



## Rapid Fire Current Affairs

### Meta's New AI model can Translate & Transcribe Nearly 100 Languages

Meta has developed an [AI model](#) known as **SeamlessM4T**, capable of **translating** and **transcribing** in over **100 languages**, both in **text** and **speech**. It's the pioneering **all-in-one multilingual** and **multimodal AI tool** for **translation** and **transcription**.

- **Meta's goal** is to **elevate interconnectedness** by granting users access to a broader array of **multilingual content**.
- It also **supports speech-to-speech translation in around 100 input languages and around 35 output languages, including English**.
  - This unified approach of **SeamlessM4T** minimizes **errors and delays, enhancing the efficiency and quality of translation processes**.
- Meta's **text-to-text machine translation model**, known as **No Language Left Behind (NLLB)**, supports approximately **200 languages**. Notably, **NLLB** has been integrated into **Wikipedia** as one of its translation providers.

Read more: [The Future of Metaverse and AI](#)

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### Rare Black Eagle Spotted at Chail Wildlife Sanctuary

A **rare black eagle** has been sighted for the **first time** in **Chail wildlife sanctuary** located in the **Solan district, Himachal Pradesh**. This specific type of black eagle has been observed in the **Chamba region** on prior occasions.



- This eagle is part of the **Accipitridae family** and stands as the sole member of the **Ictinaetus genus**.
- They are notable for their substantial size and unique characteristics, often seen in **forested mountainous and hilly regions**.
  - They are found in the Indian states of **Himachal Pradesh** and **Jammu & Kashmir**, as well as in the **forests of the Eastern and Western Ghats in peninsular India**.
- As per the [IUCN](#), their **conservation status** is categorised as "**Least Concern**".
- The **Chail Wildlife Sanctuary** is home to a variety of animals, including [rhesus macaques](#), [leopards](#), **Indian muntjacs**, **gorals**, **porcupines**, **wild boars**, [langurs](#), and **Himalayan black**

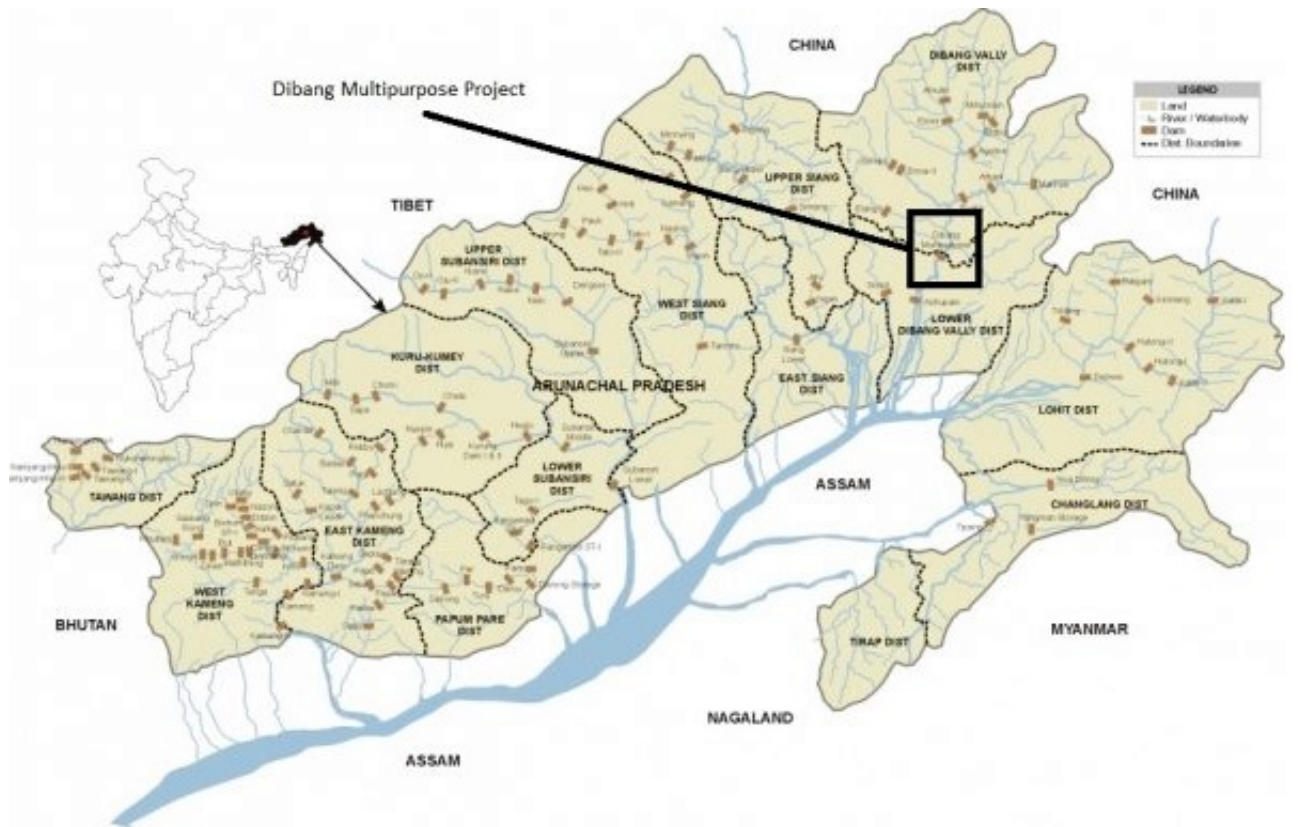
bears. It has contributed to the preservation of several [endangered species](#) of reptiles and birds.



## Dibang Multipurpose Project

**NHPC Limited**, India's premier **hydropower company**, has signed an **MoU** with **RITES**, a **Miniratna Schedule 'A' Central Public Sector Undertaking** under the **Ministry of Railways**, for construction of railway siding at Pasighat, Arunachal Pradesh, for **NHPC's 2,880 MW Dibang MultiPurpose Project**.

- Leveraging its core strength, **RITES** will provide comprehensive and efficient solutions for developing **rail infrastructure facilities** for **NHPC Dibang** and other upcoming projects in **Arunachal Pradesh**.
- **Dibang Multipurpose Project** is a **flood control cum hydroelectric power project** planned to be developed on the **Dibang River**, a tributary of **Brahmaputra River**, in Arunachal Pradesh.
- It is being developed by India's state-run **National Hydroelectric Power Corporation (NHPC)**.



Read More: [Dibang Hydel Project](#)

## Hubble Space Telescope Captures Image of Irregular Galaxy

- The [Hubble Space Telescope](#) has captured an image of the **irregular galaxy ESO 300-16** located at a distance of **28.7 million lightyears** in the **southern constellation of Eridanus**.
  - **Irregular galaxies** do not have a **clearly defined shape**, and appear as **diffuse clouds**. **A bubble of bright, blue gas** is visible towards the galaxy core
  - **ESO 300-16** was captured as part of an **imaging campaign** known as **Every Known Nearby Galaxy**, which aims to create a complete inventory of **Hubble images** of **all galaxies** within **10 megaparsecs** of the **Earth**, or **32.6 million lightyears**.
    - Even the distance that **light travels** in a year is not convenient for measuring **astronomical distances**, which is why astronomers use **parsecs**.
    - **One parsec** is equal to **3.26 lightyears**, or **30.9 trillion kilometers**. A **megaparsec** is one **million parsecs**.
- The **Every Known Nearby Galaxy campaign** aims to capture the remaining **25%** of the **galaxies**. **Hubble** has previously captured the **lenticular galaxy NGC 6684** and the **irregular dwarf galaxy NGC 1156** as part of the campaign.



Read More: [Hubble Space Telescope](#)

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