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## Bihar's Annual Flood Crisis | Bihar | 04 Oct 2024

### Why in News?

Bihar faces devastating [floods](#) every year due to its unique geography and decades-old [flood](#) control methods.

### Key Points

- **Flood-Prone Nature of Bihar**
  - Bihar is India's most flood-prone state, with **76% of North Bihar's** population affected.
  - The region is crisscrossed by both [snow-fed and rain-fed rivers](#), increasing flood risk.
  - Bihar is located below **Nepal**, with [Himalayan rivers](#) ([Kosi](#), [Gandak](#), [Bagmati](#)) flowing into the state.
  - These rivers carry high sediment loads due to loose Himalayan soil, leading to overflow during heavy rains.
- **Impact of Embankments:**
  - Embankments along rivers like **Kosi were built in the 1950s** to control flooding.
  - Embankments narrowed river channels, leading to sediment buildup and higher riverbeds, making the rivers more prone to overflow.
  - [Kosi](#), known as the "**sorrow of Bihar**," floods annually despite embankments.
- **Recent Flooding (2024):**
  - Heavy rainfall and Nepal's release of water from the **Kosi barrage** led to severe floods in **North Bihar**.
  - Embankments have breached in several districts, **affecting 11.84 lakh people**.
  - The **Birpur barrage** released **6.6 lakh cusecs of water**, the highest in six decades.
- **Economic and Social Impact:**
  - Flooding results in crop loss, livestock destruction, damage to infrastructure, and forced migration.
  - Bihar government spends **Rs 1,000 crore annually on flood relief and management**.
- **Proposed Solutions:**
  - **Structural:** Proposals for dams and additional barrages on Kosi and other rivers.
  - **Non-structural:** Enhancing flood warnings, improving reaction times, public awareness, and training to mitigate flood effects.



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## Kashmir on the Verge of a New Era: GOC 15 Corps | Jammu & Kashmir | 04 Oct 2024

### Why in News?

Recently, Lt Gen Rajiv Ghai, [General Officer Commanding \(GOC\) 15 Corps](#), reflects on the evolving security situation and development in [Kashmir](#), outlining challenges and future prospects.

### Key Points

- **GOC (General Officer Commanding) 15 Corps:**
  - The GOC 15 Corps is the commanding officer of the **Indian Army's [Chinar Corps](#)**, responsible for overseeing military operations in the **Kashmir Valley and parts of Jammu and Kashmir**.
  - The Corps plays a crucial role in [counter-insurgency](#), border security, and maintaining peace in the region.
- **Recent Developments in Kashmir:**
  - Kashmir is at the cusp of a "**new beginning**," with significant development and a stable security situation over the past year and a half.
  - Security forces, including **Chinar Corps, J&K Police, and [CAPFs](#)**, have worked together to maintain peace and stability.
  - No new militant recruitment in the **last 18 months**; active militant numbers have decreased to approximately 80.
  - The success of a robust [counter-insurgency campaign](#) has reduced terrorism-related

incidents significantly.

- Modern technology, including **AIOS (Automated Integrated Operating Systems)**, has been employed to prevent cross-border infiltration.

▪ **Challenges:**

- Maintaining the current peaceful and stable situation remains the biggest challenge for security forces.
- The security grid, including counter-infiltration and counter-terrorism measures, must be sustained to consolidate peace in the coming years.

▪ **Way Forward:**

- **Strengthening Intelligence and Surveillance:** Enhancing real-time intelligence sharing and deploying advanced surveillance technologies will help security forces anticipate and prevent potential threats, reducing the risk of infiltration and terrorism.
- **Community Engagement and Capacity Building:** Building trust with local communities through development initiatives, social outreach, and improved governance can foster cooperation, making counter-terrorism efforts more effective while ensuring long-term stability in the region.

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## "Radio Man of India" Sets Record | Uttar Pradesh | 04 Oct 2024

### Why in News?

**Ram Singh Boudh** from Uttar Pradesh sets a **Guinness World Record** with his unique radio collection, preserving the legacy of radios.

### Key Points

▪ **World Record Radio Collection:**

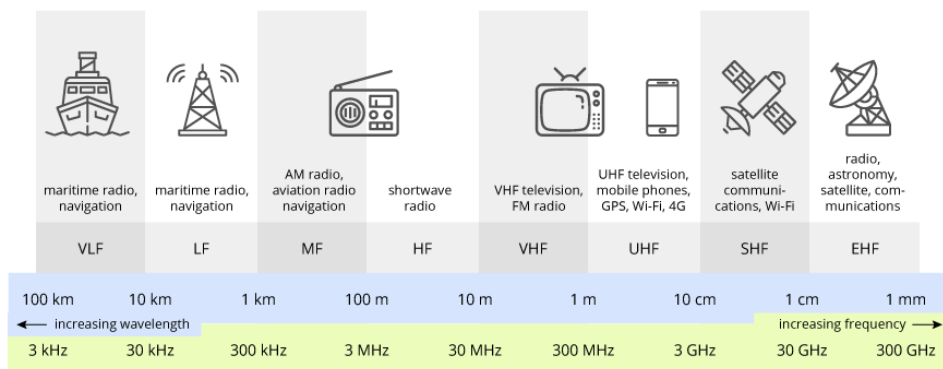
- Ram Singh Boudh, famously known as the "**Radio Man of India**," has amassed a collection of 1,257 unique radios, dating from the **1920s to 2010**.
- His collection surpassed the previous world record of **625 radios held by M Prakash**.

▪ **Prime Minister's Recognition:**

- Boudh's passion for preserving the legacy of radios gained national recognition when the Prime Minister mentioned him during the [Mann Ki Baat](#) radio program in November 2023.
- PM Modi highlighted Boudh's dedication to keeping radios relevant, noting that his efforts sparked greater curiosity about his collection.
- The Prime Minister acknowledged that **Mann Ki Baat** itself has revitalized interest in radios and [Akashvani \(All India Radio\)](#), making them popular once again in many households.

### Radio Spectrum

- The radio spectrum (also known as **Radio Frequency or RF**) is a part of the [electromagnetic spectrum](#). [Electromagnetic waves](#) in this frequency range are called radio frequency bands or simply '[radio waves](#)'.
  - Radio waves have the longest wavelengths in the electromagnetic spectrum. These were discovered by **Heinrich Hertz in the late 1880s**.
- RF bands spread in the range between **30 kHz and 300 GHz** (alternative point of view offers coverage 3 KHz - 300 GHz).



## FMDA Launches Groundwater and Humidity Monitoring Project | Haryana | 04 Oct 2024

### Why in News?

Recently, The **Faridabad Metropolitan Development Authority (FMDA)** has introduced a project to monitor [groundwater](#) and [humidity levels](#), aiming to address [water depletion issues](#).

### Key Points

- **Project Overview:**

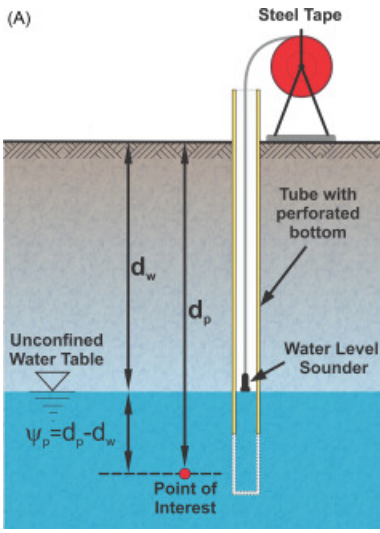
- The FMDA plans to install 100 [piezometers](#) in urban areas of Faridabad to monitor groundwater and underground humidity levels.
- The project, costing around **Rs 9.5 crore**, is part of a pilot initiative also being launched in **Gurugram**.
- These instruments will provide **real-time data, helping authorities understand groundwater conditions** and contributing factors for its depletion.

- **Technological Setup:**

- Piezometers, specialized sensing devices, **will measure groundwater pressure and humidity across a radius of 1,000 meters per unit**.
- The system will provide 24/7 monitoring, allowing for online data tracking. This technology, developed by **APCOS Limited (formerly Water and Power Consultancy Services)**, falls under the [Ministry of Jal Shakti](#).

### Piezometer

- A piezometer is a tube with an open bottom that measures the pressure of groundwater or the pressure of a body of water against the sides of its container.
  - The word piezometer comes from the Greek prefix piezo-, meaning “pressure,” and the root meter, meaning “to measure”.



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