

SANSKRITI IAS DAILY CURRENT AFFAIRS

12-09-2026

Thirukkural

TH The Hindu

PM Modi gives Russian translation of Thiruvalluvar's classical Tamil poem collection to Putin

PM Modi presents a Russian translation of Thirukkural to President Putin, sharing timeless wisdom ahead of the BRICS Summit.



Why in News: The Prime Minister of India gifted the Russian President a translated copy of the **Thirukkural** during a bilateral meeting.

Literary Significance

- **Thirukkural** was authored by the Tamil poet-philosopher **Thiruvalluvar**, also known as **Valluvar**.
- It is a seminal work of ancient **Tamil literature** and **philosophy** and is widely regarded as an influential work on **ethics**.
- It is generally dated to more than two millennia ago, with the source placing its composition between **300 BCE** and **500 BCE**.

Structure

- The text contains **1,330 couplets**, with each kural consisting of seven words, arranged into **133 chapters** of **10 couplets** each.
- The **Book of Virtue (Aram)** contains **38 chapters** and focuses on morality and individual values.
- The **Book of Polity/Wealth (Porul)** contains **70 chapters** dealing with material and socio-economic values.
- The **Book of Love (Inbam)** contains **25 chapters** dealing with love and relationships.

Core Ideas

- Thiruvalluvar emphasises **moral conduct**, **compassion**, **charity**, **love** and social well-being while opposing divisions based on **caste**, **religion**, **creed** and **race**.
- The opening chapter, **Kadavul Vazhthu** (Praise of God), presents God in terms of **intelligence**, **wisdom**, **compassion**, **morality** and **love**.

Schizopygopsis waddellii

 News On AIR

Rare fish *Schizopygopsis waddellii* spotted in natural lake of Twang in Arunachal

Scientists from ICAR-Central Institute of Coldwater Fisheries Research, in collaboration with the Department of Fisheries, Government of...



Why in News: Scientists recorded *Schizopygopsis waddellii* for the first time in India from **Pangkang Teng Tso Lake** in Tawang district of Arunachal Pradesh, at around 12,800 feet elevation.

Biogeographical Significance

- The species was previously known from the **Tibetan** and **China Plateau** region, including **Yamdrok Lake** in Tibet.
- Its discovery extends the known distribution of the species and adds a new species to **India's freshwater fish fauna**.
- It belongs to the fish family **Cyprinidae** and is adapted to harsh **high-altitude freshwater ecosystems**.

Identification Features

- The fish has an **elongated cylindrical body**, **dark greyish-to-olive** upper surface and lighter **silvery-to-creamy** underside.
- Distinctive features include a **complete lateral line**, **blunt snout**, hard plate-like structure around the lower lip and snout, **subterminal mouth** and **deeply forked caudal fin**.

Solani River

 Down To Earth

Daily Court Digest: Major environment orders (September 7, 2026)

Daily Court Digest on key NGT environment orders: advisory on asbestos roofing sheets in schools, Solani river floodplain demarcation in...



Why in News: The Uttar Pradesh Government submitted a report to the **National Green Tribunal (NGT)** on demarcating the **Solani River** floodplain using a one-metre Digital Elevation Model (DEM) and a 100-year return period.

Geographical Profile

- The **Solani River** originates in the **Himalayan foothills** near **Dehradun, Uttarakhand**.
- It flows through **Saharanpur** and **Muzaffarnagar** districts of Uttar Pradesh before joining the **Banganga River** upstream of **Shukratal**.

- Its basin receives approximately **1,170–1,500 mm** of average annual rainfall, and its catchment soils are predominantly **loamy**.

Important Landmark

- The **Solani Aqueduct** near **Roorkee** is a historic **19th-century** masonry structure that carries the **Upper Ganga Canal** over the Solani River.

National Green Tribunal

- The **NGT** was established in **2010** under the **National Green Tribunal Act, 2010** as a specialized forum for expeditious environmental justice.
- It deals with matters concerning **environmental protection**, **forest conservation** and **environmental rights**, including compensation for environmental damage.
- Its composition includes a **Chairperson**, **Judicial Members** and **Expert Members** with prescribed qualifications and tenure.

Proteome

 Nature

Startups mine 'dark proteome' for new drug targets

Scientists uncover thousands of previously missed proteins, many of which appear to be relevant to human health — including promising new...



Why in News: Research indicates that **proteomic signatures** detectable in children may help predict their future risk of **cardiovascular-kidney-metabolic disease (CKMD)**, supporting precision prevention.

Basic Concept

- A **proteome** is the complete set of proteins produced by an organism, biological system or particular biological context such as an organ.
- Unlike the **genome**, the proteome is **dynamic**, varying between cells and changing over time according to biological conditions.
- An individual's proteome can be unique because **gene expression** determines protein-expression patterns.

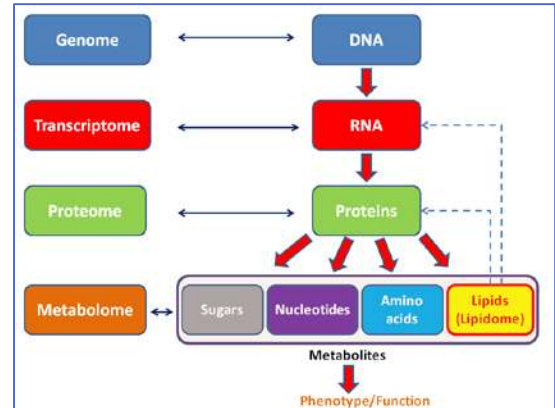
Why Proteome Is Larger Than the Gene Set

- **Alternative splicing** can generate multiple protein variants from a single gene.

- **Post-translational modifications**, such as **phosphorylation** and **glycosylation**, further increase protein diversity.

Applications of Proteomics

- **Proteomics** is the large-scale study of proteomes using techniques such as **mass spectrometry** and **protein sequencing**.
- It examines **protein expression**, production and degradation, post-translational modifications, cellular movement, **metabolic pathways** and **protein-protein interactions**.
- Proteomic analysis can improve understanding of **disease mechanisms**, identify **drug targets** and support development of new therapies.



Market Infrastructure Institutions

The Indian Express

SEBI proposes wider pool of directors, norms for key officials

The Securities and Exchange Board of India (SEBI) has proposed changes to the governance framework of market infrastructure institutions...



Why in News: **SEBI** has proposed extending the IT and cybersecurity framework for **Market Infrastructure Institutions (MIIs)** to their subsidiaries to strengthen regulatory oversight.

Core Institutions

- **Market Infrastructure Institutions (MIIs)** provide essential infrastructure for the functioning of stock and capital markets.
- The three major categories are **Stock Exchanges**, **Clearing Corporations/Clearing Houses** and **Depositories**.
- They facilitate **trading**, **clearing**, **settlement**, **record-keeping** and **storage of securities**.

Regulatory and Systemic Importance

- Operational disruption in an MII can affect the wider **financial system**, making these institutions critical for **systemic stability** and **investor confidence**.

SEBI Linkage

- **SEBI** is the principal regulator of India's capital markets, and every stock-market MII must be **registered with SEBI**.

- MIs are corporate entities operating for profit while simultaneously performing functions similar to **public utilities** and **first-line regulators**.
- They are legally empowered to regulate their members, including **listed companies**, **Trading Members**, **Clearing Members** and **Depository Participants**.
- Strong **corporate governance** and **cybersecurity** are therefore essential to their functioning.

Digital India Land Records Modernization Programme 3.0

News On AIR

Rural Development Minister Shivraj Singh Chouhan reviews Land Resources Department progress

Union Minister for Rural Development, Shivraj Singh Chouhan, today chaired a review meeting of the Department of Land Resources in New Delhi...



Why in News: The Government launched operational guidelines for **DILRMP 3.0** with an outlay of **₹565.5 crore**.

Institutional Framework

- **DILRMP 3.0** is a **2026–31** five-year **Central Sector Scheme** with **100% central funding**.
- It is implemented by the **Department of Land Resources (DoLR)**, **Ministry of Rural Development**, with progress monitored through an upgraded **DILRMP-MIS** dashboard.
- The programme evolved from the National Land Records Modernization Programme (**NLRMP**), created in **2008** and renamed **DILRMP** in **2016** under the **Digital India** framework.

Key Digital Architecture

- **Universal Bhu-Aadhaar (ULPIN)** seeks to provide every land parcel with a **14-digit** unique identification number.
- **Cadastral maps** will be fully **digitised** and **georeferenced** using precise geographical coordinates.
- **Paperless property registration** will provide end-to-end online

CENTRAL SCHEME IN A NUTSHELL

● Erstwhile National Land Record Modernization Programme was revamped as Digital India Land Records Modernization Programme (DILRMP) in April 2016



OBJECTIVE OF DILRMP

- Improve real-time information on land
- Optimize use of land resources
- Benefit both landowners & prospectors
- Aids in policy & planning
- Reduce land disputes
- Check fraudulent/benami transactions

registration, supported by a new **Registration Repository** and upgraded **Registration Seva Kendras**.

- **Integrated Revenue Courts** will use a **paperless case-management** system connected directly with land records to facilitate dispute tracking.
- The **NAKSHA Pilot** is being completed for urban areas as part of the programme.

Federal Digital Land Stack

- States can develop their own **land stacks** by integrating land-related datasets and systems through **APIs**, which can collectively form a **federated national land stack**.

Lipulekh Pass

 The New Indian Express

India-Tibet border trade resumes through Lipulekh Pass after six years

The delegation, comprising nine traders and eight helpers, crossed the high-altitude pass in Uttarakhand's Pithoragarh district carrying...



Why in News: The centuries-old India–Tibet trade route through **Lipulekh Pass** reopened, with a **17-member Indian delegation** entering Taklakot in Tibet after China cleared cross-border trade.

Geographical and Strategic Location

- **Lipulekh Pass** is a high-altitude mountain pass in **Pithoragarh** district, **Uttarakhand**, in the **Kumaon** region.
- It lies at approximately **5,334 metres (17,500 feet)** and connects Uttarakhand with the **Tibet Autonomous Region** of China.
- The pass is situated at the **India–China–Nepal tri-junction**, giving it major geopolitical and strategic significance.

Trade and Connectivity Significance

- Lipulekh has historically served as a trade route connecting the **Indian subcontinent** with the **Tibetan Plateau**.
- It is an important route for the **Kailash Mansarovar Yatra** and supports cross-border livelihoods, including those of **Bhotiya communities**.
- Lipulekh was the first Indian border post opened for trade with China in **1992**, followed by **Shipki La** in **1994** and **Nathu La** in **2006**.

India–Nepal Territorial Dispute

- The dispute is linked to the **1816 Sugauli Treaty**, under which the **Kali River** was recognised as the boundary, but India and Nepal differ over its precise source.
- India considers the river to originate near **Kalapani**, placing **Kalapani**, **Lipulekh** and **Limpiyadhura** within Indian territory, whereas Nepal identifies a source farther west and claims these areas.
- In **2015**, India and China agreed to use Lipulekh for **bilateral trade** and the **Kailash Mansarovar pilgrimage**, which triggered protests from Nepal.

Other Important News of the day



Environment

Przewalski's Horse

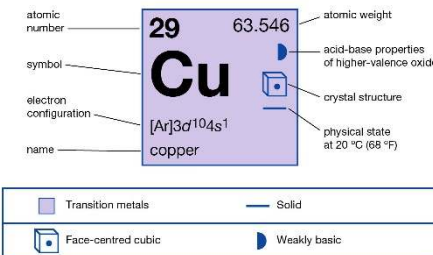
M news - Mongabay

Two wild Przewalski's horse foals born in Kazakhstan after 200 years

Two Przewalski's horse foals were born in a reintroduction center in the grasslands of central Kazakhstan in late August.

Why in News: Two **Przewalski's horse foals** were born at a reintroduction centre in the grasslands of central Kazakhstan, reportedly the first wild horses born on Kazakh soil in over 200 years.

	Taxonomy and Distribution ➤ Przewalski's horse is the only living wild relative of the domestic horse and is scientifically known as Equus ferus przewalskii or Equus przewalskii. ➤ It historically inhabited the steppe grasslands of Russia, Kazakhstan, Mongolia and northern China. ➤ Its habitat includes open steppes, semi-deserts and barren grassy plains.  Ecological Characteristics ➤ It is a diurnal and gregarious herbivore that generally lives in small herds of 10–20 individuals. ➤ It is a hind-gut fermenter adapted to consuming large quantities of water and relatively low-quality food. ➤ Its grazing reduces dry vegetation and wildfire risk, while hoof disturbance aids plant establishment and movement helps seed dispersal. Conservation Status ➤ The IUCN Red List classifies Przewalski's horse as Endangered.
Defence	S-71K Kovyor Missile  The Times of India Russia unveils new S-71K stealth missile for Su-57E amid potential sale to India News News: Russia has publicly unveiled the S-71K Kovyor, a new air-launched stand-off weapon designed for its Su-57E fifth-generation...  Why in News: Russia publicly unveiled the S-71K Kovyor, an air-launched stand-off weapon designed for the Su-57E fifth-generation fighter, at the El Alamein International Airshow in Egypt. Technical Profile ➤ The S-71K Kovyor is a Russian air-launched cruise missile primarily designed for the Su-57E. ➤ It has a flattened, broad aircraft-like planform, rather than the conventional cylindrical missile body.

	➤ Its design includes a trapezoidal nose with a chin-mounted optical sensor, swept-back wings and inverted V-tails. ➤ It uses turbojet propulsion with three internal fuel tanks and follows a powered-cruise flight profile. Operational Capabilities ➤ Its estimated range is approximately 300–350 km and it uses an inertial navigation system for guidance. ➤ It reportedly lacks an advanced terminal seeker and is primarily intended against pre-programmed fixed targets. ➤ It carries a 250-kg OFAB-250-270 high-explosive fragmentation warhead and can descend to very low altitudes, complicating radar tracking.
Science and Technology	Copper bl. BusinessLine Copper prices likely to remain elevated till US President Donald Trump decides on tariffs Copper prices are expected to stay high until Trump's tariff decision, driven by fears of increased US tariffs.  Why in News: Copper prices recently reached a record level of approximately \$14,708 per tonne. Properties and Occurrence ➤ Copper is a naturally occurring chemical element represented by the symbol Cu. ➤ It occurs both as native/free metal and in minerals such as chalcocite, chalcopyrite and bornite. ➤ Its major properties include high electrical conductivity, malleability and corrosion resistance, while copper is 100% recyclable without loss of quality. Copper  Indian and Global Distribution ➤ Important Indian copper regions include the Khetri–Jhunjhunu belt in Rajasthan, Malanjkhand in Madhya Pradesh and the Singbhum copper belt in Jharkhand.

- **Malanjkhand mine** in Madhya Pradesh is the **largest open-pit copper mine in India**.
- Major copper-reserve countries include **Chile, Australia, Peru** and **Russia**.

Strategic Uses

- Copper is extensively used in **electrical wiring, motors, transformers**, construction, **automobiles** and **electronics** because of its conductivity.
- It is strategically important for the **green-energy transition**, including **wind turbines, solar panels** and **electric vehicles**.