



भारत सरकार
केंद्रीय चिड़ियाघर प्राधिकरण
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय



Government of India
CENTRAL ZOO AUTHORITY
Ministry of Environment, Forest and Climate Change

Date: as per e-sign

कंप्यूटर नंबर /Computer Number: 135034

CIRCULAR

Subject: Advisory on Prevention and Control of Trypanosomiasis and Ehrlichiosis in Zoos and During Animal Exchange Programmes – Implementation of Precautionary and Additional Measures– regarding.

Reference: This office circular Computer no. 135034, dated 22.04.2026.

Madam/ Sir,

This is with reference to Central Zoo Authority Circular Computer No. 135034 dated 22.04.2026 regarding precautionary measures to be undertaken for prevention of Trypanosomiasis and Ehrlichiosis in zoos and during animal exchange programmes (copy enclosed).

2. All zoos, including rescue centres, are hereby directed to implement the precautionary and preventive measures with immediate effect, as circulated vide the aforesaid GZA circular dated 22.04.2026.

3. In view of the above, all Chief Wildlife Wardens and Directors/Curators of recognized zoos are further advised to adopt additional precautionary measures as suggested by the ICAR–Indian Veterinary Research Institute (IVRI), Izatnagar, Bareilly, Uttar Pradesh (copy enclosed).

4. All concerned are requested to strictly adhere to the above measures to prevent such incidences and to ensure the health and safety of captive wild animals.

This for your information and necessary action.

Yours sincerely

(Dr. V. Clement Ben/ डॉ. वी. क्लेमेंट बेन)
Member Secretary/ सदस्य सचिव

Distribution:

1. The Chief Wildlife Warden of all States / UT's.
2. The Director/Officer-in-Charge/Curator, (All the recognized zoos of the country)
3. The Director, ICAR-Indian Veterinary Research Institute, Izatnagar – 243122, Bareilly, Uttar Pradesh, E-mail: directorivri@gmail.com
4. The Principal Scientist and in-charge, Centre for Wildlife, ICAR-Indian Veterinary Research Institute, Izatnagar – 243122, Bareilly, Uttar Pradesh, E-mail: cwlincharge@gmail.com
5. The DPA, O/o CZA – to upload on official website of the CZA.

B-1Wing, 6th Floor, Pt. Deendayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110 003
Tel: +91-11-24367846/51/52/E-mail: cza@nic.in



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CIRCULAR

Subject: Advisory on Prevention of Trypanosomiasis and Ehrlichiosis in Zoos and During Animal Exchange Programmes– regarding.

Madam/ Sir,

It has been brought to the notice of the Central Zoo Authority (CZA) regarding the incidence of Trypanosomiasis and Ehrlichiosis in a captive Asiatic Lion at Indira Gandhi Zoological Park (IGZP), Visakhapatnam, which resulted in the death of the animal during the quarantine period. The animal was brought under the animal exchange program from Assam State Zoo cum Botanical Garden, Assam.

2. Trypanosomiasis is a haemoprotozoan parasitic disease caused by *Trypanosoma* spp., transmitted primarily through biting flies, leading to anaemia, weakness and, in severe cases, death. Ehrlichiosis is a tick-borne bacterial disease caused by *Ehrlichia* spp., affecting white blood cells and resulting in fever, lethargy, bleeding disorders and immunosuppression.

3. In view of the above, all Chief Wildlife Wardens and Directors/Curators of recognized zoos are advised to take the following precautionary measures, especially in the context of animal exchange programmes:

- a. **Strict Quarantine Protocols:** Ensure mandatory quarantine of all incoming animals with thorough clinical examination and diagnostic screening for haemoprotozoan and tick-borne diseases.
- b. **Disease Screening:** Conduct RT-PCR/serological tests for Trypanosomiasis, Ehrlichiosis and other relevant diseases prior to and after translocation of animals.
- c. **Vector Control Measures:** Implement effective control measures against biting flies and ticks within zoo premises, including regular spraying, habitat management and sanitation.
- d. **Health Monitoring:** Undertake continuous health monitoring of animals during quarantine and post-release into enclosures.

- e. **Veterinary Preparedness:** Ensure availability of necessary diagnostic facilities and veterinary expertise for early detection and prompt treatment.
- f. **Record Maintenance:** Maintain detailed health records of animals involved in exchange programmes.
- g. **Coordination with Institutes:** Seek technical guidance and assistance, if required, from ICAR–Indian Veterinary Research Institute (IVRI), Bareilly, Uttar Pradesh and other reputed veterinary institutions.

4 . The earlier circulars issued by this office in this regard are also enclosed with this circular for ready reference.

5. All concerned are requested to strictly adhere to the above measures to prevent such incidences and ensure the health and safety of captive wild animals.

This for your information and necessary action.

Yours sincerely

(**Dr. V. Clement Ben/ डॉ. वी. क्लेमेंट बेन**)
Member Secretary/ सदस्य सचिव

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1. Risk Assessment & Quarantine Protocols

- Mandatory pre-transfer health certification for all animals.
- Quarantine period: minimum 21–30 days for all incoming animals.
- During quarantine:
 - Daily clinical observation (temperature, appetite, behavior).
 - Screening for hemoparasites using:
 - Blood smear (initial screening)
 - PCR (preferred for sensitivity and early detection)
- Animals should only be introduced after negative results and clinical clearance.

2. Chemoprophylaxis

a. Trypanosomiasis Prevention

- Quinapyramine prosalt (Antrycide):
 - Dose: 0.25 ml/10 kg SC every 3 months
 - Use cautiously:
 - Avoid overdosing (narrow safety margin).

b. Ehrlichiosis Prophylaxis

- Doxycycline:
 - Dose: 2.5–5 mg/kg twice daily (BD) for 7–14 days
 - Indicated for:
 - Contact animals
 - High-risk introductions (tick exposure history)

3. Integrated Vector Management:

- Acaricide application (sprays/dips/pour-ons)
- Environmental sanitation:
 - Remove stagnant water, dung heaps, organic waste
- Habitat modification:
 - Reduce tick harboring vegetation
- Physical barriers:
 - Insect-proof enclosures, screens, netting
- Use of traps (fly traps, tick drags)
- Rotation of insecticides to prevent resistance

4. Supportive Health Measures

- Liver tonics (to counter drug stress and chronic infection effects)
- Vitamin B-complex supplementation supports hematopoiesis and recovery from hemoparasitic stress
- Maintain optimal nutrition to improve host immunity

5. Routine blood screening (quarterly or biannually depending on risk)