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TODAY'S ANALYSIS

(03 September 2024)

TOPICS TO BE COVERED

- **INS ARIGHAT**
- **47 INDIANS RESCUED FROM CYBER SCAM CENTRES IN LAOS**
- **MCQs**



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INS ARIGHAT



Event: On August 29, 2024, Defence Minister Rajnath Singh commissioned INS Arighat, India's second nuclear-powered ballistic missile submarine (SSBN), at an event in Visakhapatnam.

ABOUT INS ARIGHAT

- **Name and Design:**
 - **Name Meaning:** 'Destroyer of enemies' in Sanskrit.
 - **Class:** Arihant-class, following the lead submarine INS Arihant.
 - **Construction Timeline:** Construction began in 2017 at the Ship Building Centre, Visakhapatnam.

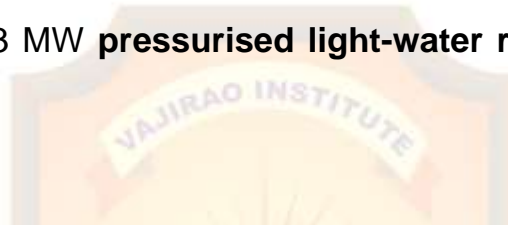
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• **Specifications:**

- **Displacement:** 6,000 tonnes.
- **Length:** 112 meters.
- **Speed:** Surface speed of 12-15 knots; underwater speed of up to 24 knots.
- **Power:** Powered by 83 MW **pressurised light-water reactors** allowing for extended submerged durations.



INS Arighat

Nuclear-capable submarine-launched missiles

- K-4 (in development) Range: 3,500km
- K-15 Sagarika Range: 750km

ARIHANT-CLASS SPECIFICATIONS

Length	110 metres
Displacement	6,000 tonnes
Crew	95
Surface speed	15 knots (28km/h)
Submerged speed	24 knots (44km/h)

INS ARIGHAT: Indian Navy's second indigenously-designed and built Arihant-class submarine

Six 533mm torpedo tubes

Propulsion
80MW nuclear pressurised water reactor drives steam turbine

Vertical launch tubes
Can carry 12 K-15 (three per tube) or four K-4 missiles

INDIA'S SUBMARINE FLEET

Nuclear-powered ballistic missile submarines (SSBN): 2

INS Arihant INS Arighat

Nuclear attack submarine (SSN): 1

INS Chakra

Diesel-electric submarines (SSK): 14

Kalvari-class (2)

Shishumar-class (4)

Sindhughosh-class (8)

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- **Armament:**

- **Missiles:** Capable of carrying either up to **4 (K-4 SLBMs)** with a range exceeding 3,500 kilometers or **12 (K-15 SLBMs)** with a range of around **750 kilometers**.
- **Additional Armament:** Equipped with **torpedoes** for enhanced combat capability.

HISTORY OF THE INDIAN SUBMARINE PLAN

- **INS Arihant:**

- **Launch:** 2009, **Commissioned:** 2016.
- **Significance:** **First nuclear-powered submarine in India's fleet**, establishing India's nuclear triad with its first deterrence patrol completed in 2018.

- **Development Timeline:**

- **Origins:** Began over 30 years ago with collaboration from private companies and the Defence Research & Development Organisation (DRDO), including significant assistance from Russia.

WHY IT MATTERS?

- **Enhancing Nuclear Capabilities:**

- **Nuclear Triad:** The addition of INS **Arighat** boosts India's nuclear triad capabilities, which include the ability to launch nuclear missiles from land, air, and sea platforms.

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- **Technological Advancements:**

- **Stealth Capabilities:** INS Arighat features advanced **stealth technology, including improved sonar systems and quiet propulsion**, which enhance its ability to operate undetected and respond swiftly to threats.

STRATEGIC ROLE & NUCLEAR TRIAD

- **Nuclear Triad:**

- **Components:** The triad includes **land-based missiles, air-launched missiles, and sea-based missiles.**
- **Impact:** INS Arighat enhances India's ability to conduct a credible retaliatory strike, which is crucial for maintaining a strong deterrent posture.

- **Nuclear Deterrence:**

- **Sea-Based Component:** INS Arighat enhances India's sea leg of the nuclear triad, complementing land and air-based systems, and **supports India's "no first use" nuclear policy.**

- **Strategic Balance:**

- **Defense Minister's Statement:** Rajnath Singh emphasized that **INS Arighat will play a key role in maintaining regional peace and balance**, reflecting its importance in India's defense strategy.

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FUTURE PLANS

- **Current Fleet:**

- **Composition:** India's submarine fleet includes 16 conventional submarines alongside INS Arighat and INS Arihant.

- **Additional Submarines:**

- **Planned:** 2 larger SSBNs, each with eight missile tubes, are being built. INS Aridaman is expected to be commissioned next year, with a fourth SSBN to follow.

- **Global Context:**

- **Status:** With INS Arighat, India joins a select group of nations with operational nuclear-powered submarines, including the **US, Russia, UK, France, and China**. This positions India as a significant naval power with advanced strategic capabilities.

WHAT COMMISSIONING OF INS ARIGHAT MEANS TO INDIA?

- **Pride and Achievement:**

- **Exclusive Club:** India has now become part of an elite group of countries capable of building and operating nuclear-powered ballistic missile submarines, reflecting major advancements in defense and scientific technology.

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- **Credit to the Navy:**

- **Role:** The Indian Navy has been crucial in the development and operationalization of the **SSBN program, highlighting its expertise and the complexity of submarine construction and operation.**

- **Significance of INS Arighat:**

- **Increased Self-Reliance:** Compared to **INS Arihant**, the **INS Arighat** incorporates a **higher proportion of locally-made components (60% vs. 30%)**, showcasing improved self-reliance and technological capability.

OPPORTUNITIES & CHALLENGES

- **Opportunities:**

- **Innovation and Growth:** High local content in SSBNs like INS Arighat presents opportunities for **further innovation, job creation, and industrial growth in the defense sector.**

- **Challenges:**

- **Technical and Operational:** Addressing the technical, operational, and training challenges associated with advanced submarine technology will enhance India's defense capabilities and expertise.

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47 INDIANS RESCUED FROM CYBER SCAM CENTRES IN LAOS

Event: On August 29, the Indian Embassy in Laos rescued 47 Indian nationals from cyber scam centres within the Golden Triangle SEZ in Bokeo province.



The embassy has issued a strong warning to Indian citizens about fraudulent job offers in Laos and advised thorough verification before accepting job offers.

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DETAILS OF THE RESCUE OPERATION

- **Rescue Efforts:**

- **Total Rescued:** 47 Indians.

- **Breakdown of Rescue Sources:**

- **29 individuals** were rescued by Laos authorities following their crackdown on illegal operations in the Golden Triangle SEZ.

- **18 individuals** approached the Indian Embassy directly in distress, seeking urgent help.

- **Conditions:** Rescued individuals **reported severe deprivation, including lack of food and rest**, if they failed to meet their daily work targets.

- **Scam Mechanism:**

- **Impersonation Tactics:** Scammers used fake profiles on dating apps to engage **potential victims**, eventually convincing them to invest in cryptocurrency trading schemes.

- **Exploitation:** Victims were **subjected to harsh conditions and high-pressure tactics** to ensure they met daily financial targets.

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- **Embassy Actions:**

- **Advisory Issued:** The Indian Embassy issued a comprehensive advisory warning Indian nationals about the **risk of fake job offers in Laos and urging** them to verify the authenticity of any job offer through reliable channels.
- **Operational Coordination:** Embassy officials traveled from Vientiane, the **capital of Laos, to Bokeo to work closely with local authorities on the rescue operation.**
- **Repatriation:** The embassy has facilitated the repatriation process, **with 30 individuals having already returned to India or en route**, while the remaining 17 are awaiting final travel arrangements.

INDIAN EMBASSY'S ADVISORY

- **Warnings and Guidance:**

- **Content of Advisory:** The advisory on the embassy's website provides detailed instructions on how to verify job offers and avoid falling prey to scams. It also encourages individuals to contact the embassy if they have any doubts about job offers or other related issues.

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- **Public Awareness:** The embassy's advisory aims to raise awareness among potential job seekers about the risks associated with job offers in countries with less stringent regulatory environments.
- **Diplomatic Engagement:**
 - **High-Level Discussions:** External Affairs Minister **S. Jaishankar** addressed the issue of human trafficking and cybercrime with Laos Prime Minister **Sonexay Siphandone** during his visit to Laos. This shows the seriousness of the issue and the need for collaborative efforts to combat such crimes.
 - **Previous Rescues:** In the previous month, the Indian Embassy had also rescued **13 Indians from similar situations**, further highlighting ongoing issues with cyber scams in Laos.

STRATEGIC IMPACT

- **Citizen Protection:**
 - **Significance:** The successful rescue of Indian nationals highlights the importance of vigilant verification processes to prevent individuals from

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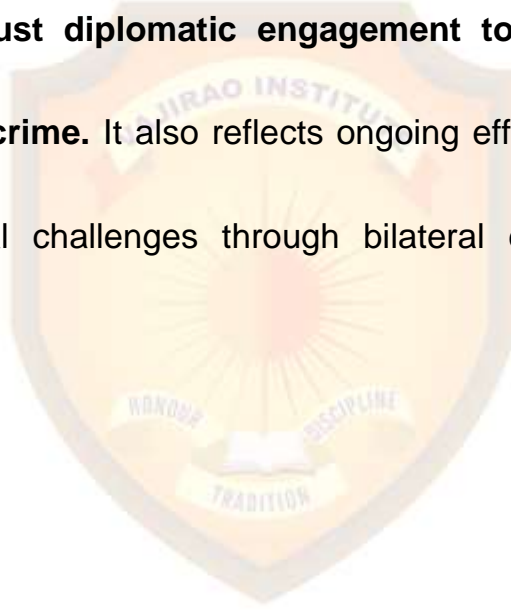
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becoming victims of international scams. It also underscores the effective role of diplomatic missions in ensuring the safety of their citizens abroad.

- **International Cooperation:**

- **Diplomatic Relations:** The incident demonstrates the necessity of international collaboration and **robust diplomatic engagement to address issues of human trafficking and cybercrime.** It also reflects ongoing efforts by the Indian government to tackle these global challenges through bilateral discussions and international cooperation.



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MCQs

1. Consider the following statements and mark the correct one:

1. INS Arighat is India's first nuclear powered submarine.
2. INS Arighat can launch nuclear missiles.

- (A) Only 1
(B) Only 2
(C) Both 1 & 2
(D) Neither 1 nor 2

Ans. (B)

2. What are the probable benefits of a nuclear fired submarine?

1. It can submerged for longer hours.
2. It's propulsion will be relatively silent as compared to Diesel fired submarine.

- (A) Only 1
(B) Only 2
(C) Both 1 & 2
(D) Neither 1 nor 2

Ans. (C)

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3. Which of the following countries has a Nuclear Fired submarine commissioned?

1. Australia
2. France
3. Japan
4. China

- (A) Only 2,3 & 4
(B) Only 1, 2 & 4
(C) Only 2 & 4
(D) All of the above



Ans. (C)

4. Consider the following comparisons between INS Arihant & INS Arighat. Mark the ones which are correct.

1. INS Arighat can carry more K 15 missiles than INS Arihant.
2. INS Arighat is completely indigenous whereas INS Arihant is not.

- (A) Only 1
(B) Only 2
(C) Both 1 & 2
(D) Neither 1 nor 2

Ans. (A)

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5. Which of the following countries is landlocked?

- (A) Vietnam
- (B) Cambodia
- (C) Laos
- (D) None of the above

Ans. (C)



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