



GOVERNMENT OF INDIA
भारत सरकार

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Central Zoo Authority

केन्द्रीय चिड़ियाघर प्राधिकरण



F.No.9-3/2007-CZA(NS)

To

The Director,
Arignar Anna Zoological Park,
Vandalur, Chennai - 600 048,
Tamilnadu

By Post/Email
DATE:12.04.2018

Sub:-Status of research project titled "Population control measures for prolifically breeding animals species" - reg.

- Ref:- (i) This office letter no. 9-3/2007-CZA(NS)/1031/2017 dated 07.06.2017.
(ii) This office letter no. 9-3/2007-CZA(D)/2743/2016 dated 03.10.2016.
(iii) This office letter no. 9-3/2007-CZA(NS)/1090/2016 dated 06.07.2016.
(iv) This office letter no. 9-3/2007-CZA (NS)/612/2016 dated 11.04.2016.
(v) This office letter no. 9-3/2007-CZA (NA)/863 dated 21/22.05.2012.
(vi) This office letter no. 9-3/2007-CZA (M)/1001 dated 22/23.11.2011.
(vii) This office letter no. 9-3/2007-CZA (M) dated 05.05.2011.
(viii) This office letter no. 9-3/2007-CZA(M) dated 20.05.2010.
(ix) This office letter no. 9-3/2007-CZA (M) dated 23.02.2010.
(x) Your office letter no. WL1/299/07 dated 27.01.2010.
(xi) This office letter no. 9-3/2007-CZA (M) dated 29.01.2010.
(xii) This office letter no. 9-3/2007-CZA (M) dated 24.07.2009.
(xiii) This office letter no. 9-3/2007-CZA (M) dated 18.05.2009.
(xiv) This office letter no. 9-3/2007-CZA (M) dated 01.04.2009.
(xv) This office letter no. 9-3/2007-CZA (M) dated 30.12.2008.
(xvi) This office letter no. 9-3/2007-CZA (M) dated 05.08.2008.
(xvii) Your office letter no. 299/WL1/2007 dated 16.06.2008.
(xviii) This office letter 9-3/2007-CZA(N) dated 19.03.2008.

Sir,

The Central Zoo Authority had signed an MoU with the Arignar Anna Zoological Park, Vandalur, Chennai for the above mentioned project to be completed within three years from 02.03.2007 for grant of Rs 6.75 lakhs. As per the MoU, the first installment of grant for an amount of Rs. 3.35 lakhs was released to the Arignar Anna Zoological Park, Vandalur, Chennai on 30.03.2007.

2. To assess the progress in the project, the Central Zoo Authority vide reference (xviii) above has requested the Arignar Anna Zoological Park, Vandalur, Chennai to furnish progress report of the

project up to 31st March, 2008 to the Central Zoo Authority. In response, the Arignar Anna Zoological Park, Vandalur, Chennai submitted the interim brief report of the project vide reference (xvii) above.

3. The progress report of the project has been examined and placed before the 48th Technical Committee meeting of the Central Zoo Authority. The Committee observed that the progress made in the project was very slow. Only Marsh crocodile has been covered so far for the study, whereas lot of other prolific breeding animals (Spotted deer, Sambar, Blackbuck and Lions) were left to be studied. The same has been communicated to the Arignar Anna Zoological Park, Vandalur, Chennai vide reference (xvi) above, with request to cover all the objectives of the project as study is time bound. Further, informed that the 2nd installment of the grant will be released only after receiving comprehensive progress report. However, comprehensive progress report has not been submitted from your end.

4. The Central Zoo Authority repeatedly requested the Arignar Anna Zoological Park, Vandalur, Chennai to submit comprehensive progress report of the project vide references (xv), (xiv), (xiii), (xii) & (xi) above. In response, Arignar Anna Zoological Park, Vandalur, Chennai has submitted the comprehensive report of the project vide reference (x) above.

5. The report submitted by the zoo has been examined at office of the Central Zoo Authority. It was observed that the pace of work towards achieving the objectives as per MoU has been very slow and highly unsatisfactory and unlikely to achieve the objectives of the study in given period of time. The study was designed for developing population controlling measures for Lions, Leopards, Monkeys, Spotted deer, Sambar, Black buck, Nilgai and Marsh crocodile. However, the progress report mentioned the study only for Marsh Crocodile. The observations on the progress report has been communicated to the Arignar Anna Zoological Park, Vandalur, Chennai vide reference (ix) above, with request to achieve all the objectives of the project and re-submit report covering all the items envisaged in MoU. However, no response has been received from your end.

6. The Central Zoo Authority repeatedly requested the Arignar Anna Zoological Park, Vandalur, Chennai to provide detailed report including all aspects of the project as per the MoU vide references (viii), (vii), (vi), (v), (iv) & (iii) above. However, no progress report has been received by the Central Zoo Authority.

7. The status of the Central Zoo Authority sponsored research projects was placed before the Technical Committee, CZA in its 79th meeting held on 24th August, 2016. The Committee decided that the concerned authority should submit the pre-final draft report of the project for review and approval or refund the amount released towards project. The same was communicated to the Arignar Anna Zoological Park, Vandalur, Chennai vide reference (ii) and (i) above. However, no report has been submitted from your end.

8. Since no detail progress report has been received from the Arignar Anna Zoological Park, Vandalur, Chennai, the earlier comprehensive report submitted vide reference (x) above has been re-examined as per the MoU at the office of the Central Zoo Authority. The following observations on the report alongwith the status of the research project was placed before the Technical Committee of the Central Zoo Authority in its 85th Meeting held on 23.03.2018 for deliberation and decision:

The observations on the report with respect to the MoU:

Sl.	Objectives as per MoU Article 1	Work conducted	Remarks
1	<p>Clause (i) The Arignar Anna Zoological Park to carry out a study on population control measures for prolifically breeding animal species by way of carrying out literature survey, application of surgical techniques in both male and female of selected wild animal species (Lions, Leopards, Monkeys, Spotted deer, Sambar, Black buck, Neelgai, Marsh crocodiles etc.) and consulting Veterinary Officials working with the various zoos and Retd. Zoo Veterinary Officials.</p>	<p>The report submitted is only on the population control measures used for male Crocodile species.</p> <p>The literature review related to the following has been reported in the report:</p> <p>Physical restraint and sexing of crocodiles, Blood collection in crocodiles, Hematological parameters in crocodiles, Biochemical parameters in crocodiles, Marking of crocodiles, Behavioural observations, Chemical restraint of crocodiles.</p> <p>The novel technique called ablation of sulcus spermaticus has been used as a surgical technique for six male mugger crocodiles selected at Arignar Anna Zoological Park as a population control measure and the same has not been conducted for the female crocodile.</p> <p>It seems from the report the veterinary officials working with the various zoos and Retd. zoo veterinary officials has not been consulted during the study.</p>	<p>Not carried out</p>
2	<p>Clause (ii) The Arignar Anna Zoological Park shall also assess the health related parameter and parameter on hormonal status pertaining to reproduction and stress.</p>	<p>It seems from the report that the value of haematological parameters and Biochemical parameters has been measured from the healthy male crocodiles only. The reference haematological parameters and Biochemical parameters values for the crocodile shall be included in the report.</p> <p>However, it is mentioned in the report that the comparative haematology and biochemical values of selected crocodiles on pre and post-operative conditions is not included in the present report and will be reported in the subsequent reports as the data on female crocodile is not available.</p> <p>Further, the report also includes behavioural observation - resting in water, resting at land, moving at land, moving at water, gasping, basking etc.</p>	<p>Not carried out</p>

authority. The amount may be deposited to the Central Zoo Authority through RTGS as per the details below:

1	Name of Beneficiary	Member Secretary, Central Zoo Authority
2	Name of Bank	SBI, Pandit Deendayal Antyodaya Bhawan, CGO Complex, New Delhi 110003
3	Account no.	35743814303
4	Branch Code	07837
5	IFSC Code	SBIN0007837
6	MICR	110002131
7	BSR Code	0007837
8	Shift Code	SBININ BB 382

As decided by the Technical committee of the Central Zoo Authority the above mentioned project stands closed.

Yours Sincerely,



(Dr. D.N. Singh)
Member Secretary

Copy for information and necessary action to:

The Chief Wildlife Warden, Government of Tamil Nadu, 1, Jeenis Road, Panagal Building, Saidapet, Chennai – 600 015, Tamil Nadu.