

# Memorandum of Understanding

between

**Central Zoo Authority**  
(under the Ministry of Environment & Forests, Govt. of India)

**Wildlife Institute of India**  
(Autonomous organization under Ministry of Environment & Forests)

and

**University of California, Davis**  
(School of Veterinary Medicine and California Primate Research Centre)

The above mentioned institutions hereby agree to collaborate to pursuing following objectives:

## OBJECTIVES

The overall objective is to establish a programme of inter institution collaboration, research and technological intervention between the CZA, Wil and UCD for developing productive strategies for rhesus population management and reducing human-rhesus conflict.

The overall objective will be addressed by collaboratively investigating human-rhesus interaction and their context. Some of the issues and themes for joint investigation are



Central Zoo Authority  
केन्द्रीय चिड़ियाघर प्राधिकरण



भारतीय वन्यजीव संस्थान  
Wildlife Institute of India

University of California, Davis  
(School of Veterinary Medicine and California  
Primate Research Centre)

This Memorandum of Understanding is made on .....18.05.13..... between the Central Zoo Authority (herein after referred as CZA), Wildlife Institute of India (herein after referred as WII) and University of California Davis, School of Veterinary Medicine and California Primate Research Centre (herein after referred as UCD). (hereinafter collectively referred to as the "participants")

**Whereas Central Zoo Authority**

established in the year 1992, is a statutory body under Ministry of Environment & Forests, Govt. of India having its office at Bikaner House, Annexe VI, Shahjahan Road, New Delhi, with the objective of overseeing the functioning of zoos, to provide necessary technical support and other inputs for management of zoos in the country, and

**Whereas Wildlife Institute of India**

established in the year 1982, is an autonomous organization under of Ministry of Environment & Forests, Govt. of India having its office at Chandrabani, Dehradun, conducts research, offers training program, academic courses and advisory services on matters relating to wildlife conservation in India, and

**Whereas University of California, Davis (School of Veterinary Medicine and California Primate Research Centre)**

is actively engaged in developing effective sustainable population management technologies for human-monkey conflict, behavioural and population management techniques for rhesus macaques and developing social networking analysis methods for population control, translocation for rhesus macaque.

The above mentioned institutions hereby agree to collaborate to pursuing following objectives:

**OBJECTIVES**

The overall objective is to establish a programme of inter institution collaboration, research and technological intervention between the CZA, WII and UCD for developing productive strategies for rhesus population management and reducing human-rhesus conflict.

The overall objective will be addressed by collaboratively investigating human-rhesus interaction and their control. Some of the issues and themes for joint investigation are:

- i. Understanding interdisciplinary post release effects of monkeys sterilization centres on population genetics, zoonosis and behaviour

- ii. To develop and compare contraception agents and methods
- iii. Characterized the dynamics and processes underlying human-rhesus conflict
- iv. Design long term managed care facilities and captive care management protocols for translocated and sterilized rhesus groups
- v. Facilitate new policies on problem animal control
- vi. Developing pilot projects for field trials of population control and rehabilitation measures for rhesus and socio economic and cultural strategies for mitigation of human-rhesus conflicts

## 2. AREAS OF COOPERATION

This Memorandum will facilitate collaboration in research and training of personnel from all the three institutions for the management of human-monkey conflict. The areas of co-operations will include the following:

### Exchange of faculty, research staff and students

- a. All the party will facilitate exchange visits of collaborating faculty members, research staff and students from their institutions. The visitors will comply with the administrative procedures and regulations required by the host institutions.
- b. The institution shall provide support and assistance in securing living accommodation and working space for the visiting faculty, staff and the students.

## 3. NATURE OF AGREEMENT

- i. Collaboration between CZA, WII and UCD may be established within the specific themes as aforesaid and any other related issue.
- ii. Depending on financial needs and practical feasibility, the party shall establish joint research and conservation work. For each programme or project, a separate agreement including work plan, budget and governance structure shall be developed and signed by the competent authority within CZA, WII and UCD and annexed to this Memorandum.

## 4. SCOPE

- i. The scope of collaboration under this MoU will be developed subsequently and annexed.
- ii. This Memorandum of Understanding shall not in any way prejudice or otherwise affect the independent activities of CZA, WII and UCD whether within the jurisdiction of India or otherwise.



## 6. OBLIGATIONS

- i. Within the context of agreed work plans, and available resources, CZA, WII and UCD staff will perform the allocated task and work jointly.
- ii. CZA, WII and UCD will endeavour to raise funds for work under this Memorandum from national and international sources.
- iii. CZA, WII and UCD will assist obtaining necessary permission from their respective legally designated authorities to facilitate research activities/other relevant works to be undertaken under this MoU.
- iv. UCD will provide CZA and WII with copies of all reports and publications arising from work carried out under this memorandum and vice versa, and where appropriate UCD and CZA & WII staff will be co-author.
- v. Press, promotions, publications and other aspects pertaining to intellectual property rights (inventions, patent applications, patents, copyrights, trademarks, trade secrets, and any information embodying proprietary data such as technical data and computer software) should be discussed and agreed to, on mutual terms, prior to these being concluded or disseminated to the general public.

## 7. MECHANISM AND IMPLEMENTATION

- i. Negotiations, implementation, and reporting on the progress concerning the collaboration shall be co-ordinated by:

Member Secretary, Central Zoo Authority  
Bikaner House, Annexe VI, Shahjahan Road,  
New Delhi – 110011 INDIA

Ph.: + 91-11-23381585, 23073072, 23070375

Fax: +91-11-23386012

Email: cza@nic.in

Director, Wildlife Institute of India  
Post Box # 18, Chandrabani  
Dehradun – 248001 Uttarakhand, INDIA

Ph.: +91-135-2640111 to 115

Fax: +91-135-2640117

Email: dwii@wii.gov.in

And

  

Ms. Brenda McCowan, PhD,  
Professor, Population Health & Reproduction  
Behaviour Management Laboratory for Welfare & Conservation  
School of Veterinary Medicine  
Programme, Head, Primate Behaviour Management  
Staff Scientist, Brain Mind & Behaviour Unit  
California National Primate Research Center  
UC Davis, One Shields Ave  
1024 Haring Hall, Davis, CA 95616  
Cell: (530) 219-1857

- ii. Implementation of specific activities under this MoU will be planned and reviewed according to a joint understanding of priorities, funding opportunities, and time-scales.
- iii. Once project have been selected to go ahead, budget proposals and listed outputs will be jointly developed, and progress on each project reviewed against these criteria on a regular basis.
- iv. Issues about specific activities, including rights and obligation of each Party, shall be notified or communicated to the offices mentioned in (7-i) above.

#### 8. **RESOURCES**

CZA, WII & UCD will, in the context of this Memorandum strive to obtain the necessary resources to implement the mutually agreed activities. This will include applications for international funds from aid agencies, conservation groups and research bodies.

#### 9. **COMMENCEMENT, DURATION AND AMENDMENT**

- i. This Memorandum shall commence upon signature by legally competent representatives of the Parties.
- ii. This Memorandum shall remain in force, subject to the provisions for a period of three (3) years, it will be automatically renewable for a further period of three years, and thereafter, renewable for a further similar period by mutual consent and exchange of letters.
- iii. This Memorandum may be amended at any time by the express written consent of the Parties. Such written consent shall be attached as an Annex hereto.

#### 10. **TERMINATION**

- i. Any party may terminate this Memorandum by the serving upon each of the other Parties of six (6) months' written notice of its intention to do so.

- ii. Notice of intention to terminate this Memorandum provided according to this Article herein may be withdrawn prior to its expiry, subject to the mutual consent of the Parties.

**11. FORCE MAJEURE**

No Party shall be liable to any other Party for any delay or non-performance of its obligations under this Memorandum arising from any cause beyond its reasonable control, unless conclusive evidence to the contrary is provided, including, but not limited to, any of the following: Act of God, governmental act, war, fire, flood, explosion, civil commotion or industrial disputes of a third party. Subject to the affected Party promptly notifying the other Parties in writing of the cause and likely duration of the cause, the performance of the affected Party's obligation, to the extent affected by the cause shall be suspended during the period the cause persists. The affected Party shall use its reasonable best efforts to avoid or remove such causes of non-performance and shall quickly continue performance when these causes are removed. When such circumstance arise, the Parties shall discuss what, if any, modification of the terms of this Memorandum may be required in order to arrive at an equitable solution.

**12. DISPUTE RESOLUTION**

In the event of any dispute under this Memorandum, all disputes should be settled through mutual consultation and negotiation.

Signed at NEW DELHI on 15.05.13 in three originals in the English language.

Signed by [Signature] (C. S. BONAL)  
Member Secretary, Central Zoo Authority

Date 15.05.13

Signed by [Signature] C. P. R. S. M. A.  
Director, Wildlife Institute of India

Date 15.5.13

Signed by [Signature] Brenda McCowan  
Professor, Population Health & Reproduction  
Behaviour Management Laboratory for Welfare & Conservation  
School of Veterinary Medicine

Date 15,5,13