



Global Expansion of Nuclear Arsenal: SIPRI Report

Why in News

According to a recent report published in the **SIPRI Yearbook 2021**, the **number of nuclear warheads which are ready and deployed have increased globally.**

- The SIPRI Yearbook is **released by the [Stockholm International Peace Research Institute \(SIPRI\)](#)** which researches international armament and conflict.
- The SIPRI “Yearbook 2021” assesses the current state of armaments, disarmament and international security.

Key Points

▪ **Nine Nuclear Armed States:**

- The nine nuclear armed states are: **US, Russia, the U.K., France, China, India, Pakistan, Israel and North Korea.**
 - These countries **together possessed an estimated 13,080 nuclear weapons** at the start of 2021.
 - **Russia and the US together possessed over 90% of global nuclear weapons** and have extensive and expensive modernisation programmes under way.
 - Both the US and [Russia have approved](#) the extension of the [New START treaty](#).
 - The Treaty is the last remaining **nuclear Russia-US arms control treaty** which expired in February 2021.
- **China’s nuclear arsenal consisted of 350 warheads up from 320** at the start of 2020.
 - China is in the middle of a significant modernisation and expansion of its nuclear weapon inventory.
- **India possessed an estimated 156 nuclear warheads** at the start of 2021 **compared to 150** at the start of last year, while **Pakistan had 165 warheads, up from 160** in 2020.
 - India and Pakistan are seeking new technologies and capabilities that dangerously undermine each other’s defence under the nuclear threshold.
- **Low Levels of Transparency:** The availability of reliable information on the status of the nuclear arsenals and capabilities of the nuclear-armed states vary considerably.

▪ **Largest Military Spenders:**

- The growth in [total spending in 2020](#) was largely influenced by expenditure patterns in the **United States and China** (first and second largest spenders respectively).
- **India’s** spending of USD 72.9 billion, an increase of 2.1% in 2020, ranked it as the **third highest spender in the world.**

▪ Importers of Major Arms:

- SIPRI **identified 164 states** as importers of major arms in 2016-20.
- **Country Wise:** The **five largest arms importers** were **Saudi Arabia, India, Egypt, Australia and China**, which together accounted for 36% of total arms imports.
- **Region wise:** The region that received the largest volume of major arms supplies in 2016-20 was **Asia and Oceania**, accounting for 42% of the global total, followed by the **Middle East**, which received 33%.

▪ Suppliers of Major Arms:

- The **five largest suppliers** in 2016-20 - the **United States, Russia, France, Germany and China** - accounted for 76% of the total volume of exports of major arms.

▪ Recent Instances of Armed Conflict:

- The **territorial conflict between India and Pakistan over [Kashmir](#)**. The situation in 2020 largely reverted to the status quo of relatively low levels of armed violence.
- In June 2020, for the first time in over five decades, the **[border tensions between China and India](#)** in the disputed eastern Ladakh region of Kashmir turned deadly.
- A new armed conflict broke out in the **[Tigray region of northern Ethiopia](#)** in November 2020 between federal government forces and the Tigray People's Liberation Front, which killed thousands and forced more than 46, 000 refugees to flee into eastern Sudan.

Nuclear Weapons

▪ About:

- Nuclear weapon is **a device designed to release energy in an explosive manner** as a result of nuclear fission, nuclear fusion, or a combination of the two.
- Fission weapons are commonly referred to as **atomic bombs**, and fusion weapons are referred to as thermonuclear bombs or, more commonly, **hydrogen bombs**.
- These have been used in the **bombings of Hiroshima and Nagasaki in 1945**.

▪ Treaties Preventing Nuclear Proliferation and Testing

- The **Treaty on the [Non-Proliferation of Nuclear Weapons \(NPT\)](#)**.
- The Treaty Banning Nuclear Weapon Tests In The Atmosphere, In Outer Space And Under Water, also known as the **Partial Test Ban Treaty (PTBT)**.
- The **[Comprehensive Nuclear-Test-Ban Treaty \(CTBT\)](#)** was signed in 1996 but has yet to enter into force.
- The **Treaty on the Prohibition of Nuclear Weapons (TPNW)**, which will enter into force on 22nd January 2021.

▪ Other Related Initiatives:

- **[Nuclear Suppliers Group](#)**, the **[Missile Technology Control Regime](#)**, the Hague Code of Conduct against Ballistic Missile Proliferation, and the **[Wassenaar Arrangement](#)**.

▪ India's Nuclear Weapon Program:

- India **tested its first nuclear device in May 1974**, and **remains outside both the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) and the Comprehensive Nuclear Test Ban Treaty (CTBT)**.
- However, India has a facility-specific safeguards agreement in place with the **[International Atomic Energy Agency \(IAEA\)](#)** and a waiver from the **Nuclear Suppliers Group (NSG)** allowing it to participate in global civilian nuclear technology commerce.
- It was admitted as a member into the **Missile Technology Control Regime (MTCR)** in 2016, **Wassenaar Arrangement** in 2017 and **Australia Group** in 2018.
- India **maintains its official commitment to [no-first-use](#) of nuclear weapons**.

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