



# Defence Professionals News & Analysis

December 12, 2025 | Day 346

### Top Gainers

Stock	Close	Prev	Change
WALCHANNAG	175.53	153.51	+14.34%
LOKESHMACH	173.61	153.88	+12.82%
NIBE	1102.2	1002.0	+10.0%
RELINFRA	135.75	129.29	+5.0%
SWANDEF	1199.3	1142.2	+5.0%

### Top Losers

Stock	Close	Prev	Change
DRONACHRYA	50.94	53.62	-5.0%
CENTUM	2302.8	2389.2	-3.62%
GRSE	2350.0	2394.4	-1.85%
CFF	565.0	574.35	-1.63%
TECHERA	216.65	219.8	-1.43%

## Defense Business and Industry

### India enhances maritime cooperation with Brazil during Admiral Tripathi's visit.



13-Dec-25

During his official visit to Brazil from December 9-12, Chief of Naval Staff Admiral Dinesh K Tripathi engaged in high-level discussions aimed at bolstering maritime industrial cooperation between India and Brazil. He visited the Itaguai Naval Complex, where he was briefed on Brazil's PROSUB submarine program, emphasizing India's commitment to enhancing shipbuilding capabilities and self-reliance. Meetings with key Brazilian officials focused on strengthening defense industry collaboration, enhancing joint operational frameworks, and deepening maritime security mechanisms. This visit underscores the strategic convergence between the two nations, reinforcing their shared vision for a secure, stable, and rules-based maritime order in the Global South.

### HAL Revises IAF Trainer Deliveries to Three HTT-40s by FY26



13-Dec-25

Hindustan Aeronautics Limited (HAL) has significantly revised its delivery targets for the TEJAS MK-1A fighters and HTT-40 basic trainers for the Indian Air Force (IAF), now expecting to deliver five TEJAS MK-1A and three HTT-40 aircraft by the end of financial year 2025-26, down from previous projections of ten fighters and twelve trainers. The delays stem primarily from engine supply issues with the US-based General Electric Aerospace and Honeywell, affecting assembly timelines

and critical weapon trials necessary for operational readiness. While the IAF is concerned about these setbacks amid declining squadron strength and the retirement of aging aircraft, HAL officials remain optimistic, citing improvements in engine supply rates and the establishment of new production facilities in Nashik that are expected to enhance manufacturing capacity for both aircraft types. The HTT-40, vital for training rookie pilots, and the TEJAS MK-1A, essential for bolstering the IAF's combat capabilities, reflect broader structural challenges in India's defense manufacturing ecosystem and highlight the urgency for timely induction of modern aircraft to ensure national defense preparedness.

### Indian Navy to launch first indigenous Diving Support Craft DSC A20 on December 16.



13-Dec-25

The Indian Navy is set to commission the DSC A20, its first indigenous Diving Support Craft, at Kochi on December 16, marking a significant enhancement in its diving and underwater support capabilities. Built by Titagarh Rail Systems Limited, DSC A20 features advanced diving systems and a catamaran hull design, offering superior stability and operational efficiency. This induction symbolizes India's commitment to Aatmanirbharta and the Make in India initiative, showcasing successful collaboration among the Navy, indigenous shipbuilders, and research organizations. Operating under the Southern Naval Command, DSC A20 will strengthen the Navy's capabilities in diving support, underwater inspection, and coastal operations, reflecting India's strategic focus on enhancing maritime security.

## RRP Defense and Meprolight Collaborate to Boost India's Electro-Optic Capabilities SHARE

13-Dec-25

RRP Defense Limited and Israel's Meprolight Ltd. announced a strategic partnership on December 10, 2025, to bolster India's electro-optic capabilities through technology transfer, local assembly at RRP's Mahape facility near Mumbai, and future indigenous manufacturing of night-vision and weapon-sight systems. This collaboration aligns with Make in India and Atmanirbhar Bharat, enabling distribution to Indian armed forces and law enforcement while integrating domestic components via RRP Electronics. Chairman Rajendra Chodankar hailed it as a step toward precision defense self-reliance. From an Indian strategic viewpoint, the deal counters Pakistan and China border threats by modernizing infantry optics, deepens Indo-Israel defense ties amid rising UAV and thermal imaging needs, and reduces import dependence in a \$75-billion procurement pipeline.

## IAF requests six aerial tankers to enhance Rafale, Su-30MKI, and Tejas operational reach. SHARE

13-Dec-25

The Indian Air Force (IAF) has issued a Request for Proposal (RFP) for six converted aerial tankers to enhance its strategic reach and operational endurance, particularly for its Rafale, Su-30MKI, and Tejas fleets. This initiative marks a notable shift towards utilizing pre-owned commercial passenger jets, with Hindustan Aeronautics Limited (HAL) and Israel Aerospace Industries (IAI) positioned as frontrunners in the conversion program, promoting the Make in India framework with a mandate for 30% indigenous content. The IAF plans a dual-track procurement strategy, intending to acquire a total of 12 tankers, with the first phase focusing on the conversion of Boeing 767 airframes while a separate tender for six brand-new tankers is also expected, attracting competitors like Airbus and Boeing. However, the competition is intensifying, particularly with Boeing's KC-46A Pegasus gaining an advantage due to its commonality with the converted aircraft, potentially simplifying IAF logistics and operations. The successful induction of these aircraft is crucial for addressing critical capability gaps and ensuring operational flexibility amid evolving regional security dynamics, reflecting India's commitment to bolstering its defense capabilities through strategic partnerships and domestic industrial growth.

## India's drone and space tech sector to create 200,000 jobs by 2033. SHARE

13-Dec-25

India's aerospace, drones, and space technology sector is projected to expand significantly, potentially reaching \$44 billion by 2033 and generating over 200,000 new jobs, according to a report by Adecco India. This growth is fueled by government reforms, private-sector involvement, and international collaborations, with emerging roles such as Space Policy Analysts and Robotics Engineers becoming critical to the nation's space ambitions. Key initiatives, including the Indian Space Policy 2023 and a Rs 1,000 crore VC fund, are expected to enhance innovation and workforce diversity, particularly encouraging women's participation in technical fields. As India aims to capture 7-8% of the global space economy, this sector's evolution is crucial for the country's strategic and economic aspirations.

## Israel Plans Major Defense Investments in India for Global Manufacturing SHARE

13-Dec-25

Israel is significantly transforming its defense relationship with India, shifting from a traditional buyer-seller model to a strategic co-production framework aimed at global export markets. This initiative, aligned with India's "Make in India" and Aatmanirbhar Bharat policies, will see substantial Israeli investments in India's defense manufacturing sector, particularly in unmanned systems and advanced technologies. The collaboration, exemplified by successful joint ventures like Adani-Elbit, is driven by the need for cost competitiveness and the maturity of India's industrial ecosystem. As concrete projects are expected within the next six to twelve months, this partnership is poised to enhance India's strategic sovereignty and strengthen geopolitical ties, especially in the Indo-Pacific and West Asia.

## Brazil's defense exports rise 74% in 2025, boosting global stature and collaboration with India. SHARE

13-Dec-25

Brazil's defense exports surged by 74% in 2025 compared to the previous year, reaching approximately USD 3.1 billion, driven by robust sales of advanced platforms such as the Embraer C-390 aircraft and contributions from various sectors including radars and satellites. This growth underscores Brazil's rising stature in the global arms market and aligns with India's strategic interests in fostering collaborative defense

partnerships and technology transfer, particularly under the Atmanirbhar Bharat initiative. Brazil aims for 55% self-sufficiency in critical defense areas by 2026, reflecting a proactive approach to enhancing national security and economic resilience while promoting South-South cooperation amid evolving geopolitical dynamics. The implications of Brazil's success may present new opportunities for India to diversify its defense supply chains and strengthen regional alliances.

## **China's Jiutian drone mothership's first flight enhances military capabilities.**

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13-Dec-25

China's Aviation Industry Corporation successfully conducted the maiden flight of the Jiutian drone mothership, marking a significant advancement in its drone technology. This 16-tonne UAV, capable of deploying over 100 loitering munitions, enhances the People's Liberation Army's capabilities in network-centric warfare, potentially shifting power dynamics in the Indo-Pacific. The Jiutian's modular design supports various military operations, including surveillance and electronic warfare, underscoring China's ambition for autonomy in high-altitude swarm tactics amid ongoing tensions with India along the Line of Actual Control. This development raises concerns for regional security, as it could overwhelm conventional defenses, necessitating strategic responses from India to safeguard its interests.

## **HII's GRIMM: A 1kg Electronic Warfare System for Enhanced Threat Detection**

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13-Dec-25

HII has unveiled its new GRIMM electronic warfare system, a compact tool weighing just one kilogram, which enhances threat detection and tracking capabilities in contested electromagnetic environments. Operating across a frequency range of 10 megahertz to 18 gigahertz, GRIMM supports diverse missions, including intelligence, surveillance, reconnaissance, and counterterrorism, while maintaining operator anonymity. Its flexibility allows deployment on various platforms such as high-altitude balloons and unmanned systems, providing real-time actionable data for enhanced situational awareness. This innovation is significant for the defense sector, particularly in border security and law enforcement, as it empowers agencies to address complex threats effectively.

## **Lloyds Engineering launches division for indigenous defense manufacturing and technology collaboration.**

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13-Dec-25

Lloyds Engineering Works has launched a new subsidiary, Lloyds Advance Defence Systems, to strategically enter the defence sector with a focus on indigenous manufacturing. This initiative reflects India's commitment to bolstering its defence capabilities amid rising security challenges. The company has also secured international partnerships with Polish and Italian firms to introduce advanced drone, marine, and radar technologies to the Indian market. This move not only enhances India's technological landscape in defence but also aligns with the government's push for self-reliance in military manufacturing, aiming to reduce dependency on foreign imports and strengthen national security.

## **IAF Confirms Ten Squadrons of Project Kusha to Enhance Air Defence.**

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13-Dec-25

The Indian Air Force (IAF) has reaffirmed its commitment to the full order of ten squadrons of the indigenous Project Kusha air defence system, despite discussions regarding additional Russian S-400 regiments. IAF officials emphasized that both systems are essential due to India's extensive geographical challenges and the need for overlapping air defence coverage against potential saturation attacks. Project Kusha is designed with advanced indigenous technology, featuring multi-tiered interception capabilities and cost-effective production that will enhance India's operational readiness. With initial flight tests slated for late 2027 and production goals set to scale up by 2032, this development signifies a strategic move towards bolstering India's air defence capabilities while reducing reliance on foreign systems.

## **Russia proposes local production of M-90FR engines to boost Indian Navy's autonomy and reduce Ukrainian reliance.**

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13-Dec-25

Russia has proposed establishing a local production line in India for the M-90FR marine gas turbine engine, aiming to enhance the operational readiness of the Indian Navy while reducing dependency on Ukrainian supplies. The offer presents a solution to supply chain issues affecting Russian-origin platforms, particularly the Talwar-class frigates and Krivak III-class corvettes,

which have faced significant operational delays due to parts shortages since the onset of the Ukraine conflict. This initiative emphasizes deep industrial collaboration, including technology transfer for critical engine components, with a goal of achieving 60-70% indigenisation within five years. The M-90FR, with its technological advancements and compatibility with biofuels, represents a strategic step towards India's maritime engine autonomy and resilience against geopolitical uncertainties.

## India, Israel Fast-Track MR-SAM Upgrades for Supersonic Threats SHARE

13-Dec-25

India and Israel are expediting upgrades to the Medium-Range Surface-to-Air Missile (MR-SAM) system following its successful deployment during Operation Sindoor. The enhancements, driven by advanced talks between Israel Aerospace Industries and the Defence Research and Development Organisation, will focus on modernizing sensors and integrating powerful radar systems. This upgrade aims to improve the system's capabilities against emerging supersonic threats and will align MR-SAM units with India's multi-layered air defense architecture under Project Kusha and the Mission Sudarshan Chakra initiative. These developments reflect India's commitment to bolstering its air defense network and addressing the evolving aerial threats landscape, ensuring greater protection for critical assets and military formations.

## DRDO RCI partners with private firms to develop quantum avionics for 6th-gen fighter jets. SHARE

13-Dec-25

The Defence Research and Development Organisation's Research Centre Imarat has initiated a pivotal collaboration with Indian private companies and start-ups to develop quantum avionics, crucial for India's future sixth-generation fighter jets. This initiative aligns with the National Quantum Mission, aiming for self-reliance and enhancing aerial warfare capabilities through advanced systems like quantum inertial navigation, magnetometry, and radar that can operate effectively in GPS-denied environments. The project seeks to miniaturize laboratory-scale technologies into robust systems suitable for combat, with the potential to fundamentally alter air combat dynamics by neutralizing stealth capabilities of adversaries. RCI aims to fund up to 90% of development costs, ensuring technology transfer while maintaining indigenous innovation.

## Defense Policy and Budgeting

### HAL's Aero-Engine Project Delays Highlight Testing and Procurement Issues SHARE

13-Dec-25

The Committee on Public Undertakings' Twenty-Sixth Report, tabled in Parliament on December 11-12, 2025, flags chronic delays in HAL's Rs 441.41 crore gas turbine engine program since 2018, targeting a 25 kN turbofan for Intermediate Jet Trainers and a turboshaft for helicopters. Procurement bottlenecks, delayed test-bed approvals, and three-year land clearance lags have stalled Stage II, forcing HAL to write off Rs 159.23 crore. Chaired by Baijayant Panda, the panel slams MoD's interim responses lacking timelines, urging swift infrastructure and a gap analysis to bolster Atmanirbhar Bharat. From India's strategic lens, these lapses erode self-reliance in aero-engines, heightening import risks amid China-Pakistan threats and IAF squadron shortages, demanding urgent MoD-HAL synergy.

## Geopolitics and Security Alliances

### Thailand and Cambodia clash as ceasefire collapses, escalating conflict. SHARE

13-Dec-25

Fighting between Thailand and Cambodia has intensified as both nations engage in heavy artillery exchanges along their disputed 817-km border, following the collapse of a ceasefire brokered by U.S. President Donald Trump. Thailand has escalated its military operations, deploying F-16 fighter jets to target Cambodian military positions, while Cambodia retaliates with rocket fire, alleging civilian casualties from Thai strikes. The conflict, deeply rooted in territorial disputes over ancient temples, has displaced over 600,000 people and resulted in dozens of fatalities, including civilians. Trump's attempts to mediate peace have been hindered, as both sides accuse each other of violating ceasefire agreements, reflecting the fragility of regional stability in Southeast Asia. This escalating violence poses a significant concern for India's strategic interests, particularly in the context of its Act East policy and the importance of maintaining secure trade and defense corridors in the region.



## India's Air Littoral: A Crucial Battlefield for Modern Warfare SHARE

13-Dec-25

India is increasingly recognizing the significance of the air littoral as a critical battleground, particularly in the context of its northern border challenges with China and Pakistan. The current military discourse emphasizes the necessity for seamless integration of manned and unmanned systems, as recent conflicts have highlighted the effectiveness of low-altitude drone operations and rapid decision-making cycles in modern warfare. India's Defence Research and Development Organisation (DRDO) is advancing indigenous drone technologies and counter-drone systems, fostering a shift towards networked airpower capabilities that prioritize the fusion of real-time data from various platforms. This evolving paradigm calls for a fundamental rethinking of military theatre commands to ensure that air and land operations are closely integrated, allowing ground commanders to effectively manage the tactical airspace in a rapidly changing operational landscape. The successful implementation of these strategies and organizational reforms has the potential to enhance India's military effectiveness and deterrence posture along its borders, compelling adversaries to reassess their low-altitude tactics.

## Indian Army Engineers' Humanitarian Aid Restores Jaffna Bridge. SHARE

13-Dec-25

In a significant display of regional solidarity, an Engineer Task Force from the Indian Army has been deployed to Sri Lanka under Operation Sagar Bandhu, aimed at providing humanitarian assistance following the devastation caused by Cyclone Ditwah. Comprising 48 specialized personnel, the task force is focused on restoring vital communication links by repairing and constructing damaged roads and bridges, with particular emphasis on the Kilinochchi Bridge. Equipped with advanced engineering tools, including Bailey bridges airlifted by Indian Air Force C-17 aircraft, drones, and heavy earth-moving equipment, the team is well-prepared to address the critical infrastructure needs of the affected areas. Additionally, the Indian Army has established a field hospital to deliver urgent medical aid to thousands of impacted citizens, treating over 5,000 patients thus far. This proactive military intervention highlights India's commitment to humanitarian efforts in the region and reinforces the strong bilateral ties between India and Sri Lanka, exemplifying the importance of cooperative support

during crises and the role of India as a reliable partner in times of need.

## India's Russian crude imports rise 4% in November, reaching five-month high. SHARE

13-Dec-25

India's imports of Russian crude oil rose 4 percent in November 2025 to a five-month high of €2.6 billion, according to data released by the Centre for Research on Energy and Clean Air (CREA) on December 11, 2025. This positioned India as the second-largest buyer of Russian fossil fuels after China, which took 47 percent of Russia's crude exports while India secured 38 percent, with Russia supplying about 35 percent of India's total crude needs. Despite US sanctions imposed on October 22 targeting producers like Rosneft and Lukoil, state-owned refineries boosted volumes by 22 percent month-on-month by sourcing from non-sanctioned entities, while private refiners scaled back slightly; overall import volumes stayed stable. Leveraging discounted Russian barrels amid falling European demand, India enhanced its energy security and ramped up refined fuel exports, notably a 69 percent surge to Australia worth €150 million from Jamnagar refinery, alongside shipments to the EU, US, and others, bolstering its strategic role in global oil trade.

## India Expedites Chinese Business Visas to Revive Manufacturing and Trade. SHARE

13-Dec-25

India has modified its visa regulations to expedite the approval of business visas for Chinese professionals, aiming to facilitate the resumption of stalled manufacturing projects and supply chains. This adjustment comes as both nations seek to restore diplomatic ties following tensions stemming from the eastern Ladakh border conflict. The changes allow for short-term business visa processing within three to four weeks, benefiting Chinese nationals significantly. Recent discussions between Prime Minister Narendra Modi and Chinese President Xi Jinping focused on deepening bilateral relations, expanding trade, and jointly addressing border issues, marking a potential thaw in ties and signaling a commitment to regional stability and economic collaboration.

## China and Russia advance stealth satellites, escalating space security threats. SHARE

13-Dec-25

China and Russia are intensifying the militarization of space, with advancements in stealth satellite technology that complicate global surveillance efforts. US Space Force officials revealed that China's Shiyang-24 series is executing coordinated maneuvers to reduce radar visibility, while Russia's Mozhayets-6 satellite remains undetected for weeks, highlighting significant challenges for monitoring capabilities. For India, these developments pose a direct threat to its strategic assets, including critical reconnaissance and communication satellites operated by ISRO, necessitating the urgent enhancement of indigenous counter-space capabilities to protect national security interests in an increasingly contested orbital environment. This escalation amplifies the need for robust defense strategies to ensure India remains competitive in space operations amidst adversarial advancements.

## Russian Attack on Turkish Ship Heightens Black Sea Shipping Tensions SHARE

13-Dec-25

On 12 December 2025, Russian forces targeted the Turkish-owned cargo vessel CENK-T in Chornomorsk, Ukraine, amid escalating tensions following Ukrainian drone attacks on Russian maritime assets. This strike underscores Russia's determination to control Ukraine's maritime access, directly impacting civilian shipping and highlighting the volatility in the Black Sea region. Türkiye has protested the attack, advocating for de-escalation and secure navigation, which emphasizes its strategic position as a mediator. For India, the incident illustrates the increasing militarization of vital maritime routes, elevating the risks associated with shipping and necessitating diversified trade routes to safeguard its own energy security and economic interests amidst geopolitical uncertainties.

## NATO's Rutte warns allies of Russia's looming military threat. SHARE

13-Dec-25

NATO chief Mark Rutte has issued a stark warning to allies regarding the growing threat posed by Russia, emphasizing the necessity for increased defense spending and production to avert potential conflict on a historic scale. Speaking in Berlin, Rutte expressed concern that many NATO members remain complacent about the urgency of the situation, stating, "We are Russia's next target," and stressing that immediate

action is imperative as conflict looms closer to Europe. He forecasted that Russia could be prepared to employ military force against NATO within the next five years, underscoring the critical need for unity and readiness among member states to confront this emerging threat. This development highlights the escalating geopolitical tensions in Europe and the imperative for collective security measures.

## North Korea admits troops cleared mines in support of Russia. SHARE

13-Dec-25

North Korean leader Kim Jong Un acknowledged that troops were sent to Russia's Kursk region to clear mines, marking a rare admission of the dangerous tasks undertaken by deployed soldiers during Russia's ongoing invasion of Ukraine. Reports indicate that North Korea has dispatched thousands of troops to support Russia, potentially receiving financial aid and military technology in return, which helps the isolated nation circumvent international sanctions related to its nuclear programs. During a welcome ceremony for returning soldiers, Kim commemorated the bravery of those who served, including nine who died during their deployment, reflecting the deep sacrifices made amidst the conflict. This development underscores North Korea's increasing military collaboration with Russia, raising implications for regional security dynamics and international relations.

## Pakistan seeks new bloc with China, Bangladesh, sidelining India as SAARC falters. SHARE

13-Dec-25

Amid escalating tensions, Pakistan has been vocal in attributing the stagnation of SAARC to India's actions, while simultaneously pursuing an alternative alliance with Bangladesh and China to sidestep India. Pakistan's Foreign Ministry has criticized India for disrupting regional cooperation, despite India's insistence that Pakistan's support for terrorism has paralyzed SAARC operations. The proposed new bloc, potentially resembling the Shanghai Cooperation Organisation, aims to enhance military collaboration and economic ties, challenging India's influence in South Asia. As India emphasizes a "neighbourhood first" policy and strengthens ties with other regional partners, the ongoing friction underscores the challenging dynamics in the region, with SAARC's future hinging on the resolution of trust deficits.

## US experts commend India's strong stand against Chinese aggression in Indo-Pacific. SHARE

13-Dec-25

During a recent hearing by the House Foreign Affairs Subcommittee, US experts praised India's robust resistance to China's expanding aggression in the Indo-Pacific region, underscoring the strengthening US-India strategic partnership. Experts highlighted India's decisive measures against Chinese coercion, including a swift ban on Chinese apps and imposing restrictions on investments deemed security risks. They emphasized that India's strategic location and enhanced naval capabilities are crucial for maintaining a free Indo-Pacific, amid warnings about China's military expansion and its network of dual-use ports. The testimony pointed to the growing collaboration between the US and India as a vital counterbalance to China's military pressure, reflecting a consensus on the geopolitical significance of their partnership in addressing regional security challenges.

## Ukraine denies supplying drones to Pakistan amid Operation Sindoor tensions. SHARE

13-Dec-25

Ukraine categorically denied on December 12, 2025, supplying any drones to Pakistan, amid rumors circulating during the May 2025 India-Pakistan crisis sparked by Operation Sindoor. India launched the operation on May 7 in response to a deadly terrorist attack in Pahalgam, Jammu and Kashmir, killing 25 Indians and one Nepali, targeting nine terror infrastructure sites linked to Jaish-e-Mohammed and Lashkar-e-Taiba across Pakistan and Pakistan-occupied Kashmir without hitting military or civilian facilities. The four-day conflict marked the first large-scale drone warfare between the nuclear-armed neighbors, with India deploying Israeli Harop and Heron systems alongside indigenous UAVs for precision strikes, while Pakistan launched swarms of Turkish-origin drones that faltered against Indian defenses. Kyiv's firm rebuttal underscores India's vigilance against adversarial drone proliferation, reinforcing New Delhi's resolve to counter cross-border terrorism decisively.

## India, China officials reaffirm commitment to enhancing bilateral relations. SHARE

13-Dec-25

Senior officials from India and China recently held consultations in Beijing, reaffirming positive

developments in bilateral ties following the August meeting between Prime Minister Narendra Modi and President Xi Jinping. Sujit Ghosh from India's Ministry of External Affairs and Liu Jinsong from the Chinese Foreign Ministry expressed commitment to implementing the understandings reached in Tianjin, emphasizing the need to elevate relations through mutual respect and cooperation. Both sides highlighted the importance of resuming dialogue and managing differences effectively to foster a stable and cooperative relationship. This dialogue is critical for enhancing regional stability and addressing shared challenges, underscoring the strategic importance of India-China relations in the current geopolitical context.

## Trump expresses frustration over slow progress in Russia-Ukraine peace talks, highlighting U.S. commitment. SHARE

13-Dec-25

President Trump expressed frustration over delays in the Russia-Ukraine peace negotiations, emphasizing the U.S. commitment to ending the conflict. The administration's Special Envoy, Steve Witkoff, is engaging in ongoing talks aimed at reconciling differences between Kyiv and Moscow, with high-level U.S. participation in upcoming meetings contingent on progress. Ukrainian President Zelenskyy has submitted a set of counter-proposals addressing security guarantees and insisting on a national referendum for any territorial concessions, underscoring domestic political constraints. As the peace framework evolves, key disagreements over the Donetsk region and the governance of the Zaporizhzhia nuclear power plant remain critical points of contention, reflecting the complexities of aligning interests between the involved parties.

## Military Operations

## U.S. Navy deploys advanced fighters in Puerto Rico amid Caribbean escalation. SHARE

13-Dec-25

The United States is significantly escalating its military presence in the Caribbean under Operation Southern Spear, deploying advanced platforms such as EA-18G Growler electronic warfare jets, F-35A Joint Strike Fighters, HH-60W Jolly Green II helicopters, and various aerial refueling tankers to Puerto Rico and surrounding areas. This buildup, framed as a counter-narcotics

mission against Venezuelan President Nicolás Maduro's regime, signals a potential shift toward offensive operations amidst rising tensions. The U.S. military's recent activities, including airstrikes and the seizure of a sanctioned oil tanker, reflect a broader strategy to curb destabilizing influences in the region, particularly those linked to narcoterrorism and authoritarian powers that threaten hemispheric stability. From an Indian strategic perspective, this U.S. posture not only aids in maintaining regional security—potentially impacting global supply chains and energy routes—but also aligns with India's interests in combating drug trafficking and fostering reliable partnerships in an interconnected geopolitical landscape.

## **India Raises Concerns Over Pakistan's F-16 Support for Recovery Post Conflict.**



13-Dec-25

The recent approval of a \$686 million U.S. F-16 support package for Pakistan has sparked significant concern in India, particularly in light of the substantial losses reportedly incurred by the Pakistan Air Force (PAF) during the 2025 conflict known as Operation Sindoor. Indian officials argue that this package aligns closely with systems and infrastructure Pakistan needed to repair post-conflict, including critical components for F-16 operations such as avionics upgrades and secure communication systems. The U.S. Defense Security Cooperation Agency's (DSCA) announcement reflects a shift towards stabilizing Pakistan's existing fleet rather than enhancing its capabilities, as it focuses on infrastructural restoration rather than the sale of new aircraft. Analysts suggest that this deal signifies a thaw in U.S.-Pakistan relations and could serve as a strategic pressure point on India amid ongoing geopolitical tensions. While U.S. officials insist that the deal does not alter the military balance in South Asia, Indian commentators view it as a reminder of adversaries' rapid reconstitution capabilities, underscoring the broader implications for regional security and India's defense strategies.

## **Army Chief leads 2025 Artillery Conference on modernization and operational strategies.**



13-Dec-25

The Biennial Artillery Conference 2025, presided over by Chief of Army Staff General Upendra Dwivedi at the School of Artillery in Devlali, focused on the operational, modernization, and transformational priorities of the

Indian Army's Regiment of Artillery. The conference included discussions on operational lessons from Operation SINDOOR and emphasized modernizing warfare through technology infusion and restructuring the artillery force. General Dwivedi praised the Regiment's historical contributions and lauded the ongoing efforts to enhance training standards, particularly in drone warfare capabilities, as showcased at the Drone Experience Centre. Furthermore, the Indian Army and Air Force are set to order 16 indigenous laser-based drone detection systems, reflecting a commitment to advancing defense technology amid evolving threats. These initiatives underscore India's proactive approach to bolstering its military readiness in an increasingly complex security landscape.

## **Infantry Commanders' Conference addresses key challenges in warfare and counter-terrorism.**



13-Dec-25

The 38th Infantry Commanders' Conference, held from December 9 to 11 at The Infantry School in Mhow, addressed key operational and capability challenges facing the Indian Army's Infantry units amidst conventional warfare and counter-terrorism. Led by Chief of Army Staff General Upendra Dwivedi, the conference brought together senior military leaders to discuss advancements in technology, with an emphasis on enhancing lethality, mobility, and battlefield awareness. Significant decisions were made to bolster Infantry capabilities in line with evolving threats, showcasing new equipment that instills confidence in their operational readiness. This forum not only solidified the Infantry's spirit but also fostered collaborative solutions for future growth amidst the dynamic security landscape.

## **Ukraine successfully strikes two Russian ships in the Caspian Sea transporting military gear.**



13-Dec-25

Ukraine's special forces have reportedly conducted a successful operation targeting two Russian ships, the Composer Rakhmaninoff and the Askar-Sarydzha, in the Caspian Sea, which were allegedly transporting military equipment and had been sanctioned by the U.S. for their involvement in military logistics between Iran and Russia. This attack, supported by local resistance movements, follows an earlier strike on a Russian oil rig that disrupted extraction operations. While the exact details of the damage remain undisclosed, this development underscores Ukraine's strategic efforts to



undermine Russian military capabilities and logistics amidst ongoing tensions in the region, highlighting the evolving nature of naval warfare and resistance efforts in the conflict.

## 28-year-old man crosses from J&K to PoK, raising security concerns. SHARE

13-Dec-25

On December 10, 2025, 28-year-old Shahid Khan from Qasba village in Jammu and Kashmir's Poonch district crossed the Line of Control (LoC) into Pakistan-occupied Kashmir (PoK) around 3:15 pm via a stream route to Bodiya post, reportedly to attend a wedding in forward village Kirni. Indian security officials remain uncertain if the breach was inadvertent amid terrain challenges or deliberate, prompting an FIR and probe into potential intelligence risks. No updates emerged in the past three days from credible sources beyond initial reports, underscoring persistent LoC vulnerabilities that could be exploited by Pakistan for propaganda or infiltration amid fragile India-Pakistan ties. This incident heightens strategic concerns for border fortification and vigilance in Poonch sector.

## Terrorism and Counterterrorism

### J&K Police attach property of Hizbul Mujahideen terrorist in Doda. SHARE

13-Dec-25

In a significant move against terrorism, the Jammu and Kashmir Police's State Investigation Agency has attached the property of Pakistan-based Hizbul Mujahideen terrorist Zahid Hussain in the Doda district, following court orders. This ancestral land in Mangota village was identified and officially attached as part of a broader crackdown aimed at dismantling the terror ecosystem within the region. Hussain, currently operating from Pakistan, is accused of radicalizing and recruiting local youths as over ground workers via social media. This action highlights the ongoing efforts of security agencies to disrupt the financial and logistical support structures of terrorism in Jammu and Kashmir, reinforcing India's commitment to counter-terrorism initiatives.

### Former ISI chief Faiz Hameed sentenced to 14 years in prison. SHARE

13-Dec-25

In a landmark verdict on December 11, 2025, a Pakistani Field General Court Martial sentenced former

ISI Director General Lt Gen (retd) Faiz Hameed to 14 years' rigorous imprisonment for engaging in political activities, violating the Official Secrets Act, misusing authority, and causing wrongful loss to individuals. Arrested on August 12, 2024, amid a Supreme Court-ordered probe into the Top City housing scandal, Hameed—Imran Khan's close ally during his 2019-2021 ISI tenure—faced a 15-month trial under the Pakistan Army Act, with full legal rights upheld. From India's strategic lens, this unprecedented conviction of a top spy chief signals internal military purges under Gen Asim Munir, potentially weakening ISI's proxy terror networks against India, curbing political meddling, and exposing rifts that could limit Pakistan's hybrid warfare capabilities along the LoC. Hameed retains appeal rights, as separate probes into May 2023 unrest continue.

### ISKP media group raises funds for weapons, heightening regional threats. SHARE

13-Dec-25

On December 7, 2025, a Telegram group associated with the Islamic State Khurasan Province (ISKP) publicly solicited funds for the acquisition of weapons and military equipment. The fundraising effort, led by the Al-Azaim media group, was conducted in multiple languages, including Tajik, English, and Russian, and notably requested donations in Monero cryptocurrency. This development underscores the persistent threat posed by ISKP in the region and raises concerns about the potential for enhanced armed capabilities among extremist factions. The implications of such funding efforts could destabilize security in Central and South Asia, necessitating a robust response from regional and international security forces.

### Agencies Expose Jaish-Lashkar Plot Targeting India via Bangladesh. SHARE

13-Dec-25

Intelligence agencies have uncovered a plot by Pakistan-based terrorist groups Jaish-e-Mohammed and Lashkar-e-Taiba to execute coordinated bomb attacks in India, utilizing Bangladesh as a training and operational hub. This development is linked to the ISI's strategy to exploit cross-border networks, positioning Bangladesh as a staging ground while maintaining plausible deniability for Islamabad. The infiltration of trained operatives from Pakistan into Bangladesh raises significant security concerns for India, particularly in vulnerable regions like West Bengal and the Northeast. This situation underscores the ongoing challenge of

cross-border terrorism in South Asia, emphasizing the critical need for enhanced intelligence-sharing and regional cooperation between India and Bangladesh to counteract these threats effectively.

## Cybersecurity and Information Warfare

### New cybersecurity initiatives enhance resilience in India's power sector.

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13-Dec-25

The Indian power sector is advancing its cybersecurity resilience through initiatives such as the establishment of the POWERGRID Centre of Excellence at IISc, Bengaluru, and the formation of a Cyber Security Incident Response Team (CSIRT-Power) by the Ministry of Power. The Central Electricity Authority has issued comprehensive guidelines aimed at enhancing governance and security protocols across the sector. Furthermore, regional entities like the Gujarat Energy Transmission Corporation Limited are implementing stringent cybersecurity measures, leading to zero reported breaches in operational systems over the last five years. These developments underscore the government's commitment to safeguarding critical energy infrastructure against evolving cyber threats, which is vital for national security and operational integrity.

### New tool enhances satellite supply chain defense against cyber threats.

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13-Dec-25

Researchers at the University of South Australia have developed a gamified decision-making tool designed to enhance the cyber resilience of satellite supply chains amid rising cyber threats, evidenced by nearly 240 attacks on the space sector in the past two years. This innovative tool allows security teams to practice decision-making in a safe environment, utilizing cyber threat intelligence (CTI) to simulate real-world attack scenarios. By focusing on the human factor in cybersecurity, the tool aims to improve response strategies and highlight vulnerabilities, which is increasingly crucial as nations expand into space. The initiative underscores the importance of proactive defenses to safeguard both national security and commercial interests in an era of escalating cyber risks.

## U.S. accuses Russian operatives of DDoS attacks via CISM links.

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13-Dec-25

U.S. authorities have unveiled serious accusations against Victoria Eduardovna Dubranova for her involvement in Russian cyber operations, specifically targeting critical infrastructure through groups like CyberArmyofRussia\_Reborn (CARR) and NoName057(16). These entities, reportedly supported by the Russian government, orchestrated DDoS attacks facilitated by a crowd-hacking system called DDoSia that utilized Telegram for recruiting participants. Investigations linked the operations to the Centre for the Study and Monitoring of the Youth Environment (CISM), suggesting a disturbing intersection of youth re-education efforts and sophisticated cyber capabilities. The implications of these revelations underscore the ongoing threat posed by state-sponsored cyber activities to global security and critical infrastructure.

## Mil Personnel & Veterans

### General Dwivedi Inspects Advanced Training Facilities at CAATS

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13-Dec-25

General Upendra Dwivedi, the Chief of the Army Staff (COAS), visited the Combat Army Aviation Training School (CAATS) to assess its advanced training infrastructure and standards. He was briefed on the integration of cutting-edge technologies into the aviation training program, aligning with the Indian Army's Decade of Transformation initiative. General Dwivedi praised the professionalism and innovative approaches of the personnel, emphasizing the need for continual modernization to address emerging security challenges. His visit underscores the Army's commitment to enhancing operational capabilities, ensuring readiness in an evolving geopolitical landscape.

### Lt Gen Devendra Sharma Reviews Military Training Advancements at Bareilly Academy

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13-Dec-25

Lieutenant General Devendra Sharma, General Officer Commanding-in-Chief of the Army Training Command, visited the Junior Leaders Academy in Bareilly on December 12, 2025, to review advancements in military training and capability-building initiatives. His assessment included infrastructure upgrades and the

integration of enhanced drone training modules critical for modern warfare. Engaging with instructors and trainees, he commended the academy's proactive approach in developing technically adept leaders. The visit underscored the Indian Army's commitment to evolving with the demands of contemporary combat, while also honoring veterans and recognizing exceptional service among current personnel, reinforcing the significance of leadership and legacy in maintaining mission readiness.

## **Air Marshal Mishra assesses operational readiness at Faridabad Air Force Station.**



13-Dec-25

Air Marshal Jeetendra Mishra, the Air Officer Commanding-in-Chief of the Western Air Command, visited Air Force Station Faridabad on December 10, 2025, to assess its operational readiness and welfare initiatives. He praised the Air Force K9 School for its exemplary training standards during the Passing Out Parade of the No. 80 Explosive Detection Dog Course, noting the critical role of newly trained dogs in enhancing security measures. Additionally, Air Marshal Mishra inspected the logistics facilities, emphasizing the importance of efficient supply chains for frontline operations. This visit underscores the Indian Air Force's commitment to modernizing its capabilities and ensuring mission preparedness amid evolving operational challenges.

Space India Limited (NSIL), underscores India's growing role in the global launch market and reflects the increasing private sector engagement in India's space program. The successful deployment of BlueBird-6 is expected to bolster India's reputation as a reliable launch partner and contribute to its strategic objectives in the defense and aerospace sectors, further solidifying alliances with key international partners in space exploration and technology.

## **Over 11,152 acres of defense land face encroachment issues across multiple states.**



13-Dec-25

The Indian government reported to Parliament that approximately 11,152 acres of the nation's total 18 lakh acres of defense land are currently under encroachment, highlighting ongoing issues in multiple states. Minister of State for Defence Sanjay Seth noted that significant portions of this land are reserved for military training and infrastructure, despite appearances of being unused. Furthermore, about 8,113 acres are entangled in legal disputes, complicating effective land utilization. The Ministry confirmed its commitment to revising the Defence Acquisition Procedure to streamline equipment procurement processes, essential for enhancing operational readiness and efficiency within the armed forces.

## **India launches hydrogen-powered vessel service in Varanasi for sustainable mobility.**



13-Dec-25

India has launched its first hydrogen-powered passenger vessel service in Varanasi, marking a significant step towards sustainable waterborne mobility. The vessel, named FCV Pilot-01, operates on a low-temperature Proton Exchange Membrane fuel cell system, emitting only water as a byproduct and aligning with the country's net-zero emissions goal by 2070. Highlighted by Union Minister Sarbananda Sonowal, the initiative supports the Make in India campaign and emphasizes the importance of green technologies in preserving the Ganga River. This development not only enhances indigenous manufacturing and reduces reliance on fossil fuels but also showcases India's commitment to innovation in eco-friendly maritime transport, paving the way for future projects across national waterways.

### **Miscellaneous**

## **ISRO to launch US BlueBird-6 satellite on December 15, enhancing space collaboration.**



13-Dec-25

The Indian Space Research Organisation (ISRO) is set to launch the 6.5-tonne BlueBird-6 satellite for US-based AST SpaceMobile on December 15, marking a significant milestone in Indo-US space collaboration. The BlueBird-6 satellite, equipped with the largest commercial phased array antenna in low Earth orbit, will enhance cellular broadband capabilities and provide connectivity in underserved areas, showcasing advancements in space-based communication technology. The launch will utilize ISRO's powerful LVM3 rocket, which recently demonstrated its capability by successfully deploying India's CMS-3 satellite. This mission, falling under ISRO's commercial arm New

## MIT-WPU researchers achieve breakthrough in hydrogen storage, reducing time to two hours.



13-Dec-25

MIT-WPU researchers have achieved a groundbreaking advancement in hydrogen storage technology, reducing the hydrogen loading time to just two hours, compared to the global benchmark of eighteen hours. Utilizing a Liquid Organic Hydrogen Carrier (LOHC) system, which operates at lower pressures and temperatures, this method significantly improves safety and integration into existing fuel logistics. The potential applications extend to sectors like defense and energy, supporting India's decarbonization strategy by enabling effective hydrogen transport from renewable energy sources. This innovation not only positions India as a leader in the evolving hydrogen sector but may also catalyze domestic manufacturing and job creation, aligning with initiatives like Make in India and the National Green Hydrogen Mission.

## DGCA suspends four inspectors after IndiGo's massive flight cancellations.



13-Dec-25

India's Directorate General of Civil Aviation (DGCA) suspended four Flight Operations Inspectors on December 11-12, 2025, holding them accountable for failing to ensure IndiGo's compliance during a massive operational meltdown that began December 1, stranding lakhs of passengers with over 2,000 flights cancelled nationwide by December 9—peaking at 562 on December 8, including 54 from Bengaluru on December 12 alone. DGCA teams now monitor operations at IndiGo's Gurugram headquarters, while CEO Pieter Elbers and COO Isidre Porcheras faced the inquiry panel twice by December 12 after show-cause notices. From an Indian strategic lens, this exposes aviation vulnerabilities critical for national security, troop mobility, and economic connectivity, demanding stricter regulatory enforcement to safeguard reliability amid rising air travel dependence.

## Sodium-ion batteries present a strategic opportunity for India's energy sector, says ex-DRDO chief.



13-Dec-25

On December 11, 2025, in Hyderabad, Naxion Energy launched India's first sodium-ion energy storage systems in 3.5 kW, 5 kW, and 10 kW models, designed and manufactured at its Coimbatore facility for

residential, commercial, industrial, and defence sectors. Former DRDO Chairman G. Satheesh Reddy, chief guest at the event, emphasized sodium-ion batteries as a strategic opportunity for India's energy sector, leveraging abundant domestic sodium resources to bypass lithium import dependencies and enable scalable, low-cost manufacturing. He urged Indian industries to accelerate cell production, noting advantages like safety, non-flammability, maintenance-free operation, and resilience in extreme climates from -30°C to +70°C, positioning the technology as a reliable alternative to lead-acid and lithium systems for energy security and self-reliance. Naxion plans a ₹200 crore Hyderabad manufacturing facility by next year to meet rising demand.

## ISRO to launch rockets from Tamil Nadu's Kulasekarapattinam in 2027.



13-Dec-25

ISRO Chairman V. Narayanan announced on December 11, 2025, that rocket launches from Tamil Nadu's Kulasekarapattinam spaceport—India's second after Sriharikota and inaugurated by Prime Minister Narendra Modi in 2023—will commence in early 2027, primarily for Small Satellite Launch Vehicles (SSLVs) and private entities, enabling 20-25 annual missions with optimal polar orbits. Construction advances swiftly, with land acquisition nearly complete and key infrastructure underway, enhancing India's small-satellite dominance amid intensifying space competition from China and private players. Paralleling this, Gaganyaan preparations near fruition, featuring 8,000 successful Crew Escape System tests and three uncrewed flights before 2027 crewed missions, paving the way for the Bharatiya Antariksh Station's first module in 2028 and full operations by 2035. From an Indian strategic lens, these developments fortify self-reliance in defense reconnaissance, disaster monitoring, and geopolitical deterrence through sovereign space access.

## J&K LG vows jobs for terror victims' families, not terrorists' kin.



13-Dec-25

On December 11, 2025, Jammu and Kashmir Lieutenant Governor Manoj Sinha handed over appointment letters to 41 next-of-kin of terror victims from the Jammu division, marking a decisive policy shift under Prime Minister Narendra Modi's administration. Declaring "terror victims will get jobs and terrorists will get bullets," Sinha contrasted this with past practices of awarding jobs to militants' kin, crediting the 2019 Article 370 abrogation for dismantling the terror



ecosystem. He announced reopening old cases and registering new FIRs against perpetrators, including cross-border actors, while vowing no government relief for terrorism-linked families. This initiative, following 94 similar appointments on July 28, 2025, bolsters

economic security for victims, counters Pakistan-backed militancy, and signals India's firm strategic resolve to eradicate terrorism and foster lasting peace in the region.

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# Defence Sector Stocks

Stock	Open	High	Low	Close	Volume	Change	RSI14	SMA20	SMA200
WALCHANNAG	153.0	179.14	151.6	175.53	7221933	14.34	57.52	160.66	189.96
LOKESHMACH	154.7	179.0	153.02	173.61	847817	12.82	57.03	159.4	181.62
NIBE	1007.15	1102.2	999.9	1102.2	7293	10.0	51.49	1058.67	1341.01
RELINFRA	130.0	135.75	129.93	135.75	1055531	5.0	29.09	158.74	269.35
SWANDEF	1199.3	1199.3	1199.3	1199.3	4300	5.0	100.0	784.82	123.74
APOLLO	228.0	236.0	228.0	236.0	2258666	4.98	35.84	262.48	206.89
AVANTEL	148.09	153.75	148.09	152.43	1601556	3.41	45.34	152.8	147.51
KRISHNADEF	716.0	752.0	716.0	745.0	11500	2.74	44.17	770.45	787.63
TANEJAERO	296.2	309.0	296.2	303.45	10672	2.45	36.97	319.03	363.5
AZAD	1590.0	1617.1	1583.5	1607.9	70430	1.9	46.46	1644.7	1579.15
MACPOWER	990.05	1029.0	990.05	1013.6	24392	1.86	60.89	970.96	878.37
LT	4061.0	4114.0	4048.6	4074.1	2207898	1.75	61.47	4025.45	3607.4
BHARATFORG	1414.9	1430.0	1404.7	1426.6	509588	1.36	61.06	1411.43	1220.44
MTARTECH	2324.0	2358.7	2302.0	2345.5	128756	1.28	44.39	2490.06	1724.02
HBLPOWER	805.0	823.65	803.0	811.75	976001	1.24	35.65	872.6	684.17
MIDHANI	298.25	302.25	297.55	300.55	347390	1.23	28.86	324.38	363.25
HIGHENE	541.35	559.75	541.35	550.0	2833	1.16	38.97	582.75	606.87
TEMBO	746.5	758.0	730.05	746.7	148318	1.15	56.72	743.76	558.66
LMW	15218.0	15450.0	15140.0	15380.0	2737	1.13	53.28	15193.95	15624.98
ZENTEC	1375.0	1394.0	1355.0	1389.1	260764	1.13	49.89	1393.99	1544.74
URAVIDEF	169.5	169.5	160.01	164.65	3093	0.99	26.65	183.09	388.35
BEML	1688.2	1714.1	1668.6	1690.4	194082	0.71	28.7	1811.82	1906.3
ROSSELLIND	55.14	56.0	54.63	55.05	5051	0.58	35.2	57.08	65.81
PTC	155.05	156.8	154.5	155.9	372756	0.55	38.69	158.74	172.01
BEL	388.0	394.1	388.0	389.45	12661065	0.5	36.95	407.53	370.61
GOODLUCK	1104.5	1112.4	1086.1	1096.2	40570	0.35	37.87	1141.69	1009.69
ASTRAMICRO	912.5	923.4	905.0	907.05	293811	0.3	39.24	934.92	953.63
DCXINDIA	162.5	164.32	158.45	162.13	501273	0.28	23.44	179.69	255.71
IDEAFORGE	430.0	432.95	421.15	425.4	120963	0.24	34.29	458.82	472.6
ADANIENT	2277.7	2296.8	2270.2	2282.4	929199	0.21	45.09	2309.52	2416.74
COCHINSHIP	1602.0	1613.9	1595.0	1599.1	309330	0.13	31.2	1659.22	1726.95
PREMEXPLN	508.85	509.1	499.4	502.3	161121	0.11	33.32	535.41	509.63
PARAS	668.8	679.3	666.0	667.45	216075	0.04	38.94	704.82	680.99
DYNAMATECH	9345.0	9400.0	9165.0	9257.0	27756	-0.08	55.08	9205.37	7153.2
RTNINDIA	40.6	41.16	40.02	40.47	1131326	-0.15	25.12	42.82	50.41
SUNITATool	795.95	799.0	785.0	788.0	1500	-0.2	43.18	834.06	776.57
BDL	1425.0	1434.4	1401.4	1409.9	820908	-0.25	38.39	1492.63	1556.01
MARINE	207.0	207.0	200.0	202.89	234838	-0.27	35.06	224.09	200.13
JYOTICNC	968.9	973.5	953.0	957.7	202631	-0.28	49.28	982.27	1015.14
DATAPATNS	2617.0	2626.0	2566.0	2594.2	227718	-0.36	35.39	2874.11	2529.85
MAZDOCK	2475.0	2490.0	2434.0	2458.7	595164	-0.36	29.57	2643.84	2841.48
HAL	4333.0	4359.9	4257.3	4302.5	791726	-0.42	33.53	4500.59	4530.64
SIKA	940.0	958.0	913.15	926.6	11718	-0.71	38.53	967.39	1012.38
AXISCADES	1308.8	1329.1	1280.1	1297.9	27945	-0.83	36.14	1403.91	1232.4
SOLARINDS	12518.0	12518.0	12185.0	12304.0	81198	-1.24	29.33	13165.45	13773.55
TECHERA	223.95	230.75	210.1	216.65	447200	-1.43	39.52	231.48	197.49
CFF	580.0	580.0	560.3	565.0	12600	-1.63	30.32	611.0	584.76
GRSE	2403.0	2445.0	2340.2	2350.0	1025850	-1.85	32.27	2647.27	2414.38
CENTUM	2395.1	2414.6	2282.4	2302.8	24199	-3.62	44.79	2368.06	2208.01
DRONACHRYA	56.3	56.3	50.94	50.94	556000	-5.0	48.99	51.15	70.65