

# CURRENT AFFAIR



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### Lokmanya Tilak National Award, 2023

- Prime Minister Narendra Modi will be honoured with the Lokmanya Tilak National Award in Pune on August 1 next month. This award is being given to PM Modi for his brilliant leadership and for instilling a sense of patriotism among the citizens.
- On August 1, on the 103rd death anniversary of Lokmanya Tilak, the Tilak Smarak Mandir Trust (Hind Swaraj Sangh) will confer the Lokmanya Tilak National Award on Prime Minister Modi," said Deepak Tilak, president of the organizing trust.
- ➔ Organizers said Nationalist Congress Party (NCP) chief Sharad Pawar has been invited as the chief guest at the award ceremony. Along with this, Maharashtra Governor Ramesh Bais, Chief Minister Eknath Shinde, Deputy Chief Minister Devendra Fadnavis and Ajit Pawar have also been invited.
- This award is given to individuals from various fields for their contribution to the country.

- This award has already been given to other Prime Ministers including Indira Gandhi, Atal Bihari Vajpayee and Manmohan Singh.
- This award in science and social field N. R. Narayana Murthy, G. Madhavan, Dr. Koti Harinarayan, Cyrus Poonawalla and Prakash Amte have also been given.
- This award was started in 1983. It is given every year on the death anniversary of Lokmanya Tilak on 1 August by the 'Lokmanya Tilak Trust'.
- The Tilak Memorial Temple Trust was earlier known as 'Hind Swaraj Sangh'.
- August 1, 2023 is the 103rd death anniversary of Lokmanya Tilak.
   The award carries a memento, a certificate and Rs 1 lakh.



### Launch Vehicle Mark-3

- → The Indian Space Research Organization (ISRO) is planning to launch the Chandrayaan-3 mission to the Moon on July 14 at 2.35 pm IST from Sriharikota on board the launch vehicle Mark III.
- Chandrayaan-3 is largely a copy of its predecessor Chandrayaan-2, which was launched in July 2019 as an orbiter equipped with a rover ('Pragyan') and a lander ('Vikram').
- PSLV (Polar Satellite Launch Vehicle): Known as a workhorse with a very low failure rate, PSLV can carry up to 3.8 tons in Low Earth Orbit.
- Geosynchronous Satellite Launch Vehicle (GSLV): ISRO has developed GSLV to launch heavy payloads into higher orbits if required.
- → GSLVs also have many configurations like PSLVs.
- → The most powerful configuration is LVM 3.
- SSLV (Small Satellite Launch Vehicle): It is a 3-stage launch vehicle configured with three solid propulsion stages and a liquid propulsion-based Velocity Trimming Module (VTM) as the terminal stage.

#### → LVM 3 has 3 phases:

- The first (lowest stage) is in the form of 2 S200 booster straps on the sides of the rocket body. They use a solid fuel called Hydroxyl-terminated Polybutadiene.
- 2. The second stage is powered by the Vikas engine, it uses liquid fuel, which is Nitrogen Tetroxide or Unsymmetrical Dimethylhydrazine.
- The topmost stage is powered by a cryogenic engine.
  It uses liquefied hydrogen along with liquefied oxygen.
- → Some of the LVM 3 missions launched are:
  - OneWeb India-2 Mission
  - OneWeb India-1 Mission
  - Mission Chandrayaan-2
  - o GSAT-29 Mission
  - o GSAT-19 Mission
  - CARE Mission

## EVOLUTION OF THE INDIAN LAUNCH VEHICLE

Satellite Launch Vehicle (SLV-3): Height: 22m Fuel: Four solid stages Weight: 17 tonnes Capability: Placing 40kg class payloads in low earth orbit

> Augmented Satellite Launch Vehicle Height: 23.8m Weight: 40 tonnes, 23.8 m tall Fuel: Five stage, all-solid propellant. Capability: Orbiting 150kg class satellites into 400km circular orbits



GSLV Mark I and II Height: 49 m Weight: 414 tonne

Capability: Placing

INSAT-II class of

satellites (2000 -

2,500kg) into GTO

Fuel: Three stages.

S125 solid booster

with four liquid (L40)

strap-ons, GS2 liquid

n \$1

engine and GS3

cryogenic stage

GSLV Mark III Height: 42.4m Weight: 630 tonnes Fuel: Three stage; two identical S200 Large Solid Booster (LSB) with 200 tonne solid propellant, the L110 re-startable liquid stage, the cryogenic stage Capability: Placing communication

satellites of INSAT-4

class weighing

4500-5,000kg in

GTO, LEO, polar and

intermediate circular

orbits

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- → Recently, the Goods and Services Tax Network (GSTN) has made 'live' the Geocoding functionality for all the States and Union Territories.
- It converts the address or description of a place into geographic coordinates.
- ➔ It has been introduced to ensure the accuracy of address details in GSTN records and to streamline the address location and verification process.
- → GST Network has already geocoded 1.8 crore prime locations of businesses.
- → The functionality is available for General, Composition, SEZ units, SEZ Developers, Input Service Distributor and Casual Taxpayers who are live and suspended.
- This is a one-time activity and no modification of the address is allowed once submitted.
- This functionality will not be visible to those taxpayers who have already geocoded their addresses through fresh registration or basic amendment.

- → GST It is a non-profit non-govt company registered under section 8 of the Companies Act, 2013.
- It will provide shared IT infrastructure and service to both Central and State Governments including taxpayers and other stakeholders.
- Private partners hold 51% equity in GSTN and Central and State Governments hold 49% equity in GSTN.



### Wilson's Little Penguin

- → On the Southern Taranaki Peninsula of New Zealand's North Island, researchers made a remarkable discovery. They have discovered the remains of the smallest extinct penguin species ever discovered, shedding light on the interesting world of these flightless birds and providing important historical insights.
- Researchers have unearthed the fossilized remains of a new unknown penguin species. These bones are known as those of Wilson's little penguin (Eudyptula wilsonae).
- → Named Wilson's little penguin (Eudyptula wilsonae), these remains offer a glimpse into the history of these fascinating creatures. Fossil skulls found in the southern Taranaki region are remarkably similar in size and appearance to those of little penguins living in our world today.
- → The discovery is of great importance as it confirms the origin of little penguins in New Zealand and their presence during the Neogene period.
- ➔ By studying these fossils, scientists are able to fill in the gaps in the history of ecosystems.

- Little penguins, including their subspecies, currently live in New Zealand, Australia and Tasmania. Understanding their origins and historical presence increases our understanding of the unique biodiversity of these regions.
- Speculation is rife about the unfortunate deaths of baby penguins washed up on New Zealand beaches.
- → The researchers suggest that climate change may have played a role in these events. Rising sea surface temperatures, fueled by climate change, could cause prey species to migrate out of penguin reach, leading to malnutrition and death.



### Little penguins

### Global Survey on Digital and Sustainable Business Facilitation

- → This is a survey released every two years. The survey deals with the measures taken by individual countries to facilitate trade.
- → The global survey covers a set of nearly 60 trade facilitation measures, along with the trade facilitation agreements of the World Trade Organization (WTO). These measures of trade facilitation are classified into the following 11 sub-groups.
- Transparency, Formalities Institutional Arrangements and Cooperation Transit Facilitation: Paperless Trade Cross-Border Paperless Trade: Trade Facilitation for Small and Medium Enterprises (SMEs) Agriculture Trade Facilitation Women in Trade Facilitation: Trade Finance for Trade Facilitation and in Times of Crisis business facility.
- India's score has increased from 90.32 percent in 2021 to 93.55 percent in 2023.

- ➔ In this survey, India is the best-performing country among all the countries in the South Asia region. India's overall score is higher than many developed countries like Canada, France, the UK, and Germany.
- ➔ India has achieved a perfect score of 100 per cent in four key areas. These areas are transparency, formalities, institutional arrangements and cooperation and paperless trade.
- → India's score has also improved substantially in the Women in Ease of Doing Business component. Scores in this component increase from 66.7 percent in 2021 to 77.8 percent in 2023.
- The improvement in India's score has been mainly due to the following initiatives:
  - o Turant Customs,
  - Single Window Interface for Facilitating Trade (SWIFT),
  - Pre-arrival data processing,
  - e- Sanchit,
  - Integrated Border Management etc.

ESCAP was established in 1947. It is one of the five regional commissions of the United Nations. Its headquarter is in Bangkok (Thailand).
 It promotes cooperation among its 53 member states

and **9 associate members** to address the challenges facing sustainable development.

