SURVEY OF NATIONAL PARKS AND SANCTUARIES IN INDIA

Sponsored by the Ministry of Environment and Forests, Government of India

QUESTIONNAIRE - 1
INDIAN INSTITUTE OF PUBLIC ADMINISTRATION
NEW DELHI
1998

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INSTRUCTIONS FOR FILLING IN THE QUESTIONNAIRE

As the responses to this questionnaire would be fed into the computer, you are requested to read and follow these instructions carefully, thereby helping us to ensure that the information is recorded correctly.

- The questionnaire may kindly be filled in and dispatched back to us within one month of receipt. Please do not delay the response, as this would hold up the consolidation of information for the whole country and its presentation in report form.
- Dates/periods for which data are required have been indicated in the questionnaire. Where data are not available for the dates/period required KINDLY GIVE DATA FOR THE NEAREST AVAILABLE DATES/PERIOD AND INDICATE CLEARLY THE DATES/PERIOD FOR WHICH YOU ARE SUPPLYING DATA.
- Wherever the space given in the questionnaire for recording answers is found inadequate, kindly attach extra sheets of paper INDICATING THE PAGE NUMBERS AND QUESTION NUMBER to which the response is given.
- 4. VERY IMPORTANT: While filling in the questionnaire please:
 - a) WRITE "N.A." against any question not applicable to the PA you are responding about.
 - b) LEAVE BLANK the space against any questions for which you do not have the answer. In case you expect to have this information available by some future date, please indicate this date IN THE MARGIN ON THE LEFT OF THE QUESTION NUMBER.

AS ONE OF THE PURPOSES OF THIS QUESTIONNAIRE IS TO DETERMINE THE NATURE AND EXTENT OF INFORMATION AVAILABLE WITH PA AUTHORITIES, KINDLY ENSURE THAT ONLY THOSE ANSWER SPACES ARE LEFT BLANK FOR WHICH YOU DO NOT HAVE INFORMATION.

- While giving data that you might not be totally certain about, kindly indicate the reasons for your reservations by a footnote at the bottom of the page, clearly stating the question number to which the footnote refers.
- 6. STATISTICAL DATA MAY KINDLY BE PROVIDED IN THE UNITS ASKED FOR IN THE QUESTIONNAIRE. In case the data

- available with you are in some other units, please convert them to the relevant units before entering them in the questionnaire. In those rare cases where such a conversion is not possible, kindly indicate the units in which the data are being given.
- 7. While answering the questions, please tick mark the correct answer in the space provided. Please provide additional information where relevant.
- 8. A copy of the completed questionnaire may kindly be retained in your office as your record copy and for future reference.
- 9. The original questionnaire, duly completed, may kindly be returned, along with the enclosures listed below, **BY NAME** to:

Shekhar Singh Project Director Indian Institute of Public Administration, Indraprastha Estate Ring Road, New Delhi - 110 002

DOCUMENTS TO BE ENCLOSED WITH THIS QUESTIONNAIRE

- 1. Copy of past management plan(s) (especially for the past 5 years)
- 2. Copy of the sanctioned budget of the PA for the last 3 years.
- 3. Copy of the PA's notification issued under sections 18 and/or 35(1) of the Wildlife (Protection) Act, 1972.
- Copy each of any material published/ photocopied/ cyclostyled or typed, on the management or biological aspects of the PA.
- 5. Copy of the report of any study done on the PA.
- 6. Copy of future plans, management plans or work proposals.
- 7. Copy of future budget proposals.
- 8. Copy of schemes/ cost schedules and other related documents relating to relocating human populations.
- 9. Checklists of flora and fauna found in the PA.
- 10. Results/ reports of the flora/fauna census of the PA.
- 11. Names of all towns/ villages located within and adjacent (10 km radius) to the PA.
- 12. Copy of rates payable for death/injury of humans/cattle and for crop damage.

- 13. Maps of PA¹ giving latitude, longitude and scale. Essentially, the maps should have the following information, along with appropriate and distinct codes:
 - i Boundary of the PA, also specifying area actually acquired, under acquisition and/or subsequently excluded, separately. Please also mark along the boundary, the type of adjoining habitat (eg. reserved forest, private agricultural land etc.)
 - ii Boundaries of the core, buffer and other zones (eg. tourism zone, multiple use zone etc.), if any
 - iii Boundaries of the ranges.
 - iv Roads, including highways and other *kucha* and *pucca* roads.
 - Railway lines, indicating gauge and the stations between which they run.
 - vi Water sources: mark rivers, lakes, tanks, reservoirs, canals, glaciers, springs, pipelines and all other significant water sources specifying whether they are perennial or non-perennial.
 - vii All buildings including offices, resthouses, and residential quarters.
 - viii Manned and unmanned checkposts/entry points.
 - ix Watch towers and animal enclosures.
 - x Artificial physical protective structures (fences, trenches, walls etc.) along the PA boundary.
 - xi Villages and towns within and adjoining the PA(10 km radius from the boundary).
 - xii Commercial, social forestry/ other fuel/fodder plantations.
 - xiii Areas from where fuel/fodder/timber/NTFP are collected.
 - xiv Fire lines/ areas affected by fires/floods/droughts etc.
 - xv Areas that are proposed to be added to the PA.
 - xvi Forest types according to the revised classification of Champion and Seth, using different patterns for each forest type.
 - xvii Location of sacred sites/ groves.
 - Xviii natural corridors.

- xix Location of activities like mining, quarrying, NTFP extraction, etc. by individuals and non-government agencies and activities like military establishments, hydel power and irrigation projects etc. by government agencies.
- xx Recreation/Picnic areas.
- xxi Salt licks used by fauna.
- xxii Location of information/interpretation centre for visitors.
- xxiii Past and present location of relocated villages.
- xxiv Highest and lowest points of the PA.
- xxv Illegal encroachments.
- xxvi Corridors for power transmission lines
- xxv i Any other important features.
- 14. Any other material that you might consider useful or that might provide required data or information.

LIST OF ABBREVIATIONS

BZ =	Buffer Zone
Cm =	Centimetre
CZ =	Core Zone
Km/km=	Kilometre

Msl./msl = Metres above Sea Level

N.A. = Not Applicable PA = Protected Area

Rs. = Rupees

sq. km. = Square Kilometre
TZ = Tourism Zone

If necessary, please prepare two or more maps, each containing some of this information. However, the maps must all be of the same scale.

Full name of the PA (Please ensure that the name			
Earlier name(s) of the PA, if any			
Full address (including pin code)			
		State/Union Territory	
Name, designation and full address of the person			
Telephone no (including STD code)		Residential no'	
Date of receipt of questionnaire	Date of despa	tch of questionnaire	
		Signature of PA in-charge	
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te of receipt of questionnaire		PA code	
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		Signature of coder	

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1. Biological Profile

1.1 Habitat types and extent

1.1.1. Please give the area (in sq. km.) or length (in km) occupied by the following types of habitat/geographical features in the PA:

Types of Habitat/ Geographical Features	Area (sq. km.)/ Length (Km)
Forests (area)	
Wetlands (area)	
Perennial rivers/ streams (length)	1797 E 1877
Coasts (length)	
Islands (area)	
Ocean (area)	
Rangelands (grasslands) (area)	
Mountains (area)	

Types of Habitat/ Geographical Features	Area (sq. km.)/ Length (Km)
Deserts (area)	
Glaciers and other permanently snowbound areas (area)	
Others (please specify)	
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1.1.2. Please give estimated area (sq km) of different forest types in the PA according to the revised classification of Champion and Seth:

Forest type/sub type	Range/ location in PA	Area (sq km)
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Forest type/sub type	Range/ location in PA	Area (sq km)
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1.2 Forest Status

1.2.1 For the forests contained within the PA, please give the following information for each range.

Name of the range	Area of range (sq.	% of forest cover in the range which is 1			nich is ¹	Causes of disturbance ² (List all the causes)	Current status of disturbance	
	km.)	A. Un- disturbed	B. Slightly disturbed	C. Heavily disturbed	D. Plantations		20. (10.05) (20.05)	
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¹ The categories A, B, C, and D are defined as follows:-

A. Those forest ranges which are undisturbed as they have not been subjected to any forestry operations and human pressures including non-forestry land use like mining and quarrying, habitation, or some other developmental activities, biotic pressures like grazing, NTFP collection etc., and habitat related factors like forest fires or floods and retain their natural species composition.

B. Those forest ranges which are subject to some disturbance and show a slight change in their natural species composition

C. Those forest ranges which are heavily disturbed and where there is a significant alteration of the natural species composition.

D. Those forest ranges which have either been clear felled and planted, or where the predominant vegetation cover is planted.

² Kindly enter the appropriate abbreviations: FL= Floods; DR= Drought; LS = Landslide; CY= Cyclone; ER= Erosion; TW= Tidal Wave; DAM= Dams; DEV= Development projects; FIR= Fire (Burning); GRA= Grazing; HAB= Habitation; MIN= Mines/quarries; NTF= NTFP collection; CUL= Cultivation; FEL = Tree felling; TOU= Tourism; PIL= pilgramages; OTH= Others (please specify). Note: Additional pages may be attached if required.

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1.3.1. Are there plantations³ in the PA? Yes ____No ____. If yes, then please give the following information separately for each species:

Name of species planted (Scientific and common Name)	Is it exotic or indigenous to the PA?	Names of the ranges it has been planted in	Area of plantation (sq km)	Year in which first planted?	Purpose of plantation
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[Please mark plantations in the PA map. Indicate whether they are in core/buffer/other zone, where relevant]

1.4. Corridors

- 1.4.1. Does a corridor of forest or other natural ecosystem connect your PA with other PAs? Yes_____ No____
- 1.4.2. If yes, then: Please list the names of the PAs so connected ______
- 1.4.3 Please give information regarding the nature of the corridor (eg. Forest, wetland etc)
- 1.4.4 Please give the length of the corridor(s) (km) [Please also mark this corridor on a map]

³ Plantations refer to areas planted with non-native species (exotic to the NP/S), as well as areas planted with indigenous species in monoculture or non-natural formations.

1.5. Species (Fauna)

- 1.5.1 Kindly attach a full list of FAUNAL species (including invertebrates) found in the PA.
- 1.5.2. Please give information requested below for faunal species listed in schedule! of the Wildlife (Protection) Act, 1972.

List the Schedule I FAUNAL species found in the PA (Scientific and Common Name)	Status ⁴	(please	Distribution √one of the co	olumns)	Source of Information (e.g.	Ranges/Locations in the PA where the species occurs
		Confined to small area	Fairly well distributed	Widely distributed	census, research, personal estimate)	
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⁴ STATUS: A = Abundant; C = Common; O = Occasional; R = Rare; S = Seasonal.

1.5.3. Give details of any perceived overpopulation of FAUNA in the PA (including typical wildlife and forest pest organisms):

Name (common and scientific) of species	Probable cause of overpopulation	Management initiatives taken, if any, to control the overpopulation, and with what success
		*
	16 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	

1.5.4. Please give details of any locally threatened species of FAUNA (i.e. Schedule I or other species whose population has declined in the PA):

Name (common and scientific) of species	Estimated past peak population	Current population estimates	Probable causes for the decline in population	Management initiatives, if any, taken to protect/ regenerate population and their results
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1.5.5. Please indicate any FAUNAL species of special interest found in the PA and explain its significance.

Name (common and scientific) of species	Significance ⁵	Current Status (Stable/declining/ Increasing/unknown)	Names of forest ranges where it occurs	Source of information (e.g. survey, research, personal estimate, etc.)

1.5.6. Have any species of FAUNA been deliberately introduced⁶ into the PA? If yes, then please give the following information.

Name (common and scientific) of species	Year of introduction	Reason for Introduction	Current Status (Stable/declining/ Increasing/unknown)	Names of forest ranges in which this species was introduced

SIGNIFICANCE: (1) Found only in this PA. (2) Wild relative of domesticated species (3) Source of medicine (4) Other commercial value (5) Cultural importance (6) Hunted as game or for trophy (7) Others (please specify)
 This term refers to the introduction of species that are not known to naturally occur in the PA.

Name (common and scientific) of the species	Years in which bred	Numbers bred	Source of breeding stock (zoo, wild, etc.)	Reasons for breeding	Numbers released in the wild	Years of release	Location of release (indicat whether in PA)
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5.9 Please describe the	otopo takon	if any to a	nouro that inbrood	ding does not occur	_1		

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1.6 Species (Flora)

1.6.1 Kindly attach a full list of FLORAL species found in the PA.
1.6.2. Please complete the table below in regard to the occurrence of FLORAL species listed in Schedule I of the Wildlife (Protection) Act, 1972.

List the Schedule I FLORAL species found in the PA (Scientific and Common Name)	Status	(please	Distribution (√) one of the c	olumns)	Source of information (e.g. census, research, personal estimate)	Ranges/Locations in the PA where the species occurs
		Confined to small area	Fairly well distributed	Widely distributed	personal estimate)	
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⁷ STATUS: A = Abundant; C = Common; O = Occasional; R = Rare; S = Seasonal.

scientific) of species	Significance ⁸	Current Status (Stable/declining/ Increasing/unknown)	plain its significance. Names of forest ranges wher occurs	re it Source of information (e.g. survey, research, person estimate, etc.)
4. Have any species of flora the following information.		ed plants been deliberately introd	luced ⁹ into the PA? YES	NO If yes, then please of Names of forest ranges in which
pecies	introduction	Troubout for mid-ouddeding	(Stable/declining/ Increasing/unknown)	this species was introduced

⁸ SIGNIFICANCE: (1) Found only in this PA. (2) Wild relative of cultivated plant (3) Medicinal value (4) Other commercial value (5) Cultural importance (6) Others (please specify)

⁹ This term refers to the introduction of species which are not known to naturally occur in the PA.

1.6.6. Please give details of any locally threatened species of FLORA (i.e. Schedule I or other species whose occurrence has declined in the PA):

Name (common and scientific) of species	Ranges/ locations of occurrence	Magnitude of decline (area or nos)	Probable causes for the decline in occurrence	Management initiatives, if any, taken to protect/ regenerate population and their results
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1.6.7. Please give details of the spread of any FLORAL species (apart from weeds) in a quantum greater than considered healthy for the PA ecosystem

Name (common and scientific) of species	Probable cause of increase/ spread	Management initiatives taken, if any, to control the spread, and with what success	Names of ranges where such a spread has taken place
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	Talasta Villa III Villa		

1.6.8. Is there an infestation of weeds (aggressive or invasive exotics) in the PA? Yes___No___If yes, please give the following information:

Name (Scientific & Common / Local Name) of the weed	Area (sq km) of PA affected	Names of forest ranges affected	Year of first occurrence	Impact of weed on PA	Management initiatives taken, if any, to control/ eradicate weed and outcome
					
	10.2				

- 1.6.9. If infestation of weeds is NOT A PROBLEM NOW, but was in the past, please give the following information:
 [Please mark in a map, areas of the PA which are/were infested by weeds showing whether they are in core/buffer/other zone, where relevant]
- 1.6.10. Is there any ex-situ cultivation of plants from the PA?

Name (Scientific & Common/Local Name) of the species	Significance of the plant	Cultivated since when	Purpose of cultivation	Where is it cultivated (within the PA or outside)
		95		
		- - 2 700 20		
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1.7 impact of pressures on biodiversity of the PA

1.7.1 Impact of events/ human activities/ projects on THE HABITAT OF THE PA.

Events/ activities/ projects ¹⁰	Year(s) of occurrence	Area affected (Sq.km.)	Affected ranges/ locations in the PA	Type of habitat affected (eg. forest, grassland, wetland,	Impact ¹¹

¹⁰ EVENTS/ACTIVITIES/PROJECTS: Kindly enter the appropriate abbreviations-FL= Floods; DR= Drought; LS = Landslide; CY= Cyclone; ER= Erosion; TW= Tidal Wave; DAM= Dams; DEV= Development projects; FIR= Fire (Burning); GRA= Grazing; HAB= Habitation; MIN= Mines/quarries; NTF= NTFP collection; CUL= Cultivation; FEL = Tree felling; TOU= Tourism; PIL= pilgrimage; OTH= Others (please specify).

¹¹ IMPACTS: Kindly enter the appropriate number- FOR FLORA:(1) Extinction (2) Population decline (3) Disease (4) Degradation (5) Poor regeneration (6) Changes in habitat/ vegetation/forest types (7)Proliferation of hardy species/weeds (8) Others (please specify). Note: Please photocopy this page and attach additional pages if more species are affected.

1.7.2 Impact of events/ human activities/ projects on FAUNA (including invertebrates)

Events/ activities/ projects 12	Year(s) of	Area	Affected ranges/ locations in the PA	Faunal specie	s affected	Approx.	Impact ¹³
	occurr- ence	affected (Sq.km.)	locations in the PA	Common/ Local Name	Scientific Name	Approx. Number affected	pact
						 	
App. 1984							· · · · · · · · · · · · · · · · · · ·
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¹² EVENTS/ACTIVITIES/PROJECTS: Kindly enter the appropriate abbreviations-FL= Floods; DR= Drought; LS = Landslide; CY= Cyclone; ER= Erosion; TW= Tidal Wave; DAM= Dams; DEV= Development projects; FIR= Fire (Burning); GRA= Grazing; HAB= Habitation; MIN= Mines/quarries; NTF= NTFP collection; CUL= Cultivation; FEL = Tree felling; TOU= Tourism; PIL= pilgrimage; OTH= Others (please specify).

13 IMPACTS: Kindly enter the appropriate number- FOR FAUNA:(1) Extinction (2) Population decline (3) Disease (4) Migration away from the site (5) Loss of breeding site (6) Loss of food source (7) Loss of water source (8) Mainutrition (9)Increased threat from predators/ hunters; Note Please photocopy this page

and attach additional pages if more species are affected.

1.7.3 Impact of events/ human activities/ projects on FLORA

Impact ¹⁵	ies affected	Floral Spec	Area Affected ranges/ affected locations in the PA			Events/ activities/	
	Scientific Name	Common/ Local Name	locations in the PA	affected (Sq.km.)	when (years)	Events/ activities/ projects ¹⁴	
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EVENTS/ACTIVITIES/PROJECTS: Kindly enter the appropriate abbreviations-FL= Floods; DR= Drought; LS = Landslide; CY= Cyclone; ER= Erosion; TW= Tidal Wave; DAM= Dams; DEV= Development projects; FIR= Fire (Burning); GRA= Grazing; HAB= Habitation; MIN= Mines/quarries; NTF= NTFP collection; CUL= Cultivation; FEL = Tree felling; TOU= Tourism; PIL= pilgrimage; OTH= Others (please specify).

¹⁵ IMPACTS: Kindly enter the appropriate number- FOR FLORA:(1) Extinction (2) Population decline (3) Disease (4) Degradation (5) Poor regeneration (6) Changes in habitat/ vegetation/forest types (7)Proliferation of hardy species/weeds (8) Others (please specify). Note: Please photocopy this page and attach additional pages if more species are affected.

_	No of fires	Area affected (sq km)		affected Caus	es of fires	Describe impact on PA
				G Processor	2007	
_					200	
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ise	mark areas of th	e PA on a map	, where forest fires	occur showing whether	they are in core/buffe	r/other zone, where relevant]
. 1	Diana dagariba	the stope take	on to prevent/ cont	ral fires specifying the le	enath fire lines and the	e type of equipment used to fight fire:
,	Please describe	the steps take	en to prevenir cont	ror <u>ines</u> specifying the it	angui me mies and the	type of equipment asea to light life.
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ŝ.	Please give det	ails regarding	abnormal or unnat	ural <u>flooding¹⁶,</u> if any, in	the PA in the last five	years:
			() ff () l	Causes of floods	Describe imp	act on PA, indicating estimated loss of wildlife and
		The rest of the section of the section of the section of	nde(s) affected	Causes of floods	Describe imp	
ar	Area affected	Name of rar	.90(0/			specifying species and numbers
	(sq km)	Name of rar			TO COLUMN TWO TAXABLE VICTOR OF THE VICTOR OF TH	specifying species and numbers
	Countries and Assess controlled in consideration to be and	Name of rar	.50(0) 2.70			specifying species and numbers
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	Countries and Assess controlled in consideration to be and	Name of rar				specifying species and numbers
ar 	Countries and Assess controlled in consideration to be and	Name of rar				specifying species and numbers
	(sq km)			flooding occurs showing	whether they are in c	
	(sq km)			looding occurs showing	whether they are in c	specifying species and numbers ore/buffer/other zone, where relevant]
ase	(sq km)	ne PA on a map	o, where abnormal f		whether they are in c	
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- - - ase	(sq km)	ne PA on a map	o, where abnormal f		whether they are in c	
- - - ase	(sq km)	ne PA on a map	o, where abnormal f		whether they are in c	

¹⁶ This refers to unnatural/ human caused flooding and not natural inundation.

1.7.9. Please give details of <u>droughts¹⁷</u> (abnormal water shortages), if any, that have occurred in the PA in the past five years:

Year	Drought months	Area affected (sq km)	Name of range(s) affected	Causes of droughts	Describe impact on PA, indicating estimated loss of wildlife and specifying species and numbers
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19					
1.7.10	Please describe th	ne steps taken to	o control or prevent droug	ghts:	
1.7.11.	Is the PA located i	n a drought pro	ne region? Yes No		
1.7.12	Is there any syster	m of monitoring	water and air <u>pollution le</u>	vels within the PA? Yes	No
1 7 13	If yes, what are the	ese?			

1.7.14 Please give details of current problems of water and air pollution in the PA:

Years	Nature of pollution/ pollutant	Source of pollution	Area affected (sq km)	Name of range(s) affected	Impact on the PA	Action taken, if any, to prevent control pollution
19					a spice many with the last of the	
19			1			
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[Please mark areas of the PA on a map, which are polluted showing whether they are in core/buffer/other zone, where relevant]

¹⁷ This refers to unnatural/ human caused shortage of water and not natural droughts.

1.7.15 Please give details of unnatural/ human caused water logging/ drainage problems in the PA:

Year(s)	Nature of problem	Area affected (sq km)	Name of range(s) affected	Impact on the PA	Action taken, if any, to prevent/ contro the problem
_					

[Please mark areas of the PA on a map, which are water logged showing whether they are in core/buffer/other zone, where relevant]

1.7.16 Please give details of any other <u>recurring problems due to natural reasons</u> (eg. cloudbursts, avalanches, landslides etc.) in the PA you are responding about:

Years	Nature of problem	Area affected (sq km)	Periodicity of the problem	Name of range(s) affected	Impact on the PA	Action taken, if any, to prevent/ control pollution
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					PASSAGE SERVICES	
	W 4210-1111-1					

[Please mark areas of the PA on a map, which have recurring problems due to natural reasons showing whether they are in core/buffer/other zone]

1.7.17. Is there any tree felling/ extraction in the PA now or in the past (since it became a PA) Yes___No___? if yes, then please give the following information:

Name of species felled/ extracted	Area of PA affected (sq km)	Name of range(s) affected	Years when felling/ extraction took place	Purpose of felling/ extraction (eg. commercial timber, pulp wood, fuel wood, etc.)	Which agency is/ was involved in felling/ extraction?
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[Please mark areas of the PA on a map, where tree felling is done showing whether they are in core/buffer/other zone]

1.7.18. Have any diseases of flora affected the PA in the last ten years? Yes___No___. If yes, please give the following:

Name of disease	Area affected (sq km)	Name of range(s) affected	Name of species affected	Describe efforts to prevent/ control disease
		F		
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W		n november version		
3,117				The second secon
	Name of disease	Name of disease Area affected (sq km)		

Year	Name of disease	Name of species affected	% of population affected	Possible cause of disease	Describe efforts to prevent/ contro disease
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		d in the surrounding areas va		A: Never Sometimes	Regularly
rcentage	of livestock vaccinated: \	Nithin PA Sur	rounding Villages _		
7.21 W hei	re highways/public roads	pass through the PA, do you	check whether the	e livestock passing through ha	ave been vaccinated?
Samuel San		casionally	K 1		

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2.	Geograpical	Profile

2.1.	Area of PA	(sq. km); District(s) within which	the PA fa	lls			
	Latitude of PA from	m to)	_Longitud	de from	to		
	Nearest town		Distance	km	Nearest Railhead		Distance	km
	Nearest Airport		Distance		km			
2.2.	Please indicate th	e best approach to the	PA from neares	t town/ ai	rport and railhead, indicat	ing distances and	l modes of transpo	rt -
2.3.To	pographical details	Highest point: Name _	н	leight	msl; Lowest point; N	lame	Height	msl
2.4 W	ater resources: Ple	ase give the following o	letails					
	ТУРЕ	NUMBERS			TYPE	NUM	BERS	
		DEDENNIAL CEACON	AI "			DEDENIMAL	SEACONAL	

TYPE	NUME	BERS
<u></u>	PERENNIAL	SEASONAL
Artificial tanks/ holes		
Natural tanks/ holes		
Reservoirs		
Natural lakes		
Rivers/ streams		
Springs		
Glaciers		

TYPE	NUMBERS								
1155	PERENNIAL	SEASONAL							
Wells/ pumps									
Others (pl. specify)									
									

2.5 Please indicate what, if any, are the periods of water scarcity in the PA______

2.6 Please give details about the weather conditions in the PA:

MONTH	MAX TEMP °c	MIN	RAINFALL (mm)	HAILS	TORMS	HOT	WINDS	GALES/ C	CYCLONES	FROST		
		TEMP ° c		occurrence	area affected (ha)	occurrence	area affected (ha)	occurrence	area affected (ha)	occurrence	area affected (ha)	
JAN				8 8								
FEB												
MAR	· ·						112					
APR			Topic State					5 Marie 1 - 10 Marie 17 - 1				
JUN										- 34 - 111 Marie	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
JUL				320 3332 27		Cont. (Cit.)						
AUG						Appropriate Control of the Control o						
SEP			-									
OCT												
NOV		3		æ								
DEC	- 			8	, , , , , ,							
ANN- UAL			100									

ise list the survey of th	dia (1:50,000 or larger) toposhee	Telefelice flutilibers for the direct	
NUMBER	SCALE		
	0 55 J 3106e5		

SOCIO - ECONOMIC PROFILE 3.

3.1 Habitation

3.1.1 Are there any people living inside the PA? Yes _____ No _____. If yes, please fill the following table:

Name of Village ¹⁸ and year of establishment in the PA.		Type Viliag	of 19	Total	Total Population 20			То	tal Nur t	nber o he vill	f Lives age ²¹	stock in	Major Occupation of the Villagers (agriculture,	Name of forest range/block where village is
	F	R	ОТ	Total	sc	ST	(sq.km)	С	В	s	G	от	pastoralism, wage labour etc.)	located
								1.00						
The state of the s														7 2/2 3/4
							and the second s							
					b		anceste steeling							- 3 . · · · · · · · · · · · · · · · · · ·
							7000				<u> </u>			215
1000000					(1000)		200							
							None i				1			

(Please	ease attach a separate sheet if there are more villages.)	
3.1.2	.2 Please indicate the number of villages adjacent (10 km radius) to the PA and their population:	Villages
with	population, of which are tribals and belo	ong to the scheduled castes.

Each cluster of households (hamlets, cattle camps, etc.) can be reported as a village even if technically they are not distinct villages.

F = Forest, R = Revenue, OT = Others (Please Specify)

ST = Schedule Tribes, SC = Schedule Castes

C = Cows, B = Buffaloes, G = Goats, S = Sheep, OT = Others (Please Specify)

3.2 Relocation

3.2.1. Please fill up the following table for villages that have already been relocated, if any:

Number of families relocated 22 Total SC ST			Year of relocation	Name of relocated site and distance from the original site (km)	Name of range from where the village has been relocated	Total cost of Relocation for the village (Rs.)
				Site (Kiii)	relocateu	3.0.2.0
		ļ				
			F108 - 35 - 28			
		ļ				
		l December				· · · · · · · · · · · · · · · · · · ·
			700			
	<u> </u>	<u> </u>				
	<u> </u>	ļ				
	<u> </u>					
	-					
	1000					
	Total	Total SC	Total SC ST	Total SC ST	Total SC ST	Total SC ST

Material to be provided along with the table:

Map showing present and past location of the villages that have been relocated.
Copy of the relocation plan giving details of the cost of relocation.

²² ST = Schedule Tribes, SC= Schedule Castes

3.2.2 Please give details, in the table below, of the relocation package used,:

Name of village	Land (acres)	Land (acres)	Total cash compensati-	House building material given (please √)	Prov	ision for pleas)	access to e √)	Other benefits, if any (please describe)	
Đ	given in lieu of land	given to the landless	on given per village (Rs)		Common resources	Fuel wood	Fodder	Other NTFP	
		196	24 (24) 24(24) (24)	2002					
							15° 1 <u>12</u> 24 <u>27</u>		
							120 ac 600		
	* **							Vanco (mar part)	
. Was there any NG	O involved in r					olease g	ive its (th	eir) nai	me(s) and address(es).
Was relocation fund	ded from any		te scheme. If			nd deta	ils of the	scheme	e(s)
			<u> </u>						
					12002	2/2	36 n = 8	oga ne	lose a copy of the propo

3.3 Grazing

3.3.1 Is there any grazing in your PA? Yes _____ No ____. If yes, please fill in the table below.

Type of animals grazing	Area (in sq.km) of the PA grazed.	Months when grazing takes place in the PA.	Number of animals grazing legally (annually)	Number of animals grazing illegally (annually)	Has the number of animals grazing come down or increased in the last five years (give numbers)	Name of ranges when		Habitat Type (for example mention whether area is a forest, wetland, grassland etc.)
All types (Total)						2 Alberto		
Cows								
Buffaloes							<u>, , , , , , , , , , , , , , , , , , , </u>	
Goats								
Sheep							***	
Camels								
Others (pl specify)								
					10			
					25 MAR. 27 (2007)			
							76	
3.3.3 If y	es, how lo	ng have they	been grazin	g their cattle		No(Mention the		=
						aloesSheep		(specify)
3.3.6 Wh	nere do the	ey come from	?	***		Where do they go?		*
						ast 5 years?		
		lecrease)				9200		<u> </u>

3.4 Fishing, Collection of Large Timber, NTFP, and Other Animals or their Parts

3.4.1 In case there is CURRENTLY any collection of timber and NTFP from the PA (legally or illegally), please fill in the table below:

Name of spec	ies collected	leaf, flesh, etc.)	Used as what (eg. fodder, fuel, food, medicine etc.)	Months when collected	Quantum collected (specify units)		collect or me releva	tor (ore, a int)	Tick s	Do locals, or outsiders, or both collect the	Habitat type from which produce is collected (e.g. forests, wetlands
Scientific name	Local / Common name					In the hous- ehold	A	Sold ²	C	collect the produce.	etc)
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		\$15	:								- 14.
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	<u> </u>							<u> </u>			
, , , , , , , , , , , , , , , , , , ,					# 1			<u> </u>			
											100 (200 - 2

(Please attach maps with location of areas from which timber, NTFP, Fuelwood and Fodder are collected. Please mark these areas out separately in different colours in each case)

²³ A = Sale in local market, B = Sale to trader or contractor, C = Sale to towns or cities.

3.5 Religious and Cultural Use of PA

3.6 Impact of PA on Local People

3.6.1 Please give information about death/ injury to human beings by wild animals, separate entry for each incident, over the last five years:

Year and month	Species of animal involved	No. Of people attacked	Attack t	ook place (√)	Resulted in (indicate numbers)		Amount (in Rs) of compensation paid per head	
			Inside PA	Adjacent to PA	Death to	Injury to	For death	For injury
19								
19								
19								7
19								
19								

(Please attach copy of schedules specifying the rates of compensation payable).

3.6.2 Please give information about death/ injury to livestock by wild animals, separate entry for each incident, over the last five years:

Year and month	Species of the attacking animal	Species of livestock attacked	No. of livestock attacked	Attack took place (√)		Resulted in (indicate numbers)		Amount (in Rs) of compensation paid per head	
- 198-14 Milliones				Inside PA	Adjacent to PA	Death to	Injury to	For death	For injury
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19									-200 - 90450
19							100 No.	123.	
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3.6.3 For the extent of crop damage in the last three years, please fill up the following table, separate entry for each incident:

Year and month	Year and Animal species month causing damage		Type of crops affected		Area of crops damaged (ha.)		l losses (in ls)	Compensation paid (in Rs.) in each case	
		Inside PA	Adjoining PA	Inside PA	Adjoining PA	Inside PA	Adjoining PA	Inside PA	Adjoining PA
19					***				
19				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
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(Please attach a copy of the schedule of compensation payable)

3.6.4 Describe the process by which the value of the damaged crop is estimated.

3.6.5 Please give details of any conflicts, confrontations, violent clashes, representations or protests that may have taken place between the local people and the park authorities inside or adjacent to the PA in the last five years. Please list each incident separately.

Year and month	Reason for clash, confrontation, or representation etc.	Parties clashing/ representing (give names of villages, groups etc.)	Was there violence?	Subsequent action taken by the authorities	Subsequent action taken by the people.
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19			AV.		
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3.6.6 Please fill the following table on the nature of resource use and existence of rights currently prevalent inside the PA:

What use are communities making of the PA and/ or its resources (please list each use separately)?	Is this use a recorded or customary right, lease or license, illegal or otherwise permitted? (pl specify)	For how long has this use been prevalent (give exact years, if known)?	How much area is affected by this use (ha)?	Which communities (name villages or groups) are using/ involved in this?	What is the ecological impact, if any, of this use?
			-		
	 				
				7	

3.6.7 Please list any resource use activities, or activities degrading the PA, that were prevalent in the past but have now been stopped.

Activity/ resource extracted	Year of start	Year of stopping	Who was using/ degrading the resources/PA?	How was it stopped?	What ecological impact did it have on PA?
-	180.000			2	·

ame of alternative activity/ resource provided	Nature of activity/ resource it replaces	Managing Agency and Scheme under which alternatives provided	Number of households participating.	Annual allocation (Rs)		been the level of success of thes in diverting pressure from the PA
			 			
····					,	
ist (each separately) the ac	tivities carried out	roduced in the PA or its No. of families covered by this activity.	What pressures	on the PA are	sought to	please fill the following table How successful has this action been in reducing such foress.
	tivities carried out			on the PA are	sought to	
st (each separately) the ac	tivities carried out	No. of families covered	What pressures	on the PA are	sought to	How successful has this acti
ist (each separately) the ac	tivities carried out	No. of families covered	What pressures	on the PA are	sought to	How successful has this acti
ist (each separately) the ac	tivities carried out	No. of families covered	What pressures	on the PA are	sought to	How successful has this acti
ist (each separately) the ac	tivities carried out	No. of families covered	What pressures	on the PA are	sought to	How successful has this acti

4. MANAGEMENT PROFILE

Legal Status and Control

4.1.1 Please fill in the following details about the current legal status of the PA. If two or more parts of the PA have different legal status, please indicate, area wise, the various legal statuses.

Area (sq km)	Legal Status ²⁴	Date of Notification	Notification Number ²⁵	Act under which notified	Remarks
· · · · · · · · · · · · · · · · · · ·			AND THE RESIDENCE OF THE PERSON OF THE PERSO		
	*				
No.					

4.1.2 In case your PA was initially declared prior to 1972, please also fill in the table below with regards to its status prior to 1972. If two or more parts of the PA had different legal status, please indicate, area wise, the various legal statuses.

Area (sq km)	Legal Status (NP, Sanctuary, Game Reserve)	Date of notification	Period of Notification	Notification Number	Act under which Notification Issued
				*	
					24

²⁴ National Park (section 36.4), Intended National Park (35.1), Sanctuary (26A or 66.4), Intended Sanctuary (18.1). Wherever a section is mentioned it refers to the Wild Life (Protection) Act 1972, unless otherwise specified.
²⁵ Where more than one notification is relevant, give the date, number and the area notified for each notification.

4.1.3 Please indicate which of the following legal steps have been taken, under the Wild Life (Protection) Act, for your PA, when and for how much of the area.

Applicable to:	Please indicate whether:		If yes, give date ddmmyy (If more than one date, give all dates, indicating area covered on each date.	Area (sq km)
All national parks (NP) and sanctuaries (S) declared after 2/10/1991	Intention notified (Sections 18(1) or 35(10))	Y/N		
All sanctuaries declared prior to 2/10/91	Sanctuary notified (18(1) of the un- amended WL Protection Act)	Y/N		
'All NP/S	PA limits defined (18(2) or 35(2))	Y/N		
All NP/S	Proclamation issued by collector (21 & 35(3))	Y/N		
All NP/S	Appointment of settlement or other officer to perform the functions of a Collector (26 & 35(3))	Y/N		
All NP/S	Commenceme nt of inquiry (22 & 35(3))	Y/N		

Applicable to:	Please indicate whether:		If yes, give date ddmmyy (if more than one date, give all dates, indicating area covered on each date.	Area (sq km)
All NP/S	Completion of inquiry	Y/N		
All NP/S	Admittance/ rejection of claims (24 & 35(3))	Y/N		
All NP/S	Exclusion of area (24(2a) & 35(3))	Y/N		
All NP/S	Acquisition of the area (24(2b) & 35(3))	Y/N		
Only sanctuaries	Allowing of rights (24(c))	Y/N		
All NP/S	Settlement of appeals (25 & 35(3))	Y/N		

4.1.4.	If the final notification for part or whole of the national park (or of a sanctuary declared after October 2, 1991) has been done as per sections
	26-A and/or 35(3,4) of the Wildlife (Protection) Act, 1972 (as amended in 1991), then please give the following information:

Date of final notification	Notification number	Area notified (sq km)	Area excluded, if any (sq km)
			77.4
wat	A A Section 1		

4.1.5. If there has been any alteration in the boundaries of the PA since it was initially notified, then please fill in the following.

Date of alteration	Area added (sq km)	Area deleted (sq km)	Reason for addition/ deletion	Name of forest range where area added/ deleted
			*	

4.1.6. What was the legal status of the PA area prior to its being notified as a PA under the Wildlife (Protection) Act, 1972 (or some earlier act)? In case the area had more than one type of legal status, please indicate all the categories applicable.

Legal Status	Area (sq km)
Reserve Forests ²⁶	
Protected Forests ²⁶	
Revenue land	

As per the Indian Forest Act, 1927. If they are declared under any other Act, then please put them in others and specify the Act.

THE STATE OF THE S

[Please also mark these areas on a map]

Type of zone		rea as well as legal status of the national park/ sanctuary 27	Outside	e the national park/ sanctuary ²⁸
	Area (sq km)	Legal status (NP/S/INP/IS/ others-pl specify)	Area (sq km)	Legal status(RP/ RF/ others-pi specify)
Core				
Buffer				
Tourist				
Other (pl. Specify)				

To correspond to reserve/protected forest boundaries; To be contained within some natural boundaries	
According to ecological principles(if so, please give details):	
According to administrative convenience (if so, please give details) :	
Others (Please specify) :	
4.2.4. Is there any inter-state or international boundary creating special problems for the PA, for controlling disturbances and illegal act extending management practices across these borders, etc. ? YESNO	ivities,
4.2.5. If yes, please give details:	

NP=national park: S=sanctuary: INP=Intended national park IS=Intended sanctuary

²⁸ RF=Reserved Forest: PF=Protected Forest:

4.3. Management Plans

4.3.1.	What are the specific objectives of the PA, as specified in the management plan or other government orders?
4.3.2	Is there a current management plan for the PA? YesNo
4.3.3	How many previous plans have been made?
4.3.4.	If there is a plan, when was it prepared? DayMonthYear
4.3.5.	Name and designation of person (s) who prepared the plan
4.3.5.1	If non FD individual(s) or organisation(s) was involved in the preparation of the plan, kindly also give their name(s) and address(es):
	Was it approved? YESNO If pending approval, when was it submitted for approval? DayMonthYear
	If approved, when was it approved ? DayMonthYear
4.3.9.	For what period of time is it valid ? FROM TO
4.3.10	If the period of validity has expired, is a new plan being drawn up? YESNO
4.3.11	. If yes, who is preparing the new plan ? (Pl. give name and designation)

4.4 Budgets and expenditure

441	Please give details	s of funds allocated and spent ((both plan and non-plan) for the last three years	
-----	---------------------	----------------------------------	---	--

Year		Plan funds (in Rs)			Non-plan funds (in Rs)	
	Asked for	Aliocated	Spent	Asked for	Allocated	Spent
19						10-300
19						
19						

4.4.2 Please give details of any other funds received in the last three years for/ by the PA:

Year	Other funds received (Rs)	Source	Purpose
9		***	
19			
19			
19			
19		V	
19			

Year	Other funds received (Rs)	Source	Purpose
19			
19			7
19			
19			
19			7
19			

4.5. To	urism	and	regul	ation	of	entry
---------	-------	-----	-------	-------	----	-------

4.5.1.	now many entry points to the PA by venicle?
4.5.2.	Of these, how many are manned?
4.5.3.	How many entry points to the PA by foot?
4.5.4.	Of these, how many are manned ?
4.5.5.	Are permits issued for the entry of visitors into the PA:

38

	By vehicle: YesNoOn foot Yes No
4.5.6.	Who issues these permits?
4.5.7.	At what time of the day/night is entry prohibited?
4.5.8.	At what time of the year is the PA closed to tourists and for
what re	easons?

4.5.9. Indicate whether the PA is open to tourists, and by what mode of transportation:

Mode of transport	Name of range open	% of PA	Mode of transport	Name of range open	% of PA
Private vehicles			Boat		
Govt. Vehicles			Other (please specify		
Tourist operator/ Dept. Vehicles					
On fool					
Animal Back					
4.5.10 Please give t year:	the following details about	visitors to the PA last		ic create any problems for t	
No. of overnight visite	ors (foreign)			Value of Superintendent Control of the Control of t	
No. of overnight visit	tors (Indian)		If yes, please indicate	e the nature and extent of the	ne problem.
No. of day visitors (fo	oreign)				
No. of day visitors (In	ndian)				
How many of the visi	tors are pilgrims?		Doos visitor traffic of	ause any problems for tha	DA2 VES NO
n which months is th	e visitor's traffic at its peak?				
n which months is th	e pilgrim's traffic at its peak	?	viriat is the major to	urist attraction(s) in the PA	
What is the highest n	umber of visitors in one day	?			
Are permits required	for pilgrims Yes No _	_	What are the best m	onths for visiting the PA?	
4.5.11 Is there a put	blic thoroughfare or highwa	y through the PA? YE	SNO; If yes, please	indicate the approximate r	umber of people tha
pass through the PA	each year, apart from the	visitors listed above:_		±	

4.5.12 Please list the amount charged from visitors for:

Item	Charge (Rs)	Remarks
Entry per person (foreign)	·	
Entry per person (Indian)		
Student		
Per car		
Per bus		

ltem	Charge (Rs)	Remarks
Movie/video camera		ALCE VECES, EDG.
Still camera		1 1
Others (pl specify)		
10 10 10 10 10 10 10 10 10 10 10 10 10 1		
1: -11		

1.5.13 Are their	any plans to extend th						
				Markana, and an analysis		***************************************	
	u nw				# :		
.5.14 How man	y visitors, in your opir	ion, can be allow	ved into the PA wi	thout damaging	it: Annually?	On peak days?	
	the adverse impacts						
					Section 19 Section 2010 Section 2010		W
							¥
							
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		in a second			
W					
				·/ · · · · · · · · · · · · · · · · · ·	
				-p	With the second
4.5.17 Please give details of accom-	modation available for offici	als/ visitors in	and around yo	our PA:	
			\$ 7 .5		
			7-2	·	7
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	Is it open to non- officials?	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)		Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks
Name of guest house/ lodge/ hotel etc.	Location (CZ/ BZ/ Inside /Outskirts (give name of place)	No of rooms (indicating AC/ non AC)	Daily charges for rooms (Rs.)	non-	Remarks

Designation	Numbe	r available	Number trained for anti	Types of weapons	Type of vehicles provid
	Regular	Daily wage	poaching work	provided	
			55		
	g factors arising du	e to seasonal c	eauses (eg. rain, snow etc.) which hamper the ope	rations of anti-poaching
5.Are there any special limiting	g factors arising du	e to seasonal c	eauses (eg. rain, snow etc.) which hamper the ope	rations of anti-poaching
5.Are there any special limiting If so, what are these and I	g factors arising due	e to seasonal c	auses (eg. rain, snow etc.) which hamper the ope	rations of anti-poaching p
5.Are there any special limiting of the so, what are these and left of the second left of the second left of the second limiting the second limiti	g factors arising due now are they overce g factors arising due	e to seasonal come?	causes (eg. rain, snow etc.) which hamper the open	rations of anti-poaching properties of anti-poaching prope
5.Are there any special limiting If so, what are these and I	g factors arising due now are they overce g factors arising due	e to seasonal come?	causes (eg. rain, snow etc.) which hamper the open	rations of anti-poaching properties of anti-poaching prope
6.Are there any special limitin operation of these patrols	g factors arising due now are they overce g factors arising due ? If so, what are the	e to seasonal one? e to the terrain/ ese and how a	causes (eg. rain, snow etc.) which hamper the ope	rations of anti-poaching

Are the anti-poaching measures adequate in your PA	A? Yes No If not, what more is required (please be specific)?

4.7.1. Kindly list all the <u>permits</u> issued for <u>hunting</u> or removal of wildlife as per section 29 or 35.6 of the Wildlife (Protection) Act, 1972, in the last five years:

Үеаг	Name and designation of recepient	Period of validity	Name and number of species permitted to be hunted/ removed	Reasons for issuing the permit
19				
19				
19				
19				-
19	*			
19	2			
19			-	TEENTLE I
19				
19				

4.8 Nature of Commercial Activities Inside the PA

4.8.1 Kindly give details of commercial activities inside the PA, currently or in the past (after the PA was declared):

Type of activity (eg mining, industry, commercial extraction etc.)	Years when it took place	Area impacted (sq.km)	Name(s) of forest range(s) impacted	Agency involved	Impact, if any, on the PA?	Efforts made by PA authorities to stop this activity?
4						
	92					
		1.00000				
			1990 To 1990 T			

4.8.2 Kindly give details of developmental activities inside the PA, currently or in the past (after the PA was declared):

(Please mark the location of these activities on a map of your PA).

4.8.2Has the presence of these activities led to ecological degradation in the surrounds of the PA? Yes___ No___

4.8.3 If yes, please describe the impact:______

4.9. Encroachments

4.9.1 Is (or was) there any incidence of encroachment in the PA? YES ___NO ___If yes, then please give the following information:

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4.10. Staffing and staff training

Staffing

4 10 1	Please enc	lose an	organisational	chart of	the F	A
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4.10.2Please give details of staff sanctioned and in position in the PA, by	designation, and indicate whether official housing is available for them
When listing the staff, count each full time person as one. In case staff has	ave responsibilities other than the management and protection of the
PA, please number them as being half, one third etc.: POSITON AS ON _	(GIVE DATE)

Designation	Number of posts sanctioned	Number of posts filled in	Housing available in/around PA
Conservator			
DFO/DCF			
ACF			
Range Officer	2011 St		

Designation	Number of posts sanctioned	Number of posts filled in	Housing available in/around PA
Dy. Ranger/ Forester			
Forest Guard			
Other (pl specify)			92
ородну)			

4.10.3 Are any daily wagers employed in the PA? Yes_____ No____. If yes, then please give the following for the last three years:

Year	Number of persons employed on daily wage	How many of them were from villages inside\adjoining the PA	Months when they were employed	Total person days of employment providied	Specific tasks performed by them
19					
19					
19					

4.10.4. Please give name and designation of the local in-charge of the PA (the senior-most officer stationed at or just outside the PA)	

charge stationed?			
ctor stationed?			
have other respons	sibilities apart from this PA? YES	NO	
?			
narian hospital in or time <u>research staff</u>	raround the PA? YESNO; I	f so, how far is it from the PA bound	
Qualification	Department/institution	Topic of research	Years spent in PA
ion/ number of pers	sonnel undertaking educational/ exter	nsion work in the PA or in the surrou	ınds:
Numbers	Nature of activities	Geographica	area of work
	tor stationed? have other response. ned to the PA? Year arian hospital in ordine research staff eir particulars: Qualification	tor stationed? have other responsibilities apart from this PA? YES? ned to the PA? Yes No; If so, what is his/harian hospital in or around the PA? YES NO; If time research staff_ working in the PA? YES NO eir particulars: Qualification	Qualification Department/institution Topic of research on/ number of personnel undertaking educational/ extension work in the PA or in the surrou

4.10.14 Please give details of PA staff facilities available in and around the PA:

Institution	Distance from PA (km)	Adequacy of service
Dispensary	•	
Hospital		h++
Post Office		
Bank		
Market		

High School	
Middle School	
College	
Others (pl. specify)	

Training

4.10.15 Please indicate wildlife training, if any, received, or being received, by the different categories of staff currently in position.

Name & designation of officer/ staff	Nature of training	Duration of training	Name of institution where training received/ being received	Year when training was done
		2000		
			44-7	
-			· · · · · · · · · · · · · · · · · · ·	

4.11. Equipment and literature

4.11.1. Please list below the type and quantum of <u>equipment</u> available to help in the management of the PA. Please give here a list of equipment which is owned by the PA management and kept in the PA headquarters, <u>not</u> in the divisional or state offices

Type of equipment	Numbers available	Nos. currently working
Wireless sets (fixed)		
Wireless sets (mobile, vehicle		
Wireless sets (hand held)		
Rifles/guns		*
Binoculars/telescopes		******
Radio tracking equipment	2	
Darting equipment		
Infra-red viewers/nightscopes		
Tents		
Telephone		
Computer		September and september and
Slide projector		
TV		
VCR		
Film Projector		
Electric generator		
Spotlights		
Cycles		
Boats		

Type of equipment	Numbers available	Nos. currently working
Vehicles (Please specify type)		· · · · · · · · · · · · · · · · · · ·
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Other (Please specify):		······································
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4.11.2 Does the PA have the following?

Item	Available	Available for (please √)							Description and remarks
		Rent	Sale	Free use	Free distribution	Visit	Reference	Screening / viewing	
Maps of PA	YES/NO								
Booklet on PA	YES/NO								
Zoo/animal enclosures	YES/NO								
Hides/towers for viewing	YES/NO		J		***				100 M A A A A A A A A A A A A A A A A A A
Slides on wildlife	YES/NO								
Films on wildlife	YES/NO								
books on wildlife	YES/NO						-,		
Checklists (birds)	YES/NO				* 10-30-200-				
Checklists(other animals)	YES/NO								
Checklists (plants)	YES/NO	33000 000							
Binoculars for visitors	YES/NO		· · · · · · · · · · · · · · ·						
Vehicles for tourists	YES/NO								
Others (specify)	YES/NO						tion of the season		
	YES/NO				i				
	YES/NO						W 202		
	YES/NO	1000			102 102 100				
	YES/NO		- Y-110					V	
and the second state of the second	YES/NO								CE CONTRACTOR OF THE CONTRACTO

4.12. Research and Monitoring

4.12.1. Please give details of any ongoing research in \ on the PA.

Name of expert and specialisation	Institution to which expert is affiliated	Period of research/ association (give dates)	Nature and topic of research

4.12.2. Please give details of past research in / on the PA.

Name and institution of researcher	Year in which research completed	Nature and topic of research	Whether research findings were published? If so, please give title and publisher	Are copies of report available with the PA?	What is the assessment of the PA authorities regarding the relevance and quality of the research
		<u> </u>			
	100 Marie 100 Ma			1	

Type of activity (eg. census,	ollowing details : Frequency (eg.	Methodology (eg. Pugmark, counts etc.)	PA area	Species/ ecosystems covered
preservation plots, etc.)	yearly/ monthly)		covered (%)	
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4.13. Interpr	etation, Education			
4.13. Interpr	etation, Education			
4.13. Interpr .13.1. Are there any progr	retation, Education rammes to educate villa	and Extension	eral villages? YES	NO
4.13. Interpr .13.1. Are there any progr	retation, Education rammes to educate villa	and Extension agers residing within the PA or in the periph	eral villages? YES	NO
4.13. Interpro13.1. Are there any program13.2. If yes, please give of	retation, Education rammes to educate villa	and Extension agers residing within the PA or in the periph gramme, and its frequency	eral villages? YES	NO
4.13. Interpresentation 13.1. Are there any progress. 13.2. If yes, please give of 13.3. Do you have an interpresentation 13.3.	retation, Education rammes to educate villa details on nature of proceedings	and Extension agers residing within the PA or in the periph gramme, and its frequency	eral villages? YES	NO

4.14. People's Participation

4.14.1. Have the local people been involved in managing the PA or in implementing	any scheme/activity? If so, please give details.
4.14.2. Are there any non-governmental organisations/individuals associated ²⁹ with 4.14.3. If yes, please give details about the nature of such association/activity, and	o and described the passes of the state of t
4.14.4 Describe instances, if any, of community involvement in the protection an	d/or management of the PA:

Notes:

²⁹ Association here does not refer to only formal association, but also informal association.

5. **MANAGEMENT ISSUES AND STRATEGIES**

5.1. Please give below details of offences detected in the PA in the past three years:

Offence (sections of WLPA in brackets)	No of cases filed in			Of these, how many accused were		% of cases resulting in	Describe the trend for this offence over the last ten years. Is it increasing or decreasing? What are the causes for its increase o	
	19	19	19	G ³⁰	V31	O ³²	convictions	decrease? What proportion of incidents are detected?
Illegal alteration of boundary (26A(3) & 35(5))								
Improper entry (27.1)								
Improper conduct (27.2)					2			
Causing damage to boundary mark (27.3)								
Teasing/molesting of Wild Animals (27.4)								
Destruction, exploitation, etc of wildlife (29 &35.6)							COLOR NECESSARIA	
Causing fire (30)								
Illegal weapons (31)						P3 / L		
Use of explosives/ other banned substances (32)								
Illegal activities (33)							· · · · · · · · · · · · · · · · · · ·	
Grazing livestock without vaccination(33A)								
Non-registration of arms (34.1)								
Illegal granting of new arms licenses (34.3)								
Grazing in national park (35.7)	sessible							
Others (pl. specify)								

³⁰ G=Government Servant ³¹ V=Villagers

5.2. Give details of the incidence of poaching of animals in and around the PA the past three years. Please list each incident separately:

Year	Species killed/ removed	Number killed/ removed	Reason for poaching (eg. meat, fur, bones etc.)	Name of range(s) where incident occurred	Method of poaching
19					
19	****				
19					***** * **** * *
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19				2000	
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19					
19					

5.3.If there are portions of the PA which are not under the control of the Chief Wildlife Warden as per section 33 and 35 of the Wildlife (Protection)

Act, 1972, then please fill in the following. Please also give information on areas which are being used/ have been occupied by government or other agencies apart from the PA authorities.

Area (sq km)	Name of agency using/l controlling the area	Name of forest range(s) affected	Activity/ use being made of the area	Impact, if any, on PA	Describe action taken to get control of area
3					
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[Please also mark these areas on a map]

³² O=Others (please specify)

5.4. Please describe below what, in your opinion, are the most important problems that you face in protecting and managing your PA:
5.6 In your actimation have much of your DA is tatally free from any hymen disturbance 3
5.5 In your estimation how much of your PA is totally free from any human disturbance?ha or%
Thank you for filling in the questionnaire. Please attach the enclosures, as listed on pages i and ii, and mail one copy BY NAME to:
Shekhar Singh
Project Director Indian Institute of Public Administration
indraprastha Estate, New Delhi 110 002

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