

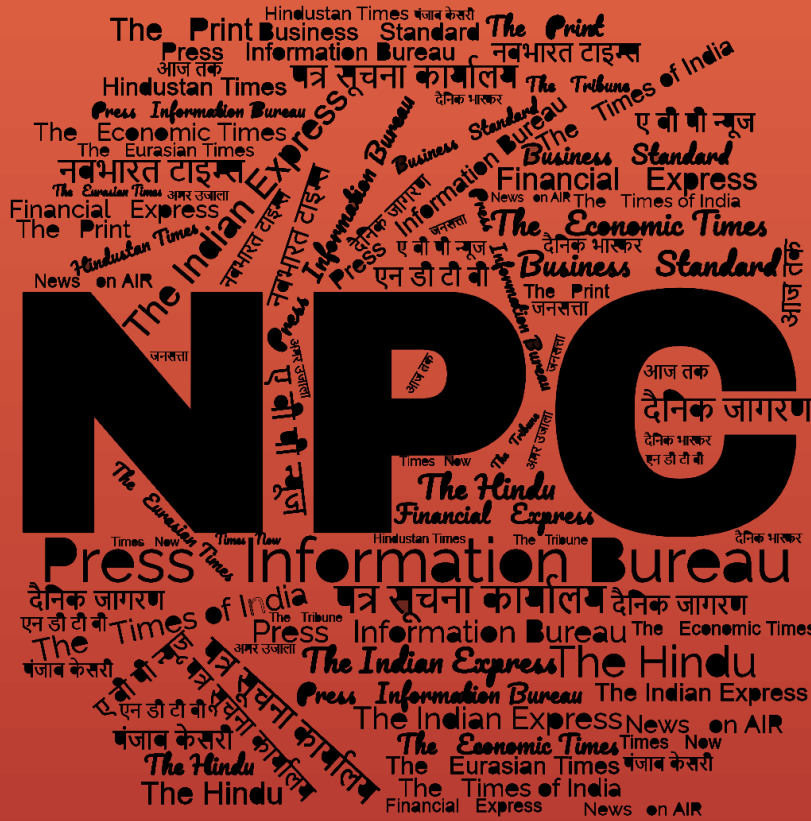
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समाचार पत्रों से चयित अंश Newspapers Clippings

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

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CONTENTS

S. No.	TITLE	Page No.
DRDO News		1-3
DRDO Technology News		1-3
1.	DRDO Organises Two-day National Symposium & Industry Meet on 'Emerging Technologies in Infrastructure Development' in New Delhi	<i>Press Information Bureau</i> 1
2.	Ramjet Fuel: रक्षा के क्षेत्र में बड़ी सफलता, DMSRDE का BrahMos के लिए खास फ्यूल, पलक झपकते दुश्मन होंगे तबाह	वन इंडिया 2
3.	DRDO Develops Ramjet Fuel for Advanced Air-breathing Engine	<i>ANI</i> 3
Defence News		4-9
Defence Strategic: National/International		4-9
4.	Indian Naval Ships Delhi, Shakti, and Kiltan Completed their Visit to Singapore, as a Part of the Operational Deployment of the Eastern Fleet to the South China Sea	<i>Press Information Bureau</i> 4
5.	India-France Joint Military Exercise to Begin in Meghalaya on May 13	<i>Press Information Bureau</i> 4
6.	India and Armenia Strengthen Defence Ties amidst Regional Instability	<i>The Pioneer</i> 5
7.	China's 3rd Aircraft Carrier Fujian Completes 8-Day Maiden Sea Trial	<i>The Hindu</i> 6
8.	Putin Says Nuclear Forces 'Always' on Alert in Victory Day Speech	<i>The Economic Times</i> 8
Science & Technology News		9-10
9.	Logo Design Contest to Mark National Space Day	<i>Deccan Herald</i> 9
10.	GalaxEye to Get Access to ISRO's Satellite Testing Facilities	<i>India Today</i> 10



Press Information Bureau
Government of India

Ministry of Defence

Thu, 09 May 2024

DRDO Organises Two-day National Symposium & Industry Meet on ‘Emerging Technologies in Infrastructure Development’ in New Delhi

Defence Secretary calls for achieving self-reliance to deal with future challenges

Urges Infra firms to contribute in Govt’s efforts towards development of border areas

A National Symposium and Industry Meet on ‘Emerging Technologies in Infrastructure Development’, organised by Defence Research and Development Organisation (DRDO), was inaugurated by Defence Secretary Shri Giridhar Aramane in New Delhi on May 09, 2024. The two-day event, with the participation from the Armed Forces, academia, industry and DRDO, aims to foster dialogue, exchange knowledge and explore innovative approaches to address the challenges and opportunities presented by emerging technologies in infrastructure development in line with the vision of ‘Aatmanirbhar Bharat’.

In his address, the Defence Secretary emphasised on the need to achieve self-reliance in every field to deal with future challenges. He stated that India is a country with a significant percentage of young population, and self-reliance will ensure gainful employment to them.

Underlining the importance of achieving ‘Aatmanirbharta’ in defence, Shri Giridhar Aramane asserted that there is no trusted trend in geopolitics, and India cannot depend on other countries for its security & safeguarding national interests. He stressed that self-reliance will help the country take giant strides on the path of becoming a developed nation by 2047.

Highlighting the emphasis being laid by the Government on infrastructure development along the borders, the Defence Secretary exhorted the infrastructure firms to contribute in further strengthening the apparatus. He added that while the Armed Forces personnel are being provided with latest weapons/equipment, the private sector should contribute in bolstering the infrastructure set-up in the border areas. He referred to the Vibrant Villages Programme which aims to motivate people to stay in their native locations in border areas, and urged the firms to set up a separate section, within their respective organisations, which focuses on development in far-flung areas.

Shri Giridhar Aramane stated that the DRDO is extending support to the private sector in Research & Development, and together they can come up with new innovations to build faster & better in the times to come. He called upon the industry to walk hand-in-hand with the government, and focus more on the mass production of quality products in a time-bound manner. He also urged the

industry to collaborate with the academia to enhance the skills of the workforce, which can help realise a technology into a product.

Speaking on the occasion, Secretary, Department of Defence R&D and Chairman DRDO Dr Samir V Kamat emphasised on the importance of infrastructure in the development of a nation. He stated that India is witnessing a phenomenal growth in the field of technical infrastructure, which is required to maintain the country's strategic deterrence.

The DRDO Chairman added that technology is evolving rapidly, and the necessity of sustainable infrastructure and green infrastructure is now becoming a part of technical domain. "It's time to explore ways to incorporate the latest technologies in our technical infrastructure. We have made a good start, but work needs to be done to catch up with the best practices," he said.

Director General, Resource & Management Shri Purushottam Bej said the symposium, being attended by over 500 delegates with five technical sessions, will deliberate upon varying topics on emerging technologies in infrastructure development being expounded by experts from the users, industry, academia and scientists from DRDO. This will go a long way in igniting the minds of users, planners, designers, architects and ultimately the executives in realising the vision of the government and proving to be the stepping stone for a glorious future for the infrastructure development in the country at large.

The Defence Secretary also inaugurated the industry-partner exhibition, organised on the sidelines of the event, showcasing latest technologies and products developed by the various industry partners. The event also includes student competition from IITs, NITs and other Engineering colleges. A symposium souvenir and Research & Development Construction Establishment Work Procedure 2024 were also released during the event.

<https://pib.gov.in/PressReleasePage.aspx?PRID=2020080>



Thu, 09 May 2024

Ramjet Fuel: रक्षा के क्षेत्र में बड़ी सफलता, DMSRDE का BrahMos के लिए खास फ्यूल, पलक झपकते दुश्मन होंगे तबाह

रक्षा के क्षेत्र में भारत को एक और बड़ी सफलता मिली है। जिससे ब्रह्मोस तकनीकी की मिसाइलों की स्पीड एक बार फिर से बढ़ाई जा सकती है। रक्षा सामग्री और भंडार अनुसंधान एवं विकास प्रतिष्ठान (DMSRDE) ने एडवांस एयर ब्रीथिंग इंजन के लिए एक खास ईंधन तैयार किया है, जिसे लिक्विड रेजीमेट फ्यूल नाम दिया गया है। सुपसोनिक मिसाइलों की दक्षता बढ़ाने के लिए इसे भारतीय रक्षा अनुसंधान के दिशा में बड़ा प्रयास माना जा रहा है। लिक्विड रेजीमेट फ्यूल को तैयार करने के बाद DMSRDE सफलतापूर्वक परीक्षण भी कर लिया है।

भारत ने पिछले कुछ वर्षों के भीतर अपनी रक्षा प्रणाली को काफी मजबूत कर लिया है। भारत के पास अब लंबी दूरी की मिसाइलें हैं। सुपरसोनिक क्रूज मिसाइलों को अब रक्षा अनुसंधान संगठन ने काफी अपग्रेड किया है। हाल ही में ब्रह्मोस मिसाइलों को रक्षा अनुसंधान और विकास संगठन (DRDO) और रूस के मशीनोस्ट्रॉयेनिया द्वारा स्थापित एक ज्वाइंट वेंचर कंपनी ब्रह्मोस एयरोस्पेस (BrahMos Aerospace) द्वारा बनाया गया है।

ब्रह्मोस के कई वेरिएंट हैं, जिनमें जमीन से दागे जा सकने वाले वर्जन, युद्धपोत, पनडुब्बियां और सुखोई-30 लड़ाकू जेट शामिल हैं। लॉन्च किए गए जहाज के शुरुआती वर्जन ब्रह्मोस और लैंड बेस्ड सिस्टम 2005 और 2007 से भारतीय नौसेना और भारतीय सेना के लिए काम कर रहे हैं।

वहीं इस बीच बीपीसीएल और मिनरल ऑयल कॉर्पोरेशन उद्योग ने संयुक्त रूप से उन्नत वायु श्वास इंजन के लिए तरल रैमजेट ईंधन तैयार किया है। इस फ्यूल का सफलतापूर्वक टेस्ट भी कर लिया गया है।

इस हफ्ते बुधवार को जारी एक बयान में डीआरडीओ ने कहा, "डीएमएसआरडीई ने उन्नत वायु-श्वास इंजन के लिए तरल रैमजेट ईंधन विकसित करके एक ऐतिहासिक उपलब्धि हासिल की है। इस ईंधन का 8 मई को रक्षा अनुसंधान और विकास प्रयोगशाला (डीआरडीएल) में रैमजेट परीक्षण बिस्तर पर सफलतापूर्वक परीक्षण किया गया है। इस फ्यूल को विकसित करने के लिए बीपीसीएल और मिनरल ऑयल कॉर्पोरेशन ने मिलकर काम किया है।

इससे पहले डीआरडीओ ने सुपरसोनिक मिसाइल-असिस्टेड रिलीज़ ऑफ टॉरपीडो (SMART) प्रणाली के तहत विकसित मिसाइल का परीक्षण किया। ये टेस्ट 01 मई, 2024 को ओडिशा के तट पर डॉ एपीजे अब्दुल कलाम द्वीप से किया गया। ये स्मार्ट सुपरसोनिक मिसाइल एक अगली पीढ़ी की मिसाइल है, जो हल्के वजन वाली टारपीडो डिलीवरी प्रणाली के तहत विकसित की गई है। इसे भारतीय नौसेना की पनडुब्बी रोधी युद्ध क्षमता को हल्के टारपीडो की रेंज बढ़ाने के लिए डीआरडीओ द्वारा डिजाइन और विकसित किया गया है।

<https://hindi.oneindia.com/news/india/dmsrde-develops-and-tested-liquid-fuel-for-ramjet-advanced-air-breathing-engine-998925.html>



Thu, 09 May 2024

DRDO Develops Ramjet Fuel for Advanced Air-breathing Engine

The Defence Research and Development Organisation (DRDO) on Thursday announced that one of its labs has achieved success in developing liquid Ramjet fuel for an advanced air-breathing engine.

This fuel has been tested successfully at Ramjet Test bed at Defence Research and Development Laboratory (DRDL) on May 8. BPCL and Mineral Oil Corporation are Industry Partner in this development.

"DMSRDE Defence Materials and Stores Research and Development Establishment (DMSRDE) has made a landmark achievement by developing liquid Ramjet fuel for an advanced air-breathing engine. This fuel has been tested successfully at Ramjet Test bed at DRDL on 08 May 2024. M/s BPCL and M/s Mineral Oil Corporation Pvt Ltd are Industry Partner in this development," DRDO posted on X.

<https://www.aninews.in/news/national/general-news/drdo-develops-ramjet-fuel-for-advanced-air-breathing-engine20240509223206/>



Press Information Bureau
Government of India

Ministry of Defence

Thu, 09 May 2024

Indian Naval Ships Delhi, Shakti, and Kiltan Completed their Visit to Singapore, as a Part of the Operational Deployment of the Eastern Fleet to the South China Sea

Indian Naval Ships Delhi, Shakti and Kiltan visited Singapore from 06 - 09 May 24, aimed at undertaking bilateral engagements and discussing areas of mutual interest and cooperation, and reaffirming the commitment to enhance maritime security and stability in the region. This visit is part of the Operational Deployment of the Indian Navy's Eastern Fleet to the South China Sea.

R Adm Rajesh Dhankhar, Flag Officer Commanding Eastern Fleet and Commanding Officers of the ships had an interaction with the Fleet Commander, Republic of Singapore Navy at the Singapore Naval Headquarters. The visit provided an opportunity for discussions on enhancing naval cooperation and interoperability between navies of both India and Singapore. A deck reception was hosted onboard INS Shakti, wherein personnel from both navies and the Indian diaspora in Singapore and also local diplomatic community had the opportunity to interact, furthering the bonds of friendship and mutual respect.

As part of the Indian Navy's commitment to maritime education and outreach, local school children were invited to visit the Indian Ships. The children were given guided tours of the ships, where they learned about naval operations, India's rich maritime history and heritage and also the importance of maritime security. These interactions aim to inspire the younger generation and promote a greater understanding of maritime affairs. Personnel from both the Indian Navy and the Republic of Singapore Navy also undertook cross-ship visits and Subject Matter Expert Exchange (SMEE), in addition to other professional interactions.

<https://pib.gov.in/PressReleasePage.aspx?PRID=2020103>

The Statesman

Thu, 09 May 2024

India-France Joint Military Exercise to Begin in Meghalaya on May 13

The 7th edition of the India-France Joint Military Exercise "Shakti" is set to commence from May 13 to 26 at the Joint Training Node in Umroi, Meghalaya.

Scheduled for May 13, the opening ceremony is expected to be graced by esteemed dignitaries.

HE Thierry Mathou, Ambassador of France, along with Brigadier Mayur Shekatkar, Commander of the 24 Mountain Brigade, and several other senior military and civilian dignitaries, are expected to attend the ceremony. During “Shakti,” the primary focus will be on achieving several key objectives.

The foremost priority will be dedicated to joint planning, involving the collaborative development of strategies, tactics, and operational plans by both Indian and French military personnel.

The exercise will also prioritise fostering mutual understanding in operations, building shared knowledge, awareness, and familiarity with each other’s operational procedures.

Furthermore, it will address crucial coordination aspects for joint operations in a counter-terrorism environment under the United Nations mandate. Participating contingents will undergo rigorous combat conditioning and tactical training, including firing drills and ‘battle-hardening’ work sessions. Overall, the exercise aims not only to strengthen the bond between the armed forces of India and France but also to enhance their preparedness to combat terrorism and ensure global peace and security.

<https://www.thestatesman.com/india/india-france-joint-military-exercise-to-begin-in-meghalaya-on-may-13-1503298794.html>



Fri, 10 Apr 2024

India and Armenia Strengthen Defence Ties amidst Regional Instability

By Padmalochan Dash

In recent years, the strategic partnership between India and Armenia has undergone a remarkable transformation- fired by their shared commitment to fortify defence capabilities and confront regional security challenges head-on. Against the backdrop of Armenia’s enduring struggle with Azerbaijan and Turkey’s support for Azerbaijan’s advantages, the precipitating connection between Armenia and India stands for recognition. Armenia’s proximity to India and both agreeing to diversify their strategic alignment, deserves special attention on the global stage.

Military Cooperation: Armenia’s imperative to diversify its security alliances and bolster its military capabilities, particularly amidst the enduring conflict with Azerbaijan, is evident through heightened defense spending and collaborations with nations such as India and France. India’s involvement with Armenia’s military not only strengthens its defensive capabilities but also serves to counterbalance external-internal influences like Turkey and Pakistan in the South Asian region. The expanding Indo-Armenian partnership encompasses various facets, including the exchange of weaponry, joint military exercises, and strategic consultations, all aimed at enhancing defense readiness and security in their respective regions.

Advanced Weaponry and Joint Exercises: The acquisition of state-of-the-art weaponry highlights the growing defense cooperation between India and Armenia. Reports indicate ongoing provision of military hardware from India to Armenia, including multiple-launch rocket systems, anti-tank missiles, and radar systems. Additionally, joint military exercises and training programs are underway to enhance preparedness and interoperability between their armed forces. These collaborative efforts facilitate the exchange of expertise and tactics, fostering effective coordination

for potential future operations, from joint exercises to intelligence sharing, both nations are committed to showcasing their military capabilities and strengthening their strategic partnership.

Geopolitical Determinations: Armenia's pivotal role in the International North-South Transport Corridor (INSTC) offers India diversified trade routes and enhanced access to Eurasian markets, bolstering strategic interests in economic resilience and geopolitical balancing. Conversely, India's military support for Armenia underscores its commitment to preserving regional peace and countering aggressive manoeuvres by the Turkey-Azerbaijan-Pakistan axis. Through the realisation of mutual interests, India and Armenia can reshape security dynamics in the South Caucasus region by challenging the dominance of larger geopolitical actors and their support for rogue powers.

Turkey-Azerbaijan-Pakistan Axis: The Turkey-Azerbaijan-Pakistan axis poses a substantial threat to respective regional stability, with Turkey's unwavering support for Azerbaijan during the Nagorno-Karabakh conflict then raising concerns about potential escalations. The longstanding military partnership between Turkey and Pakistan, characterised by defence production, joint training exercises, and high-level military dialogues, underscores their concerted efforts to advance mutual geopolitical goals and exert influence in the regions. This axis represents a significant challenge to the security and stability of the South Caucasus and South Asian regions, as that axis seeks to consolidate its power and undermine the influence of other regional stakeholders.

Responses and Ongoing Efforts: In response to the burgeoning influence of the Turkey-Azerbaijan-Pakistan axis, India's steadfast support for Armenia signifies a resolute stance against their aggressive manoeuvres in the region. Aimed at preserving a delicate balance of power, India and Armenia are all set to intensify their collaboration to address these threats.

While Turkey's stance on Kashmir validates the burgeoning Indo-Armenia defence cooperation, the nexus between Turkey's involvement in the Kashmir issue and Pakistan's alignment with Azerbaijan's agenda cannot be seen as a mere happenstance, rather a meticulously orchestrated strategy with far-reaching intention. In this backdrop, the urgent need for a meticulously planned multilateral defence partnership underscored. This becomes essential to counter the unholy Turkey-Pakistan-Azerbaijan axis- thereby ensuring stability in both the Caucasus and South Asian regions.

The Promising Prospects: The emerging strategic cooperation between India and Armenia holds immense promise for enhancing regional security and advancing shared interests. Both nations are poised to deepen their partnership and address prevailing challenges through concerted efforts in military collaboration and strategic alignments. India's steadfast support for Armenia underscores its dedication to maintaining peace and stability in the Caucasus region. With far-reaching implications for global geopolitical outcomes, the Indo-Armenia partnership has the potential to redefine the regional balance of power and contribute significantly to the stability and prosperity of both the Caucasus and South Asian regions.

<https://www.dailypioneer.com/2024/columnists/india-and-armenia-strengthen-defence-ties-amidst-regional-instability.html>

THE  HINDU

Thu, 09 May 2024

China's 3rd Aircraft Carrier Fujian Completes 8-Day Maiden Sea Trial

China's third aircraft carrier, Fujian, has successfully completed its 8-day maiden sea trials. Fujian is an 80,000-tonne supercarrier with electromagnetic catapults for launching aircraft, making China the second country after the U.S. to field a supercarrier with this technology.

“During the sea trial, the aircraft carrier tested its propulsion, electrical systems, and other equipment, and achieved the expected results. In the next stage, PLAN Fujian will conduct follow-up tests according to established plans,” according to China Military Online, the English language news website of the Chinese People’s Liberation Army (PLA). The aircraft carrier set sail for trials from Jiangnan Shipyard in Shanghai on May 01.

The developments will be watched very closely by India and other countries in the region which are also planning to build aircraft carriers as Beijing rapidly expands its maritime power and presence.

According to state media Global Times, Fujian is expected to operate not only improved versions of the J-15 fighter jet but also new aircraft including the next-generation stealth fighter jet J-35, the fixed-wing early warning aircraft the KJ-600 and the JL-10 advanced trainer jet.

Named after East China’s Fujian Province and given the hull number 18, the carrier was launched in June 2022. Last month, China announced that it is building its fourth aircraft carrier, likely a nuclear-powered supercarrier, to be unveiled very soon. China’s first aircraft carrier Liaoning, a refurbished Soviet carrier, was commissioned in 2012 and the second carrier Shadong was launched in 2017. That’s a tremendous pace of carrier construction.

In an interview last week, outgoing Commander of Hawaii-based U.S. Indo-Pacific Command (INDOPACOM) Adm John Aquilino said that in the three years since he’s been in command, China has built more than 400 aircraft, 20 major warships, and doubled its missile inventory.

Indian Navy’s carriers

Indian Navy currently operates two aircraft carriers – refurbished Russian carrier INS Vikramaditya, commissioned in 2013, and indigenously designed and built INS Vikrant, commissioned in September 2022.

In the second half of last year, the Indian Navy has moved the case for a second Indigenous Aircraft Carrier (IAC-II), a repeat of a Vikrant-like carrier which has been approved by the Defence Procurement Board last September. It is now awaiting approval by the Defence Acquisition Council, expected to be taken up after the elections. The IAC-II is a priority given that it will be ready in time to replace INS Vikramaditya, which will at best last for another 15 years.

The IAC-II displacing 45,000 tonnes will see some modifications and newer technologies incorporated in the original design of the Vikrant and will also be manufactured by Cochin Shipyard Limited (CSL). It will take around eight to 10 years to build a new carrier, Madhu S. Nair, Chairman and Managing Director of CSL, told The Hindu as reported earlier, as long as the basic design, engines and propulsion are kept intact. The Navy has shelved its earlier plans for a 65,000-tonne carrier given the whole new technology cycle involved and the resultant cost and timelines.

<https://www.thehindu.com/news/international/chinas-3rd-aircraft-carrier-fujian-completes-8-day-maiden-sea-trial/article68157809.ece>

Putin Says Nuclear Forces 'Always' on Alert in Victory Day Speech

President Vladimir Putin warned on Thursday that his nuclear forces were "always" on alert and that Russia would not tolerate any threats from the West.

In a defiant address on Red Square before thousands of soldiers dressed in ceremonial attire, Putin heaped praise on his army fighting in Ukraine and accused "Western elites" of fomenting conflicts around the world.

"Russia will do everything to prevent a global clash, but at the same time we will not allow anyone to threaten us. Our strategic forces are always on alert," Putin said, addressing the Victory Day parade.

"Dear friends, Russia is now going through a difficult, crucial period. The fate of the Motherland, its future depends on each of us," he said.

The May 9 parade marks the Soviet Union's defeat of Nazi Germany in World War II and has become Russia's most important public holiday as Putin puts the country firmly on a combat footing.

The Russian president has repeatedly framed the current fight against Ukraine as an existential battle against "Nazism".

Putin has also upped his nuclear rhetoric. Earlier this week, he ordered the Russian military to hold nuclear weapons drills involving the navy and troops based near Ukraine.

Last year Russia ditched its ratification of the Comprehensive Nuclear Test Ban Treaty and pulled out of a key arms reduction agreement with the United States.

Armenia snub

The Victory Day parade is held on Red Square, featuring columns of Russian military equipment, including advanced missiles and air defence systems, as well as thousands of military personnel.

Russia often invites representatives from countries it deems "friendly" to the event, though attendance had dwindled even before it sent troops into Ukraine in early 2022 amid a stand-off with the West.

Eight world leaders were scheduled to attend Thursday's parade, Russian state-media reported this week, citing a Kremlin aide.

They are the heads of five ex-Soviet countries -- Belarus, Kazakhstan, Kyrgyzstan, Tajikistan and Turkmenistan -- as well as the leaders of Cuba, Laos and Guinea-Bissau.

In a high-profile snub, Armenia's Prime Minister Nikol Pashinyan signalled he would not attend amid a spat between the two allies, even though he was in Moscow on Wednesday evening for a regional summit.

The Kremlin scheduled a summit of leaders of the Eurasian Economic Union -- a regional bloc of some ex-Soviet states -- the day before the parade.

Putin's Victory Day address comes as his troops make advances in Ukraine and just after he took oath for an unprecedented fifth term.

The 71-year-old Kremlin chief has ruled Russia since the turn of the century, securing a fresh six-year mandate in March after winning presidential elections devoid of all opposition.

Russia's army held off a much-hyped Ukrainian counter-offensive last year, and it has since made gains on the front lines as Kyiv struggles with ammunition and manpower shortages.

Thursday's festivities come two days after Putin vowed at a lavish inauguration to deliver "victory" to Russians.

"We are a united and great nation, and together we will overcome all obstacles, realise everything we have planned, and together, we will win."

<https://economictimes.indiatimes.com/news/defence/putin-says-nuclear-forces-always-on-alert-in-victory-day-speech/articleshow/109975645.cms>

Science & Technology News



Thu, 09 May 2024

Logo Design Contest to Mark National Space Day

The Indian Space Research Organisation (Isro) and the Department of Space (DoS) have invited designs from the public for a logo that celebrates India's achievements in space, to commemorate the first National Space Day, on August 23.

The Government of India declared August 23 as National Space Day to mark the successful landing of Chandrayaan-3 near the lunar south pole.

The theme this year is 'Touching Lives while Touching the Moon: India's Space Saga'.

The logo design is part of extensive celebrations that DoS has planned across the country. Isro said the logo could embody the spirit of India's space achievements.

"The chosen design should resonate with the theme, leaving a lasting impression and enabling clear reproduction across various mediums such as websites, brochures, banners, apparel, and more," the space agency said.

The selected design will be exhibited on brochures, banners, and merchandise, among others, related to National Space Day 2024. The designs can be submitted to nsd2024@isro.gov.in on or before May 20 in .jpg, .png or .pdf format.

<https://www.deccanherald.com/science/space/logo-design-contest-to-mark-national-space-day-3016319>

GalaxEye to Get Access to ISRO's Satellite Testing Facilities

GalaxEye, a space-tech startup focused on earth observation satellites, has signed a Memorandum of Understanding (MoU) with the Indian National Space Promotion and Authorisation Centre (IN-SPACe) to get access to the Indian Space Research Organisation's (ISRO) cutting-edge laboratories and testing infrastructure.

GalaxEye will be the first beneficiary of IN-SPACe's state-of-the-art coworking and testing facilities in Ahmedabad.

In 2023, GalaxEye developed India's first indigenous drone equipped with Synthetic Aperture Radar (SAR), and is now working towards building the nation's first private constellation of Earth Observation satellites.

The company aims to launch its inaugural satellite, the "Drishti Mission," within a year, which will be India's first and the world's highest-resolution multi-sensor imaging satellite.

GalaxEye's innovative approach revolves around multi-sensor earth observation satellites equipped with the proprietary "Drishti Sensor," a modern technology that overcomes cloud cover limitations, enabling high-quality imaging regardless of weather conditions.

This technology empowers security clients with enhanced situational awareness, enabling effective monitoring of terrain modifications and object movements in any weather scenario, crucial for mission preparation, border patrols, and disaster management.

"This partnership marks a transformative chapter not only for GalaxEye but for the entire field of space exploration," said Suyash Singh, Co-founder and CEO of GalaxEye. "By collaborating with IN-SPACe and leveraging their state-of-the-art facilities, we are poised to revolutionize the way we gather and analyze data from Earth's orbit."

<https://www.indiatoday.in/science/story/galaxyeye-to-get-access-to-isros-satellite-testing-facilities-2537046-2024-05-09>

