

FIRST INDIAN NATIONAL STUDBOOK FOR THE GREAT INDIAN ONE-HORNED RHINOCEROS

This Studbook has been compiled to be useful for cooperative breeding for Indian zoos. Because of the difficulties of arrangements, transport, legal formalities, etc., shipping rhinos around the world has become tedious, to say the least. Also artificial insemination -- while increasingly possible for some species -- is yet to be worked out for rhino due to its physiological characteristics. It is better, then, if Indian zoos organise their exchanges so that a good breeding programme can be put into practice.

The method which has been followed for this Studbook is eminently practical. We have included only living animals -- and their non-living direct ancestors. Although Indian zoos have had rhinos since the 1800's, most of the animals now in the zoos are from the wild.

Several types of listings have been included for the sake of clarity, a zoo-by-zoo listing, a date-wise "manual" listing and a computer Studbook programme printout called SPARKS. Individual data sheets, age pyramid, inbreeding coefficient, etc. have been printed out from the computer programme.

The Indian zoos holding rhinos all sent information to the Studbook Keeper. The Kanpur Zoo would like to thank all the zoos for their cooperation in supplying information in a timely manner.

**LIST OF LIVING RHINOS (AND FOUNDERS) IN INDIAN ZOOS
ZOO BY ZOO LISTING**

Sl.#	Hs.#	Int.#	House name	Sex	Date of birth	Parentage	AZ Reg #
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I. Assam State Zoo (8.3) living rhinos as of December 1993 -- Wild origin 8; captive born 3

A.	AZ-05 (Intl.24)	Shivaji	m	est. 1955	w	w	
B.	AZ-11 (Intl.25)	Padmini	f	est. 1960	w	w	
1.	AZ-56 (Intl.172)	Ganesh	m	est. 1972	w	w	
2.	AZ-46 (Intl.169)	Lakshman	m	est. 1976	w	w	
3.	AZ-38 (Intl.168)	Lakhlmi	f	09.01.1978	Intl.24	Intl.25	
4.	AZ-47 (Intl.170)	John	m	est. 1979	w	w	
5.	AZ-48 (Intl.171)	Gini	f	est. 1980	w	w	
6.	AZ-59 (Intl.173)	Bishnu	m	11.05.87	Intl.169	Intl.168	
7.	AZ-61 (Intl.175)	Ramu	m	est. 1988	w	w	
8.	AZ-63 (Intl.176)	Mahesh	m	30.03.89	Intl.169	Intl.168	
9.	AZ-66 (Intl.178)	Madhu	m	est. 1989	w	w	
10.	AZ-69 (Intl.179)	Pradeep	m	est. 1990	w	w	
11.	AZ-71 (Intl.nll)	Bhagekhati	f	est. 1990	w	w	

II. Alipore Zoological Garden, Calcutta, West Bengal -- Living rhinos 2.1, Wild caught 1.1; Captive born 1.0

1.	CZ-01 (Intl. 94)	Meghnad	m	est.1970	w	w	(AZ - 26)
2.	CZ-02 (Intl. 95)	Kadambini	f	est.1973	w	w	(AZ -24)
3.	CZ-03 (Intl.150)	Debraj	m	04.06.84	Int.94	Intl.95	

III. Chhatbir Zoological Park, Chandigarh, Punjab -- Living rhinos 2.0, Wild caught 1.1; Captive born 1.0

A.	AZ-41 (Intl.nll)	Shakuntala	f	est. 1977	w	w	
1.	ChZ-1 (Intl.nll)	Balaram	m	est. 1976	w	w	AZ - 37
2.	ChZ-2 (Intl.nll)	Chhatbir-1	m	09.05.86	AZ-37	AZ-41	

IV. Chamaralendra Zoological Garden, Mysore -- Living rhinos 1.0, Wild caught 1.0

1.	My-1 (Intl. nll)	Muniya (Raja)	m	est.1975	w	w	AZ - 45
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V. Allen Forest Zoological Park, Kanpur -- Living rhinos 4.1, Wild caught 0.1; captive born 4.0

A.	Kan-1 (Intl. 70)	Lachit	m	23.05.74	Int.24	Intl.25	AZ - 27
1.	Kan-2 (Intl.128)	Mayungkumari	f	est.1973	w	w	AZ - 22A

<u>Sl.#</u>	<u>Hs.#</u>	<u>Int.#</u>	<u>House name</u>	<u>Sex</u>	<u>Date of birth</u>	<u>Parentage</u>	<u>AZ Reg #</u>
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2.	Kan-4 (Intl.129)	Lohit		m	06.08.84	Intl.70	Intl.128
3.	Kan-5 (Intl.140)	Mohit		m	17.06.87	Intl.70	Intl.128
4.	Kan-6 (Intl.160)	Rohit		m	23.06.89	Intl.70	Intl.128
5.	Kan-7 (Intl. nil)	Mudit		m	05.07.91	Intl.70	Intl.128

VI. Veerimati Jilbhaji Bhoosale Ursyan, Bombay -- Living rhinos 1.0. Wild caught 1.0.

1.	Bom-1 (Intl. nil)	Shiva		m	est. 1978	w	w	AZ-43
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VII. Nehru Zoological Park, Hyderabad -- Living rhinos 1 only. Captive born 1.0

A.	AZ-6 (Intl.76)	Rajkumar		m	est. 1962	w	w	
B.	AZ-nil* (Intl.77)	Padma		f	est.1964	w	w	
1.	Hyd-1 (Intl.106)	Shrinivas		m	15.05.81	Intl.76	Intl. 77	

VIII. Nandankanan Biological Park, Orissa -- Living animals 1.1. Wild origin 1.1

1.	Nan-1 (Intl.153)	Orissa-1		f	est. 1974	w	w	AZ-29
2.	Nan-2 (Intl. nil)	Orissa-2		m	est. 1976	w	w	AZ-36

<u>Sl.#</u>	<u>Hs.#</u>	<u>Int.#</u>	<u>House name</u>	<u>Sex</u>	<u>Date of birth</u>	<u>Parentage</u>	<u>AZ Reg #</u>
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IX. Sanjay Gandhi Biological Park, Patna -- Living rhinos 2.3. Wild caught 2.1, Captive born 0.2.

1.	Pat-1 (Intl.155)	Kanchi		f	est.1974	w	w	AZ-28
2.	Pat-2 (Intl. 156)	Kancha		m	est. 1977	w	w	AZ-35
3.	Pat-3 (Intl. 157)	Raju		m	est. 1981	w	w	
4.	Pat-4 (Intl.159)	Hartali		f	08.07.88	Intl.157	Intl.156	
5.	Pat-5 (Intl. nil)	Chhotaki		f	06.07.91	Intl.157	Intl. 156	

X. Trivandrum State Zoo, Trivandrum -- Living rhinos 1.1. Wild caught 1.1.

1.	Tri-1 (Intl.174)	Trivandrum-1		m	est.1986	w	w	AZ-60
2.	Tri-2 (Intl.177)	Trivandrum-2		m	est. 1988	w	w	AZ-65

XI. National Zoological Park, New Delhi -- Living rhinos 1.1. Wild caught 1.1.

1.	Nat-1 (Intl. nil)	Agni		m	est. 1970	w	w	AZ-53
2.	Nat-2 (Intl.nil)	Delhi-1		f	est. 1982	w	w	AZ - 54



STUDBOOK OF LIVING RHINOS AND FOUNDERS IN INDIAN ZOOS¹



<u>Indian sb.no</u>	<u>Hs.#</u>	<u>Intl. sb.#</u>	<u>House name</u>	<u>Sex</u>	<u>Date of birth</u>	<u>Parentage</u>	<u>Assam Zoo Register #</u>	<u>Present Location</u>	<u>Date of Death & Loc.</u>
NR-01	AZ-05	(Intl.24)	Shivaji	m	est. 1955	w	AZ - 05		23.09.84 Gauhati
NR-02	AZ-11	(Intl.25)	Padmini	f	est. 1960	w	AZ - 11		19.10.82 Gauhati
NR-03	AZ-6	(Intl.76)	Rajkumar	m	est. 1962	w	NIL		19.08.83 Hyderabad
NR-04.	AZ-nil*	(Intl.77)	Padma	f	est.1964	w	NIL		19.08.83 Hyderabad
NR-05.	CZ-01	(Intl. 94)	Meghnad	m	est.1970	w	AZ - 26	Calcutta	
NR-06.	AZ-56	(Intl.172)	Ganesh	m	est. 1972	w	AZ - 56	Gauhati	
NR-07.	CZ-02	(Intl. 95)	Kadambini	f	est.1973	w	AZ -24	Calcutta	
NR-08.	Kan-2	(Intl.128)	Mayungkumari	f	est.1973	w	AZ - 22A	Kanpur	
NR-09.	Nan-1	(Intl.153)	Orissa-1	f	est. 1974	w	AZ-29	Kanpur	
NR-10.	Kan-1	(Intl. 70)	Lachit	m	23.05.74	Intl.24	AZ - 27	Kanpur	
NR-11.	Pat-1	(Intl.155)	Kanchi	f	est.1974	w	AZ-28	Patna	
NR-12.	AZ-46	(Intl.169)	Lakshman	m	est. 1976	w	AZ - 46	Gauhati	
NR-13.	Nan-2	(Intl. nil)	Orissa-2	m	est. 1976	w	AZ - 36	Nandankanan	
NR-14.	ChZ-1	(Intl.nil)	Balaram	m	est. 1976	w	AZ - 37	Chandigarh	
NR-15.	AZ-41	(Intl.nil)	Shakuntala	f	est. 1977	w	AZ - 41		25.05.86 Charc garh
NR-16.	Pat-2	(Intl. 156)	Kancha	m	est. 1977	w	AZ-35	Patna	
NR-17.	AZ-38	(Intl.168)	Lakhimi	f	09.01.1978	Intl.24	AZ - 38	Gauhati	



STUDBOCK OF LIVING RHINOS AND FOUNDERS IN INDIAN ZOOS



<u>Indian</u> <u>sb no</u>	<u>Hs.#</u>	<u>Intl.</u> <u>sb.#</u>	<u>House name</u>	<u>Sex</u>	<u>Date of birth</u>	<u>Parentage</u>	<u>AssamZoo</u> <u>Register #</u>	<u>Present</u> <u>Location</u>	<u>Date of Death & Loc.</u>
NR-18	Bom-1 (Intl. nil)	nil	Shiva	♂	est. 1978	w	AZ-43	Bombay	
NR-19	AZ-47 (Intl.170)	nil	John	♂	est. 1979	w	AZ-47	Gauhati	
NR-20	AZ-48 (Intl.171)	nil	Gini	♀	est. 1980	w	AZ - 48	Gauhati	
NR-21	Hyd-1 (Intl.106)	nil	Shrinivas	♂	15.05.81	Intl.76	NIL	Hyderabad	
NR-22	Pat-3 (Intl. 157)	nil	Raju	♂	est. 1981	w	NIL	Patna	
NR-23	Nat-1 (Intl. nil)	nil	Agni	♂	est. 1970	w	AZ-53	Delhi	
NR-24	CZ-03 (Intl.150)	nil	Debraj	♂	04.06.84	Intl.94	NIL	Calcutta	
NR-25	Kan-4 (Intl.129)	nil	Lohit	♂	06.08.84	Intl.70	NIL	Kanpur	
NR-26	My-1 (Intl. nil)	nil	Muniya (Raja)	♂	est.1975	w	AZ - 45	Mysore	
NR-27	ChZ-2 (Intl.nil)	nil	Chhatbir-1	♂	09.05.86	AZ-37	NIL	Chandigarh	
NR-28	Trl-1 (Intl.174)	nil	Trivandrum-1	♂	est.1986	w	AZ-60	Trivandrum	
NR-29	Kan-5 (Intl.140)	nil	Mohit	♂	17.06.87	Intl.128		Kanpur	
NR-30	AZ-59 (Intl.173)	nil	Bishnu	♂	11.05.87	Intl.169	AZ - 59	Gauhati	
NR-31	Trl-2 (Intl.177)	nil	Trivandrum-2	♂	est. 1988	w	AZ-65	Trivandrum	
NR-32	Pat-4 (Intl.159)	nil	Hartali	f	08.07.88	Intl.157	NIL	Patna	
NR-33	AZ-61 (Intl.175)	nil	Ramu	♂	est. 1988	w	AZ - 61	Gauhati	
NR-34	AZ-63 (Intl.176)	nil	Mahesh	♂	30.03.89	Intl.169	AZ - 63	Gauhati	



STUDBOOK OF LIVING RHINOS AND FOUNDERS IN INDIAN ZOOS



Indian Hs.# sb no	Intl. sb #	House name	Sex	Date of birth	Parentage	Assam Zoo Register #	Present Location	Date of Death & Loc.
NR-35	AZ-66 (Intl.178)	Madhu	m	est. 1989	w	AZ - 66	Gauhati	
NR-36	Kan-6 (Intl.160)	Rohit	m	23.06.89	Intl.128	NIL	Kanpur	
NR-37	Nat-2 (Intl.nil)	Delhi-1	f	est. 1982	w	AZ - 54	Delhi	
NR-38	AZ-69 (Intl.179)	Pradeep	m	est. 1990	w	AZ - 69	Gauhati	
NR-39	AZ-71 (Intl.nil)	Bhagekhai	f	est. 1990	w	AZ - 71	Gauhati	
NR-40	Kan-7 (Intl. nil)	Mudit	m	05.07.91	Intl.128	NIL	Kanpur	
NR-41	Pat-5 (Intl. nil)	Chhotaki	f	06.07.91	Intl.157	NIL	Patna	
NR-42	Pat-6 (Intl.nil)							

• NR-04 * This animal (House name as Padma) is not listed either in the Hyderabad report or the Assam State Zoo Register, but is in the International Studbook as KAZ-17 (No.77). Possibly Padma was transferred directly from Assam Forest Department to Hyderabad)

** NR-22 ** Reported as wandering in Bihar forest and taken to zoo

*** NR-28 & NR-31 *** This information was collected from Assam State Zoo in November 1993. The animals were given on sale in November 1993

† Note on this studbook : This listing has been prepared for the Kanpur Zoo, Studbook Keeper, Indian Rhino.

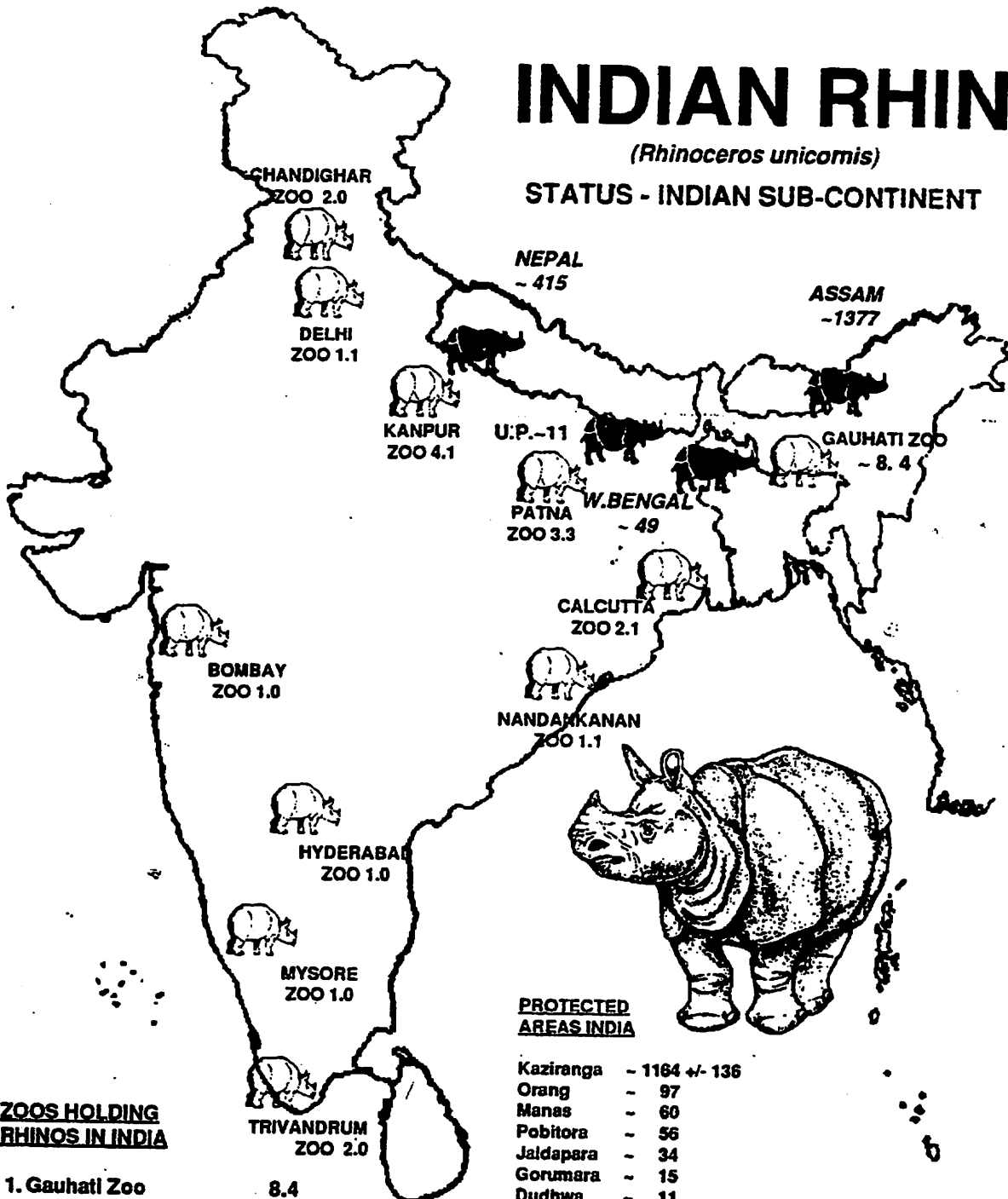
The method followed in this listing was to list only the rhinos living in Indian zoos at this time and their ancestors or founders (if captive born). This was done to facilitate the planning of captive rhino action plans within Indian zoos. Information about rhinos abroad is given in the International Rhino Studbook which is being kept by Basel Zoo, Switzerland if required.

A historical listing of all the rhinos reported to the Kanpur Zoo is given elsewhere.

INDIAN RHINO

(*Rhinoceros unicornis*)

STATUS - INDIAN SUB-CONTINENT



ZOOS HOLDING RHINOS IN INDIA

1. Gauhati Zoo	8.4
2. Patna Zoo	3.3
3. Kanpur Zoo	4.1
4. Calcutta Zoo	2.1
5. Delhi Zoo	1.1
6. Nandankanan Zoo	1.1
7. Chandigarh Zoo	2.0
8. Hyderabad Zoo	1.0
9. Mysore Zoo	1.0
10. Bombay Zoo	1.0
11. Trivandrum Zoo	2.0
Total male/female	26.11

Total Indian Rhinos in Indian zoos 37
 Total Indian Rhinos in World's zoos - 116

PROTECTED AREAS INDIA

Kaziranga	- 1164 +/- 136
Orang	- 97
Manas	- 60
Pobitora	- 56
Jaldapara	- 34
Gorumara	- 15
Dudhwa	- 11
Laokhowa	- nil
Others	- 10

NEPAL

Chitawan	- 400
Bardia	- 15
Total	- 1850