

# **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.

1. 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.
2. 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.**
3. 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.**

5. 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.
4. 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 PA<sup>1</sup> 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.
- v 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 checkpoints/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

<sup>1</sup> 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 names and spelling are as officially notified) \_\_\_\_\_

Earlier name(s) of the PA, if any \_\_\_\_\_

Full address (including pin code) \_\_\_\_\_

\_\_\_\_\_ State/Union Territory \_\_\_\_\_

Name, designation and full address of the person in-charge of the PA \_\_\_\_\_

Telephone no (including STD code) \_\_\_\_\_ Fax No: \_\_\_\_\_ Residential no' \_\_\_\_\_

Date of receipt of questionnaire \_\_\_\_\_ Date of despatch of questionnaire \_\_\_\_\_

\_\_\_\_\_  
**Signature of PA in-charge**

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**FOR COMPUTER CODING - PLEASE DO NOT FILL**

Date of receipt of questionnaire \_\_\_\_\_

PA code \_\_\_\_\_

Date of coding \_\_\_\_\_

\_\_\_\_\_  
Signature of coder





# 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)	
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)	

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)

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







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

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

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 <sup>5</sup>	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 introduced<sup>6</sup> 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

<sup>5</sup> 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)

<sup>6</sup> This term refers to the introduction of species that are not known to naturally occur in the PA.

1.5.7 Have any FAUNAL species been accidentally introduced into the PA? YES \_\_\_\_ NO \_\_\_\_ If yes, please indicate which species were introduced, when, and under what circumstances: \_\_\_\_\_

1.5.8. Have any animals been bred in captivity within the PA? Yes \_\_\_\_ No \_\_\_\_ If yes, then please give the following details:

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 (indicate whether in PA)

1.5.9 Please describe the steps taken, if any, to ensure that inbreeding does not occur \_\_\_\_\_

\_\_\_\_\_

**NOTES:**





1.6.3. Please indicate any plant species of particular interest found in the PA and explain its significance.

Name (common and scientific) of species	Significance <sup>8</sup>	Current Status (Stable/declining/Increasing/unknown)	Names of forest ranges where it occurs	Source of information (e.g. survey, research, personal estimate, etc.)

1.6.4. Have any species of flora including cultivated plants been deliberately introduced<sup>9</sup> into the PA? YES \_\_\_ NO \_\_\_ 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

1.6.5 Have any plants been accidentally introduced in the PA? YES \_\_\_ NO \_\_\_ If yes, please give the species of plants, the year of introduction and the circumstances under which they were introduced: \_\_\_\_\_

<sup>8</sup> 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)

<sup>9</sup> 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

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

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

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)







1.7.4. Please give details regarding forest fires, if any, that have occurred in the PA in the last five years:

Year	No of fires	Area affected (sq km)	Name of range(s) affected	Causes of fires	Describe impact on PA
19__					
19__					
19__					
19__					
19__					

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

1.7.5 Please describe the steps taken to prevent/ control fires specifying the length fire lines and the type of equipment used to fight fire:

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1.7.6. Please give details regarding abnormal or unnatural flooding<sup>16</sup>, if any, in the PA in the last five years:

Year	Area affected (sq km)	Name of range(s) affected	Causes of floods	Describe impact on PA, indicating estimated loss of wildlife and specifying species and numbers
19__				
19__				
19__				
19__				
19__				

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

1.7.7 Please describe steps taken to prevent or control floods: \_\_\_\_\_

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1.7.8. Is the PA situated in a flood prone zone? Yes \_\_\_\_\_ No \_\_\_\_\_

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

1.7.9. Please give details of droughts<sup>17</sup> (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
19					
19					
19					
19					
19					

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

1.7.10 Please describe the steps taken to control or prevent droughts: \_\_\_\_\_

1.7.11. Is the PA located in a drought prone region? Yes \_\_\_ No \_\_\_

1.7.12 Is there any system of monitoring water and air pollution levels within the PA? Yes \_\_\_ No \_\_\_

1.7.13 If yes, what are these? \_\_\_\_\_

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						
19						
19						
19						
19						

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

<sup>17</sup> 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/ control 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 recurring problems due to natural reasons (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

[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?

[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:

Year	Name of disease	Area affected (sq km)	Name of range(s) affected	Name of species affected	Describe efforts to prevent/ control disease
19					
19					
19					
19					
19					
19					
19					
19					
19					

1.7.19. Did any diseases of fauna affect the PA in the last ten years? Yes \_\_\_ No \_\_\_. If yes, please give the following details:

Year	Name of disease	Name of species affected	% of population affected	Possible cause of disease	Describe efforts to prevent/ control disease
19__					
19__					
19__					
19__					
19__					
19__					
19__					
19__					
19__					
19__					

1.7.20 Are livestock within the PA and in the surrounding areas vaccinated? Within PA: Never \_\_\_ Sometimes \_\_\_ Regularly \_\_\_

Surrounding Villages: Never \_\_\_ Sometimes \_\_\_ Regularly \_\_\_

Percentage of livestock vaccinated: Within PA \_\_\_ Surrounding Villages \_\_\_

1.7.21 Where highways/public roads pass through the PA, do you check whether the livestock passing through have been vaccinated?

Always \_\_\_ Occasionally \_\_\_ Never \_\_\_

1.7.22 Do quarantine facilities exist at or near the entrance(s) of the PA? Yes \_\_\_ No \_\_\_

## 2. Geographical Profile

2.1. Area of PA \_\_\_\_\_ (sq. km); District(s) within which the PA falls \_\_\_\_\_

Latitude of PA from \_\_\_\_\_ to \_\_\_\_\_ Longitude from \_\_\_\_\_ to \_\_\_\_\_

Nearest town \_\_\_\_\_ Distance \_\_\_\_\_ km Nearest Railhead \_\_\_\_\_ Distance \_\_\_\_\_ km

Nearest Airport \_\_\_\_\_ Distance \_\_\_\_\_ km

2.2. Please indicate the best approach to the PA from nearest town/ airport and railhead, indicating distances and modes of transport

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2.3. Topographical details: Highest point: Name \_\_\_\_\_ Height \_\_\_\_\_ msl; Lowest point; Name \_\_\_\_\_ Height \_\_\_\_\_ msl

2.4 Water resources: Please give the following details

TYPE	NUMBERS	
	PERENNIAL	SEASONAL
Artificial tanks/ holes		
Natural tanks/ holes		
Reservoirs		
Natural lakes		
Rivers/ streams		
Springs		
Glaciers		

TYPE	NUMBERS	
	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 TEMP °c	RAINFALL (mm)	HAILSTORMS		HOT WINDS		GALES/ CYCLONES		FROST	
				occurrence √	area affected (ha)	occurrence √	area affected (ha)	occurrence √	area affected (ha)	occurrence √	area affected (ha)
JAN											
FEB											
MAR											
APR											
JUN											
JUL											
AUG											
SEP											
OCT											
NOV											
DEC											
ANN- UAL											

2.7 Please give the name(s) of the meteorological station(s) from where the above figures have been taken. Please also indicate whether they are located within or outside the PA. \_\_\_\_\_

2.8 Please list the survey of India (1:50,000 or larger) toposheet reference numbers for the sheets covering the PA

NUMBER	SCALE










### 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 where such grazing takes place in PA	Habitat Type (for example mention whether area is a forest, wetland, grassland etc.)
All types (Total)							
Cows							
Buffaloes							
Goats							
Sheep							
Camels							
Others (pl specify)							

3.3.2 Are there any migratory graziers passing through the PA? Yes \_\_\_\_\_ No \_\_\_\_\_

3.3.3 If yes, how long have they been grazing their cattle in the PA? \_\_\_\_\_ (Mention the number of years)

3.3.4 Which are the months when they are in the PA? \_\_\_\_\_

3.3.5 How many livestock do they bring (give numbers)? Cows \_\_\_\_\_ Buffaloes \_\_\_\_\_ Sheep \_\_\_\_\_ Goats \_\_\_\_\_ Others (specify) \_\_\_\_\_

3.3.6 Where do they come from? \_\_\_\_\_ Where do they go? \_\_\_\_\_

3.3.7 Has the number of migrant livestock increased or decreased in the last 5 years? \_\_\_\_\_ (Please indicate the quantum of increase or decrease) \_\_\_\_\_



### 3.5 Religious and Cultural Use of PA

3.5.1 Are there any places of pilgrimage, sacred groves or sites inside the PA? Yes \_\_\_ No \_\_\_. If yes, please fill the following table:

Name of the sacred grove, site or place of pilgrimage	Species/ ecosystems associated with the site	Area occupied by sacred site (sq km).	Name and religion of the community which considers the place sacred.	Briefly describe the restrictions and taboos associated with the site

(Please mark the location of the sacred sites on the map)

3.5.2 Are there any special government or community institutions associated with the pilgrimage/ sacred site? YES \_\_\_ NO \_\_\_ If yes, please give the name and the address of the institution(s)

### 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 took 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								
19								
19								

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



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	Animal species causing damage	Type of crops affected		Area of crops damaged (ha.)		Estimated losses (in Rs)		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									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									
19									

**(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. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



3.6.6 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?

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?

3.6.8 For those activities/uses stopped, have any alternatives been provided? Yes \_\_\_ No \_\_\_\_\_. If yes, please give details:

Name 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)	What has been the level of success of these activities in diverting pressure from the PA.

3.6.9 Has eco-development been introduced in the PA or its surrounds? Yes \_\_\_ No \_\_\_\_\_. If yes please fill the following table:

List (each separately) the activities carried out under eco-development.	No. of families covered by this activity.	What pressures on the PA are sought to be reduced through this activity?	How successful has this activity been in reducing such [pressures?



## 4. MANAGEMENT PROFILE

### 4.1 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 <sup>24</sup>	Date of Notification	Notification Number <sup>25</sup>	Act under which notified	Remarks

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

<sup>24</sup> 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.

<sup>25</sup> 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	Commencement 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)

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 <sup>26</sup>	
Protected Forests <sup>26</sup>	
Revenue land	

Royal Hunting Reserve	
Private land	
National Park	
Sanctuary	
Game Reserve	
Others (Please specify)	

<sup>26</sup> 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.

[Please also mark these areas on a map]

#### 4.2 Area, zones and boundaries

4.2.1. Is there any zoning in the PA you are responding about? Yes \_\_\_ No \_\_\_ (Please √)

4.2.2. If yes, then please give the area as well as legal status of these zones.

Type of zone	Within the national park/ sanctuary <sup>27</sup>		Outside the national park/ sanctuary <sup>28</sup>	
	Area (sq km)	Legal status (NP / S / INP / IS / others-pl specify)	Area (sq km)	Legal status (RP/ RF/ others-pl specify)
Core				
Buffer				
Tourist				
Other (pl. Specify)				

4.2.3. Were the size and shape of the PA determined (Please √):

To correspond to reserve/protected forest boundaries \_\_\_\_\_; To be contained within some natural boundaries \_\_\_\_\_

According to ecological principles \_\_\_ (if so, please give details): \_\_\_\_\_

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According to administrative convenience \_\_\_ (if so, please give details) : \_\_\_\_\_

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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 activities, extending management practices across these borders, etc. ? YES \_\_\_ NO \_\_\_

4.2.5. If yes, please give details: \_\_\_\_\_

<sup>27</sup> NP=national park: S=sanctuary: INP=Intended national park IS=Intended sanctuary

<sup>28</sup> 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?

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4.3.2 Is there a current management plan for the PA? Yes \_\_\_ No \_\_\_

4.3.3 How many previous plans have been made ? \_\_\_\_\_

4.3.4. If there is a plan, when was it prepared? Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_

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):

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4.3.6. Was it approved? YES \_\_\_ NO \_\_\_

4.3.7. If pending approval, when was it submitted for approval? Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_

4.3.8. If approved, when was it approved ? Day \_\_\_\_\_ Month \_\_\_\_\_ Year \_\_\_\_\_

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? YES \_\_\_ NO \_\_\_

4.3.11. If yes, who is preparing the new plan ? (Pl. give name and designation) \_\_\_\_\_

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#### 4.4 Budgets and expenditure

4.4.1 Please give details 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	Allocated	Spent	Asked for	Allocated	Spent
19						
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
19			
19			
19			
19			
19			
19			

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

#### 4.5. Tourism and regulation of entry

4.5.1. How many entry points to the PA by vehicle? \_\_\_\_\_

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:

By vehicle: Yes \_\_\_ No \_\_\_ On 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 reasons? \_\_\_\_\_  
\_\_\_\_\_

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
Private vehicles		
Govt. Vehicles		
Tourist operator/ Dept. Vehicles		
On foot		
Animal Back		

Mode of transport	Name of range open	% of PA
Boat		
Other (please specify)		

4.5.10 Please give the following details about visitors to the PA last year:

No. of overnight visitors (foreign) \_\_\_\_\_

No. of overnight visitors (Indian) \_\_\_\_\_

No. of day visitors (foreign) \_\_\_\_\_

No. of day visitors (Indian) \_\_\_\_\_

How many of the visitors are pilgrims? \_\_\_\_\_

In which months is the visitor's traffic at its peak? \_\_\_\_\_

In which months is the pilgrim's traffic at its peak? \_\_\_\_\_

What is the highest number of visitors in one day? \_\_\_\_\_

Are permits required for pilgrims Yes \_\_\_\_ No \_\_\_\_

4.5.11 Is there a public thoroughfare or highway through the PA? YES \_\_\_ NO \_\_\_; If yes, please indicate the approximate number of people that pass through the PA each year, apart from the visitors listed above: \_\_\_\_\_

Does the pilgrim traffic create any problems for the PA :

Normal pilgrim traffic: **Yes/ No**; peak pilgrim traffic **Yes/No**

If yes, please indicate the nature and extent of the problem.

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Does visitor traffic cause any problems for the PA? YES \_\_\_ NO \_\_\_

What is the major tourist attraction(s) in the PA? \_\_\_\_\_

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What are the best months for visiting the PA? \_\_\_\_\_

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		

Item	Charge (Rs)	Remarks
Movie/video camera		
Still camera		
Others (pl specify)		

4.5.13 Are there any plans to extend the tourist facilities in your PA? YES \_\_\_ NO \_\_\_ If yes, Please give details:

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4.5.14 How many visitors, in your opinion, can be allowed into the PA without damaging it: Annually? \_\_\_\_\_ On peak days? \_\_\_\_\_

4.5.15 What are the adverse impacts that excessive/ inappropriate tourism has had (or can have) in your PA?

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**4.6. Anti-poaching**

4.6.1. Are there any Anti Poaching Patrols/Flying Squads operating in the PA? Yes\_\_\_ No\_\_\_ 4.6.2. If yes, How many?\_\_\_\_\_

4.6.3. Please give the following information on the number of staff available exclusively for anti poaching work:

Designation	Number available		Number trained for anti-poaching work	Types of weapons provided	Type of vehicles provided
	Regular	Daily wage			

4.6.4 What weapons /transportation /communication equipment is available with the poachers? \_\_\_\_\_

\_\_\_\_\_

4.6.5. Are there any special limiting factors arising due to seasonal causes (eg. rain, snow etc.) which hamper the operations of anti-poaching patrols?

If so, what are these and how are they overcome? \_\_\_\_\_

\_\_\_\_\_

4.6.6. Are there any special limiting factors arising due to the terrain/physical features (eg. high mountains, large water bodies etc.) which limit the

operation of these patrols? If so, what are these and how are they overcome? \_\_\_\_\_

\_\_\_\_\_

4.6.7. Do these patrols have access to radio/wireless communication? If so, does the radio/wireless network cover the entire PA, or only a part?

\_\_\_\_\_

4.6.8. Is there a local informer network operating for the PA? Yes\_\_\_ No\_\_\_ 4.6.9. Does it work effectively? Yes\_\_\_ No\_\_\_

4.6.10. Is there an Incentive and reward scheme in existence? Yes \_\_\_\_\_ No \_\_\_\_\_

4.6.11. If yes, then please give details of this scheme \_\_\_\_\_

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

4.6.13. How many licensed/unlicensed guns are there in the PA and its surrounds? \_\_\_\_\_

#### **4.7. Issuing of permits**

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

Year	Name and designation of recipient	Period of validity	Name and number of species permitted to be hunted/ removed	Reasons for issuing the permit
19				
19				
19				
19				
19				
19				
19				
19				
19				







**4.10. Staffing and staff training**

**Staffing**

4.10.1 Please enclose an organisational chart of the PA

4.10.2 Please 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 have 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			

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

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 provided	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) \_\_\_\_\_

4.10.5. Where is the local in-charge stationed ? \_\_\_\_\_

4.10.6. Where is the PA Director stationed? \_\_\_\_\_

4.10.7 Does the PA Director have other responsibilities apart from this PA? YES \_\_\_\_\_ NO \_\_\_\_\_

4.10.8 If yes, what are these? \_\_\_\_\_

4.10.9. Is a veterinarian attached to the PA? Yes \_\_\_\_\_ No \_\_\_\_\_ ; If so, what is his/her specialisation? \_\_\_\_\_

4.10.10 Do you have a veterinarian hospital in or around the PA? YES \_\_\_\_\_ NO \_\_\_\_\_; If so, how far is it from the PA boundary? \_\_\_\_\_

4.10.11 Do you have any full time research staff working in the PA? YES \_\_\_\_\_ NO \_\_\_\_\_

4.10.12. If yes, please give their particulars:

Name and designation	Qualification	Department/institution	Topic of research	Years spent in PA

4.10.13 Please give designation/ number of personnel undertaking educational/ extension work in the PA or in the surrounds:

Designation	Numbers	Nature of activities	Geographical area of work







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								
Slides on wildlife	YES/NO								
Films on wildlife	YES/NO								
books on wildlife	YES/NO								
Checklists (birds)	YES/NO								
Checklists(other animals)	YES/NO								
Checklists (plants)	YES/NO								
Binoculars for visitors	YES/NO								
Vehicles for tourists	YES/NO								
Others (specify)	YES/NO								
	YES/NO								
	YES/NO								
	YES/NO								
	YES/NO								
	YES/NO								

**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.

4.12.3. Do you have any monitoring activities (including census) regarding the flora & fauna in the PA? YES \_\_\_ NO \_\_\_

4.12.4. If yes, please give the following details :

Type of activity (eg. census, preservation plots, etc.)	Frequency (eg. yearly/ monthly)	Methodology (eg. Pugmark, counts etc.)	PA area covered (%)	Species/ ecosystems covered

4.12.5. Do you have any special/cheap/subsidised accommodation for researchers from other organisations ? YES \_\_\_ NO \_\_\_

**4.13. Interpretation, Education and Extension**

4.13.1. Are there any programmes to educate villagers residing within the PA or in the peripheral villages? YES \_\_\_ NO \_\_\_

4.13.2. If yes, please give details on nature of programme, and its frequency \_\_\_\_\_

4.13.3. Do you have an interpretation centre? Yes \_\_\_ No \_\_\_

4.13.4. If yes, please indicate where it is located (BZ/CZ/TZ /outskirts) and give details of facilities provided in it \_\_\_\_\_

**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: \_\_\_\_\_

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4.14.2. Are there any non-governmental organisations/individuals associated<sup>29</sup> with or active in the PA? YES \_\_\_ NO \_\_\_

4.14.3. If yes, please give details about the nature of such association/activity, and the name(s) and addresses of these organisations/ individuals:

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4.14.4 Describe instances, if any, of community involvement in the protection and/or management of the PA: \_\_\_\_\_

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**Notes:**

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<sup>29</sup> 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 convictions	Describe the trend for this offence over the last ten years. Is it increasing or decreasing? What are the causes for its increase or decrease? What proportion of incidents are detected?
	19__	19__	19__	G <sup>30</sup>	V <sup>31</sup>	O <sup>32</sup>		
Illegal alteration of boundary (26A(3) & 35(5))								
Improper entry (27.1)								
Improper conduct (27.2)								
Causing damage to boundary mark (27.3)								
Teasing/molesting of Wild Animals (27.4)								
Destruction, exploitation, etc of wildlife (29 & 35.6)								
Causing fire (30)								
Illegal weapons (31)								
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)								
Others (pl. specify)								

<sup>30</sup> G=Government Servant

<sup>31</sup> 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					
19					
19					
19					
19					
19					
19					
19					
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/ 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

[Please also mark these areas on a map]

<sup>32</sup> O=Others (please specify)





