

India-US Initiatives in Defence and Nuclear Cooperation

Source: HT

Why in News?

The **US <u>National Security Advisor</u>** visited India and signed **new initiatives** in areas such as technology and defence.

What are the new initiatives signed between India and the US?

 Civil Nuclear Cooperation: US announced to remove restrictions e.g., supply of US nuclear reactors on Indian nuclear entities like <u>Bhabha Atomic Research Center (BARC)</u> to implement <u>India-US civil nuclear cooperation agreement</u>.

Sonobuoy Co-Manufacturing: It aims to bolster the Indian Navy's underwater threat detection capabilities, particularly in detecting submarines and other hostile underwater objects.

- Missile Export Control: The US NSA briefed India on updates to missile export controls under the MTCR, enhancing space cooperation and creating new collaboration opportunities.
- India became a member of the MTCR in 2016.
- Advancement of <u>iCET</u>: Both nations reaffirmed cooperation in emerging technologies such as artificial intelligence, quantum computing, telecommunications, and space.

Note: India and the US decided to curb terrorism through 'de-radicalisation' of vulnerable communities.

What are Sonobuoys?

- About: Sonobuoys are expendable, electro-mechanical acoustic sensors designed to detect, classify, and track underwater sounds from ships and submarines.
 They are primarily used in anti-submarine warfare (ASW).
- Functioning: They are dropped in canisters, activate upon hitting water, and deploy an inflatable system with a radio transmitter on the surface.
- They remain active for around 24 hours and are designed to operate only once.
 Communication: The inflatable system on the surface of the water maintains communication
- with the ship or aircraft tracking the sonobuoy.

India-US Civil Nuclear Cooperation Agreement

- About: Also known as the 123 Agreement, it allows India to access nuclear fuel, technology, and reactors for peaceful purposes like energy generation, even though India is not a signatory to the <u>Nuclear Non-Proliferation Treaty (NPT)</u>.
- Key Components: India agreed to place its civilian nuclear facilities under <u>IAEA</u> safeguards to ensure peaceful use of nuclear material.

• The US sought a **NSG** exemption to enable trade with India's expanding peaceful nuclear sector.

UPSC Civil Services Examination, Previous Year Question (PYQ)

<u>Prelims</u>

Q. In India, why are some nuclear reactors kept under "IAEA safeguards" while others are not? (2020)

- (a) Some use uranium and others use thorium
- (b) Some use imported uranium and others use domestic supplies
- (c) Some are operated by foreign enterprises and others are operated by domestic enterprises
- (d) Some are State-owned and others are privately owned

Ans: (b)

Q.In the Indian context, what is the implication of ratifying the 'Additional Protocol' with the 'International Atomic Energy Agency (IAEA)'?(2018)

- (a) The civilian nuclear reactors come under IAEA safeguards.
- (b) The military nuclear installations come under the inspection of IAEA.
- (c) The country will have the privilege to buy uranium from the Nuclear Suppliers Group(NSG).
- (d) The country automatically becomes a member of the NSG.

Ans: (a)

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