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## Uttar Pradesh Government Defence Deals | Uttar Pradesh | 08 Jul 2024

### Why in News?

Recently, the **Uttar Pradesh** government has signed more than **154 defence manufacturing deals worth Rs 25,000 crore.**

### Key Points

- According to the Ministry of Defence (MoD), **India's annual defence production is Rs 1.27 trillion in 2023-24 (FY24)**, which is 16.7% higher than 2023.
- The defence projects are coming up in the mega **UP Defence Industrial Corridor (UPDIC)** spanning six nodes of **Lucknow, Kanpur, Jhansi, Aligarh, Chitrakoot and Agra districts.**
  - The Corridor's nodal agency **UP Expressway Industrial Development Authority (UPEIDA)** has **signed 154 Memorandums of Understanding (MoUs) with different companies** such as **Adani Defence and Aerospace, BrahMos Aerospace, Defence Research & Development Organisation (DRDO)**, etc.
- Uttar Pradesh is actively promoting defence manufacturing to drive its 'Make in UP' initiative.
  - The state aims to leverage its extensive **Micro, Small and Medium Enterprises (MSME)** base to catalyze this effort
- A total of 35,000 **Kalashnikov AK-203 assault rifles**, assembled at the **Korwa factory in Amethi district of Uttar Pradesh**, have been given to the Indian Army by the **Indo-Russia Rifles Private Limited joint venture.**
- Another **Indo-Russia joint venture plant is coming up in Lucknow** to manufacture **BrahMos missiles** for the Indian defence forces.
  - BrahMos is a **joint venture between India's Defence Research and Development Organisation (DRDO) and Russia's NPOM (Non-Profit Organisation Mashinostroyeniya)** to develop next-generation **supersonic missiles** for the Indian forces.

### Uttar Pradesh Defence Industrial Corridor (UPDIC)

- It is an **aspirational project that intends to reduce foreign dependence** on the Indian **Aerospace & Defence Sector.** It was **inaugurated in 2018.**
- The **Uttar Pradesh Expressways Industrial Development Authority (UPEIDA)** was made the **nodal agency to execute this project** in conjunction with various other state agencies.

### The Uttar Pradesh Expressways Industrial Development Authority (UPEIDA)

- It is an **authority set up in 2007 by the Government of Uttar Pradesh to develop expressway projects in the state.**
  - The headquarters of UPEIDA is **located at Paryatan Bhawan in Gomti Nagar, Lucknow.**
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## Earthquake in Chamoli | Uttarakhand | 08 Jul 2024

### Why in News?

Recently, an [Earthquake](#) hit the **Chamoli region of Uttarakhand** with its [epicentre](#) near the town of [Joshimath](#).

### Key Points

- According to the [National Center for Seismology](#), the earthquake had a **magnitude of 3.5 on the Richter scale** and came amid heavy rainfall and landslides in the region.

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# EARTHQUAKE



## ABOUT

- Shaking of the earth; caused due to release of energy, generating **seismic waves in all directions**

## HYPOCENTER

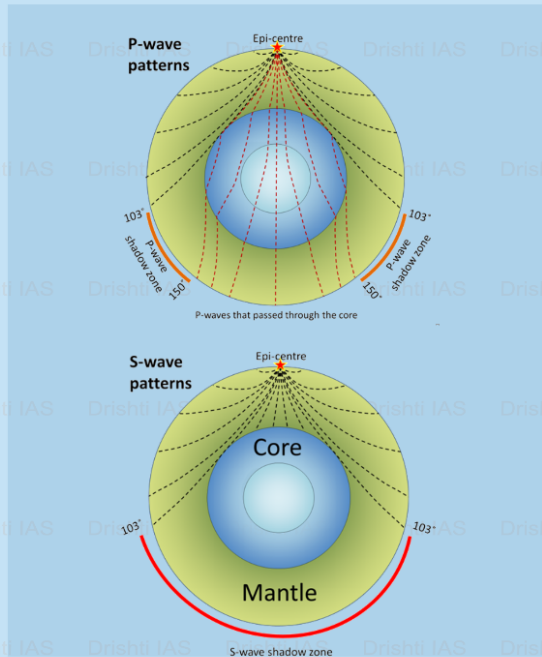
- Location where the earthquake starts (below earth's surface)

## EPICENTER

- Location right above the Hypocenter (on the earth's surface)

## EARTHQUAKE WAVES

- Body Waves:** Move in all directions travelling through the body of the earth
  - P Waves:** Move faster, First to arrive at surface, Similar to sound waves, Travel through gaseous, liquid and solid materials
  - S Waves:** Arrive at surface with some time lag, Travel only through solid materials
- Surface Waves:** Last to report on seismographs, More destructive, Cause displacement of rocks
  - Love Waves:** Same motion as S-waves (horizontal) without vertical displacement, Sideways motion perpendicular to the direction of propagation, Faster than Rayleigh waves
  - Rayleigh Waves:** Cause the ground to shake in an elliptical pattern, Spread out the most of all seismic waves, Move vertically and horizontally in a vertical plane



## CAUSES OF EARTHQUAKES

- Release of energy along a **Fault/Fault Zones** (break in the crustal rocks)
- Movement of **tectonic plates (most common)**
- Volcanic eruption** (stress changes in rock-injection/withdrawal of magma)
- Human activities** (mining, explosion of chemical/nuclear devices etc.)

## EARTHQUAKE IN INDIA

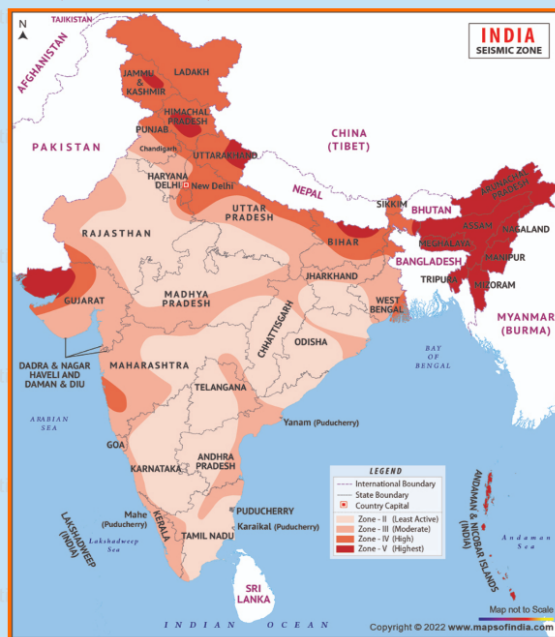
- India is **one of the highly earthquake affected countries** due to the presence of technically active mountains - the Himalayas.
- India has been divided into **4 seismic zones (II, III, IV, and V)**

## MEASURING EARTHQUAKE

- Seismometers** - Measures seismic waves
- Richter Scale** - Measures magnitude (energy released; range: 0-10)
- Mercalli** - Measures intensity (visible damage; range: 1-12)

## DISTRIBUTION

- Circum-Pacific Belt** - 81% of earthquakes
- Alpide Earthquake Belt** - 17% of the largest earthquakes
- Mid-Atlantic Ridge** - Mostly submerged underwater



## Joshimath

- Joshimath is a hilly town located on the [Rishikesh-Badrinath National Highway \(NH-7\)](#) in **Chamoli district of Uttarakhand**.
  - The city serves as a **tourist town as it acts as an overnight rest stop for people visiting [Badrinath](#), [Auli](#), [Valley of Flowers](#), and [Hemkund Sahib](#)**, among other important **religious and tourist locations** in the state.
  - Joshimath is also of great strategic importance to **the Indian armed forces and is home to one of the Army's** most important cantonments.
  - The town (fall in [high-risk seismic Zone-V](#)) is traversed by running streams with a high **gradient from Vishnuprayag, a confluence of the [Dhauliganga](#) and the [Alaknanda rivers](#)**.
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## Char Dham Yatra Halted | Uttarakhand | 08 Jul 2024

### Why in News?

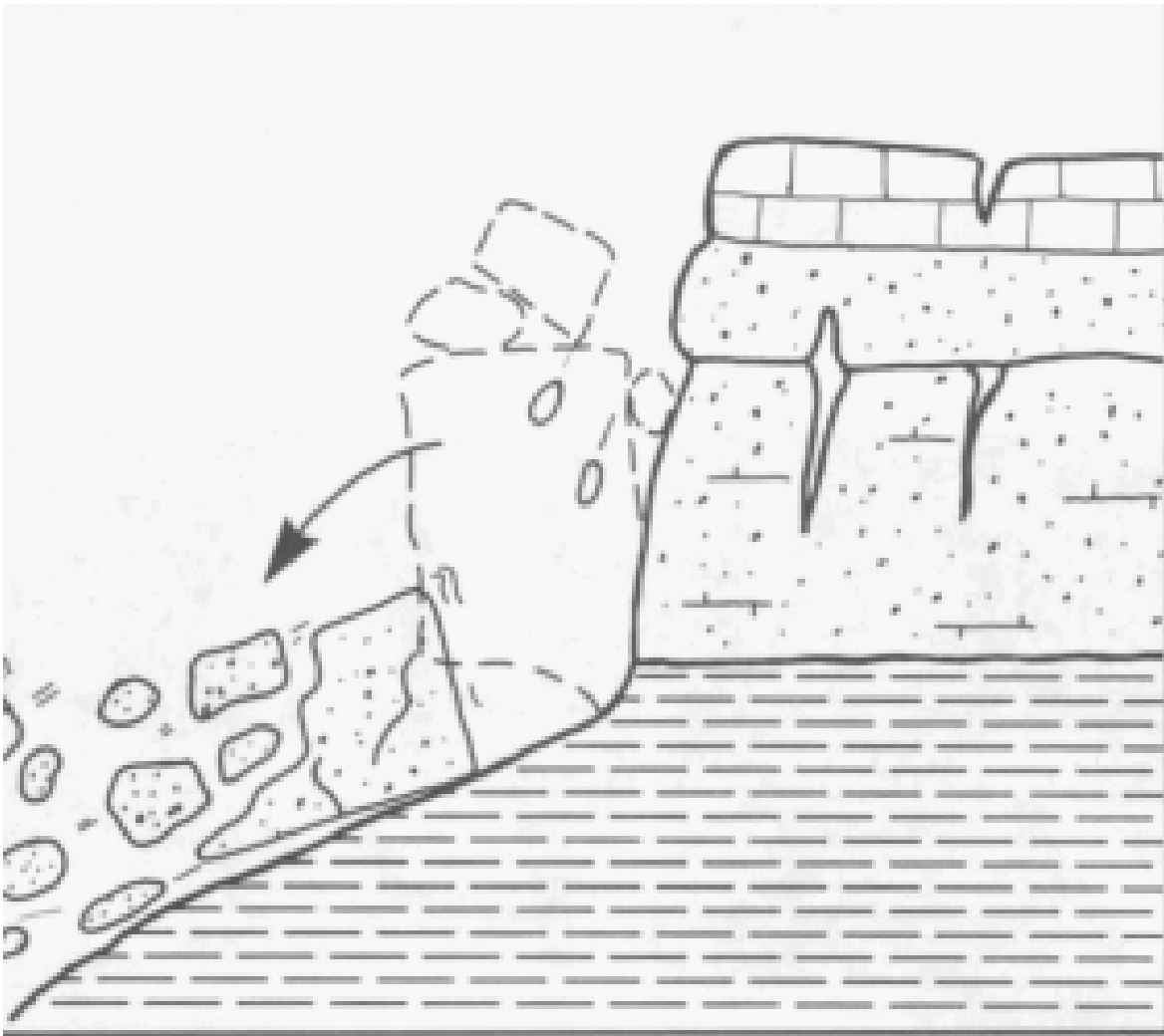
- The [Char Dham yatra](#) has been **temporarily halted for two days due to a heavy rain** warning issued by the [Regional Meteorological Centre](#).

### Key Points

- Heavy rain has triggered [landslides](#), blocking over 100 roads, including major National Highways.

### Landslide





- A landslide is defined as the **movement of a mass of rock, debris, or earth down a slope.**
- They are a **type of mass wasting**, which denotes any downward movement of soil and rock under the direct influence of gravity.
- The term landslide encompasses **five modes of slope movement: falls, topples, slides, spreads, and flows.**

## Char Dham Yatra



- **Yamunotri Dham:**
  - **Location:** Uttarkashi district.

- **Dedicated to:** Goddess Yamuna.
- **River Yamuna** is the **second-most sacred river in India** after River Ganga.
- **Gangotri Dham:**
  - **Location:** Uttarkashi district.
  - **Dedicated to:** Goddess Ganga.
  - Considered the **most sacred of all Indian rivers.**
- **Kedarnath Dham:**
  - **Location:** Rudraprayag district.
  - **Dedicated to:** Lord Shiva.
  - Situated on the bank of the **Mandakini River.**
  - One of the **12 Jyotirlingas (divine representations of Lord Shiva) in India.**
- **Badrinath Dham:**
  - **Location:** Chamoli district.
  - Home to the sacred **Badrinarayan Temple.**
  - **Dedicated to:** Lord Vishnu.
  - One of the **holy shrines for Vaishnavites.**

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## Chhattisgarh to Promote Local Languages in Schools | Chhattisgarh | 08 Jul 2024

### Why in News?

Recently, The Chhattisgarh government has decided to **include local language and dialects in the primary education curriculum** in order to ensure inclusive and quality education.

### Key Points

- It is a big decision towards implementing [National Education Policy \(NEP\) 2020](#) in tribal areas.
- Chhattisgarh Chief Minister Vishnu Deo Sai had directed the education department to **develop and distribute bilingual books in 18 local languages and dialects**, with focus on providing high-quality educational resources.
  - A special emphasis has also been placed on **vocational education**, with plans to **enhance skill development programmes in these areas.**
  - **Local dialects include the Sadi language**, which could be introduced for **primary education in tribal-predominated Jashpur district.**
- The **three-language formula in NEP 2020** mandates that **every student in India should learn three languages** - two of which must be native Indian languages, including one regional language, and the third being English.
  - It **aims to strengthen national integration** by exposing students to different cultures and languages while fostering respect for linguistic diversity.
- **Shala Praveshotsav** is **celebrated in Raipur at the beginning of the new academic session** to encourage children to enroll in schools.
  - The state-level **Shala Praveshotsav 2024** was **inaugurated in Bagiya village of Jashpur**, a remote tribal district of Chhattisgarh.

### National Education Policy 2020

- The **National Education Policy 2020** seeks to tackle the evolving development needs of India.
- It calls for a **comprehensive overhaul of the education system**, including its **regulations and management**, to establish a modern system that aligns with 21st-century educational goals,

including [Sustainable Development Goal 4 \(SDG4\)](#), while respecting **India's cultural heritage and values**.

- It replaces the thirty-four year old [National Policy on Education, 1986, modified in 1992](#) (NPE 1986/92).

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## Saplings Planting Drive in Madhya Pradesh | Madhya Pradesh | 08 Jul 2024

### Why in News?

Recently, **Madhya Pradesh** Chief Minister Mohan Yadav launched the '**Ek Ped Maa Ke Naam**' campaign under which **5.5 crore saplings will be planted in the state**.

### Key Points

- The CM **started the campaign by planting** an 'amla' sapling in the name of his late mother.

### Tree Transplantation

- **Tree Transplanting or replanting** is the process of **relocating a plant** from one site to another in an **agricultural field or garden**.
- **Tree transplants** allow plants to have longer **growing seasons**.
  - Plants can be [cultivated indoors](#) at first, then **outside** if the weather conditions are suitable.
- **Tree spade machine** is a specialized kind of machine that mechanizes the transplanting of large plants.
  - Larger trees may require digging, wrapping or boxing of the root ball and then transporting by truck.
- **In October 2020, the Delhi government approved a tree transplantation policy** to prevent felling of trees due to development work in the city.
  - Under the policy, agencies concerned have been asked to transplant 80% trees affected by the projects to a new location.
  - Under this policy, 10 saplings are supposed to be planted in addition to the tree being dug up with the root intact and scientifically transplanted at another location instead of being felled.

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## Workers Trapped in Floodwaters in Bihar | Bihar | 08 Jul 2024

### Why in News?

According to the sources, around **150 workers are trapped in floodwaters** in Bagaha, Bihar due to [heavy rainfall](#).

## Key Points

- The [State Disaster Response Force \(SDRF\)](#) has rescued about 40 of the 150 stranded workers, including elderly, women, and children.
- According to the Water Resources Department, major rivers, including [Kosi](#), [Mahananda](#), [Bagmati](#), [Gandak](#), [Kamla Balan](#), and [Kamla](#), are above the danger mark.

## Kosi River



- The **Kosi** is a **trans-boundary river** which flows through **Tibet, Nepal and India**.
- It has its **source in Tibet** that includes the **world's highest upland**, it then **drains a large part of Nepal before emerging onto the Gangetic plains**.
- Its **three major tributaries, the Sun Kosi, Arun and Tamur** meet at one point just upstream of a 10 km gorge cut through the [Himalayan foothills](#).
- The river crosses into **northern Bihar**, where it branches into distributaries before joining the **Ganges near Kursela in Katihar district**.
- The Kosi carries **the maximum amount of silt and sand after the Brahmaputra in India**.
- It is also known as the **“Sorrow of Bihar”** as the annual floods affect about 21,000 sq. km. of fertile agricultural lands thereby disturbing the rural economy.

## Mahananda River



- Mahananda river is a **tributary of the Ganga**.
- It **originates from the Himalayas in Darjeeling, West Bengal**.
- The river **flows through Bihar, West Bengal**, and then continues southeastward to join the Ganga at Godagari in Bangladesh.

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