



CZA took several important decisions during the past year which were confirmed by the recent meeting of CZA which took place in December. Some of them are listed below :

The CZA made provisions for housing animals from the zoos which have not been recognized and the animals confiscated. Housing will be constructed in off-display areas of larger zoos in different regions of India. Central Zoo Authority will reimburse the cost of feeding of these animals. Five zoos in different zones will have facilities for the "off exhibit" housing of these animals.

Earlier a 50:50 matching scheme for the cost of housing, upkeep and health care facilities to improve the quality of life for the animals proved ineffective in many cases. This was because some of the state and municipal governments were not in a position to provide their share of the scheme. CZA has now decided to provide 100% funding for such works to improve the animals lives in three sectors, e.g. enclosures, health and upkeep.

Some of the zoos were unable to find a designer who could produce an effective design for naturalistic enclosures simulating the natural habitat of animals. CZA now provides the services of zoo design experts approved by the CZA, if the zoos request it. It is anticipated that there will be considerable savings by preventing over-use of steel and concrete.

A decision was taken to create a "scientific cell" with experts from a variety of disciplines related to zoo management.

The earlier decision of the Central Zoo Authority not to grant recognition to mobile zoos was pending in the court for a long time. It has now been upheld by the Hon'ble High Court of Delhi. The mobile zoos will have to surrender the animals in their stock to recognised zoos and this is ongoing.

CZA has approved a grant of Rs. 6.5 lakhs for construction of an off - exhibit enclosure in the Safari section of the Bannerghatta National Park for an aged tiger which had been housed in the zoo hospital in Bombay. An animal welfare organisation in the United Kingdom had solicited funds from the public in UK for this enclosure but it was not accepted by CZA. The state governments should use their own resources and those provided from Central Zoo Authority for such small projects rather than requesting international organisations which imply that India does not have the money to house its animals.

Evaluation of Zoos

A second round of evaluations of all the large zoos was undertaken as well as five medium zoos and six small zoos. The large and medium zoos listed below were granted conditional recognition; the decision on small zoos is pending:

The Large Zoos granted provisional recognition are: Indira Gandhi Zoological Park, Vishakapatnam; Nehru Zoological Park, Hyderabad; Assam State Zoo, Guwahati; National

Zoological Park, New Delhi; Kamla Nehru Zoological Park, Ahmedabad; Sri Chamarajendra Zoological Garden, Mysore; Veermata Jijabai Udyan, Mumbai; Nandankanan Biological Park, Bhubaneswar; M.C. Zoological Park, Chhatbir; Arignar Anna Zoological Park, Chennai; Kanpur Zoological Park, Kanpur; Prince of Wales Zoological Garden, Lucknow; Alipore Zoo, Calcutta.

The Medium Zoos granted provisional recognition are: Van Vihar National Park, Bhopal; Chennai Snake Park Trust, Chennai; Children Corner Zoo, Guindy, Chennai; Madras Crocodile Bank Trust, Mammalapuram.

Mini Zoos

Forty-three mini zoos were evaluated and provisional recognition was granted to 21 mini zoos and 22 zoos were refused recognition. The list of mini zoos granted recognition and refused recognition are listed below:

In Andhra Pradesh: Deer Park, Kaudaleru; Deer Park, Chittoor Reserve Forest, Chittoor East division; Jawahar Lake Tourist Complex, Shamirpet; Pillalamarri Deer Park, Mahbub Nagar; Vanavigyan Kendra, Hanamkonda, Warangal.

In Bihar : Birsa Mrig Vihar, Kalamati and Chandrapur Deer Park, Chandrapur.

In Daman & Diu: Deer Park, Daman.

In Haryana: Mini Zoo, Yadavanda Garden, Tourist Complex, Pinjore.

In Kerala: Deer Park, Ponmudi, Thiruvananthapuram and Lion Safari Park, Nayyar Dam, Thiruvananthapuram.

In Tamil Nadu : Amirdhi Zoo, Vellore, Gangaikondan Deer Park, Neelai Kottabomman. Hogainakkal Mini Zoo, Dharmapuri, Kurumbapatti Zoological Park, Salem, VOC Park Mini Zoo, Erode.

In Uttar Pradesh : Deer Park, Kukrail and Gharial Rehabilitation Centre, Kukrail, Indira Manoranjan Van (Deer Park) Mehewa, Lakhimpur Kheri, Nawabganj Deer Park, Unnao.

In West Bengal: Deer Park, Dow Hill, Kurseong.

Central Zoo Authority refused recognition to some 23 mini zoos and deer parks in India

Andhra Pradesh : Deer Park, Municipal Park, Rajahmundry, Himabindu Deer Park, Kurnool, Muggar Breeding Centre, Muta

In Daman & Diu: Deer Park, Diu

In Dadra & Nagar Haveli : Mini zoo, Silvasa, Kahnvel

In Haryana: Mini zoo, Madhuban; Pheasant Breeding Centre, Morni, Distt. Ambala

In Karnataka: Mini Deer Park, Chickmagalur; Mini zoo, Hassan; Nature Park, Raichur

In Kerala: Crocodile Farm, Kozhikode; Mini Zoo, Kodanadu; Parassinikkadavu Snake Park, Kannur

In Madhya Pradesh: S.F.R.I. Zoo, Jabalpur; Indira Udyan, Bilaspur; Mrignayni Deer Park, Pachmarhi

In Meghalaya: Tura Zoo, Akhongini, Tura

In Punjab : Mini zoos, Bansar Bagh, Sangrur

In Tamil Nadu: Mini Zoo, Courtallam and Montfort School Mini Zoo, Yercaud, Salem

In Uttar Pradesh: Deer Park, Air Force Station, Merna

There were also Zoos which were found far below the standard and not granted recognition. These were Kanan Pendari Zoo, Bilaspur, M.P.; Venchetna Kendra, Faizabad, U.P.; Vanvajantu Vihar, Dak Pathar, Dehradun, U.P.

Grants to zoos

Grants worth Rs.321 lakhs was provided to 23 Indian zoos from the Central Zoo Authority. A total of Rs. 2,37,32,711/- was given for improvement of animal housing and security of animals, Rs. 63,11,700/- for improvement of veterinary care and hygienic supply of food and water, Rs. 18,05,000/- for maintenance of healthy environment for the zoo and Rs. 3,00,000/- for zoo education and awareness. The zoos which received grants are listed below. Additional grants since April 1998 have been approved but not released and will appear in a subsequent report.

Thiruvananthapuram Zoo, Kerala received Rs. 30,00,000/- for improvement of animal housing and security for animals.

Van Vihar National Park, Bhopal received Rs. 26,42,600/- for improvement of animal housing 3,25,000/- and 29,67,600/- for veterinary care and hygienic supply of food and water.

Padmaja Naidu Himalayan Zoo, Darjeeling received Rs. 8,05,000/- for animal housing, Rs. 20,76,000/- for veterinary and sanitation improvements.

Prince of Wales Zoological Gardens, Lucknow, Uttar Pradesh received Rs. 6,45,000/- for Animal housing, 2,00,000/- for veterinary and sanitation and 16,55,000/- for improving zoo environment.

Nehru Zoological Park, Hyderabad, Andhra Pradesh Rs. 17,50,000/- for improved animal housing, Rs. 5,00,000/- for veterinary and sanitation and Rs. 1,00,000/- for education and awareness.

Tiger Safari, Ludhiana, Punjab received Rs. 21,25,000/- for animal housing, Rs. 1,50,000/- for veterinary/sanitation and Rs. 23,50,000/- for zoo environment.

Kamla Nehru Zoo, Ahmedabad received Rs. 20,50,000/- for animal housing, and Rs. 50,000/- for veterinary and sanitation.

Aurangabad Municipal Zoo, Aurangabad received Rs. 20,51,938/- for animal housing

Bijni Park cum Mini Zoo, Guwahati received Rs.18,70,000/- for animal housing and Rs. 86,000/- for veterinary and sanitation.

Mahendra Chaudhury Zoological Park, Chhatbir, Punjab received Rs.6,00,000/- for animal housing, Rs. 11,50,000/- for veterinary and sanitation and Rs.75,000/- for education.

Arignar Anna Zoological Park, Vandalur, Tamil Nadu received Rs. 8,31,500/- for animal housing, Rs 5,75,000/- for veterinary and sanitation.

Kanpur Zoological Park, Kanpur received Rs. 7,00,000/- for animal housing, Rs. 6,50,000/- for veterinary and sanitation.

Sri Venkateswara Zoological Park, Tirupati received Rs. 11,50,000/- for animal housing.

Himalayan Zoological Park, Bulbuley, Gangtok, Sikkim received Rs. 8,87,472/- for improvement of animal housing.

Indira Gandhi Zoological Park, Visak received Rs. 8,00,000/- for animal housing and Rs. 75,000/- for veterinary facilities.

Zoological Park, Itanagar, Arunachal Pradesh received Rs. 8,12,100/- for animal housing.

Nandankanan Biological Park, Bhubaneswar, Orissa received Rs. 3,50,000/- for animal housing, Rs. 2,35,000 for veterinary facilities and 1,50,000 for education.

Sri Chamarajendra Zoological Gardens, Mysore received Rs. 6,00,000/- for animal housing.

Children's Corner, Guindy, Tamil Nadu received Rs. 50,000/- for animal housing Rs.1,25,000/- for veterinary, and 50,000/- for education.

Alipore Zoological Garden, Calcutta received Rs. 50,000/- for veterinary facilities.

Jodhpur Zoo, Rajasthan received Rs. 50,000/- for veterinary facilities. Aizawl zoo, Aizawl, Mizoram received Rs.14,700/- for veterinary facilities.

Chennai Snake Park Trust, Guindy, Tamil Nadu received Rs. 12,101/- for animal housing.

important births of rare and endangered species were reported from various zoos: 1997-98

Zoo	Species	Births
Nehru Zoo, Hyderabad.	Sangai	3
	Gaur	1
	Asiatic lion	4
National Zoo, New Delhi.	Chinkara	4
	Swamp deer	1
	Rhino	1
Sakkarbaug Zoo, Junagarh	Four horned antelope	14
	Asiatic lion	5
	Chinkara	1
Kamla Nehru Zoo, Ahmedabad	Mouse deer	2
	Swamp deer	3
Chamarajendra Zoo, Mysore	Gaur	1
	Elephant	1
Kanpur zoo, Kanpur	Swamp deer	1
Alipore Zoo, Alipore	Chinkara	2
	Sangai	3
Lucknow Zoo	Swamp deer	1
Indira Gandhi Zoo, Visak	Indian wolf	1
Arignar Anna Zoo, Chennai	Sangai	2
	Nilgiri langur	2
	Lion-tailed macaque	1
Assam State Zoo, Guwahati	Indian rock python	4
	Serow	2
	Leopard cat	3
Nandankanan Zoo, Bhubaneswar	Golden langur	1
	Leopard cat	2
M.C. Zoological Park, Chhatbir	Pangolin	1
	Swamp deer	2
Sanjay Gandhi Biol. Park, Patna	Leopard cat	1

Coordinated Breeding Programmes

Under the planned breeding programme of Indian tiger, the animals of wild origin available with zoos in Madhya Pradesh had been moved to the identified zoos under the supervision of national coordinator for Indian tiger breeding programme. Other tigers have also been moved to the designated zoos with only two or three tigers left to be moved.

The Gujarat Forest Department has agreed to give Asiatic lion to Indian Zoos identified for breeding of the species. The animals are to be moved to the designated zoos soon.

Exchange Programme

The Technical Committee of the Central Zoo Authority met on 19th August, 1997; 18th December, 1997 and 18th March, 1998. The Committee reviewed the exchange proposals submitted by zoos. On the basis of the decisions taken by this Committee and under the powers delegated to Member Secretary, proposals for exchange, loaning and gifting of zoo animals within the country and zoos outside India were approved and listed on the following page.

Research and Training activities of CZA

A capsule course for zoo supervisors was organised at Kanpur Zoological Garden. The trainees were appraised of the modern concept of zoo designing, collection planning. Information on planned breeding programmes for endangered species was also provided. The duration of the course was two weeks.

A Training Programme for zoo keepers was organised at four zoos: Kanpur Zoo, Nehru Zoological Park, Sri Chamarajendra Zoological Park, Ahmedabad Zoo and Arignar Anna Zoological park and trained 68 zoo keepers in basic aspects of animal care.

Mamta Sharma, Director, Kanpur Zoo and Dr. Panneerselvam, Veterinary Officer, National Zoological Park, New Delhi participated in a three week course on conservation of endangered species at Jersey Wildlife Preservation Trust during July & August, 1997.

A study on social impact of mini zoos and deer parks in the country was awarded to three eminent institutes. Xavier institute of Management - Bhubaneswar; Indian Institute of Management - Bangalore and A.E.D.R. (J.N.U.) - New Delhi. The study was conducted in zoos of Eastern Region, Southern Region and Northern region of India respectively. The report of the study for the Northern region has been submitted. Report from other institutes are awaited.

6. A visitor response study in National Zoological Park, New Delhi, was awarded to M/s. Mediastorm, New Delhi. The study has been concluded and the Technical Committee of the Central Zoo Authority has suggested that the recommendations may be utilised for improvement of the National Zoological Park.

Shri C. Lachungpa, Director, Himalayan Zoological park, Gangtok (Sikkim) and Shri Kiran Moktan, Supervisor, Padmaja Naidu Himalayan Zoological Park, Darjeeling attended a three weeks zoo, training on "Captive breeding master plan for Red Panda" at Marwell Zoological Park, U.K.

Dr. Bernard Harrison, Director, Singapore Zoological Park, was invited to the Annual Zoo Directors Meeting, held in Mumbai during January, 1998. He presented a lecture on modern zoo architecture.

Exchange of Animals between Indian Zoos

Exchange proposals approved by the Central Zoo Authority during 1997-1998

Donor Zoo	Animals Acquired	Animals Given	Recipient
Kanpur Zoo	Leopard Cat 2.2	Hippo 0.1	Patna Zoo
Mumbai Zoo	Asiatic lion 1.2	Military Macaw 1.1	Hyderabad Zoo
Guwahati Zoo	Ass. Macaque 3.3	Leopard Cat 3.3	Chhatbir Zoo
Guwahati Zoo	Golden langur 1.0	Capped langur 1.0	Sepahijala Zoo
Guwahati	Bonnet Macaque 2.0	LTM 0.1	Kanpur zoo
Kanpur Zoo	Pigtd Macaque 0.1	Sangai 0.2	Lucknow Zoo
	Chinkara 1.0		
Jaipur Zoo	Great indian Hornbill 1.0		Lucknow Zoo
Lucknow Zoo	Sloth bear 1.0		Chhatbir Zoo
Chatbir Zoo	Chinkara 2.0		Bikaner Zoo
Bikaner Zoo	Sloth bear 1.0		Jaipur Zoo
Nehru Zoo	Reticulated Python 1.3		Madras Snake Park,
Lucknow Zoo	Hoolock Gibbon 0.1	Bengal Tiger 0.2	Borivilli

Exchange/Gift between Indian & Foreign Zoo's

Guwahati	Chimpanzee 2.3	Elephant 0.2	Beto Zoo, Brazil
Nandankanan	Cassawaries 2.2	Bengal Tiger(W) 1.1	Wonderland Zoo
	Blue & Yellow Macaw 2.2		
	Bengal Tiger 1.1		
	Malaysia Green Winged Macaw 2.2		
	Ostrich 2.2		
	Squirrel Monkey 2.5		
Mysore Zoo	Rhea 2.3	Bonnet Macaque 0.5	Hagenback Zoo
	Hamadryas baboon 0.4		Frankfurt Zoo,
Mumbai Zoo		Asiatic Lion 1.2	Yokohama Zoo
		Elephant 2:2	
Lucknow Zoo	Snowleopard 1.1	Asiatic Lion 0.1	Moscow Zoo, Russia
(Snow leopard to go to Darjeeling Zoo)		Sloth bear 0.1	

Proposal approved by the Member Secretary

Donor Zoo	Animals Acquired		Receipient
Patna Zoo	Lion 1.1	--	Chhatbir zoo
Jaipur Zoo	Muggers 0.0.40	--	National Chambal Sanctuary
Visak Zoo	Himal. black bear 2.2		Guwahati Zoo
Hyderabad	Himal. black bear 2.2		Guwahati Zoo
Vandalur Zoo	Gharial 0:1		
	Salt Water Crocodile 1:0		Madras Crocodile Bank
Lucknow Zoo	Bengal Tiger (W) 1:1		Nandankanan Zoo
Bokaro Zoo	Leopard 1:1		WL Sanctuary, Burdwan
Ahmedabad Zoo	Leopard 2:0		Gujarat Forest Department
National Zool	Leopard 2:0		D.F.O. Civil Soyam, Almora
Mumbai Zoo	Asiatic Lion 1:0		Peshwe Park, Pune
Gangtok Zoo	Himalayan black bear 1:0		Guwahati zoo
National Zoo	Leopard 1.1	Blue & Yellow macaw	Lucknow Zoo
	Bonnet Macaque 2.2		
Bokaro Zoo	Hippopotamus 2:0	—	National Zoo
Nature Park, Mumb.	Peacock 1:2	—	Sangli Zoo
Ranchi	Leopard 0:2	—	Patna Zoo

Education Subcommittee Constituted by CZA

The Central Zoo Authority has created a Subcommittee on Zoo Education. The committee would work to strengthen the educational component in zoos, persuading various educational departments, universities, colleges, and institutes to include the zoo subject in their curriculum and in their texts. Outreach programmes will also be encouraged. Members of the Committee are Sally Walker, Dunn Karkaria, Representative, Indian Institute for Mass Communications, Representative, Centre for Environmental Education, Representative, Wildlife Institute of India and Member Secretary, CZA. Representatives from other institutions such as UGC, the Ministry of Human Resources Development, NCRT will be called to input and advise as appropriate.