

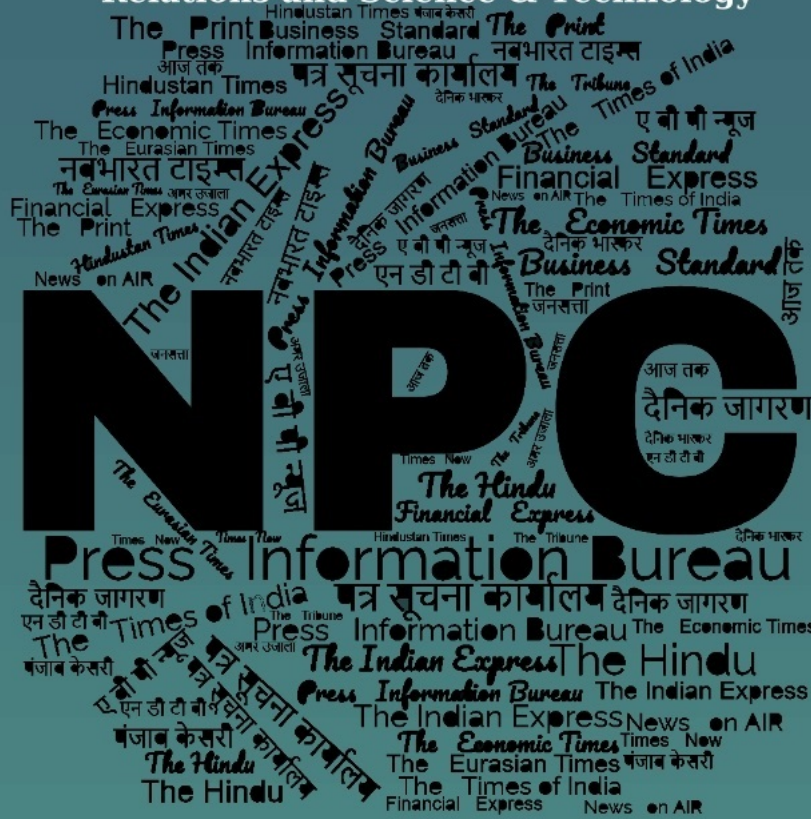
दिसंबर
Dec
2025

खंड/Vol. : 50 अंक/Issue : 229
16/12/2025

समाचार पत्रों से चयनित अंश Newspapers Clippings

डीआरडीओ समुदाय को डीआरडीओ प्रौद्योगिकियों, रक्षा प्रौद्योगिकियों, रक्षा नीतियों, अंतर्राष्ट्रीय संबंधों और विज्ञान एवं प्रौद्योगिकी की नूतन जानकारी से अवगत कराने हेतु दैनिक सेवा

A Daily service to keep DRDO Fraternity abreast with DRDO Technologies, Defence Technologies, Defence Policies, International Relations and Science & Technology



रक्षा विज्ञान पुस्तकालय
Defence Science Library
रक्षा वैज्ञानिक सूचना एवं प्रलेखन केंद्र
Defence Scientific Information & Documentation Centre
मेटकॉफ हाउस, दिल्ली - 110 054
Metcalf House, Delhi - 110 054

CONTENTS

S. No.	Title	Source	Page No.
Defence News			1-7
1	पुतिन ने भारत के साथ सैन्य समझौते को संघिया कानून के तौर पर मंजूरी दी	<i>Jansatta</i>	1
2	Army celebrates Vijay Diwas, hails indigenous technology	<i>The Indian Express</i>	1
3	Conclusion of CNS Visit to Brazil	<i>Press Information Bureau</i>	2
4	DCNS visit to Maldives closing ceremony of Exercise Ekatha - 2025	<i>Press Information Bureau</i>	3
5	Rafale's radar components to be made in India	<i>The Tribune</i>	4
6	भारत और यूएई के बीच रक्षा संबंधों को बढ़ाने पर चर्चा	<i>Jansatta</i>	5
7	UAE commander meets Gen. Dwivedi	<i>The Asian Age</i>	5
8	US-Pakistan F-16 deal: Red flags in Delhi	<i>The Pioneer</i>	6
Science & Technology News			8-9
9	भारत ने पहला स्वदेशी माइक्रोप्रोसेसर पेश किया	<i>Dainik Jagran</i>	8
10	BARC to set up new centre near Vizag to boost nuclear research	<i>The Tribune</i>	8

Defence News

पुतिन ने भारत के साथ सैन्य समझौते को संघीय कानून के तौर पर मंजूरी दी

Source: Jansatta, Dt. 16 Dec 2025

जनसत्ता ब्यूरो
नई दिल्ली, 15 दिसंबर।

रूस के राष्ट्रपति व्लादिमीर पुतिन ने सोमवार को भारत के साथ इस साल की शुरुआत में हुए एक अहम सैन्य समझौते को संघीय कानून के तौर पर मंजूरी दे दी, जिसे रूसी संसद के दोनों सदन ने पहले ही पास कर दिया था।

दोनों देशों के बीच रसद समर्थन के आपसी आदान-प्रदान (रेलोस) समझौते को दो दिसंबर को स्टेट ड्यूमा (निचले सदन) और 8 दिसंबर को काउंसिल ऑफ फेडरेशन (ऊपरी सदन) ने मंजूरी दे दी थी। इस समझौते को राष्ट्रपति की मंजूरी के लिए भेजा गया था ताकि इसे संघीय कानून बनाया जा सके। रेलोस समझौते में रूस

समझौते को राष्ट्रपति की मंजूरी के लिए भेजा गया था ताकि इसे संघीय कानून बनाया जा सके।

की सैन्य फार्मेशन, युद्धपोतों और सैन्य विमानों को भारत भेजने तथा भारत की ओर से भी ऐसा किए जाने, उनके आपसी रसद समर्थन के संगठन की प्रक्रिया तय की गई है।

स्थापित प्रक्रिया का इस्तेमाल संयुक्त अभ्यासों, प्रशिक्षण, मानवीय सहायता, आपदा राहत प्रयासों और आपसी सहमति से तय किए गए अन्य मामलों में किया जाएगा। रूसी कैबिनेट के 'एक्सप्लेनेटरी नोट' में बताया गया है कि यह समझौता न सिर्फ सैनिकों और उपकरणों को भेजने बल्कि उनकी **बाकी पेज 8 पर**

रसद को भी विनियमित करेगा। ड्यूमा की वेबसाइट पर पोस्ट किए गए एक नोट में, रूसी मंत्रिमंडल ने कहा कि इस दस्तावेज की स्वीकारोक्ति से दोनों देशों के हवाई क्षेत्र का आपसी इस्तेमाल आसान होगा और रूसी तथा

भारतीय युद्धपोतों के लिए 'पोर्ट काल' भी आसान हो जाएगी। इसके अलावा, यह समझौता दोनों देशों के बीच सैन्य सहयोग को मजबूत करेगा। दोनों देशों के बीच पुष्टि के दस्तावेजों के आदान-प्रदान के बाद यह अहम सैन्य समझौता लागू होगा।

*

Army celebrates Vijay Diwas, hails indigenous technology

Source: The Hindu, Dt. 16 Dec 2025

The Indian Army organised the Vijay Diwas 'At Home' at the Army House on Monday (December 15, 2025), to commemorate Vijay Diwas, marking the decisive victory of the Indian Armed Forces in the 1971 War. The event was attended by President Droupadi Murmu.

The Defence Ministry said that the celebrations featured a showcase of indigenously developed technologies and niche capabilities, highlighting the Indian Army's steady transformation into a modern, innovative and self-reliant force. The displays reflected the growing synergy between Indian soldiers, engineers, startups and academic institutions in developing cutting-edge solutions to strengthen national security.

A wide range of homegrown equipment and innovations was exhibited, underscoring the Army's journey towards becoming a future-ready force. Several of the showcased technologies demonstrated dual-use potential, contributing to disaster response, infrastructure development and sustainability, the Ministry said.



The Vijay Diwas celebrations were held at Army House in New Delhi

A large number of guests, including 73 Ambassadors and High Commissioners, Gallantry Award winners, eminent sportspersons, achievers from diverse fields and senior Indian leadership attended the event.

The Vijay Diwas 'At Home' displays reaffirmed the Indian Army's transformation driven by Indian minds, Indian industry and Indian values, blending operational experience with innovation to enhance national security while promoting self-reliance and sustainable development, the Ministry said.

<https://www.thehindu.com/news/national/army-celebrates-vijay-diwas-hails-indigenous-technology/article70400250.ece>

*

Conclusion of CNS Visit to Brazil

Source: Press Information Bureau, Dt. 15 Dec 2025

Admiral Dinesh K Tripathi, Chief of the Naval Staff of the Indian Navy, concluded his official visit to Brazil from 09-12 Dec 2025, which was aimed at strengthening the maritime partnership between the two nations.

During the visit, the CNS held high level engagements with senior Brazilian officials, including the Defence Minister, the Chief of the Joint Staff of the Brazilian Armed Forces, and the Commander of the Brazilian Navy. Discussions focused on bilateral cooperation and defence industry collaboration. A key development was the signing of a Memorandum of Understanding (MoU) on exchanging information on maintenance of Scorpene-class submarines and other naval vessels, between the Indian Navy, the Brazilian Navy, and Mazagon Dock Shipbuilders Limited (MDL).



The CNS visited various Brazilian Navy facilities, including the Itaguai Naval Complex and the amphibious helicopter carrier, NAM Atlantico (A140). CNS also attended the Passing Out Parade of 140 midshipmen at the Brazilian Navy's Naval Academy at Rio de Janeiro. These engagements underscore the mutual commitment to deepen maritime cooperation between India and Brazil, advancing shared security goals, and training cooperation.

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2204312®=3&lang=1>

*

DCNS visit to Maldives closing ceremony of Exercise Ekatha - 2025

Source: Press Information Bureau, Dt. 15 Dec 2025

VAdm Tarun Sobti, Deputy Chief of the Naval Staff(DCNS), Indian Navy, is on an official visit to Maldives from 15 to 17 Dec 25 to attend the closing ceremony of Ex Ekatha 2025.

Established in 2017, Exercise Ekatha is an annual bilateral maritime exercise between the Indian Navy and the Maldives National Defence Force (MNDF). The 8th edition of the exercise witnessed extensive professional interactions aimed at enhancing interoperability and operational synergy. The activities included technical and combat diving, boarding operations, firing drills, demolition and explosive handling, asymmetric warfare tactics, and special heli-borne operation drills.

On arrival in Male, VAdm Sobti met the Chief of Defence Force, MNDF, Major General Ibrahim Hilmy. The discussions focused on addressing regional maritime security challenges, enhancing training engagements, strengthening cooperation against drug trafficking, and reviewing the progress of ongoing defence projects.

Avenues to further enhance maritime information sharing between the two navies were also deliberated. DCNS also handed over a consignment of operational spares for MNDF Coast Guard Ship Huravee to Maj Gen Ibrahim Hilmy CDF, MNDF in a function held onboard INS Sharda at Male, Maldives on #15 Dec 25.



The maiden visit of the DCNS to Maldives reaffirms the Indian Navy's steadfast commitment to regional partners and underscores the strong defence and maritime cooperation between India and Maldives, in line with India's vision of 'Mutual and Holistic Advancement for Security and Growth for all in the Region (MAHASAGAR), and the Neighbourhood First policy.

<https://www.pib.gov.in/PressReleasePage.aspx?PRID=2204321®=3&lang=1>

*

Rafale's radar components to be made in India

Source: The Tribune, Dt. 16 Dec 2025

France-headquartered technology major Thales has awarded a contract to SFO Technologies, Kochi, to make wired structures of the radar used by Rafale jets of the Indian Air Force.

A statement by Thales said the contract awarded was for the production of high-value, technically advanced complex wired structures of the 'RBE2' Radar of the Indian Rafale. The jet uses a radar classified as active electronically scanned array (AESA) and is the latest in technology.

This is the first major order for high-value, technologically advanced complex wired structures — designed to withstand harsh environmental constraints— to be produced in India for the Dassault Aviation Rafale programme, the Thales said.

The move supports India's strategic localisation goals, expanding expertise from precision machining and wiring to complex systems integration. The Make in India strategy for the localisation of advanced radar systems, is expected to boost local manufacturing capabilities for critical Rafale sub-systems supplied to the Indian armed forces.

<https://www.tribuneindia.com/news/india/rafales-radar-components-to-be-made-in-india/>

*

भारत और यूएई के बीच रक्षा संबंधों को बढ़ाने पर चर्चा

Source: Jansatta, Dt. 16 Dec 2025

जनसत्ता ब्यूरो
नई दिल्ली, 15 दिसंबर।

संयुक्त अरब अमीरात (यूएई) के राष्ट्रपति गार्ड के कमांडर मेजर जनरल अली सैफ हुमैद अलकाबी ने सोमवार को सेना प्रमुख जनरल उपेंद्र द्विवेदी से मुलाकात की।

इस दौरान, दोनों पक्षों के बीच रक्षा सहयोग को बढ़ावा देने और सैन्य जुड़ाव को गहरा करने के उपायों पर चर्चा हुई। भारत यात्रा पर आए मेजर जनरल अलकाबी ने भारतीय सेना के वरिष्ठ अधिकारियों के साथ उच्चस्तरीय बातचीत भी की। इस दौरान उन्हें 'आपरेशन सिंदूर' और क्षेत्र को लेकर भारत के सुरक्षा दृष्टिकोण के बारे में जानकारी दी गई। भारतीय सेना ने 'एक्स' पर

एक पोस्ट में मेजर जनरल अलकाबी की यात्रा से जुड़ी कुछ तस्वीरें साझा कीं।

सेना ने जनरल द्विवेदी और मेजर जनरल अलकाबी की मुलाकात के बारे में कहा, 'उन्होंने द्विपक्षीय रक्षा सहयोग बढ़ाने, सैन्य जुड़ाव को गहरा करने और क्षेत्रीय स्थिरता एवं वैश्विक शांति के प्रति अपनी साझा प्रतिबद्धता को मजबूत करने के उपायों पर चर्चा की।' इसने कहा कि मेजर जनरल अलकाबी ने भारतीय सेना के वरिष्ठ अधिकारियों के साथ उच्चस्तरीय चर्चा में भी हिस्सा लिया, जिसमें उन्हें 'आपरेशन सिंदूर' और क्षेत्र को लेकर भारत के सुरक्षा दृष्टिकोण के बारे में जानकारी दी गई।' अधिकारियों के मुताबिक, मेजर जनरल अलकाबी को साउथ ब्लाक लान में 'गार्ड आफ आनर' दिया गया।

*

UAE commander meets Gen. Dwivedi

Source: The Asian Age, Dt. 16 Dec 2025

New Delhi: Commander of the Presidential Guard of the UAE Maj. Gen. Ali Saif Humaid Alkaabi called on Army chief Gen. Upendra Dwivedi and held discussions on enhancing defence cooperation and deepening military-to-military engagement, officials said on Monday. The visiting United Arab Emirates leader also engaged in high-level discussions with senior military leaders. He was briefed on Operation Sindoor and India's security perspective in the region, they said. The Indian Army also shared some photos of his visit in a post on X. On the meeting between the two leaders, the Army said, "They held discussions on enhancing bilateral defence cooperation, deepening military-to-military engagement and reinforcing their shared commitment to regional stability and global peace." — PTI

*

US-Pakistan F-16 deal: Red flags in Delhi

-by Bhopinder Singh (military veteran, former Lt Governor of Andaman & Nicobar Islands and Puducherry)

Source: The Pioneer, Dt. 16 Dec 2025

In diplomacy, timing writes the script and optics stage the play. The timing besetting the recent United States government's agreement to a \$686 million deal to upgrade the Pakistani Air Force's F-16 fighter planes, as indeed the various contexts surrounding the same, is ominous and questionable, to say the least.

Way back in 2021, Pakistan had formally submitted an appeal to the US government for such a comprehensive upgrade of its frontline fighter planes, but the Joe Biden administration had taken a suspicious view of Pakistani intent.

Given the less-than-credible track record of the duplicitous Pakistanis in fighting terrorism (especially in Afghanistan, where US stakes were high at the time), with Imran Khan as Prime Minister (infamous as "Taliban Khan"), and with its continuing machinations across the Line of Control, the request was put on the back burner. Technically still a supposed "ally", Pakistan was afforded scepticism, as the US did not want to jeopardise its growing equation under its "pivot to Asia", ie, India.

This calibrated restraint fit well with the strategic template of maintaining "sustainment" of Pakistani military capabilities, as opposed to "enhancement". Therefore, the next year, a much-curtailed "sustainment" package was offered, which did not enhance its war-fighting capabilities or weaponry. It made eminent sense to water down Pakistan's request, because its ostensible justification of the F-16 upgrade to "fight terrorism" convinced no one.

There can certainly be certain militaristic platforms such as drones, helicopters, surveillance elements, or even close-range engagement weapons — but F-16 fighter planes for fighting terrorism? India had rightfully protested the thin logic underlying the upgrade request, and the US had to confirm that it did not amount to a "capability upgrade". They maintained an "airworthy" angle of maintenance and safety.

Also, the existence of a sizeable American wherewithal in landlocked Afghanistan during 2021-22 necessitated the US government retaining a bare minimum semblance of support to Pakistan in order to deter it from going completely into Chinese hands. But all those considerations and sensitivities were of that time, and Joe Biden navigated them with dexterity and sensitivity, without offending India (beyond a point) while securing US interests in Afghanistan and Pakistan.

But with the unpredictable "deal-maker", rather than a President, Donald Trump in the chair, those cautionary nuances and moderations have been thrown to the wind. Trump has unabashedly reneged on his own past statements and concerns about supporting Pakistan militarily, as he acceded to the obviously questionable request for an F-16 upgrade.

For context, on January 1, 2018, Trump had tweeted: "The United States has foolishly given Pakistan more than 33 billion dollars in aid over the last 15 years, and they have given us nothing but lies & deceit, thinking of our leaders as fools. They give safe haven to the terrorists we hunt in Afghanistan, with little help. No more!" That tweet appears to have been forgotten by Trump today.

While the logic of avoiding Pakistan going belly-up through total abandonment — with the loss of critical visibility over American weaponry-and potentially becoming another Afghanistan is very

real, even the possibility of a complete surrender to China to secure its full security needs is a legitimate fear haunting Washington, DC. But the US definitely owes a duty to reassure India after the particularly sham upgrade logic of “counter-terrorism support”, and to ensure that the move does not alter the security balance in the hyphenated Indo-Pak calculus.

Regional emotions and wounds from the recent Operation Sindoor are still raw, where air power played a dominant role in that showdown. Simply put, this timely upgrade-however limited-can only be advantageous and timely for Pakistan, and not so for India.

The Pakistanis have been clever in limiting and contextualising the recent move towards improving “integration” and “interoperability” with the US Air Force. They have played down regional competition, as that would undermine the official justification-but commentators on both sides of the Line of Control know better than to believe the official script. Even the fine print of the letter issued by the US Defence Security Cooperation Agency (DSCA) clearly notes: “It provides the warfighter key theatre functions such as surveillance, identification, air control, weapons engagement coordination, and direction for all services and allied forces” — hardly connectable with the issue of counter-terrorism.

There is still time for the final contract to come through, as it requires procedural vetting by US legislators, but the principal agreement is in place. What is truly disconcerting is the level of accommodation and reprieve granted to Pakistan when it comes to its murky role in the “War on Terror” — something for which the US has paid a personal and terrible price. To continue supporting Pakistan’s so-called counter-terrorism preparedness through F-16 upgradation is dubious, even if one were to suspend logic entirely and somehow believe that fighter aircraft can be used for counter-terrorism.

More likely than not, the move is aimed at strengthening Field Marshal Asim Munir’s hand by signalling that he has delivered results through the US-something his nemesis, Imran Khan, could not achieve. That, and such other plausible reasons notwithstanding, the US must balance its counterintuitive leniency towards Pakistan with matching considerations and accommodations towards Delhi. After all, in diplomacy, optics speak louder than words.

<https://dailypioneer.com/news/us-pakistan-f-16-deal-red-flags-in-delhi>

*

Science & Technology News

भारत ने पहला स्वदेशी माइक्रोप्रोसेसर पेश किया

Source: *Dainik Jagran*, Dt. 16 Dec 2025

नई दिल्ली, एएनआइ: सोमवार को भारत ने ध्रुव64 के लांच के साथ सेमीकंडक्टर के क्षेत्र में ऐतिहासिक उपलब्धि हासिल की। यह देश का पहला 1.0 गीगहर्ट्ज 64-बिट डुअल-कोर माइक्रोप्रोसेसर है। माइक्रोप्रोसेसर डेवलपमेंट प्रोग्राम के तहत सेंटर फार डेवलपमेंट आफ एडवांस्ड कंप्यूटिंग (सी-डैक) ने इस प्रोसेसर को डिजाइन किया गया है। आयातित प्रोसेसर पर निर्भरता को कम करने के लिए योजना के तहत ध्रुव64 को डिजाइन किया गया है। यह प्रोसेसर रणनीतिक और व्यावसायिक दोनों तरह से इस्तेमाल हो सकेगा। ध्रुव64 से पहले भारत ने शक्ति, अजीत, विक्रम और तेजस64 जैसे प्रोसेसर के साथ अपना इकोसिस्टम बनाना शुरू कर दिया था। ध्रुव64 स्टार्टअप, शोधकर्ताओं और उद्योगों को विदेशी प्रोसेसर पर निर्भर हुए बिना प्रोडक्ट बनाने और टेस्ट करने के लिए एक प्लेटफार्म प्रदान करता है। यह कम लागत पर प्रोटोटाइप डेवलपमेंट को भी सपोर्ट करता है।

*

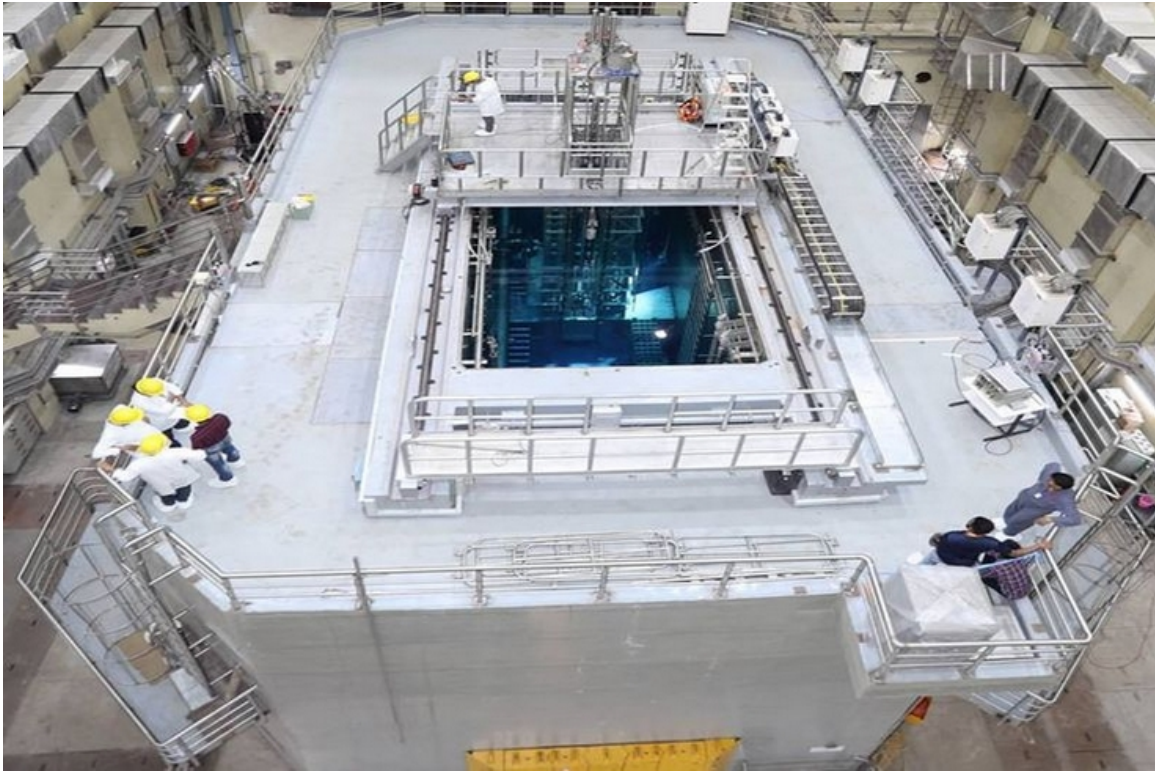
BARC to set up new centre near Vizag to boost nuclear research

Source: *The Tribune*, Dt. 16 Dec 2025

The Bhabha Atomic Research Centre (BARC) is setting up a new campus on the east coast near Visakhapatnam to boost nuclear research. This centre will carry out research in the nuclear field with applications in energy security, health, agriculture, water and other strategic areas.

“BARC is setting up a new campus on the east coast near Visakhapatnam based on strategic reasons. The selection of the site was based on recommendations of the Site Selection Committee and approved by the Atomic Energy Commission. Of this 1,207 hectares of revenue land has already been acquired for the project. The 148.15 hectares of forest land proposed for diversion is adjacent to this acquired land and lies between the project site and sea,” the minutes of the meeting of the Advisory Committee said.

Of the 148.15 hectares, 120.32 hectares will be left undisturbed and will serve as buffer zones required for security and safety reasons. Only 27.83 hectares is planned to be developed for purposes like routing of services and effluent discharge and sea water lines, construction of jetty, security watch towers, compound wall and patrolling roads.



An inside view of a research reactor at BARC

As many as 1,722 of the 21,244 trees on the land will be felled. However, those located in areas close to the sea will not be cut, and the EAC said this would not affect the general ecosystem. Due to the strategic nature of the project the detailed project report (DPR) is protected from disclosure. “No land use change shall be considered for non-site specific activities in future on the diverted land,” the committee said while recommending the proposal.

<https://www.tribuneindia.com/news/top-headlines/barc-to-set-up-new-centre-near-vizag-to-boost-nuclear-research/>

*

The Tribune
The Statesman
ਪੰਜਾਬ ਕੇਸਰੀ ਜਨਸੱਤਾ
The Hindu
The Economic Times
Press Information Bureau
The Indian Express
The Times of India
Hindustan Times
नवभारत टाइम्स
दैनिक जागरण
The Asian Age
The Pioneer