

# Vande Bharat for Katra-Srinagar Route

### Why in News?

Recently, **the Railway Board** unveiled a **Vande Bharat Express train**, specially designed to operate seamlessly in the challenging winter conditions of Jammu & Kashmir, for the upcoming **Katra-Srinagar rail route**.

# **Key Points**

- Climate-Specific Features:
  - The Vande Bharat Express, stationed at Shakurbasti coaching depot in New Delhi, has been specially designed for Jammu & Kashmir's extreme winter conditions.
  - It features advanced heating systems to prevent the freezing of water and bio-toilet tanks, ensure the vacuum system and laboratories remain warm, and optimize air-brake system functionality in sub-zero temperatures.
- Passenger Amenities:
  - The train also includes all amenities found in existing Vande Bharat Express trains, such
    as fully air-conditioned coaches, automatic plug doors, and mobile charging sockets.
- Symbol of Connectivity:
  - The train connects the Kashmir Valley more effectively to the national railway network, symbolizing India's commitment to bridging geographical and economic gaps.

#### **Vande Bharat Trains**

- It is an indigenously designed and manufactured semi high speed, self-propelled train that is touted as the next major leap for the Indian Railways in terms of speed and passenger convenience since the introduction of Rajdhani trains.
- The first Vande Bharat was **manufactured by the Integral Coach Factory (ICF), Chennai** as part of the 'Make in India' programme, at a cost of about Rs. 100 crore.
- The Vande Bharat was India's first attempt at adaptation of the train set technology compared with conventional systems of passenger coaches hauled by separate locomotives.
- The train set configuration, though complex, is faster, easier to maintain, consumes less energy, and has greater flexibility in train operation.

## **About Indian Railways**

- It was established in 1853 and is one of the largest railway networks globally.
- The first train in India ran over a distance of 21 miles, connecting Bombay and Thane.
- India has the 3<sup>rd</sup> largest metro-rail network in the world after China and the US. By 2050, India is projected to account for 40% of the global rail activity.

