



# Brahmos Missile

## Why in News?

[BrahMos supersonic cruise missile](#) production unit was inaugurated by the Union Defence Minister in Lucknow, Uttar Pradesh.



## Key Points

### ▪ About Brahmos Missile:

- An Indo-Russian joint venture, the BrahMos missile **has a range of 290 km and is the world's fastest cruise missile** with a top speed of Mach 2.8 (about three times the speed of sound).
  - It is named after **the Brahmaputra River of India and the Moskva River of Russia.**
- It is a two-stage (**solid propellant engine in the first stage and liquid ramjet in the second**) missile.
- It is a multiplatform missile which **can be launched with great accuracy from land, air and sea having multi-capability capabilities** and can operate during day and night despite bad weather.
- It operates on the "fire and forget" principle i.e. it does not require guidance after launch.

### ▪ About Lucknow Brahmos Unit:

- The unit has been set up under **the [Uttar Pradesh Defence Industrial Corridor \(UP DIC\)](#)** at a cost of **Rs 300 crore.**
- It is **a joint venture between the [Defence Research and Development Organisation \(DRDO\)](#)** of the Government of India and the Russian company **NPOM.**
  - India has a share of **50.5%** and Russia has a share of **49.5% in it.**
- **In the first phase, parts of the BrahMos missile will be assembled here and later the full manufacturing work will be started.**
- The unit will manufacture **100 to 150 next-generation missiles per year.**
- The new version's weight has been **reduced from 2,900 kg to 1,290 kg.**
- Its range will be **more than 300 km.**

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## Uttar Pradesh Defence Industrial Corridor

- It is an ambitious project aimed at **reducing the foreign dependency** of the Indian **aerospace and defence sector**.
- It has **6 nodes** – Aligarh, Agra, Kanpur, Chitrakoot, Jhansi and Lucknow.
- Uttar Pradesh Expressway Industrial Development Authority (UPEIDA)** has been made the **nodal agency** to execute the project in collaboration with various state agencies.
- The aim of this corridor is to **establish the state as one of the largest and advanced defence manufacturing hubs** and put it on the world map.

## Defence Research and Development Organisation (DRDO)

- Introduction:**
  - DRDO was **established in 1958** by merging the Indian Army's **Technical Development Establishment (TDE)**, **Directorate of Technical Development and Production (DTDP)** and **Defence Science Organisation (DSO)**.
  - DRDO is the research and development wing of the **Ministry of Defence, Government of India**.
  - Initially DRDO had 10 laboratories, currently it operates 41 laboratories and **5 DRDO Young Scientist Laboratories (DYSL)**.
- Principle:**
  - The guiding principle of DRDO is "**Balasya Mulam Vijnanam**" (**power lies in science**), which guides the nation in both peace and war situations.
- Mission:**
  - Its mission is to achieve **self-reliance in critical defence technologies** and systems by equipping the Indian Armed Forces with state-of-the-art weapon systems and equipment as per the requirements of the three services.

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