



**G.N.SINHA, IFS**  
**Principal Chief Conservator of Forests**  
**Wildlife**

**Telephone : 03192- 232370 (O)**  
**FAX No. 03192-233549**  
**Chief Wildlife Warden**  
**Andaman & Nicobar Islands,**  
**Port Blair- 744 102**

## **PREFACE**

By reasons of rich ecological, faunal, floral, geo-morphological and Zoological association an area 3253.68 ha (35.54 sq.km) in North Andaman Island was declared as National Park, the 'Saddle Peak National Park' under the provisions of Wildlife (Protection) Act, 1972 during the year 1996 for the purpose of protecting and propagating and developing Wildlife therein. The area of this park comprises the highest mountain peak of Andaman & Nicobar Islands, the 'Saddle Peak'. The terrain of the park is highly undulating; elevation varies from sea level to 732 m with a number of perennial & seasonal streams passing through. Due to altitudinal variations almost all types of forests that exist in Andaman & Nicobar Islands are found within the confines of the National Park. 20 species of mammals, 96 species birds, 26 species of insects are so far recorded from the National Park.

Conservation and management of such an area needs carefully planned interventions. With this objective, the present management plan, the first ever for Saddle Peak National Park has been prepared covering the period from 2014 to 2024. The Management Plan has been divided into two Parts, i.e. Part - I deals with the description of the area details, background information, ecosystem and ecological relationship and socio-economic aspects and cultural practices (Chapters 1-3), Part - II, deals with the Management objectives, management strategies of this National Park under Chapter 4 and 5, the habitat improvement plan, bio-diversity conservation and protection plan is provided in Chapter 6, 7 and 8. Subsequent chapters provide details of different programmes and activities to be taken up in the National Park during this Plan period, which include tourism (Chapter 9), eco-development (Chapter 10), research, survey and monitoring (Chapter 11).

Organization and the administrative set up (Chapter – 12), (Chapter 13) provides developmental activities for implementing the Management Plan activities.

I gratefully acknowledge the efforts of Shri C.R.Mallick, the then Divisional Forest Officer (Wildlife) Mayabunder who initiated the drafting of the Management Plan and Shri S.K. Thomas, Divisional Forest Officer, Wildlife Division, Mayabunder for preparing the complete Management Plan. I also acknowledge the contributions of Shri Ajai Saxena, IFS, the then Chief Conservator of Forests (Wildlife), Shri K.Ravichandran, IFS, Conservator of Forests (Wildlife), Shri A.K.Paul, Asst. Conservator of Forests (Wildlife), Shri Shaji P.Abraham, Asst. Conservator of Forests and Shri S.K.Roy, the then Range Officer in preparation of the Management Plan.

I am sure that this document would provide useful information not only to the Park Manager and the staff for effective management of this Protected Area but also to researchers, scientists, environmentalists and wildlife enthusiasts.

October : 2014  
Port Blair

(G.N.SINHA)  
Principal Chief Conservator of Forests (Wildlife)  
&  
Chief Wildlife Warden  
Andaman & Nicobar Islands

Sl. No.	CONTENTS	Page No.
	<b>PART I</b> <b>CHAPTER - 1</b> <b>INTRODUCTION AND BACKGROUND</b>	<b>1 to 16</b>
1.1	Introduction	1
1.1.1	Name and Situation	1
1.1.2	Legal Status	1-2
1.1.3	Scope of the Plan	2
1.1.4	Period of the Plan	2
1.2	Distribution and Area	2-3
1.3	Location & Boundary	3
1.3.1	Location & Boundary of the National Park	3-4
1.3.2	Reserve Forest Boundary	4-5
1.3.3	Inter divisional Boundary	5
1.4	Configuration of the ground	5
1.4.1	Topography	5
1.4.2	Geomorphology	5-6
1.4.3	Soil with respect to geological formation	6-8
1.5	Climate	8-9
1.5.1	Temperature	9-10
1.5.2	Rainfall	10
1.5.3	Humidity	11
1.5.4	Cyclone	11
1.5.5	Winds	11-12
1.6	Water Resources	12
1.7	Tides & Currents	12-13
1.8	Rights and Concessions	13
1.9	Major components of Flora	13
1.10	Major components of Fauna	13-14
1.10.1	Mammals	14
1.10.2	Avian fauna	14
1.10.3	Reptilian fauna	14
1.10.4	Marine fauna	14-15
1.10.5	Butterflies	15
1.11	Past & Present forms of land use	15-16
1.12	Status of Wildlife	16
	<b>CHAPTER - 2</b> <b>ECOSYSTEM AND ECOLOGICAL RELATIONSHIP</b>	<b>17 to 33</b>
2.1	Introduction	17-18

2.2	Biodiversity	18
2.2.1	Flora	18-19
2.2.2	<sub>1</sub> A/C <sub>2</sub> – Andaman Tropical Evergreen Forests	19-21
2.2.3	<sub>1</sub> A/C <sub>3</sub> – Southern Hill-Top Tropical Evergreen Forests	21
2.2.4	<sub>1</sub> A/E <sub>1</sub> – Cane Brakes	21-22
2.2.5	<sub>1</sub> A/E <sub>2</sub> – Wet Bamboo Brakes	22
2.2.6	<sub>2</sub> A/C <sub>1</sub> – Andaman Semi Evergreen Forests	22-23
2.2.7	<sub>3</sub> A/C <sub>1</sub> – Andaman Moist Deciduous Forests	23-24
2.2.8	<sub>4</sub> A/L <sub>1</sub> – Littoral Forests	24-25
2.2.9	<sub>4</sub> B/TS <sub>2</sub> – Mangrove Forest (Tidal swamp Forest)	25
2.3	Fauna	25-26
2.3.1	Mammals	26-27
2.3.2	Avian fauna	27-31
2.3.3	Reptilian fauna	31-32
2.3.4	Insets and Butterflies	32-33
	<b>CHAPTER – 3</b> <b>SOCIO-ECONOMIC ASPECTS AND CULTURAL PRACTICES</b>	<b>34-37</b>
3.1	Habitation within and adjacent to the National Park area	34-35
3.2	Biotic Interference	35
3.2.1	Hunting & Poaching	35-36
3.2.2	Grazing Pressure	36
3.2.3	Sand Mining	36-37
3.2.4	Settlements	37
	<b>PART – II</b> <b>CHAPTER – 4</b> <b>MANAGEMENT OBJECTIVES</b>	<b>38-40</b>
	Management Objectives	38
4.1	Long term objectives	39-40
4.2	Short term objectives	40
	<b>CHAPTER – 5</b> <b>MANAGEMENT STRATEGIES</b>	<b>41-49</b>
5.0	Objectives	41-42
5.1	Boundaries	42
5.2	Zonation	42
5.2.1	Objectives	42-47
5.3	Conservation Plan	47
5.4	Protection Plan	48
5.5	Ecotourism and Eco-development Plan	48
5.6	Research, Survey and Monitoring Plan	48-49

5.7	Administration, Infrastructure and Capacity Building Plan	49
	<b>CHAPTER - 6 HABITAT IMPROVEMENT PLAN</b>	<b>50-57</b>
6.0	Habitat Improvement	50
6.1.1	Alien Invasive Species	50-51
6.1.2	Introduced Wild Animal Species	51-52
6.1.3	Grazing pressure	52
6.1.4	Sand Mining	53
6.1.5	Rehabilitation of Encroachers & Reclamation of evicted land	53-54
6.2	Opportunities	54-55
6.3	Watershed Management	55-56
6.4	Restoration of Mangrove Eco-system	56-57
6.5	Establishment of Nurseries	57
	<b>CHAPTER - 7 BIO-DIVERSITY CONSERVATION</b>	<b>58 to 66</b>
7.1	General	58
7.2	Conservation of Andaman Wild Pig	58
7.2.1	Habitat	58
7.2.2	Conservation Problem	58
7.2.3	Conservation Plan	59
7.3	Conservation of Andaman Teal	59-60
7.3.1	Habitat	60
7.3.2	Conservation Problem	60
7.3.3	Conservation Plan	60-61
7.4	Conservation of other Flora & Fauna	61-62
7.4.1	Conservation Problem	62
7.4.2	Conservation Plan	62-63
7.5	Conservation of Sea Turtles	63
7.5.1	Habitat	63-65
7.5.2	Conservation Problem	65
7.5.3	Conservation Plan	65-66
	<b>CHAPTER - 8 PROTECTION PLAN</b>	<b>67 to 76</b>
8.1	Protection Camps	67
8.1.1	Multiple entries into National Park	67-68
8.1.2	Eco sensitive zones	69
8.2	Protection camp	69-70
8.3	Central Protection Unit	70

8.3.1	Patrolling Plan of Protection camps	71
8.3.2	Training and capacity Building	71
8.3.3	Awareness Generation	71-72
8.3.4	Review on Protection Plan	72
8.4	Providing incentives to the staff for doing exemplar Protection works	72-73
8.5	Infrastructure Development	73
8.5.1	Buildings and Road	74
8.5.2	Manpower	74-75
8.5.3	Transport & Mobility	75
8.5.4	Communication	75
8.6	Report on patrolling	75
8.6.1	Maintenance of Field Diary	76
8.6.2	Maintenance of Offence Register	76
	<b>CHAPTER - 9 TOURISM</b>	<b>77 to 89</b>
9.1	Conservation and Education	77-78
9.1.1	About Eco-Tourism	78
9.1.2	Eco-Tourism	79-81
9.1.3	Eco-development Plan	81
9.1.4	Nature Education and Awareness Generation Plan	81-82
9.1.5	Administration, Infrastructure and Capacity Building Plan	83
9.1.6	Sustainable Tourist opportunities	83-84
9.2	Eco Tourism Plan	84-85
9.3	Tourist impact on Flora & Fauna	85-87
9.4	Interpretation	87-88
9.4.1	Wayside exhibits and signage	88-89
	<b>CHAPTER - 10 ECO-DEVELOPMENT</b>	<b>90 to 94</b>
10.1	Introduction	90-91
10.2	Objectives	91
10.3	Eco-development Plan for villagers	92-93
10.4	Eco-development Committee	93-94
10.5	Microplan	94
	<b>CHAPTER - 11 RESEARCH, SURVEY AND MONITORING</b>	<b>95 to 104</b>
11.1	Introduction	95-96
11.1.1	Research	96
11.1.2	Research Objectives	97

11.1.3	Research Strategies	97-99
11.2	Priority Research and Monitoring Areas	99-100
11.2.1	Baseline status surveys of indicator/endemic/threatend species of flora and fauna followed by regular monitoring of he status of such species	100
11.2.2	Bi-annual Census of Wild Pig and Spotted Deer	100-101
11.2.3	Impact of Introduction of exotic species of flora and fauna to the Park and their impact	101
11.2.4	Monitoring impacts of biotic pressures on the Park Resources and also the impacts of management endeavours	101
11.2.5	Maintaining GIS based databases on the Park resources	101-102
11.2.6	Developing Monitoring Protocol	102
11.2.7	Survey of Butterflies	102
11.2.8	Survey of Medicinal Plants	102
11.2.9	Agencies to be involved in research	102-103
11.2.10	Permission to Conduct research in the National Park	103-104
	<b>CHAPTER - 12 ORGANIZATION AND ADMINISTRATION</b>	<b>105 to 109</b>
12.1	Administration	105-106
12.2	Infrastructure development	106
12.3	Capacity Building	107
12.4	Staff position	107-108
12.5	Staff amenities (Accommodation)	108
12.6	Vehicle and Water Transport	108
12.7	Weapons and Communication system	109
	<b>CHAPTER - 13 DEVELOPMENTAL ACTIVITIES</b>	<b>110 to 117</b>
13.0	The proposed developmental activities during plan period	110
13.1	Physical and financial forecast	110-116
13.2	Source of fund for various works	117
13.3	Revenue	117

### **List of Appendix**

Sl. No.	Appendix No.	Name of content	Page No.
1.	Appendix- I	The Forest land was declared Reserve Forest vide Notification No. 59/G/635 dtd. 17.4.1963 and 115/47-5/60DH dtd. 8.9.1963	118-120
2.	Appendix- II	Declaration of National Park vide Notification No. 97(D)/96- No. CWLW/WL/31/1219 dated 28 <sup>th</sup> November 1996	121-125
3.	Appendix- III	Monthly Weather data for Temperature, Rainfall, Humidity & Wind speed for 2002 to 2012	126-131
4.	Appendix- IV	List of faunal species in Saddle Peak National Park	132-149
5.	Appendix- V	The list of encroachers with location & GPS reading of the existing dwelling units within the limits of the National Park .	150-152
6.	Appendix- VI	The livelihood analysis with respect to demography of the encroachers.	153-157
7.	Appendix- VII	The Andaman & Nicobar Administration notification vide No.173/2011 No. CWLW/WL/170/212 dated 8 <sup>th</sup> August 2011 for constitution of Eco- development committee.	158-166
8.	Appendix-VIII	Tourist Visited Saddle Peak National Park from 2003 to 2012	167
9.	Appendix-IX	Pro forma for maintenance of Beat Register	168-170



10.	Appendix- X	Revenue Receipt of Saddle Peak National Park From 2003 To 2012	171
11.	Appendix-XI	Map showing the location of Saddle Peak National Park in the A&N Islands	172
12.	Appendix- XII	Map showing the Digital Elevation model of Saddle Peak National Park	173
13.	Appendix –XIII	Map showing contours of Saddle Peak National Park	174
14.	Appendix-XIV	Map showing watershed & water bodies of Saddle Peak National Park	175
15.	Appendix-XV	Map Showing Drainage of Saddle Peak National Park	176
16.	Appendix-XVI	Map showing Forest types of Saddle Peak National Park	177
17.	Appendix-XVII	Map showing Conservation zones of Saddle Peak National Park	178
18.	Appendix- XVIII	Map showing Protection zones of Saddle Peak National Park	179
19.	Appendix- XIX	Map showing Ecotourism zones of Saddle Peak National Park	180
20.	Appendix XX	Map showing Multipurpose zone of Saddle Peak National Park	181
21.	Appendix –XXI	Map showing encroachments in Saddle Peak National Park	182
22.	Appendix- XXII	Map showing Eco- Sensitive villages with aerial distance from National park boundary.	183
23.	Appendix-XXIII	The Control Forms	184-201

## List of Figures

Sl.No	Figures	Page No
1.	Fig.1 : Saddle Peak National Park	05
2.	Fig. 2 : Andaman Tropical evergreen forest	19
3.	Fig. 3 : Southern Hill top Evergreen Forest	21
4.	Fig. 4 : Wet Bamboo Brakes	22
5.	Fig. 5 : Alexandrine Parakeet	30
6.	Fig. 6 : Andaman Black Naped oriole	30
7.	Fig. 7 : Andaman Black Wood pecker	30
8.	Fig. 8 : Andaman White head Starli	30
9.	Fig. 9 : Andaman Green Pigeon	30
10.	Fig. 10 : Andaman Treepie	31
11.	Fig. 11 : Orange headed Thrush	31
12.	Fig. 12 : Red Trinket Snake	31
13.	Fig. 13 : Butterflies	32
14.	Fig. 14 : Andaman Mormon	33
15.	Fig. 15 : Lime Butterfly	33
16.	Fig. 16 : Common Bird wing	33
17.	Fig. 17 : Encroachment	34
18.	Fig. 18 : Grazing pressure of Cattle	36
19.	Fig. 19 : Eupatorium	51
20.	Fig. 20 : Encroachment with hut	52
21.	Fig. 21 : Watershed management	55
22.	Fig. 22 : Salt Water Crocodile	56
23.	Fig. 23 : Andaman Wild Pig	59
24.	Fig. 24 : Andaman Teal	60
25.	Fig. 25 : Black Naped Oriole	61
26.	Fig. 26 : Resin producing Tree (Tarpin oil)	61
27.	Fig. 27 : Adaptation of trees at the top of Saddle Peak National Park due to high altitude	61
28.	Fig. 28 : Palm Tree – Endemic flora of Saddle Peak National Park	62

29.	Fig. 29 : Honey comb in National Park	62
30.	Fig. 30 : Olive Ridley Turtle laying eggs inside the National Park	63
31.	Fig. 31 : Temporary Hatchery inside National Park	66
32.	Fig. 32 : A picturesque view of National Park	79
33.	Fig. 33 : A Nature Trail	80
34.	Fig. 34 : Nature camp	81
35.	Fig. 35 : Enjoying Nature tourism	83
36.	Fig. 36 : Rest Hut	83
37.	Fig. 37 : Watch Tower	84
38.	Fig. 38 : Eco Dustbin	85
39.	Fig. 39 : Nature Walk	85
40.	Fig. 40 : Signage	88
41.	Fig. 41 : Euphorbia spp.	97
42.	Fig. 42 : Orchid spp.	99
43.	Fig. 43 : Range Office at Lamiya Bay	107