



Rajasthan to Manufacture Rifles and Machine Guns

Why in News?

Under the '[Make in India](#)' and '[Rising Rajasthan](#)' initiatives, Rajasthan secured defence clearance for projects worth over Rs 1500 crore.

- It marks a significant milestone for the state's [defence manufacturing](#) sector, positioning it as a key player in India's defence production and exports.

Key Points

- **Rajasthan's Role in Defence Manufacturing:**
 - **Gun parts** will be **manufactured in locations like Jodhpur and Jaipur**, with barrels produced at a **specialised facility in Boranada**, Jodhpur—ensuring supply chain security through a decentralised, infrastructure-driven approach.
 - A **key challenge** is meeting **safety norms for ammunition storage**, which requires facilities to be 8-10 km from inhabited areas; the government is being approached for suitable land allocation.
- **Advanced Weapon Systems Under Production:**
 - **Military-Grade Sniper Rifle:** Engineered for long-range precision with **sub-minute of angle (MOA) accuracy** up to 2.4 km, this **fully indigenous weapon** is built to perform reliably across diverse environments.
 - **Multi-Barrel Machine Gun:** Boasting a firing rate of 6,000 rounds per minute and a 1,000-yard range, it can fire 15,000 rounds per belt, with future upgrades planned for C-RAM (Counter Rocket, Artillery, and Mortar) and anti-aircraft roles.
- **Significance for India's Defence Ecosystem:**
 - **Alignment with 'Make in India':** The initiative embodies India's vision of self-reliance in defence manufacturing by producing fully indigenous, cutting-edge weapon systems.
 - **Decentralised and Robust Production:** Multiple production hubs reduce risk, improve security, and leverage regional industrial infrastructure, contributing to resilience in the supply chain.
 - **Boost to Defence Start-ups:** Involvement of defence [startups](#) in the project reflects the growing role of innovation and private sector participation in the defence sector.
 - **Export Potential:** Early interest from countries such as Togo and Thailand indicates promising export opportunities, supporting India's goal to become a global defence supplier.
 - **Complement to Existing Defence Production:** Following Uttar Pradesh's success with [BrahMos missile](#) production, Rajasthan's entry into small arms manufacturing diversifies India's defence production capabilities.

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BrahMos Missile



- The BrahMos missile, which has a range of 290 km, is an **Indo-Russian joint venture** and is the **world's fastest cruise missile** with a top speed of Mach 2.8 (about three times the speed of sound).
 - BrahMos is named after the **Brahmaputra (India) and Moskva (Russia) rivers**.
- It is a two-stage missile (solid propellant engine in the first stage and liquid ramjet in the second stage).
- It is a **multiplatform missile** i.e. it can be launched from land, air and sea and is a multi-capability missile with high accuracy which operates both during day and night irrespective of weather conditions .
- It **operates on the "fire and forgets" principle** i.e. it does not require guidance after launch.
- Vietnam, **the United Arab Emirates and Indonesia** are among other potential customers for the BrahMos missile.

‘Make in India’ Initiative

- **About:** The campaign was launched to **facilitate investment, foster innovation, enhance skill development**, protect intellectual property & build best-in-class manufacturing infrastructure.
- **Objectives:**
 - **Increase** the growth rate of the **manufacturing sector to 12-14% per annum**.
 - Create **100 million additional manufacturing jobs** by 2022 (revised to 2025).
 - Increase the **manufacturing sector's contribution to GDP to 25% by 2025**.
- **Pillars of ‘Make in India’:**

- **New Processes:** Recognized '**ease of doing business**' as vital for entrepreneurship, implementing **measures to improve the business environment for startups** and established enterprises.
- **New Infrastructure:** The government **prioritised developing industrial corridors and smart cities** to create world-class infrastructure.
 - It also enhanced innovation and research through streamlined registration systems and improved **intellectual property rights (IPR)** infrastructure.
- **Make in India 2.0:** The ongoing "**Make in India 2.0**" phase, encompassing 27 sectors, continues to propel the program forward, consolidating India's role as a significant player in the global manufacturing arena.

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