



**Central Zoo Authority  
(Ministry of Environment & Forests)  
Government of India**

**Supporting Scientific Research in Indian Zoos**

**Small Grant Fellowships - for initiating Research Activities at Zoo Level**

*Background*

Due to lack of technical personnel in Indian zoos and keeping in view the existing ban on recruitment of technical and scientific staff in zoos, there has not been any progress towards basic and applied research in field of *ex-situ* conservation and scientific management of animals particularly in the Indian Zoos. Though lot of scientific information is available with the zoos, yet this is not being utilized properly due to lack of proper analysis and inference. There are many issues which can be addressed locally at the zoo level, provided proper scientific/technical help are provided to the zoos, so that they can meet the desired objectives of complementing the *in-situ* conservation efforts as enshrined in the National Zoo Policy.

The Central Zoo Authority shall provide a grant of up to Rs. 2.00 lakhs per year (upto maximum 3 years) for local need based zoo research projects in the field of *ex-situ* conservation and scientific management of animals in Indian zoos. The zoos may appoint fresh postgraduates in the field of wildlife science, veterinary science, zoology and botany to work on project mode on the identified areas of research.

*Who is eligible?*

- Large, Medium and Small Indian Zoos (recognized by the Central Zoo Authority)

*Critical components of the application*

- Impact must be pragmatic, measurable and long lasting
- Funds must be used predominantly in zoos
- The application will not be reviewed unless the application form is filled out in full and three references are provided.
- The project should generally be of approx. 12-36 months duration

*Who/what is generally not eligible?*

- Projects outside the zoos
- Pure research
- Field research
- A conference or seminar

## Notes

15

Filled applications should reach the Central Zoo Authority (CZA) by 30<sup>th</sup> June & 31<sup>st</sup> October for consideration during the financial year, along with the references. The applications will be assessed by the Central Zoo Authority and decisions will be conveyed within six months. The Central Zoo Authority reserves the discretion of requiring interview/presentation if felt absolutely necessary.

The official application form or photocopy thereof must be used and recipients of grants must supply updates of their project during the year in addition to a formal report on completion. The Central Zoo Authority reserves the right to publish these reports partly, fully or in any form in any of its publications or publications of Indian Zoo Directors Association (IZDA) and Association of Indian Zoo and Wildlife Veterinarians (AIZWV) or any other publication deemed fit for the same.

Projects should preferably be of a year's duration although each application is assessed on its own merit and the project length can be flexible.

### *Critical components of the Small Grant Fellowship*

- Must have submitted interim reports on first grant before subsequent instalments of the grant are released.
- Must include a forwarding letter from the Chief Wildlife Warden of the State.
- Where research involves capture and handling of Schedule I animals listed under the Wild Life (Protection) Act, prior permission of the Director, Wildlife Preservation, Government of India and/or Chief Wildlife Warden of the concerned states shall be obtained.
- Must include a detailed budget.



*Member Secretary  
Central Zoo Authority  
Annexe VI, Bikaner House  
Shahjahan Road  
New Delhi 110 011  
Phone: 011-23073072, 23381585  
Fax: 011-23386012  
Email: [cza@ndf.vsnl.net.in](mailto:cza@ndf.vsnl.net.in)  
Website: <http://cza.nic.in>*



# CENTRAL ZOO AUTHORITY

## APPLICATION FOR SMALL GRANT FELLOWSHIP

Please read appendix I for instructions (last page of this document)

Form must be filled in English

Internal Project Number (To be filled in by CZA): .....

"PROJECT RECORD KEEPING"

### 1. GENERAL INFORMATION

Date \_\_\_\_\_ of \_\_\_\_\_ application:

Name of the Zoo / organization: PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK

Contact person/ project leader: DIRECTOR, PNHZP

### 2. CLASSIFICATION OF PROPOSAL

Improvement of the Zoo	Scientific Management	Ex-situ Conservation	Welfare of the animals	Any other, please specify
-	<input checked="" type="checkbox"/>	-	-	-

### 3. DATE OF INITIATION OF THE PROJECT

APRIL 2007

### 4. DURATION OF THE PROJECT:

2 YEARS

### 5. LOCATION OF THE PROJECT.

Region /State : WEST BENGAL

Closest main city : KOLKATTA

**6. STAFF INVOLVED IN PROJECT (please include Curriculum Vitae of the individuals):**

1. Name (+ title) + Zoo/Organization... MR. A. K. JHA, IFS... DIRECTOR.....  
PNH2 Park, DARJEELING.

Period to be spent on the project from: ..... to: ..... (day/month/year/) for .....  
 hours/week  
 Role / Function in the project:

2. Name (+title) + Zoo/Organization: DR. SUNITA PRADHAN  
SCIENTIFIC OFFICER, PNH2P  
DARJEELING.

Period to be spent on the project from: ..... to: ..... (day/month/year/) for .....  
 hours/week  
 Role / Function in the project:

3. Name (+title) + Zoo/Organization:

Period to be spent on the project from: ..... to: ..... (day/month/year/) for .....  
 hours/week  
 Role / Function in the project:

**7. PROJECT PROPOSAL**

**7a. Background and history of the project**

In a Zoo, well documented animal records are fundamental to good and effective management of wildlife in captive facilities. With zoos now taking extremely active role, in *ex-situ* conservation of endangered animals, record keeping of the animals becomes an important and a fundamental component to start with. Stud Book records which have accurate individual and pedigree records are a prerequisite in order to breed animals of known pedigree and minimize inbreeding, in an *ex situ* conservation program. Accurate pedigree records basically aids in minimizing inbreeding and exchange of unrelated healthy animals between different institutions. This is possible and achieved only through proper and accurate records of the specimen's pedigree history. Hence, Stud book record is an integral part of the zoo or zoos participating in the conservation of a target species.

Moreover, if the animal specimen is registered with the International Studbook keeper for their international stud book number, it also allows the identification of animals and their pedigree

within the community participating in the studbook registration. This becomes very helpful in appropriate exchange and cooperation in captive management of the species globally.

Records are also important not only for good management but also in fulfilling a legal requirements like the CITES, during animal transfer and transport from one country to another. Records, such as animal inventory and mortality record have also become basic mandatory requirement to be submitted to the Central Zoo Authority by zoos, annually.

However, in Indian Zoos, record keeping is not taken as a priority nor is there any standardised record keeping system in the National level to provide uniformity of records and information generation. This project looks into these problems to come up a uniform record keeping system in Indian zoos.

---

**7b. Main problem or question**

Despite the importance of animal record keeping in zoos, the problem is that there is no proper record keeping system. Or even if the records are kept, there is every chance of its discontinuity as there is no proper or an organised check system. The problem also is that there is no standardised record keeping system which can later go and be at par with the International record keeping systems like the ZIMS. Therefore, the question is how a systematic, record keeping system can ensue so that maximum information and benefit of the same can be made by the Indian zoos and also they can later be part of the international record keeping system.

---

**7c. Aims and objectives of the project**

The project aims to assess the current record keeping system, to investigate the problems faced in animal record keeping, to categorise zoos based on their capacity of starting a record keeping system, to come up with methods and recommendations for a record keeping system on the lines of the International Record keeping system.

---

**7d Methodology and/or proposed activities (max 300)**

In the first phase, literature survey on record keeping and discussion with zoos abroad would be done. Along with this questionnaires for the record keeping system would be developed and sent to different zoos. Some of the good zoos, with a considerably good record keeping system would be visited.

Thereafter a brainstorming session of experts on the record keeping in Indian Zoos would be organised in a venue to be finalised later by end of the year of year 1.

Finalisation of the record keeping system in Indian zoos would be done and a Report would be written in the second year. Workshops, to discuss and train the zoos staffs from these categories of zoos, on the record keeping system, would be organised. Reports, incorporating the above mentioned activities along with the necessary recommendations would be made.

**8. COLLABORATION (IF ANY): Please specify with which institutions/organisations will collaboration take place and type of the collaboration & support should also be indicated.**

	NAME	LOCATION
NGO's		
Ministries	.....	
Universities	.....	
Research institutes / or any other	....Wildlife Institute of India	
Type of the collaboration and support	...Technical Support...	

**8a. Support from host zoo: (Please specify what support the host zoo will be providing, it could be in the form of laboratory, equipment, space or personnel).**

The host zoo has a Research Unit and would be providing the personnel.

## 9. BASIC TIME SCHEDULE

1<sup>st</sup> year: Questionnaire preparation and distribution to zoos. Visit to Zoos when and where necessary, only. A preliminary brainstorming session of experts.

2<sup>nd</sup> year: Analysis of the information and report writing. Preparation of standardised formats and methods would be done. Workshop to train the zoo staffs would be done.

## 10. OUTPUT

**10a. Describe which output can be expected from this project (reports, (scientific) publications, management plans, educational tools, etc. etc.) and how they will be disseminated.**

Out would be in the form of reports, and record keeping and education tools.

**10b. Describe the (practical) relevance of this project for ex-situ conservation and scientific management of animals in general.**

Animal Records form the basis of scientific management and ex situ conservation. This project would be able to initiate a standardised record keeping system for the Indian Zoo and also train zoos on the use of the records which would have a very practical relevance to management and ex situ conservation. The record

keeping system developed would be on the lines of the International Record keeping system. Once this is achieved, information sharing between zoos would also be possible on a very large extent thereby helping to better the management and *exsitu* programs in captivity.

**10c. Describe how results/output will be evaluated (timelines and benchmarks)**

In the first year, a brainstorm workshop and a preliminary report will be the out put. Second year a report with analysis and a standardised record keeping system and work shops to train the zoo staffs would be the benchmark.

**11. FEASIBILITY (How well is the execution of the project guaranteed? Possible risks such as logistics, permits, other finances and how are these risks dealt with).**

There is a probability of the late and delayed response from zoos to the questionnaires sent. Technical Assistants and Scholar, once taken has to be trained and therefore would take some time. Some of these problems might hamper the stipulated schedules.

**12. FINANCIAL ASPECTS (please include budget overview (in Rs.) in an appendix)**

**Budget attached as appendix I**

**12a. Other financial sources applied for and/or guaranteed**

- In case of Forest Dept./Corporation/Trust: please also mention the details
- Indicate if source is applied for or already guaranteed

2. Name Department / Institute: Self

Address: .....

*None*

Amount applied for or guaranteed:

Rs. \_

3. Name Department / Institute:

.....

Address: .....

*None*

Amount applied for or guaranteed:

Rs. \_

**13. DECLARATION**

The information submitted in this application is true, to the best of my knowledge. Should any significant developments arise after this application is made, I shall notify the Member Secretary, Central Zoo Authority. .

**SIGNATURE**



Director/Curator/  
Officer-In-charge of the Zoo  
(Supervisor of the Research)  
MR. A. K. JHA  
DIRECTOR



Signature:  
Date:  
Seal

Research Project Leader

S. DRADMAN, PHD.  
SC. OFFICER  
PNH2 RAK.



Signature:  
Date:

Chief Wildlife Warden/  
Municipal Commissioner/  
Owner/Zoo Operator

Signature:  
Date:

**Include with the proposal:**

- A curriculum vitae of the applicant and individuals involved in the project
- ✓ Background information about the zoo involved (max. 1 page)
- ✓ Budget overview **ATTACHED AS APPENDIX I**

**Brief Background Information:**

**ATTACHED AS APPENDIX II.**



APPENDIX I

**EXPLANATION TO THE INDIVIDUAL QUESTIONS OF THE FORM 'SMALL GRANT FELLOWSHIP PROPOSAL'**

**Question 1:** Name of the project leader and address.

**Question 2:** Please indicate the duration of the entire proposed project.

**Question 3:** Please write down the /region, state, department in which the project will be or is carried out.

**Question 4:** Please write down the names of the persons involved in the project. If necessary continue on extra sheet. Background information on the involved organizations can be added in an appendix.

**Question 5:** Give a brief background, main question and aims and objectives of the project. Please confine yourself to the maximum number of words.

**Question 6:** Please, mention the collaborating organizations, if any, participating in this project and state the role and responsibilities of the collaborator.

**Question 7:** Provide a basic time schedule for the activities of the project.

**Question 8:** Please give significant outputs which can be expected from this project. Describe the (practical) relevance of this project in ex-situ conservation and scientific management of animals in zoos. Also indicate how the project will be evaluated so it can be decided if the objectives have been met.

**Question 9:** Please specify how well the execution of the project is guaranteed? Possible risks such as logistics, permits, other finances and how are these risks dealt with.

**Question 10:** Please give a detailed budget and a breakup of the financial assistance sought from Central Zoo Authority (include an budget overview in an appendix), the financial sources that are already guaranteed, and other institutions/programmes that have been requested for co-financing the proposed project. Send written proof of contributions already guaranteed.

**Question 11:** This form must be signed by the Head of the institution and the project leader of the project and forwarded through the Chief Wildlife Warden/Municipal Commissioner/Head of the organization.

You may send your completed project proposal by email to [cza@ndf.vsnl.net.in](mailto:cza@ndf.vsnl.net.in) with a copy to [brijkishor68@yahoo.com](mailto:brijkishor68@yahoo.com). A hard copy of the original with signatures & seals and any relevant paper copies (i.e. written proof of other financial sources) should be sent by registered mail to:



*Member Secretary  
Central Zoo Authority  
(Ministry of Environment & Forests)  
Annexe VI, Bikaner House  
Shahjahan Road  
New Delhi 110 011*

Project : Record keeping  
 Duration 2 years  
 Total budget: Rs.40080 (Rupees Four Lakhs eight hundred only)

Year 1

Sl.No.	Items	Budget	Justification
1	Scholar honorarium	96000	The scholar working in the project would be paid Rs. 8000/- as per the UCG norms Rs. 8000/- x 12 = 96000).
2	Computer	40000	This would cost installation of an entire set of computer along with a printer and other needed accessories
3	Internet connection	2000	A broad band connection would be taken for ease of proper communication, and internet search for papers, information
4	Stationary	10000	Costs of paper, CDs, printer ink, along with other stationaries.
5	Preliminary workshop	50000	A preliminary workshop of 8-8 experts would be done.
5	Postage and communication	5000	Would cover the postages, internet, phones and fax charges
	<b>Total</b>	<b>203000</b>	

Year 2

Sl.No.	Items	Budget	Justification
1	Scholar honorarium	100800	Second year, there would be a 5% rise on the honorarium (9400 x 12 = Rs. 100800/-)
2	Stationary	5000	Costs of paper, CDs, printer ink, along with other stationaries.
3	Postage	5000	Would cover the postages, internet, phones and fax charges
4	Books	15000	This would cover purchase of books and softwares
5	Miscellaneous	75000	Would cover other unforeseen expenses and contingencies
	<b>Total</b>	<b>200800</b>	

TOTAL	
Year 1	200000
Year 2	200800
<b>TOTAL for three years</b>	<b>400800</b>

*[Handwritten signature]*