

SANSKRITI IAS DAILY CURRENT AFFAIRS

08-09-2026

MatsyaMetri

TH The Hindu

CMFRI claims to have developed app to measure fish size without touching them

CMFRI's 'Matsya Metri' app allows non-contact measurement of fish, streamlining data collection for fisheries research and management.



Why in News

- **MatsyaMetri**, a smartphone application developed by the **Central Marine Fisheries Research Institute (CMFRI)**, enables rapid and systematic collection of biological data from fish and aquatic resources.

Institutional & Technological Context

- **CMFRI** is headquartered in **Kochi, Kerala**, and developed MatsyaMetri for fisheries scientists, researchers, and field survey teams.
- The application can measure the **length and width of fish without physically handling them**, improving field-data collection.



Data-Management Features

- MatsyaMetri automatically records measurements and generates **length-frequency datasets** for fisheries assessment and management.
- It allows multiple individuals of the same species or aquatic resource to be measured during a single sampling session.
- Measurements and photographs can be saved with the sampling session and exported as **CSV files** for further analysis.

Virtual Private Network (VPN)

ET Telecom

VPN use banned for two months in Jammu and Kashmir's Doda

Doda/Jammu: Authorities in Jammu and Kashmir's Doda ordered a complete ban on the use of Virtual Private Networks (VPNs) across the district...

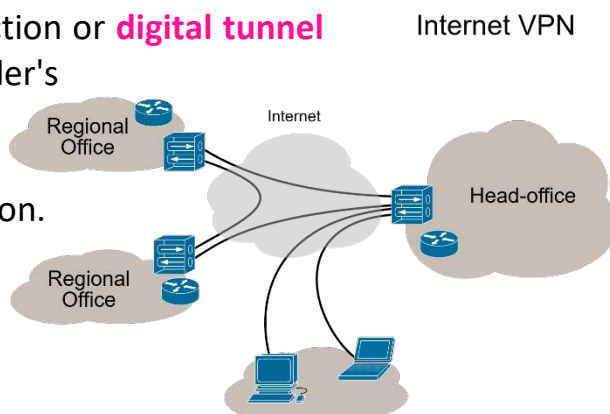


Why in News

- Authorities in **Doda, Jammu and Kashmir**, ordered a temporary ban on **Virtual Private Networks (VPNs)** citing cybersecurity, unlawful activities, and public-order concerns.

Core Technology

- A **VPN** creates a secure, encrypted connection or **digital tunnel** between a user's device and a VPN provider's secure server.
- It masks the user's actual **IP address** and protects data from unauthorised interception.
- VPNs are widely used for secure remote access to **corporate networks, databases, and proprietary applications.**



Cybersecurity Dimensions

- VPNs can protect data from hackers and facilitate geographically restricted content, but they **do not provide complete anonymity.**
- Internet Service Providers may still observe the **size of incoming and outgoing traffic**, although they cannot see its content through the encrypted tunnel.

Shekhawati Havelis

ThePrint

Shekhawati havelis added to UNESCO tentative list, says Rajasthan government

Jaipur, Sep 5 (PTI) The state government announced on Saturday that the historic and richly frescoed havelis of Rajasthan's Shekhawati...



Why in News

- The historic and richly frescoed **havelis of Rajasthan's Shekhawati region** have been included in **UNESCO's tentative list.**

Architectural Characteristics

- A **haveli** is a traditional mansion or large townhouse generally built around an **open central courtyard.**
- Havelis commonly feature **jharokhas, latticework screens, frescoed walls, ornate gateways, carved elements, and decorative façades.**
- Their inward-looking courtyard design facilitates **light and ventilation**, particularly in the hot climate of northwestern India.



Shekhawati Cultural Landscape

- **Shekhawati** is located in **northeastern Rajasthan** and is renowned for havelis decorated with intricate **fresco paintings.**

- The frescoes portray **Hindu mythology, royal traditions, local life, changing social conditions, modern technology, and foreign influences.**
- The region's combination of historic architecture and painted façades creates a distinctive **urban cultural landscape.**

Barakuru

Inshorts

Rare 14th-century Siditale hero stone discovered at Barakuru | Tap to know more | Inshorts

A historically significant Siditale hero stone has been discovered at Barakuru during an epigraphical survey of the Panchalingeshwara Temple...



Why in News

- A historically significant **Siditale hero stone** was recently discovered at **Barakuru** during an epigraphical survey of the **Panchalingeshwara Temple.**

Geographical & Historical Setting

- **Barakuru (Barkur)** is an ancient port town in **Udupi district, Karnataka**, situated on the **River Sita**, about 5 km east of the Arabian Sea coast.
- It was historically known as **Varakula, Barakanur, and Barahkanyapura.**
- The port functioned as a major commercial centre from around the **2nd century BCE**, with evidence of **Megalithic and Mesolithic** occupation.



Dynastic & Cultural Significance

- The **Alupa rulers** made Barakuru their capital during the **10th–11th centuries CE**, strengthening its political and socio-economic importance.
- It later served as a provincial headquarters under the **Hoysalas** and **Vijayanagara Empire**, followed by the rule of the **Keladi Nayaks, Haider, Tipu, and the British.**
- Barakuru developed **ten extensions called Keris**, each associated with particular professional communities and containing tanks and temples.
- The town has yielded over **100 stone inscriptions** and several **copper-plate inscriptions** belonging to the **Alupa, Hoysala, Vijayanagara, and Keladi** periods.

Mindoro Bleeding-heart Pigeon

TOI The Times of India

A pigeon with a 'bleeding heart' has returned after 20 years: Rare Philippine bird spotted in 2026, but w

Science News: A camera on the Philippine island of Mindoro captured one of the country's rarest birds, confirming that the critically...



Why in News

- The **Mindoro bleeding-heart pigeon** has been sighted again after **20 years**, confirming its continued survival in the wild.

Distribution & Ecology

- The species is a **ground-dwelling pigeon endemic to Mindoro, Philippines**, and belongs to the group of seven bleeding-heart doves.
- It generally inhabits **lowland forests** around **400 m elevation**, occasionally occurring up to **800 m**.
- It usually takes flight only when threatened, while males and females have almost identical appearances.



Conservation Concerns

- The pigeon is listed as **Critically Endangered (CR)** on the **IUCN Red List**.
- Major threats include **hunting and habitat loss** caused by slash-and-burn agriculture, agricultural expansion, rattan harvesting, and marble quarrying.

Hindon River

TOI The Times of India

Body of one washed away in Hindon found

Body of 20-year-old Saurav recovered from Hindon River near Kulesra two days after drowning; search continues for missing friend Shiv...



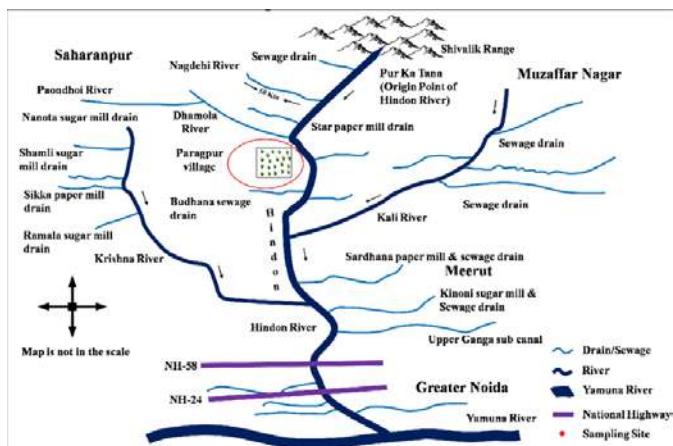
Why in News

- Two people were feared drowned in the **Hindon River** near Haibatpur in **Greater Noida**, Uttar Pradesh.

River System & Geography

- The **Hindon River** is a tributary of the **Yamuna River** and originates in the **Siwalik Hills of Saharanpur district, Uttar Pradesh**, at about **800 m** elevation.

- It flows through the industrial belt of **western Uttar Pradesh and Haryana** before joining the Yamuna near **Noida**.
- The river is approximately **400 km long** and is **entirely rain-fed**, with substantially higher flows during the monsoon.
- Its major tributaries include the **Kali (West) River** and **Krishni River**.



Historical & Environmental Significance

- Archaeological sites along the river contain evidence of the **Harappan civilisation**, dating to around **2500 BCE**.
- The Hindon witnessed several encounters during the **1857 Revolt**, including the **Battle of Badli-ki-Serai**.
- Untreated **urban, agricultural, and industrial waste** has made the Hindon one of the most polluted stretches in the **Ganga basin**.
- In **2015**, the **Central Pollution Control Board (CPCB)** identified severe pollution and described the river as a **“dead river”** in affected stretches.

e-FAST India Initiative

News On AIR

PACT to support accelerated zero-emission freight deployment

e-FAST India, an initiative of NITI Aayog, today launched the Platform for Aggregating Clean Transport (PACT) to support accelerated...



Why in News

- **NITI Aayog** launched the **Platform for Aggregating Clean Transport (PACT)** at the **5th e-FAST India Summit 2026**.

Institutional Framework

- **e-FAST India (Electric Freight Accelerator for Sustainable Transport–India)** is a **NITI Aayog government–industry platform** aimed at shifting medium- and heavy-duty freight transport towards **zero-emission vehicles**.
- **NITI Aayog**, or the **National Institution for Transforming India**, is the Government of India's premier public policy think tank established on **1 January 2015**.

PACT & Freight Electrification

- **PACT** is a flagship initiative under e-FAST India that aggregates freight demand from **shippers, Logistics Service Providers (LSPs), and other stakeholders**.

- It seeks to translate aggregated freight demand into deployment opportunities along identified **freight corridors** and improve demand visibility.
- The platform brings together **vehicle manufacturers, financiers, charge-point operators (CPOs), shippers, and LSPs** to support charging infrastructure planning and strengthen the commercial case for **electric medium- and heavy-duty vehicles (e-MHDVs)**.

Delhi University's Carbon Garden

NDTV

DU Inaugurates India's First Carbon Garden, Vice-Chancellor Warns Of 'Pollution Capital'

Delhi University has launched India's first Carbon Garden at its Botany Department to combat air and soil pollution and boost urban...



Why in News

- **Delhi University** inaugurated **India's first Carbon Garden** at its **Department of Botany**.

Key Features

- The **2,000 sq. ft.** garden contains nearly **50 plant species** and microorganisms such as **algae, fungi and bacteria**.
- It functions as a **mini-biodiversity park** supporting **carbon sequestration, pollution control and soil improvement**.
- Plants absorb **CO₂** through photosynthesis and store carbon as **biomass**.

Other Important News of the day

Environment

Bhitarkanika National Park

DH Deccan Herald

Hundreds of baby crocs break out of eggshells in Odisha's Bhitarkanika National Park

Hundreds of saltwater crocodile hatchlings have begun emerging from nests in the Bhitarkanika National Park, making their way into creeks...



Why in News

- Hundreds of **saltwater crocodile hatchlings** have recently emerged from nests in **Bhitarkanika National Park**, Odisha.

Geographical & Ecological Setting

- **It** is located in **Odisha** and is surrounded by the **Bhitarkanika Wildlife Sanctuary**.

	➤ Gahirmatha Beach and Marine Sanctuary lies to its east, separating the mangrove-covered swamp region from the Bay of Bengal. ➤ The park lies within the estuarine system of the Brahmani, Baitarani, and Dhamra rivers. ➤ It is designated as a Ramsar site and is described in the source as India's second-largest mangrove ecosystem after the Sundarbans. Biodiversity Significance ➤ The park supports mangroves, casuarinas, and grasses, along with diverse tropical and subtropical intertidal vegetation. ➤ It hosts India's largest congregation of saltwater crocodiles. ➤ Gahirmatha Beach is noted as the largest colony of Olive Ridley sea turtles, while the wider ecosystem also supports numerous mammals and migratory birds.
Defence	RVV-BD Missile  ANI News <u>India to modify Su-30 fighter jets to integrate them with RVV BD air-to-air missiles</u> In a major capability boost for the Indian Air Force, the Defence Ministry is taking up a proposal to modify the Su-30 MKI aircraft to...  Why in News ➤ The Ministry of Defence is evaluating a proposal to equip the Su-30MKI fleet of the Indian Air Force with Russian-made RVV-BD long-range air-to-air missiles to enhance Beyond Visual Range (BVR) combat capability. Technical Profile ➤ The RVV-BD (Raketa Vozduh-Vozduh Bolshoy Dalnosti) is a Russian-developed BVR air-to-air missile and the export version of the R-37M. ➤ It has a maximum forward-hemisphere firing range of up to 200 km and can travel at around Mach 6. ➤ The missile carries a 60 kg high-explosive fragmentation warhead with a proximity fuse and contact sensor. ➤ It is approximately 4 metres long and weighs around 510 kg.

	Guidance & Targeting ➤ The missile employs an active-passive radar homing head, inertial guidance system, and radio correction link. ➤ It is designed to target high-value aerial assets such as AEW&C aircraft, airborne command platforms, and other critical aerial targets.
Science and Technology	Cell Broadcast System TH The Hindu What is the Cell Broadcast System, and how does it help in emergencies? Explained The story so far: Following a few weeks of break, the Cell Broadcast System (CBS) has been resumed in India, according to Centre for...  Why in News ➤ The Cell Broadcast System (CBS) has been resumed in India by the Centre for Development of Telematics (C-DOT). Institutional Architecture ➤ CBS is an indigenous public-warning technology developed by C-DOT under the Department of Telecommunications (DoT) in collaboration with the National Disaster Management Authority (NDMA) and Ministry of Home Affairs (MHA). ➤ It enables authorities to send simultaneous, geo-targeted alerts to mobile devices within a defined geographical area. Operational Advantages ➤ Unlike SMS, CBS broadcasts messages to all compatible mobile phones within a specified area, enabling rapid delivery even during network congestion. ➤ Alerts can be targeted to individual cell towers or tower clusters and delivered in near real time without queuing delays. ➤ The system supports 2G to 5G networks and reaches roaming users as well as populations in urban and rural areas. ➤ Priority alerts may appear as pop-ups with distinct loud tones, while multilingual messages can be read aloud on supported handsets.

Uttar Pradesh in News

Uttar Pradesh Outsource Services Corporation (UPCOS)

 Organiser

UPCOS: Building an organised, skilled, secure & dignified future for the outsourced workforce of Uttar Pradesh

Chief Minister Yogi Adityanath launched the Uttar Pradesh Outsource Service Corporation (UPCOS) in Lucknow on September 2,...



Why in News

- **Uttar Pradesh Chief Minister Yogi Adityanath** launched the **Uttar Pradesh Outsource Services Corporation (UPCOS)** and its digital platform to improve transparency, standardisation and social-security protection for outsourced workers.

Institutional Framework

- **UPCOS** has been established as a centralised system for managing outsourced manpower across **Uttar Pradesh Government departments**.
- It was formally established on **2 January 2026** as a **not-for-profit company**, following its announcement by the state government in **April 2025**.
- Recruitment will be standardised through **empanelled outsourcing service providers** to improve transparency in worker selection and deployment.

Digital Governance & Worker Services

- The UPCOS portal will maintain digital records of **appointments, attendance, payments and service details** of outsourced employees.
- Workers will receive remuneration between the **1st and 5th of every month** through direct bank transfers.
- An **employee dashboard** will allow workers to access their **salary, EPF, ESIC and service records**.
- The platform will provide an online **grievance-redressal mechanism** for registering and tracking complaints.