



# Defence Professionals News & Analysis

November 16,2024 | Day 321

### Top Gainers

Stock	Close	Prev	Change
PARAS	980.6	933.95	+4.99%
MIDHANI	320.3	306.4	+4.54%
HBLPOWER	540.9	518.6	+4.3%
ZENTEC	1766.95	1695.35	+4.22%
TANEJAERO	404.55	388.6	+4.1%

### Top Losers

Stock	Close	Prev	Change
ROSSELLIND	82.35	95.32	-13.61%
TEMBO	687.8	730.7	-5.87%
DCXINDIA	303.1	318.3	-4.78%
KRISHNADEF	684.55	704.25	-2.8%
PTC	166.57	170.92	-2.55%

## Defense Business and Industry

### India and Japan Sign Pact for Co-Developing UNICORN Masts for Navy



16-Nov-24

India and Japan have signed a Memorandum of Implementation (MoI) for the co-development of the Unified Complex Radio Antenna (UNICORN) mast, aimed at enhancing the Indian Navy's capabilities. The agreement, signed in Tokyo, marks the first instance of co-development of defense equipment between the two nations, with Bharat Electronics Limited leading the project in India alongside Japanese partners. The UNICORN mast integrates multiple communication and sensor systems into a single structure, significantly improving stealth characteristics by reducing the radar cross-section of naval vessels. This collaboration is expected to pave the way for further joint endeavors in advanced defense technologies, reinforcing both nations' commitment to bolstering maritime security in the Indo-Pacific region while promoting indigenous capabilities and technological self-reliance.

### Airbound Secures \$1.7M to Transform Drone Delivery in India



16-Nov-24

Airbound, a drone startup, has secured \$1.7 million in seed funding to advance its innovative drone technology, specifically focusing on medical supply chain logistics and last-mile delivery. The company is developing Blended Wing Body Tailsitter drones, which are significantly lighter and more aerodynamically efficient than traditional drones, promising substantial

cost reductions in delivery operations. Airbound's initial goal is to facilitate the transport of critical medical supplies in underserved regions of India, addressing healthcare access challenges. This strategic focus on enhancing logistical efficiency not only positions Airbound to lead in the drone delivery market but also aligns with the growing regulatory support and public interest in drone technology, marking a pivotal moment for India's logistics landscape.

### GTRE Enhances Jet Engine Production with New CNC Machines



16-Nov-24

The Gas Turbine Research Establishment (GTRE), under DRDO, has acquired advanced CNC machines to enhance its jet engine manufacturing capabilities, crucial for projects like the Kaveri engine. These machines aim to improve domestic production of high-precision components, enabling customization, ensuring precision, and increasing production rates. However, the reliance on imported CNC technology, primarily from the U.S., highlights India's ongoing dependency on foreign technology, posing challenges to long-term self-reliance. Recognizing this issue, initiatives under the Atmanirbhar Bharat mission aim to bolster indigenous development of advanced machine tools, yet significant infrastructure gaps remain. Overall, GTRE's acquisition marks progress in India's defense manufacturing journey, emphasizing the need for sustained investment in domestic technologies to secure future capabilities.

## CSIR-NAL Enhances RTA-90 with Structural and Cockpit Innovations

🕒 SHARE

16-Nov-24

CSIR-NAL has made notable progress in the RTA-90 regional transport aircraft's development, focusing on structural optimization, aerodynamic evaluation, and cockpit innovations. Key advancements include a detailed fuselage design for enhanced durability and fuel efficiency, high-fidelity CFD simulations for improved aerodynamic performance, and the completion of a full-scale cockpit mock-up featuring advanced avionics and a Fly-By-Wire system. Additionally, a Cabin Air Compressor was developed to ensure passenger comfort during high-altitude flights. These efforts align with India's goals for self-reliance in aviation technology, showcasing significant advancements in indigenous capabilities that bolster national defense and economic stability.

## Tejas Mk1A to Feature Advanced Munitions from Multiple Nations

🕒 SHARE

16-Nov-24

India's indigenous LCA-Tejas Mk1A is set to incorporate a diverse arsenal of advanced munitions from multiple nations, including JDAM-ER, HAMMER missiles, and SPICE PGMs, enhancing its combat versatility and precision strike capabilities. This strategic diversification aims to bolster India's self-reliance in defense, allowing the aircraft to engage in various mission profiles effectively. The integration of weapons from the U.S., France, Israel, and India itself showcases India's commitment to developing a resilient defense ecosystem, minimizing reliance on single suppliers. As the Tejas Mk1A enters service, its advanced capabilities are expected to significantly strengthen the Indian Air Force's air superiority and operational flexibility in complex combat scenarios.

## BrahMos Prepares for Key Trials of Indigenous Seeker Development

🕒 SHARE

16-Nov-24

BrahMos Aerospace is poised for critical live trials of an indigenously developed seeker for the BrahMos missile system, a significant step towards enhancing India's defense capabilities and achieving self-reliance under the Atmanirbhar Bharat initiative. Although the seeker was successfully developed in 2018, its full-scale production has been delayed due to pending trials. Successful integration of this indigenous seeker will not only reduce dependence on imports but also bolster India's defense manufacturing sector by creating

opportunities for both public and private entities. The upcoming tests are crucial for validating the seeker's readiness for production, potentially leading to bulk orders and full-scale deployment in future missile systems.

## IIT Kanpur Unveils Indigenous Kamikaze Drone for Indian Army

🕒 SHARE

16-Nov-24

IIT Kanpur has developed an indigenous Kamikaze drone tailored for the Indian Army, marking a significant advancement in India's defense technology and aligning with the Atmanirbhar Bharat initiative. This compact drone, capable of carrying a 6 kg payload and operating within a 100 km range, features stealth technology and autonomous operations through an AI-enabled guidance system. Successful laboratory tests have been completed, with full-scale trials anticipated within six to eight months. This innovation not only enhances India's tactical capabilities in modern warfare but also promises to foster partnerships with private defense firms, driving further advancements in unmanned aerial systems.

## Indian Navy Develops Radar Cloak to Shield Grounded Aircraft

🕒 SHARE

16-Nov-24

The Indian Navy is enhancing aircraft survivability by investing in a Radar Obscurant Cloak under the iDEX DISC 13 initiative, aimed at rendering grounded aircraft nearly invisible to enemy radar. This roll-on roll-off system mitigates threats to airbases and enhances operational readiness by allowing aircraft to be stationed closer to contested areas. The cloak's lightweight and durable design, focused on small and medium aircraft with scalability for larger ones, incorporates specialized structures to absorb radar waves. This technological advancement not only protects air assets but also adds strategic uncertainty for adversaries, reinforcing India's commitment to safeguarding its defense capabilities in a complex security landscape.

## DRDO Advances Astra MkIV BVRAAM for Future Air Combat Needs

🕒 SHARE

16-Nov-24

The DRDO is advancing its BVRAAM program with the development of the Astra MkIV missile, designed to counter high-speed, stealthy threats expected in future air combat scenarios. Building on the successes of Astra MkI and MkII, the MkIV will incorporate advanced guidance and propulsion technologies, including multi-

mode seekers and potentially ramjet propulsion for extended range. This initiative aligns with the IAF's future needs, particularly as it anticipates deploying the Advanced Medium Combat Aircraft by the 2030s. By laying this groundwork, DRDO is well-positioned to enhance India's aerial combat capabilities in line with evolving threats and technological advancements.

## DRDO's Project VEDA: A New Contender in Satellite Launches



16-Nov-24

India's Defence Research and Development Organisation (DRDO) is advancing its space capabilities through Project VEDA, designed to create a cost-effective launch vehicle for satellite deployment, enhancing self-reliance in satellite launch technologies. With anticipated payload capacities comparable to the Polar Satellite Launch Vehicle (PSLV), Project VEDA aims to support defense reconnaissance, environmental monitoring, and commercial satellite launches. Its innovative design using lightweight composite materials may further optimize payload capacity, potentially delivering 500 to 1,000 kilograms to low-Earth orbit. This initiative underscores India's commitment to strengthening its defense capabilities and expanding its commercial space sector, positioning DRDO as a competitive player in the global aerospace market.

## HAL to Deliver Six Tejas Mk1 Trainers to IAF by March 2025



16-Nov-24

Hindustan Aeronautics Limited (HAL) is set to deliver six Tejas Mk1 Trainer aircraft to the Indian Air Force (IAF) by March 2025, enhancing pilot training capabilities. The production is complete despite supply chain challenges, with older Category B engines temporarily installed until advanced engines are available. This initiative supports the IAF's goal of bolstering indigenous training resources and allows for efficient pilot transition to the advanced Tejas Mk1A variants. The trainers will significantly improve the IAF's pilot training infrastructure, offering a modern and cost-effective alternative to legacy systems, thus ensuring operational readiness and maximizing flight hours for pilots.

## NAL Advances Hybrid Composites and FSS Radome for AMCA Jet



16-Nov-24

The National Aerospace Laboratories (NAL) has made significant progress in developing hybrid composite

materials and Frequency Selective Surface (FSS) radome technology for India's Advanced Medium Combat Aircraft (AMCA) program, aimed at enhancing stealth and performance. The hybrid composites reduce the radar cross-section (RCS), enabling the AMCA to evade detection while maintaining structural integrity. The FSS radome is designed to be virtually transparent to radar, optimizing radar operation while preserving stealth capabilities. These advancements not only propel India towards self-reliance in defense technology but also showcase the nation's growing expertise in advanced aerospace innovations, crucial for modern warfare.

## NIA charges Lalngaihawma and others in illegal arms case



16-Nov-24

The National Investigation Agency (NIA) has filed a chargesheet against Lalngaihawma, Lalmuanawma, and others in an arms supply case, highlighting the possession of prohibited arms and ammunition by Solomona without a license. The investigation revealed that Solomona was also involved in fundraising activities to support this conspiracy. This development underscores India's commitment to tackling illegal arms trafficking and related criminal activities, reinforcing national security. By addressing such threats, the NIA plays a crucial role in safeguarding the integrity of the nation's defense and sovereignty, ensuring that unlawful activities do not compromise public safety or stability.

## Zen Technologies Unveils Sthir Stab 640 Anti-Drone Camera



16-Nov-24

Hyderabad-based Zen Technologies has launched the Sthir Stab 640 anti-drone camera, designed for use in armored vehicles, Infantry Combat Vehicles, and boats, featuring advanced fiber optic gyro-stabilization for enhanced situational awareness. Additionally, the company introduced the Hawkeye anti-drone camera, capable of tracking drones up to 15 km, the lightweight Barbarik-URCWS remote-controlled weapon station, and the Prahasta automated quadraped with LIDAR technology for terrain mapping. Chairman Ashok Atluri highlighted these innovations as crucial advancements in autonomous defense operations, aimed at enhancing tactical superiority and operational efficiency for Indian defense forces, reinforcing India's commitment to modernizing its military capabilities amidst evolving security challenges.

## India Strengthens 'Make In India' with Rising Defense Production SHARE

16-Nov-24

India's 'Make In India' initiative is gaining momentum, with the private sector now contributing approximately 20.8% to defense production in 2023-24. The government has issued over 600 licenses to more than 350 companies, including major firms like Tata Group and Mahindra, promoting indigenization and aiming for complete localization of products such as the AK-203 assault rifle, with initial deliveries already made to the Indian Army. Furthermore, defense exports have surged, reaching ₹21,083 crore in FY 2023-24, reflecting a significant 32.5% increase from the previous year, underscoring India's commitment to enhancing its defense capabilities and positioning itself as a global defense player.

## Indian Army Seeks Info on Indigenous Surveillance Helicopters SHARE

16-Nov-24

The Indian Army has issued a Request for Information (RFI) for surveillance copters aimed at enhancing real-time reconnaissance and monitoring, crucial for operational readiness in volatile regions. These helicopters will operate in diverse terrains, including plains and mountainous areas, and must be capable of functioning day and night under various weather conditions. Emphasizing indigenous production, the procurement requires at least 60% local content, fostering the growth of India's defense manufacturing sector. The process is designed for rapid delivery post-contract, with a 24-month warranty to ensure operational reliability and maintenance efficiency, reflecting India's commitment to bolstering its defense capabilities through self-reliance.

## Geopolitics and Security Alliances

### Union Home Ministry Orders Security Forces to Restore Peace in Manipur SHARE

16-Nov-24

The Union Home Ministry has instructed security forces in Manipur to restore order following a recent surge in violence, including the killing of 11 suspected militants and the abduction of six civilians. The fragile security situation has led to the reimposition of the Armed Forces (Special Powers) Act in certain districts to empower armed forces in maintaining public order. The

ministry emphasized strict actions against those promoting violence and urged citizens to support law enforcement. The ongoing ethnic conflict has resulted in over 200 deaths and significant displacement, highlighting the need for effective management and resolution of tensions in the region.

## India, Bangladesh Enhance Land Port Cooperation for Better Trade SHARE

16-Nov-24

India and Bangladesh have committed to enhancing infrastructure and operational efficiency at their land ports during the 6th Subgroup meeting of the Land Port Authority of India (LPAI) with the Bangladesh Land Port Authority (BLPA). Key discussions included developing facilities at major ports, expediting cargo clearances, and facilitating Bangladeshi exports to neighboring countries. Both nations reaffirmed their dedication to deepening bilateral relations and fostering regional connectivity through collaborative border management. This initiative not only reflects India's strategic focus on strengthening ties with its neighbors but also aims to boost economic growth and trade, showcasing a proactive approach to regional security and cooperation.

## Israeli Forces Advance Deep into Lebanon Amid Rising Tensions SHARE

16-Nov-24

Israeli troops have advanced into southern Lebanon, capturing a strategic hill before withdrawing after clashes with Hezbollah militants, amidst concurrent Israeli airstrikes on Beirut and surrounding areas. In response to the escalating conflict, Lebanese and Hezbollah officials are considering a U.S. ceasefire proposal that would involve Hezbollah's withdrawal from the Israel-Lebanon border. This situation highlights the ongoing tension between Israel and Hezbollah, raising concerns about regional stability. The potential ceasefire may provide an opportunity for de-escalation, but the willingness of Hezbollah to comply remains uncertain, emphasizing the complexity of Middle Eastern geopolitics.

## UN to Enhance Peacekeeping in Lebanon Amid Ceasefire Efforts SHARE

16-Nov-24

The United Nations plans to strengthen its peacekeeping mission in Lebanon (UNIFIL) to support the Lebanese army following a potential truce, though it will not directly enforce a ceasefire. UNIFIL will focus on supporting the implementation of U.N. resolution 1701,



which mandates Hezbollah to withdraw from certain areas. Despite Israeli criticism of UNIFIL's effectiveness and ongoing hostilities, the mission aims to adapt its capabilities, potentially incorporating advanced technology for tasks like clearing explosive devices. The overall safety of peacekeepers remains a priority amid the challenging security environment, emphasizing the need for all parties to uphold their responsibilities in this complex situation.

## General Dwivedi's Nepal Visit: Boosting Military Ties and Diplomacy

🔗 SHARE

16-Nov-24

General Upendra Dwivedi, Chief of Army Staff of India, is set to visit Nepal to strengthen the longstanding military partnership between the two nations, emphasizing collaboration in training, defense modernization, and joint exercises. With over 300 Nepali personnel receiving specialized training in India this year, the visit also highlights the significance of the annual Surya Kiran joint exercise, scheduled for December 2024. The conferment of the honorary rank of General to General Dwivedi will reaffirm mutual respect and shared heritage, further enhancing the strategic ties. This visit underlines India and Nepal's commitment to addressing common security threats, thus contributing to regional stability in South Asia.

## EAM Jaishankar: Disengagement with China is Just That, Nothing More

🔗 SHARE

16-Nov-24

External Affairs Minister S. Jaishankar recently addressed the disengagement of Indian and Chinese troops along the Line of Actual Control (LAC) in eastern Ladakh, clarifying that he views this disengagement as a straightforward measure with no wider implications for diplomatic relations. He emphasized that while the completion of the disengagement in the Demchok and Depsang regions is significant for reducing immediate tensions, it does not indicate a reset in India-China relations. Jaishankar described the military positioning as "uncomfortably close" and cautioned against prematurely assuming full normalization of ties, suggesting that future improvements in bilateral relations will require careful navigation and continued assessments.

## India's Crucial Role in Global Stability, Says Biden Spokesperson

🔗 SHARE

16-Nov-24

A Biden spokesperson emphasized India's critical role in global stability, appreciating the deepened

cooperation during the Biden administration. This partnership reflects India's strategic autonomy and its active engagement in frameworks like the Quadrilateral Security Dialogue (QUAD), highlighting its commitment to a multipolar world and regional security. India's efforts in addressing maritime security and humanitarian assistance contribute significantly to the stability of the Indo-Pacific region. This collaboration not only enhances India's global influence but also aligns with its broader defense strategy of fostering independent yet multilateral foreign relations, reinforcing its position as a vital partner in addressing shared challenges.

## Japan PM and China President Discuss Taiwan, South China Sea Concerns

🔗 SHARE

16-Nov-24

Japanese Prime Minister Ishiba met with Chinese President Xi in their first in-person talks, expressing significant concerns about China's military activities near Japan, particularly regarding Taiwan and the South China Sea. Both leaders recognized the need for a "mutually beneficial" relationship, emphasizing continued dialogue to manage tensions, while Xi highlighted the importance of cooperation to maintain global trade and supply chains. Ishiba also urged Xi to enhance safety measures for Japanese citizens in China following a recent violent incident. Their discussions included plans to expand cultural exchanges and facilitate high-level economic dialogues, aiming to strengthen bilateral ties amidst ongoing regional challenges.

## Military Operations

## Russia Successfully Intercepts Ukrainian Drones Amid Tensions

🔗 SHARE

16-Nov-24

Russian air defense systems successfully intercepted multiple Ukrainian drones across regions including Kursk and Belgorod, amid ongoing tensions following a Ukrainian incursion. Ukrainian Foreign Minister Andrii Sybiha expressed cautious optimism regarding discussions with U.S. Secretary of State Antony Blinken on potential long-range strikes against Russia and NATO membership. However, Western allies remain hesitant to allow such strikes, fearing escalation, while the Biden administration is poised to deliver \$9 billion in military aid to Ukraine. This situation underscores Ukraine's precarious position, balancing military

aspirations with the geopolitical complexities of NATO integration and potential repercussions from Russia.

## Ukrainian Soldiers Train in France for Trench Warfare Tactics SHARE

16-Nov-24

Ukrainian soldiers are undergoing trench warfare training in France, part of an EU-funded program that has trained 60,000 since Russia's invasion. The French military replicates battlefield conditions, equipping trainees with advanced weaponry, including Caesar howitzers and armored vehicles. The Anne of Kyiv brigade, consisting mainly of new recruits, is preparing for deployment amid concerns over future Western military support. Despite apprehension, the soldiers exhibit determination to defend their homeland, showcasing Ukraine's adaptability despite resource shortages. This initiative underscores the critical need for trained forces as Ukraine faces ongoing challenges in the conflict.

## Russia's Covert Drone Strategy: Mixing Decoys with Deadly Weapons SHARE

16-Nov-24

Russia is reportedly manufacturing hundreds of decoy drones and lethal thermobaric drones at a covert facility, aimed at overwhelming Ukraine's defenses. These decoys, often filled with rags or foam, are designed to exhaust Ukrainian resources, while the thermobaric drones pose severe risks to civilians and infrastructure due to their immense destructive capability. This development highlights the ongoing threat posed by Russia in the region and emphasizes the need for enhanced defensive measures and strategic planning in Ukraine. The situation underscores the importance of international support for Ukraine to counter such innovative and aggressive tactics in modern warfare.

## Parliamentary Panel Evaluates Southern Air Command's Strategic Role SHARE

16-Nov-24

A Parliamentary Standing Committee on Defence, led by Radha Mohan Singh, visited the Southern Air Command (SAC) to review its strategic operations and the Indian Air Force's (IAF) evolving role. Air Marshal B Manikantan briefed the committee on SAC's pivotal role in securing southern India's maritime airspace, reflecting the IAF's transformation into a multi-spectrum force with trans-oceanic capabilities. Singh praised the SAC's dedication to protecting airspace and its contributions in maritime operations and

humanitarian efforts, emphasizing the IAF's expanding capabilities and strategic significance in safeguarding national interests across various domains. The visit highlights the government's acknowledgment of the IAF's crucial role in regional security.

## Terrorism and Counterterrorism

### Five Naxalites Killed, Two Security Personnel Injured in Bastar Encounter SHARE

16-Nov-24

In an anti-insurgency operation in Chhattisgarh's Bastar region, five Naxalites were killed, and two security personnel were injured during a gunfight that occurred in the early morning hours. The operation involved a joint team from the Border Security Force, District Reserve Guard, and Special Task Force, with ongoing search efforts in the area. This incident adds to the significant progress made this year, with 197 Naxalites neutralized in the region, highlighting the Indian security forces' commitment to combating insurgency and restoring peace. The injured personnel are reported to be in stable condition, underscoring the resilience of security forces in these challenging operations.

### India Declines ICC Champions Trophy in Pakistan Over Security Risks SHARE

16-Nov-24

Amid growing controversy over the upcoming ICC Champions Trophy to be held in Pakistan, the Board of Control for Cricket in India (BCCI) has firmly stated that India will not participate due to security concerns, coinciding with the release of an Indian intelligence dossier accusing the Pakistani government of harboring terrorism. The dossier outlines how Pakistan has allegedly supported terrorist organizations responsible for attacks on Indian soil, exacerbating tensions between the two nations. This report has raised fears about the safety of Indian cricketers traveling to Pakistan, leading to the ICC delaying the tournament schedule. Furthermore, plans by the Pakistan Cricket Board to rotate the Champions Trophy in areas of Pakistan Occupied Kashmir have been thwarted following India's objections, demonstrating the profound impact of security considerations on regional sporting events.

## Balochistan Attack Claims 7 Soldiers, Highlights Regional Instability SHARE

16-Nov-24

Seven soldiers were killed and fifteen wounded in a Balochistan separatist attack by the Balochistan Liberation Army (BLA), which involved 40 to 50 armed terrorists. This violent incident follows a recent attack by the BLA that resulted in the deaths of 26 people at a railway station, highlighting the ongoing instability in the region. Such continuous aggression from separatist groups underscores Pakistan's challenges in maintaining security and combating terrorism. For India, the situation serves as a reminder of the importance of robust defense strategies and regional vigilance to counteract similar threats and protect its own borders effectively.

### Miscellaneous

## Trump Nominates Clayton, Replacing Prosecutor on Ex-RAW Case SHARE

16-Nov-24

US President-elect Donald Trump is nominating Jay Clayton to replace federal prosecutor Damian Williams, who filed charges against Vikash Yadav, a former RAW officer accused of orchestrating a murder-for-hire plot against Khalistani leader Gurpatwant Singh Pannun. Yadav, currently in India facing kidnapping and extortion charges, and co-conspirator Nikhil Gupta, extradited from the Czech Republic, allegedly attempted to hire a hitman, unaware he was a government agent. Clayton, with a background in financial regulation, is expected to maintain the integrity of ongoing cases, while Trump's appointment of controversial figures raises questions about the implications for international law enforcement cooperation and the perception of Indian intelligence operations.

## BSF Captures 16 Drones Amid Surge in Border Smuggling Activity SHARE

16-Nov-24

The Border Security Forces (BSF) have seized 16 drones along the Punjab international border, marking a significant uptick in drone activity used for smuggling operations from Pakistan, with a total of 216 drones recovered this year alone. The drones, along with 16 kg of narcotics, were captured in the Amritsar, Tarn Taran, and Gurdaspur sectors from November 9 to 15. This increase in drone seizures reflects a troubling trend in cross-border crime, including narcotics, weapons, and

counterfeit currency trafficking. The BSF's proactive measures underscore India's commitment to strengthening border security against evolving threats.

## Italian Tourist Detained Near J&K Border, Later Released SHARE

16-Nov-24

An Italian tourist, Sciacca Marco, was detained near the international border in J&K's Kathua district while cycling, but was later released after being deemed a bona fide tourist. He had entered India via the Wagah border and previously traveled to China, Afghanistan, and Pakistan. Security forces maintain rigorous surveillance along the border due to escalating threats from drones and terrorist activities, which have intensified following recent elections in the region. Intelligence suggests a surge in attacks orchestrated by handlers across the border, prompting the Border Security Force (BSF) to revise their strategies and conduct security reviews, underscoring the ongoing challenges faced in maintaining peace and security in J&K.

## NewSpace's High Altitude Pseudo-Satellite ARKA Sets New Record SHARE

16-Nov-24

NewSpace Research and Technologies has launched its High Altitude Pseudo-Satellite (HAPS) named ARKA, achieving a remarkable endurance of over 24 hours, setting a new record for India's indigenous unmanned aerial systems. This accomplishment underscores the advancements in India's aerospace and defense capabilities, with ARKA poised for applications in surveillance, communications, and environmental monitoring. The project is anticipated to stimulate innovation within India's private aerospace sector, enhancing defense capabilities and civilian operations in areas like disaster management and precision agriculture. Overall, ARKA's success highlights the synergy between private sector innovation and national ambition, positioning India as a formidable player in the global aerospace arena.

## SpaceX to Launch India's GSAT-20 Satellite, Enhancing Connectivity SHARE

16-Nov-24

ISRO is collaborating with SpaceX to launch India's advanced GSAT-20 communication satellite, weighing 4700 kg, aboard a Falcon 9 rocket from Cape Canaveral. This commercial launch, costing approximately \$60-70 million, is necessitated by the limitations of India's own Launch Vehicle Mark-3, which

can only carry up to 4100 kg. Given the current geopolitical climate, with Russian and Chinese options being unsuitable, SpaceX emerges as a reliable partner. The GSAT-N2 satellite, equipped with 32 user beams, aims to bolster internet connectivity across India. This partnership underscores the strengthening ties between India and American companies, reflecting a broader strategic collaboration in technology and defense.

## Reliance Urges Review of Starlink, Amazon's Impact on Telecom SHARE

16-Nov-24

Reliance Industries, led by Mukesh Ambani, has urged India's telecom regulator to reassess the potential impact of Starlink and Amazon's Kuiper on local players before granting satellite spectrum, advocating for an auction process versus administrative allocation favored by the Indian government. Ambani's concerns stem from the competitive edge Starlink may have with its extensive data capacity at lower costs, which could disrupt Reliance Jio's market dominance. As Reliance has invested heavily in spectrum auctions, the letter emphasizes the need for critical evaluation of these foreign players, especially given their aggressive pricing strategies observed in other markets. The ongoing deliberations are crucial for maintaining a fair competitive landscape in India's telecom sector.

## Mehbooba Mufti Seeks Clarity on J&K's Article 370 Resolution SHARE

16-Nov-24

Mehbooba Mufti, President of the Peoples Democratic Party (PDP), called on the Jammu and Kashmir government to clarify a recent Assembly resolution regarding Article 370, amidst confusion generated by Congress leaders about the resolution's intent to restore statehood. Mufti expressed that the resolution's vague wording seemed apologetic and lacked a firm stance against the events of August 5, 2019, when the article was abrogated. She emphasized the need for the government to address public concerns and provide a clear position, as the people of Jammu and Kashmir view Article 370 as an emotional issue. The resolution passed on November 6 seeks dialogue for restoring constitutional guarantees, reflecting ongoing political complexities in the region.

## Prioritize Kashmir's Development Over Article 370: J-K BJP SHARE

16-Nov-24

Jammu and Kashmir BJP President Sat Sharma urged the National Conference to prioritize development over the now-abrogated Article 370, deeming it a historical issue. He criticized the party for using Article 370 as a political tool and emphasized the significant advancements in the region's connectivity, health, and education since the abrogation. Sharma highlighted that the central government's zero-tolerance policy against terrorism has restored peace, advocating for a focus on progress and modeling governance on Prime Minister Modi's vision. This shift towards development aims to enhance the quality of life for all residents and establish Jammu and Kashmir as a hub of prosperity.

## Proba-3 Coronagraph Set for December 4 Launch on PSLV-XL SHARE

16-Nov-24

Proba-3's Coronagraph spacecraft is set for launch aboard the Indian PSLV-XL on December 4, following successful fit checks at the Satish Dhawan Space Centre. The spacecraft, alongside its second Occulter, underwent thorough functional testing, confirming its readiness post-transport from Europe. This mission aims to observe the solar corona by creating an artificial solar eclipse, enhancing our understanding of space weather phenomena. The meticulous preparation and successful integration underscore India's growing capabilities in space technology and international collaboration, reinforcing its position as a significant player in the global aerospace sector.

## Jay Shah urges ICC to act against PCB's Champions Trophy tour in PoJK. SHARE

16-Nov-24

BCCI Secretary Jay Shah has condemned the Pakistan Cricket Board's decision to hold the Champions Trophy tour in Pakistan-occupied Jammu-Kashmir, urging the ICC to take action due to concerns over India's territorial integrity and political interference in sports. India has cited security reasons for its refusal to travel to Pakistan for the tournament, which is set for early 2025. The PCB is seeking responses from the ICC regarding India's stance, while discussions of a hybrid model for the tournament are underway, reminiscent of last year's Asia Cup, where India played matches in Sri Lanka. This situation underscores the ongoing complexities in India-Pakistan cricket relations.



## AST SpaceMobile Partners with ISRO for Enhanced Satellite Launches



16-Nov-24

AST SpaceMobile has signed a launch service agreement with NSIL/ISRO for its BlueBird satellites, aimed at providing enhanced cellular broadband coverage. Scheduled for launches in 2025 and 2026 using existing launch vehicles, these satellites are expected to offer up to ten times the bandwidth capacity of current systems, supporting over 45 global mobile network operators. This initiative will significantly improve connectivity, particularly for commercial and government applications in markets such as the U.S., Europe, and Japan. With robust partnerships and backing from major telecommunications firms, AST SpaceMobile is well-positioned to bridge connectivity gaps, thus enhancing global communication efforts.

## ISRO's NSIL Achieves ₹3,000 Crore in Revenue, Boosting Defense Tech



16-Nov-24

ISRO's commercial arm, NewSpace India Limited (NSIL), has successfully generated revenue of 3,000 crore, emphasizing its role in the commercialization of space technology and increasing private sector participation in satellite production and launch services. A significant achievement includes the Indian Army's agreement with NSIL for the GSAT-7B satellite, aimed at enhancing military communication capabilities. This development not only showcases NSIL's effectiveness in the commercial space sector, illustrated by its successful launch of the GSAT-24 satellite for TATASKY, but also underscores India's strategic focus on leveraging advanced space technology to bolster defense operations and operational readiness in a competitive global landscape.

## PM Modi's 5-Day Tour to Strengthen Ties with Nigeria, Brazil, Guyana



16-Nov-24

Prime Minister Narendra Modi has embarked on a five-day tour to Nigeria, Brazil, and Guyana, aimed at strengthening India's strategic partnerships and enhancing ties with the Indian diaspora. In Nigeria, he will meet President Bola Ahmed Tinubu to review bilateral relations, while in Brazil, Modi will participate in the G20 Summit, emphasizing India's role in global discussions, particularly for the Global South. The tour culminates in Guyana, where Modi will engage with President Mohamed Irfaan Ali and address Parliament, reflecting India's historical ties and commitment to Caribbean nations. This tour underscores India's proactive foreign policy and its intent to bolster relations with emerging economies.

## Anurag Srivastava Becomes India's High Commissioner to Mauritius



16-Nov-24

Anurag Srivastava has been appointed as India's next High Commissioner to Mauritius, a key position given the island nation's strategic location in the Indian Ocean and its strong historical ties with India, where around 70% of the population has Indian heritage. With nearly 25 years of diplomatic experience, including roles in Ethiopia and the African Union, Srivastava's appointment is timely as India seeks to enhance maritime security and bilateral cooperation with Mauritius. His educational qualifications, including degrees in engineering and business management and a diploma in diplomatic studies from Oxford, further bolster his capability to strengthen India's influence in the region.

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# Defence Sector Stocks

Stock	Open	High	Low	Close	Volume	Change	RSI14	SMA20	SMA200
PARAS	925.05	980.6	925.05	980.6	144638	4.99	43.53	1004.65	990.1
MIDHANI	329.05	341.2	316.8	320.3	6119128	4.54	38.5	333.85	421.88
HBLPOWER	520.95	548.0	520.1	540.9	1824681	4.3	43.31	556.01	547.67
ZENTEC	1690.0	1794.45	1682.1	1766.95	367481	4.22	47.18	1808.62	1297.45
TANEJAERO	393.65	435.0	383.05	404.55	40654	4.1	35.28	423.96	490.46
SOLARINDS	9735.0	10132.0	9735.0	10008.55	58802	3.31	41.2	10372.73	9580.12
ASTRAMICRO	749.9	774.75	741.5	752.05	156939	1.95	42.08	768.25	778.52
NIBE	1602.1	1750.0	1602.1	1709.45	25235	1.86	44.54	1733.4	1669.78
PREMEXPLN	423.75	437.9	416.35	431.9	80384	1.76	38.69	458.99	495.95
GRSE	1438.4	1470.0	1375.0	1406.4	828483	1.6	33.77	1563.88	1468.2
AZAD	1570.0	1629.95	1566.0	1579.05	157861	1.19	53.68	1533.47	1455.36
MARINE	230.0	235.14	225.19	226.41	511797	1.1	51.2	218.27	170.28
BDL	988.0	1011.0	968.3	989.55	577725	1.06	35.01	1057.7	1169.46
MAZDOCK	3939.0	3985.0	3851.2	3926.1	1249981	0.91	40.5	4149.67	3487.89
MTARTECH	1560.0	1600.0	1551.65	1572.25	98587	0.79	40.44	1605.75	1825.95
HIGHENE	588.0	612.0	588.0	601.9	5092	0.57	40.22	619.14	709.95
BHARATFORG	1321.5	1356.9	1301.55	1328.75	1860816	0.55	32.04	1409.32	1431.24
HAL	4080.0	4185.0	3920.35	4087.05	3878379	0.5	38.1	4283.38	4246.08
ADANIENT	2824.0	2844.8	2801.0	2826.8	646797	0.36	41.15	2890.57	3102.04
IDEAFORGE	576.0	588.3	570.15	578.45	111837	0.36	38.03	603.33	711.96
APOLLO	94.08	97.6	93.6	94.41	849757	0.35	38.85	98.74	108.82
BEL	282.0	284.45	275.5	280.95	20541591	-0.21	45.38	284.6	263.38
DATAPATNS	2172.15	2213.95	2146.95	2166.65	162032	-0.25	38.96	2306.13	2673.36
COCHINSHIP	1320.0	1343.95	1301.0	1312.4	279812	-0.38	30.5	1445.18	1617.72
LOKESHMACH	357.9	363.0	346.0	348.45	77482	-0.41	44.65	361.0	390.26
CFF	568.0	592.0	565.0	586.2	14600	-0.43	42.09	602.63	593.8
BEML	3820.2	3882.8	3720.5	3791.2	381587	-0.53	43.46	3969.43	3827.89
LT	3558.0	3565.75	3500.15	3526.25	1291765	-0.61	46.51	3533.72	3575.99
AVANTEL	146.4	152.0	143.0	144.94	1399582	-1.01	25.22	167.3	-
SIKA	2498.0	2501.25	2389.0	2397.4	3467	-1.28	37.81	2519.12	2360.37
PTC	172.92	174.4	166.1	166.57	1573768	-2.55	32.88	178.4	207.09
KRISHNADEF	0.0	684.55	684.55	684.55	16250	-2.8	48.67	683.22	591.24
DCXINDIA	318.25	328.0	302.4	303.1	861542	-4.78	39.35	322.98	334.26
TEMBO	0.0	687.8	687.8	687.8	20545	-5.87	74.89	554.1	311.77
ROSSELLIND	0.0	82.35	82.35	82.35	15673	-13.61	25.16	91.38	426.72