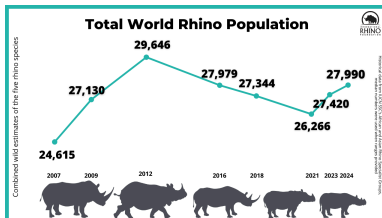




23 September 2024

National and International News

World Rhino Day



Context:

- Celebrated on **September 22** to raise awareness about rhinoceros conservation.

Key points:

- Species all over the World
  - **White Rhino**
  - **Black Rhino**
  - **Greater One-Horned**
  - **Javan**
  - **Sumatran Rhino**
- With all five species combined, there are just under **28,000 rhinos left in the world.**
- **India and Nepal** have estimated over 4,014 rhinos, with major populations residing in **Kaziranga National Park.**
- The greatest threats to rhinos are **poaching, habitat loss,** and for some species, isolated small populations unable to reproduce.

STATE OF THE RHINO 2024



INTERNATIONAL RHINO FOUNDATION

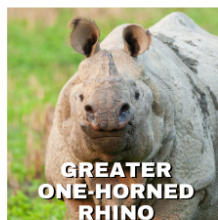


**WHITE RHINO**  
*Ceratotherium simum*



IUCN Estimated Population:  
**17,464**

IUCN Status:  
**NEAR THREATENED**



**GREATER ONE-HORNED RHINO**  
*Rhinoceros unicornis*



IUCN Estimated Population:  
**4,014**

IUCN Status:  
**VULNERABLE**



**BLACK RHINO**  
*Diceros bicornis*



IUCN Estimated Population:  
**6,421**

IUCN Status:  
**CRITICALLY ENDANGERED**



**JAVAN RHINO**  
*Rhinoceros sondaicus*



Estimated Population:  
**~50**

This estimate subtracts the 26 poached rhinos reported by Indonesian authorities from IUCN's last estimate of 76 Javan rhinos.  
IUCN Status:  
**CRITICALLY ENDANGERED**



**SUMATRAN RHINO**  
*Dicerorhinus sumatrensis*



IUCN Estimated Population:  
**34-47**

IUCN Status:  
**CRITICALLY ENDANGERED**

rhinos.org




Daily Current Affairs Encyclopedia

<p><b>Fast Track Immigration Trusted Traveller Programme (FTI-TTP)</b></p>	<p><b>Context:</b></p> <ul style="list-style-type: none"> <li>In September 2024, the MHA expanded this initiative to <b>21 major airports</b> across India, including key airports in Mumbai, Chennai, Kolkata, Bengaluru, Hyderabad, Cochin, and Ahmedabad.</li> </ul> <p><b>About:</b></p> <ul style="list-style-type: none"> <li>The <b>Union Ministry of Home Affairs (MHA)</b> has launched the <b>Fast-Track Immigration-Trusted Traveller Programme (FTI-TTP)</b> to enhance the immigration process for Indian nationals and Overseas Citizen of India (OCI) cardholders.</li> <li>Initially implemented at <b>Delhi's Indira Gandhi International (IGI) Airport</b> in June 2024, the programme aims to provide faster, more efficient, and secure immigration clearances by allowing eligible travelers to use e-gates.</li> <li>This allows them to bypass regular immigration queues, providing a smoother travel experience.</li> <li>This programme is one of the key initiatives introduced during the first 100 days of the <b>Modi 3.0 government</b>, reflecting its focus on technological advancements and infrastructure development in the aviation sector.</li> </ul>
<p><b>Criticality of a Nuclear Reactor</b></p>	<p><b>Context:</b></p> <ul style="list-style-type: none"> <li>The third indigenous <b>700 MWe Pressurised Heavy Water Reactor (PHWR) at Rajasthan Atomic Power Project (RAPP)</b>, Rawatbhata, achieved criticality on September 19, 2024.</li> </ul> <p><b>Key points:</b></p> <ul style="list-style-type: none"> <li>Criticality is a significant phase indicating the <b>start of a controlled fission chain reaction</b>, marking the end of construction and the <b>start of operational tests</b>.</li> </ul> <p><b>Nuclear Reactor:</b></p> <ul style="list-style-type: none"> <li>A nuclear reactor is a critical component of a nuclear power plant, where <b>controlled nuclear fission reactions occur to produce energy</b>.</li> <li>Nuclear reactors operate on the principle of nuclear fission, where <b>heavy atomic nuclei (commonly uranium-235 or plutonium-239)</b> split into smaller fragments upon absorbing a neutron.</li> </ul> <p><b>Nuclear Fission:</b></p> <ul style="list-style-type: none"> <li>Nuclear fission is the process by which a heavy atomic nucleus, such as <b>uranium-235 or plutonium-239</b>, splits into two smaller nuclei along with the release of a significant amount of energy.</li> <li>This process is fundamental to both nuclear power generation and nuclear weapons.</li> </ul>
<p><b>Exercise AIKYA</b></p>	<p><b>Context:</b></p>



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	<ul style="list-style-type: none"> <li>"EXERCISE AIKYA" is a significant <b>disaster management exercise</b> organized by the <b>National Disaster Management Authority (NDMA)</b> in collaboration with the <b>Southern Command of the Indian Army</b> and the Tamil Nadu State Disaster Management Authority (TNSDMA).</li> </ul> <p><b>About:</b></p> <ul style="list-style-type: none"> <li>"AIKYA" means "Oneness" in <b>Tamil</b>, reflecting the exercise's goal to unify India's disaster management efforts.</li> </ul> <p><b>Focus Areas:</b></p> <ul style="list-style-type: none"> <li>Simulated emergency situations to assess roles and responsibilities.</li> <li>Discussed recent disaster trends and lessons learned from recent operations.</li> <li>Addressed disasters such as tsunamis, landslides, floods, cyclones, industrial incidents, and forest fires.</li> </ul>
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<p><b>Europa Clipper Mission</b></p> 	<p><b>Context:</b></p> <ul style="list-style-type: none"> <li>NASA's Europa Clipper Mission is scheduled for launch on <b>October 10, 2024</b>.</li> </ul> <p><b>About:</b></p> <ul style="list-style-type: none"> <li>The mission aims to explore <b>Jupiter's icy moon Europa for potential signs of habitability</b>.</li> <li>Europa is considered one of the most promising locations to find conditions for life beyond Earth.</li> </ul> <p><b>Key Focus:</b></p> <ul style="list-style-type: none"> <li>The spacecraft will investigate whether Europa's icy surface hides a subsurface ocean, which may harbour life-supporting conditions.</li> <li>The mission will use scientific instruments to estimate the <b>thickness of Europa's ice shell and study its surface for geological activity</b>.</li> </ul> <p><b>Launch Details:</b></p> <ul style="list-style-type: none"> <li><b>Launch vehicle:</b> SpaceX Falcon Heavy from Kennedy Space Center, Florida.</li> <li><b>Distance to cover:</b> 1.8 billion miles (2.9 billion km).</li> <li>The spacecraft will arrive at <b>Jupiter by April 2030</b>.</li> </ul> <p><b>Challenges:</b></p> <ul style="list-style-type: none"> <li><b>Intense radiation</b> around Jupiter is a major challenge.</li> <li>The spacecraft will face radiation levels equivalent to <b>millions of chest X-rays during each flyby</b>.</li> <li>The mission will follow a <b>trajectory designed to minimize radiation exposure</b>.</li> </ul> <p><b>Duration and Scientific Goals:</b></p>
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- The mission will last **4 years** and conduct **49 flybys** of **Europa**.
- It will search for organic compounds and study the moon's environment but will not directly search for life.

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