H)	= 3
	Medium	(M)	= 2
	Low	(L)	= 1
Weightage for Priority:		P ₁	= 3
		P ₂	= 2
		P ₃	= 1

PROBLEM MATRIX
OBJECTIVES

Degree of Problems : High (H) = 3 Medium(M)= 2 Low (L) = 1

Weightage for Priority: P₁ = 3 P₂ = 2 P₃ = 1

Sl No	Problems	P ₁						P ₂				P ₃		Weighted score of the problems in achieving objectives	
		To restore & conserve a viable popl. of crocodile		To maintain representative Bio-diversion		To enhance catchment capability		To relocate identified Villages		To promote environment Education.		To build capacity of staff and people			
1	Illicit felling and smuggling	M	6	H	9	H	9							24	4
2	Poaching			M	6									6	
3	Uncontrolled / over fishing	M	6											6	
4	Livestock grazing			H	9	M	6							15	11
5	Excessive Human settlement			H	9			H	6					15	12
6	Inadequate staff	L	3	H	9					H	6	H	3	21	7
7	Forest fire			H	9	H	9							18	8
8	Scarcity of water in summer			H	9									9	16
9	Invasion of weeds			M	6									6	
10	Human-Wildlife conflict			M	6			H	6					12	14
11	Fragmentation of elephant habitat and corridor			M	6			H	6					12	15
12	Poor socio-economic condition of people			H	9			H	6	M	4			19	13
13	Inadequate Training	M	6	M	6	L	3	M	4	H	6	H	3	28	2
14	Lack of adequate Research & inventories	H	9					M	4	H	6	H	3	22	6
15	Dependency of people	M	6	H	9	M	6	H	6					27	3
16	Inadequate infrastructure							H	6	H	6	H	3	15	9
17	Lack of Awareness	H	9	H	9			H	6	H	6	H	3	33	1
18	Soil erosion			M	6	H	9							15	10
19	Non availability of land for relocation							H	6					6	
20	Poor health service to staff and less amenity.	H	9	H	9					L	2	M	2	22	5

Analysing the problem Matrix the major problems are listed below as per their priority or ranking.

Rank	Problem	Weight and score
1	Lack of Awareness	33
2	Inadequate Training	28
3	Dependency of People	27
4	Illicit felling and smuggling	24
5	Poor health, amenity of staff	22
6	Lack of Research and inventory	22
7	Inadequate staff	21
8	Forest Fire	18
9	Inadequate infrastructure	15
10	Soil erosion	15
11	Live stock grazing	15
12	Excess human settlement	15

So strategies are being made to solve the above major problems on priority basis so as to achieve our goal.

Besides the priority sector, other minor problems are to be solved as supplementary strategy to achieve our goal.

The list of minor problems on priority basis are –

1	Poor socio economic condition of people	13
2	Human – wild animal conflict	12
3	Fragmentation of elephant habitat	12
4	Scarcity of water	9