



# Full Motion Simulator Facility Inaugurated in Agra

## Why in News?

Recently, the [Indian Air Force \(IAF\) C-295 Full Motion Simulator \(FMS\)](#) was inaugurated in **Air Force Station Agra**, Uttar Pradesh. It will allow a significant proportion of **pilot training to be undertaken in the simulator**, thereby saving precious flying hours on the aircraft.

## Key Points

- The simulator **offers pilots near-realistic training, replicating missions** such as tactical airlift, para-dropping, para-trooping, medical evacuation, and disaster relief.
  - It also **simulates critical scenarios, enhancing pilots' readiness for real-world operations** and improving their ability to make rapid, high-stakes decisions, which boosts the overall safety of military flights.
- The introduction of the [C-295 aircraft](#) into the IAF **strengthens the country's aerospace industry**, as it marks the beginning of "[Atmanirbhar Bharat](#)" in private-sector transport aircraft production.
- **C-295 Aircraft:**
  - It is a **transport aircraft of 5-10 tonne capacity** with contemporary technology.
  - Robust and reliable, it is a **versatile and efficient tactical transport aircraft** which can perform a number of different missions.
  - **Features:**
    - The aircraft, with a flight endurance of up to 11 hours, **can carry out multi-role operations under all weather conditions.**
    - It can routinely operate day as well as night combat missions from desert to maritime environments.
    - It has a **rear ramp door for quick reaction and para dropping of troops** and cargo. Short take-off/land from semi-prepared surfaces is another of its features.
  - **Replacement:**
    - It will **replace the Indian Air Force's ageing fleet of Avro-748 planes.**
      - The Avro-748 planes are a **British-origin twin-engine turboprop, military transport and freighter** with a 6-tonne freight capacity.



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