



# Defence Professionals News & Analysis

March 19, 2025 | Day 078

## Top Gainers

Stock	Close	Prev	Change
GRSE	1641.35	1367.8	+20.0%
HBLPOWER	482.4	418.75	+15.2%
IDEAFORGE	383.9	336.35	+14.14%
PREMEXPLN	371.45	327.5	+13.42%
MAZDOCK	2625.25	2376.5	+10.47%

## Top Losers

Stock	Close	Prev	Change
PTC	157.66	158.5	-0.53%

## Defense Business and Industry

### Indian Defence Stocks Soar 20% Amid Global Military Spending Surge



19-Mar-25

Indian defence stocks have surged significantly, driven by global military spending boosts, including Germany's new spending package and the EU's €800 billion rearmament plan. Notable gains were seen in shares of Garden Reach Shipbuilders (up 20%), Mazagon Dock, and Cochin Shipyard, reflecting a broader recovery in the sector amid geopolitical tensions, particularly the war in Ukraine. Analysts highlight that Indian defence companies are increasingly positioned as attractive suppliers due to their robust manufacturing capabilities and cost-effectiveness, which are critical as European nations seek to bolster their defence. The rally in stocks signals a growing confidence in the Indian defence sector, with potential for significant future contract wins, further enhanced by a reported 32.5% increase in Indian defence exports last financial year. This trend underscores the strategic shift towards India as a key player in the global defence landscape.

### NDC Delegation Explores Sri City's Role in India's Industrial Growth



19-Mar-25

A 17-member delegation from the National Defence College (NDC), New Delhi, visited Sri City to study India's industrial growth and strategic economic development. Led by former Maj Gen CP Sangra, the delegation engaged with local industry leaders, examining Sri City's integrated business ecosystem, which significantly contributes to national initiatives,

including the Defence sector and ISRO projects. The visit highlighted Sri City's model for industrial development, focusing on logistics efficiency, sustainability, and socio-economic progress. The delegation praised the operational success of the hub, underscoring its role in advancing India's manufacturing and logistics capabilities, thus supporting the broader vision of a Viksit Bharat.

### Collins Aerospace Enhances Black Hawk Helos with Mosarc Integration



19-Mar-25

Collins Aerospace has secured an \$80 million contract to enhance the avionics systems of U.S. Army Black Hawk helicopters through its H-60M MOSA Avionics Architecture Solution program. The integration of the Mosarc system will provide an open architecture that facilitates rapid technology upgrades, essential for adapting to modern battlefield dynamics. By promoting interoperability, Mosarc will enhance joint operations and reduce lifecycle sustainment costs. This initiative not only ensures that the Black Hawks remain operationally relevant for decades but also sets a precedent for future advancements in military aviation technologies. The focus on modular systems aligns with the growing need for agility in defense capabilities globally.

### Anschutz Unveils Game-Changing Autonomous Maritime Navigation System



19-Mar-25

German navigation specialist Anschutz has developed an advanced Autonomous Navigation and Command System designed for unmanned maritime operations, enhancing capability and safety for navies. This system

integrates proven technologies for precise navigation, control, and remote monitoring from Tactical Operations Centres. With scaling capabilities, it caters to various unmanned platforms, facilitates ISR operations, and supports mission-specific requirements, significantly improving the speed and effectiveness of maritime missions. The integration of autonomous navigation with tactical mission functions positions this system as a game-changer, enabling navies to secure critical maritime infrastructure and undertake comprehensive surveillance while ensuring adaptability to future regulations and standards, reaffirming India's focus on modernizing its defense capabilities in alignment with evolving maritime threats.

## **BAE Systems to Aid Canada's River-Class Destroyer Project**



19-Mar-25

BAE Systems has signed a contract with Canada's Irving Shipbuilding Inc. to support the River-class destroyer programme, marking a significant phase in the construction of Canada's largest shipbuilding effort since World War II. This contract involves building the first three of 15 planned ships, providing expertise from the UK's Type 26 and Australia's Hunter class programmes. The River-class destroyers will enhance Canada's naval capabilities, supporting various operations including counter-terrorism and humanitarian efforts. This collaboration reflects a strong commitment to bolstering maritime defense and showcases the importance of international partnerships in modern naval warfare.

## **Sikorsky Launches Advanced S-92 Phase IV Gearbox for Safety and Reliability**



19-Mar-25

Sikorsky has unveiled the S-92 Phase IV main gearbox, marking a significant advancement in the commercial helicopter sector with enhanced reliability and safety features. This gearbox includes an auxiliary lubrication system that promotes safe landing during oil pressure loss, validated through extensive testing. With over \$100 million invested, Sikorsky aims to align the S-92 platform with evolving offshore energy demands, potentially increasing operational uptime significantly. The innovation not only reinforces Sikorsky's commitment to quality but also positions the S-92 as a leading choice for critical missions, thus strengthening its competitive edge within the defense and aerospace industries.

## **Philippines to Boost Defense with More Indian Missile Systems**



19-Mar-25

The Philippines is set to enhance its defense capabilities by procuring more missile systems and military platforms from India, as stated by General Romeo Saturnino Brawner Jr. This move follows the successful acquisition of BrahMos missile systems, which are praised for their deterrent effect in the South China Sea. The Philippines aims to deepen its defense partnership with India amid rising tensions in the Indo-Pacific region, while also exploring collaborations with Ukraine for drone capabilities. This reflects a strategic pivot towards strengthening defense ties with India, underscoring the geopolitical significance of their relationship.

## **Macron Boosts Rafale Orders Amid Rising Russia-Ukraine Tensions**



19-Mar-25

French President Macron announced plans to order additional Rafale warplanes to enhance military capabilities amid escalating tensions due to the Russia-Ukraine conflict. He emphasized the need for increased military readiness and announced a significant investment in upgrading the Luxeuil airbase, crucial for France's nuclear strategy by 2035. This procurement is part of a broader trend of European nations, including Germany, boosting defense budgets, reflecting a shift towards greater autonomy in defense capabilities. Macron's goal to raise defense spending to 3-3.5% of GDP underscores a commitment to strengthening national and continental security amidst evolving global dynamics.

## **India to Assemble 21 MQ-9B Predator Drones, Boosting Defense Capabilities**



19-Mar-25

India is set to assemble 21 MQ-9B Predator drones, marking a significant advancement in its defense modernization efforts and strengthening ties with the US amid regional security challenges from China and Pakistan. This agreement includes establishing a local assembly facility, enhancing India's intelligence, surveillance, and reconnaissance (ISR) capabilities while promoting domestic defense manufacturing through technology transfer. The Indian Navy will acquire 15 Sea Guardian variants, while the Army and Air Force will each receive eight Sky Guardian drones, expected to be operational within two to three years. This initiative aligns with India's vision for self-

sufficiency in defense manufacturing and job creation within the sector.

## India's Archer-NG UAV Set for Multi-Role Combat Upgrade with Astra BVRAAM and AESA Radar



19-Mar-25

India's Defence Research and Development Organisation (DRDO) is evolving the Archer-NG unmanned aerial vehicle (UAV) into a multi-role combat platform by integrating Astra Mk1 Beyond Visual Range Air-to-Air Missiles (BVRAAMs) and an Active Electronically Scanned Array (AESA) radar. This upgrade will enhance its capabilities for air-to-air combat and precision strikes against ground targets. The Archer-NG's design aims to bridge surveillance and combat roles, significantly bolstering the Indian armed forces' operational versatility. Trials for the weaponized version are expected to commence within three years, while the immediate focus remains on certifying the non-weaponized variant, reflecting a strategic commitment to advancing indigenous defense technology.

## China's J-36 6th-Gen Fighter Prototype Completes Key Test Flight



19-Mar-25

China's Chengdu Aircraft Corporation announced the successful second test flight of its J-36 sixth-generation fighter jet prototype, featuring an unconventional tailless, delta-wing design and three engines aimed at enhancing stealth and power. This rapid advancement highlights China's ambition to compete in global military aviation, particularly against the U.S. and European nations developing similar capabilities. The J-36's design is expected to improve radar evasion and operational range, which could provide a strategic advantage in the Asia-Pacific region amid ongoing geopolitical tensions. As it continues to develop, the J-36's integration with advanced technologies may reshape the dynamics of air superiority and military strategy in the region.

## DRDO Jodhpur Lab Pioneers Advanced Coating System for Aircraft



19-Mar-25

The Defence Laboratory, Jodhpur (DLJ) under DRDO is leading the development of a Special Coating System (SCS) for airborne surfaces, enhancing India's aerospace capabilities. This innovative multi-layer paint system aims to improve durability and performance under extreme conditions faced by fighter jets and

UAVs. By inviting bids from specialized firms, DLJ seeks to ensure the SCS meets stringent parameters for adhesion and environmental resistance while minimizing maintenance costs for the Indian Air Force. This project reflects India's commitment to self-reliance in defense technology, promoting indigenous solutions and reducing dependency on foreign coatings.

## DG Propulsion Calls for Stronger Turbojet Supply Chain in India



19-Mar-25

Prateek Dhawan of DG Propulsion has urged the Ministry of Defence to develop a robust supply chain for turbojet engine manufacturing in India to enhance the indigenous aerospace sector. He highlighted that current gaps force companies to rely on costly foreign imports, hindering speed and innovation. The establishment of dedicated industrial clusters, incentives for raw materials, and support for startups could foster a competitive environment, ultimately leading to self-reliance in defense manufacturing. By cultivating local suppliers, India can significantly reduce costs and vulnerabilities associated with foreign dependencies, aligning with the government's Make in India and Atmanirbhar Bharat initiatives.

## T-72 MBT Upgrades Enhance Defense Against Drones and Threats



19-Mar-25

The Indian Army's T-72 Main Battle Tank has received significant upgrades, including canopy slat armour, ball-and-chain protection, and enhanced engine block tiles, in response to evolving battlefield threats like drones and anti-tank munitions. These modifications aim to bolster survivability against modern warfare challenges, particularly along the borders with China and Pakistan. While these enhancements improve defensive capabilities, they also increase the tank's weight, potentially affecting mobility and maintenance. Despite these upgrades, the T-72's outdated fire control system and autoloader design remain concerns, highlighting the need for comprehensive modernization amidst budget constraints and competing military priorities.

## HAL Confirms No Engine Change for Tejas Mk1A Amid Supply Delays



19-Mar-25

Hindustan Aeronautics Limited (HAL) has ruled out the possibility of swapping the F404 engine for the Tejas Mk1A despite ongoing supply delays, emphasizing the technical complexities involved in such a switch. HAL and the Indian Air Force (IAF) remain committed to the

F404, with expectations that supply will stabilize by 2026. The challenges of modifying the aircraft's structure and recalibrating systems for a new engine would significantly delay the program further. Both HAL and the IAF are prioritizing the current engine to ensure the timely production of the Tejas Mk1A, viewing the supply chain issues as temporary setbacks rather than long-term obstacles, thus reinforcing their commitment to India's indigenous defense capabilities.

## DRDO's GTRE Seeks \$4.5B for Advanced AMCA Engine Development SHARE

19-Mar-25

The DRDO's Gas Turbine Research Establishment (GTRE) aims to secure USD 4.5 billion for developing a high-power engine for India's AMCA (Advanced Medium Combat Aircraft) program. This engine, targeting a thrust of 110-120kN, will incorporate advanced features such as improved fuel efficiency, higher durability, and elements of stealth technology. The funding is crucial for R&D, including design, prototyping, and establishing production capabilities with modern manufacturing techniques. This initiative not only enhances India's indigenous defense capabilities but also signifies a major leap in aerospace technology, positioning India strategically in the global defense landscape.

## MDL Begins Production of Indigenous AIP System for Scorpene Subs SHARE

19-Mar-25

Mazagon Dock Shipbuilders Limited (MDL) has commenced production of the first indigenous Air Independent Propulsion (AIP) system for the Indian Navy's Scorpene-class submarines, marking a significant step towards naval self-reliance. Developed by the Defence Research and Development Organisation (DRDO) in collaboration with Indian industry, this AIP system will enhance the submarines' underwater endurance, crucial for India's maritime strategy amidst regional security challenges posed by China's submarine expansion and Pakistan's AIP-enabled vessels. The integration of this advanced technology into the Scorpene submarines, starting with INS Kalvari in 2025, reflects India's growing defense capabilities and reinforces MDL's position in global submarine construction.

## Rafael and L&T Collaborate to Enhance India's Combat Vehicle Defense SHARE

19-Mar-25

Rafael Advanced Defense Systems and Larsen & Toubro have signed a Memorandum of Understanding

to integrate the TROPHY Active Protection System into India's combat vehicles, enhancing the country's defense capabilities. This collaboration supports India's Make in India initiative and aims to bolster the survivability of key platforms like the Arjun Mk2 tank, K9 Vajra howitzer, and BMP-2 infantry vehicle against modern threats. By adopting the TROPHY system, which has proven its effectiveness in combat, India is not only advancing its military technology but also fostering local production and expertise in defense, thus significantly contributing to self-reliance and security in a rapidly evolving geopolitical landscape.

## DRDO Starts Limited Production of AD-1 Missile for Enhanced Defense SHARE

19-Mar-25

The DRDO has begun limited serial production of the AD-1 missile, a crucial component of India's Phase-II Ballistic Missile Defence (BMD) program, designed to intercept both ballistic missiles and aircraft across a wide altitude range. This advanced long-range interceptor enhances India's strategic defense capabilities against aerial threats from countries like China and Pakistan, demonstrating versatility and precision through its advanced control and navigation systems. By facilitating more complex trials and eventual operational deployment, the AD-1 significantly strengthens India's layered air defense architecture, addressing emerging challenges, including sophisticated missile technologies and diverse aerial threats. This development marks a pivotal step in enhancing national security and operational readiness.

## Geopolitics and Security Alliances

### India and New Zealand Strengthen Defense Ties for Indo-Pacific Security SHARE

19-Mar-25

India and New Zealand are making significant strides in enhancing their defense cooperation, as evidenced by a recent meeting between General Upendra Dwivedi, India's Chief of Army Staff, and Rear Admiral Garin Golding of the Royal New Zealand Navy. Their discussions, held in March 2025, focused on strengthening bilateral ties, particularly in the Indo-Pacific region, through joint training initiatives and operational interactions. The recent signing of a Memorandum of Understanding (MoU) underscores a shared commitment to regional security and stability, reflecting both nations' proactive stance on maritime cooperation. Additionally, Golding's visit includes



interactions with Indian naval commanders and a tour of indigenous vessels, indicating a robust framework for future collaboration in maritime technology and maintenance. Overall, this engagement symbolizes a deepening partnership that aligns with India's strategic objectives in the Indo-Pacific, fostering mutual interests in addressing contemporary security challenges.

## Modi and Trump: A Shared Commitment to Global Peace

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19-Mar-25

At the Raisina Dialogue, U.S. National Intelligence Director Tulsi Gabbard emphasized that Prime Minister Narendra Modi aligns with President Trump's commitment to peace, asserting that "America first" does not equate to "America alone." Gabbard highlighted the enduring strength of the India-U.S. partnership, underscoring its significance in advancing mutual interests. This relationship, bolstered by the personal rapport between Modi and Trump, reflects a strategic alignment that is beneficial for both nations, fostering collaboration in defense and global stability. The emphasis on building strong relationships enhances India's role on the global stage, showcasing its commitment to peace and security alongside its strategic ally, the United States.

## Netherlands Sees India as Key Player for Peace Amid Russian Aggression

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19-Mar-25

India and the Netherlands are strengthening their defense cooperation, as highlighted by recent discussions between Indian Defence Minister Rajnath Singh and his Dutch counterpart Ruben Brekelmans. The Netherlands condemned Russian aggression in Ukraine and suggested that India could play a pivotal role in peace efforts due to its strong ties with both Russia and Europe. Both ministers explored collaboration in shipbuilding, AI, and emerging technologies, recognizing the synergies between their nations' defense industries. They emphasized the strategic importance of cooperating to ensure a free and open Indo-Pacific, particularly in the context of challenges posed by China. This partnership reflects India's growing defense capabilities and its potential role in regional security dynamics while enhancing technological exchanges and production capabilities between the two countries.

## India Emerges as Key Mediator in U.S.-Russia Talks, Says Nikonov

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19-Mar-25

Recent discussions between Russian President Vladimir Putin and U.S. President Donald Trump mark a significant resumption of diplomatic dialogue, with both leaders committing to negotiating a ceasefire in the ongoing Ukraine conflict. Russian lawmaker Vyacheslav Nikonov acknowledged India's growing influence and balanced stance, identifying it as a potential mediator in the U.S.-Russia talks, given its longstanding relationships with both countries. He praised Prime Minister Narendra Modi's diplomatic outreach, noting that India's constructive role is increasingly recognized in international forums. As the U.S. and Russia navigate this complex situation, India's position as an honest broker is likely to enhance its diplomatic stature, potentially contributing to regional and global stability amidst ongoing hostilities.

## Zelenskyy accuses Russia of spurning ceasefire amid ongoing strikes.

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19-Mar-25

In recent developments, Ukraine accused Russia of rejecting a full ceasefire proposal backed by the U.S., following ongoing strikes on civilian infrastructure, despite Russia pausing attacks on energy targets for 30 days. Ukrainian President Zelenskyy criticized Putin's reluctance to engage in a comprehensive truce, highlighting continued assaults on critical infrastructure. Meanwhile, during a call with Donald Trump, Putin offered only limited concessions, such as discussions on navigation in the Black Sea. Trump aims to shift U.S. policy towards a resolution of the conflict, prompting skepticism among Western allies about Russia's commitment to peace. The situation underscores the complex geopolitical dynamics, with Ukraine's resolve to continue fighting amidst doubts over any meaningful negotiations with Moscow. This reflects the persistent challenges in achieving lasting peace in the region, as both sides remain at odds over military support and territorial integrity.

## India and Mauritius Forge Strategic Alliance for Maritime Security

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19-Mar-25

India's strategic posture in the Indian Ocean Region (IOR) is underscored by Prime Minister Modi's visit to Mauritius, where the Enhanced Strategic Partnership was announced, reflecting a commitment to maritime security and cooperation. The MAHASAGAR doctrine, building on the SAGAR initiative, expands India's

maritime engagement to include broader Indo-Pacific ties, especially in countering China's influence via its Belt and Road Initiative. The partnership provides India with a significant foothold in the IOR, enhancing trade, defense cooperation, and regional stability while fostering economic ties, as seen in the increase of bilateral trade and investment. This relationship underlines India's role as a stabilizing maritime power in an evolving geopolitical landscape.

## Oracle's TikTok Deal: Strategic Win or Geopolitical Risk?

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19-Mar-25

Oracle is negotiating to oversee TikTok's U.S. operations, aiming to secure American user data while allowing ByteDance, its Chinese parent, to retain control of the algorithm. This raises concerns among U.S. lawmakers about potential national security risks, as Beijing's influence remains. Dubbed "Project Texas 2.0," the plan might enhance Oracle's cloud services, but a failure in negotiations could lead to TikTok's ban, exacerbating U.S.-China tensions. With a deadline approaching, the outcome will significantly impact tech relations and set a precedent for how global platforms address security and sovereignty issues.

## Rajnath: India Balancing Hard and Soft Power in a Multipolar World

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19-Mar-25

Defence Minister Rajnath Singh emphasized India's balanced approach between hard and soft power in a multipolar world during the Major Bob Khathing Memorial Event. He praised the significant contributions of Major Khathing to the North-East region and national unity, comparing his integration efforts in Tawang to Sardar Vallabhbhai Patel's national initiatives. Singh highlighted India's evolving global stature, where it is now respected on international platforms, and reaffirmed the government's commitment to regional development and unity as it aims for a developed Bharat by 2047. He articulated the need for citizens to embody the ideals of historical figures like Khathing, underscoring the importance of national integrity and sovereignty.

## Khanjar-XII: Strengthening India-Kyrgyzstan Ties Through Training

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19-Mar-25

Exercise KHANJAR-XII, currently underway in Tokmok, Kyrgyzstan, showcases the robust camaraderie between India and Kyrgyzstan as elite forces from both

nations engage in advanced counter-terrorism training. Focus areas include high-altitude combat and urban warfare tactics, enhancing interoperability under a UN mandate. The exercise, which has evolved into an annual event since 2011, also emphasizes cultural exchanges, further solidifying bilateral ties. This collaboration highlights both countries' commitment to addressing global security challenges, particularly international terrorism, while fostering regional peace and stability. The alternating venues and shared training reflect the deepening strategic relationship between India and Kyrgyzstan.

## India Voices Concern Over Gaza Strikes and Calls for Humanitarian Aid

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19-Mar-25

The Indian Ministry of External Affairs expressed concern over the escalating situation in Gaza following extensive Israeli strikes targeting Hamas. The MEA emphasized the importance of hostage release and the continuation of humanitarian assistance for the people of Gaza. The Israeli Defence Forces (IDF) reported conducting strikes on military sites used by Hamas, claiming a need for increased military action due to the group's refusal to cooperate with negotiations. This situation underscores the complexities of regional security dynamics, highlighting India's call for humanitarian support while acknowledging the necessity of counter-terrorism measures to ensure stability and peace in the area.

## Israeli Airstrikes Continue, Casualties in Gaza Rise Amid Conflict

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19-Mar-25

Israeli airstrikes in Gaza have resulted in significant casualties, with reports indicating over 49,000 Palestinians killed since the conflict escalated following Hamas's October 7 attacks that killed around 1,200 Israelis. The Israeli military resumed bombardments, claiming to target Hamas sites and issuing evacuation orders for residents in combat zones. The humanitarian situation in Gaza has deteriorated further, prompting international calls for restraint and a ceasefire. While Hamas seeks to negotiate a ceasefire deal, Israel remains focused on dismantling the group, complicating efforts for regional peace and reconstruction in the war-torn enclave. The ongoing violence continues to raise alarms over the devastating impact on civilians.

## China's Satellites Engage in 'Dogfights', U.S. General Warns



19-Mar-25

China is reportedly advancing its space defense capabilities by practicing "dogfights" among its satellites in low Earth orbit, according to U.S. General Michael Guetlein. This maneuvering involves multiple Chinese satellites, including the Shiyang-24C and Shijian-605 series, highlighting a significant leap in tactical operations that could challenge U.S. space supremacy. The U.S. military expresses concerns over this development, indicating that both China and Russia are emerging as near-peer adversaries in space, which could reverse the existing capability gap. This scenario underscores the necessity for India to enhance its own space defense strategies to maintain regional security and counterbalance potential threats.

## Europe and Canada seek alternatives to U.S. fighter jets amid shifts.



19-Mar-25

As European and Canadian nations reassess their reliance on American-made fighter jets like the F-35 amid shifting U.S. foreign policy, alternative options such as the Saab Gripen, Eurofighter Typhoon, and Dassault Rafale are gaining traction. Concerns over the unpredictability of U.S. support and potential "kill switch" technology in the F-35 have prompted these nations to explore other defense partnerships. French President Macron advocates for European defense independence, suggesting an increase in domestic production could challenge U.S. defense firms. This scenario underscores the necessity for India to enhance its indigenous defense capabilities and partnerships, particularly with proven platforms like the Rafale, to secure its strategic interests.

## US Envoy Announces Upcoming Ukraine-Russia Ceasefire Talks in Jeddah



19-Mar-25

Ceasefire talks between Russia and Ukraine are set to commence on Sunday in Jeddah, as announced by US special envoy Steve Witkoff. Following a conversation between US President Trump and Russian President Putin, Witkoff expressed optimism that agreements on a ceasefire regarding energy infrastructure and Black Sea targets have been reached by Russia, and he hopes Ukraine will concur as well. This development indicates a potential diplomatic breakthrough in the ongoing conflict, reflecting the increasing international efforts to stabilize the situation in Ukraine and mitigate the

humanitarian crisis, which could have broader implications for global security and regional alliances.

## Erdogan Criticizes U.S. F-35 Exclusion Amid India's Access Offer



19-Mar-25

Turkish President Erdogan expressed frustration over Turkey's exclusion from the U.S. F-35 program while India is considered for access, highlighting perceived U.S. double standards in defense policy. Despite Turkey's NATO status, its S-400 acquisition from Russia led to sanctions and exclusion, whereas India, which also purchased the S-400, faces no similar penalties due to its strategic importance in countering China. India's potential F-35 acquisition could enhance its air capabilities and influence in South Asia, complicating Turkey's strategic calculations as it confronts operational challenges with its aging aircraft fleet. This situation underscores the evolving dynamics of international defense relations and the shifting balance of power in the Indo-Pacific region.

### Military Operations

## Varuna 2025: India and France Enhance Naval Cooperation March 19-22



19-Mar-25

The upcoming bilateral naval exercise Varuna 2025, scheduled from March 19-22, showcases the strengthening maritime partnership between India and France. This year's exercises will feature significant naval assets, including India's INS Vikrant and France's Charles de Gaulle, along with complex operations across sub-surface, surface, and air domains. Notably, air defence drills and mock combat between French Rafale-M fighters and Indian MiG-29K jets will enhance tactical capabilities. The exercise coincides with India's plans to finalize major defense agreements with France, including the acquisition of 26 Rafale-M aircraft and the construction of three additional Scorpene submarines. This collaboration reflects both nations' commitment to ensuring a secure maritime environment and their ability to operate effectively in challenging scenarios, reinforcing strategic ties in an increasingly complex geopolitical landscape.

## Indian Navy Chief: Ready to Tackle All Future Challenges

🔒 SHARE

19-Mar-25

Indian Navy Chief Admiral Dinesh K Tripathi emphasized the need for the Navy to be future-ready and adept at addressing both known and unforeseen challenges. He highlighted the importance of self-reliance in defense technology, fostering collaboration with startups and entrepreneurs, and streamlining processes for faster platform construction. Admiral Tripathi acknowledged the role of evolving geopolitics, technology, and tactics in shaping security strategies, asserting that the government's push for self-reliance has instilled confidence in the youth to innovate within the defense sector. He noted the Navy's commitment to learning from global partners while maintaining a proactive stance in maritime deployments for effective deterrence.

## IAF airlifts 576 passengers in challenging weather between J&K and Ladakh.

🔒 SHARE

19-Mar-25

The Indian Air Force successfully airlifted 576 passengers between Jammu & Kashmir and Ladakh, utilizing IL-76 and AN-32 aircraft for efficient transportation amid challenging weather conditions. Additionally, the Border Roads Organisation is actively working on snow clearance along the Zojila Axis to ensure timely opening of the National Highway, with calls for increased machinery support. In a separate security operation, forces detected and defused an IED in Shopian, highlighting ongoing vigilance against threats in the region, while an old grenade was recovered in Rajouri, preventing potential harm. These efforts demonstrate the Indian defense forces' commitment to maintaining safety and accessibility in strategically vital areas.

## Kremlin Halts Drone Strikes on Ukraine Amid Ongoing Tensions

🔒 SHARE

19-Mar-25

The Kremlin announced a temporary suspension of drone attacks on Ukrainian energy infrastructure following discussions between Presidents Putin and Trump, although Ukraine accused Russia of continued strikes. Spokesman Dmitry Peskov stated that Russia shot down its own drones during this period and accused Ukraine of attempting to sabotage the ceasefire by targeting Russian energy facilities. Peskov emphasized a lack of reciprocity from Kyiv regarding the moratorium on attacks. This situation reflects the ongoing complexities of the conflict, highlighting the

fragile nature of ceasefire agreements and the challenges in achieving a lasting peaceful resolution amidst mutual accusations.

## Russia Claims Destruction of 57 Ukrainian Drones in One Night

🔒 SHARE

19-Mar-25

Russia's defense ministry reported that its air defense units successfully intercepted and destroyed 57 Ukrainian drones overnight, with the majority neutralized over the Kursk region and others across Oryol, Tula, Bryansk, and the Sea of Azov. This incident underscores ongoing tensions between Russia and Ukraine, highlighting the significant advancements in drone warfare capabilities on both sides. As the conflict evolves, the ability to intercept UAVs becomes crucial for national security. The effectiveness of Russia's defense systems may bolster its strategic position, while India continues to closely monitor such developments to assess implications for regional security dynamics and its own defense strategies.

## Terrorism and Counterterrorism

### Defence Secretary underscores need for united counter-terrorism efforts

🔒 SHARE

19-Mar-25

India's Defence Secretary, Shri Rajesh Kumar Singh, emphasized the country's steadfast zero-tolerance policy towards terrorism during the 14th ADMM-Plus EWG on Counter-Terrorism, highlighting the need for robust domestic mechanisms, intelligence-sharing, and regional cooperation. He noted the evolving nature of terrorism and the necessity of collaborative and action-oriented strategies to counter advanced technologies utilized by terrorist groups, particularly in the Indo-Pacific. India, co-chairing the EWG alongside Malaysia, aims to enhance regional security through structured joint initiatives, capacity-building exercises, and a whole-of-society approach to tackle radicalization and terror financing. This commitment underscores India's pivotal role in fostering stability and cooperation in the region.

### MEA: Pakistan's Terrorism Hinders Regional Peace and Security

🔒 SHARE

19-Mar-25

India's Ministry of External Affairs (MEA) emphasized that Pakistan's promotion of cross-border terrorism remains the primary barrier to regional peace and



security. Spokesperson Randhir Jaiswal rejected Pakistan's allegations regarding Jammu and Kashmir, urging Islamabad to relinquish its illegal occupation of Indian territory. Prime Minister Narendra Modi, reflecting on past attempts to foster peace with Pakistan, highlighted the consistent hostility faced despite diplomatic overtures. The MEA's firm stance underscores India's commitment to addressing terrorism, while Pakistan is encouraged to confront its internal issues rather than deflect blame. Overall, the discourse reiterates India's resolve in countering terrorism as a prerequisite for lasting peace in the region.

## Jammu and Kashmir on alert after Pakistan terror attacks

SHARE

19-Mar-25

A high-security alert has been declared across Jammu and Kashmir following recent terror attacks in Pakistan, particularly the killing of Lashkar-e-Taiba commander Zia-ur-Rehman. Officials have instructed all protected individuals, including politicians, to adhere to strict security protocols, submit travel plans in advance, and avoid areas prone to terrorism unless accompanied by security personnel. The potential for 'lone wolf' attacks is heightened due to the commander's death and the upcoming anniversary of the Jang-e-Badr. In light of recent incidents in Balochistan, including a train hijacking, security measures around vital institutions have been intensified to prevent any retaliatory actions from anti-national elements. This proactive approach by Indian security forces underscores their commitment to safeguard citizens and protect against external threats.

## Israel's Ambassador: India and Israel Stand United Against Terrorism

SHARE

19-Mar-25

Israeli Ambassador to India, Reuven Azar, affirmed India's significant role in West Asia, emphasizing that both countries share a commitment to combatting terrorism. He praised India's support for Israel's right to self-defense amid the ongoing conflict with Hamas, which has prompted extensive military actions from the Israel Defense Forces. Azar highlighted the partnership between India, Israel, and the U.S., particularly through the India-Middle East Economic Corridor (IMEC), aimed at enhancing economic cooperation and regional integration. This collaboration is expected to bolster trade efficiency and foster security alliances, illustrating the strengthening ties among these nations in response to shared challenges.

## Tulsi Gabbard Raises Concerns on Bangladesh Minorities and Terrorism

SHARE

19-Mar-25

In a recent statement, U.S. politician Tulsi Gabbard expressed concerns about minority rights in Bangladesh and emphasized the need to combat "Islamist terrorism" globally, indicating ongoing discussions between the U.S. and Bangladesh's interim government. The Bangladeshi government, led by Muhammad Yunus, rejected Gabbard's claims as misleading, highlighting its commitment to reforms and international cooperation in addressing extremism. This exchange underscores the tension between international scrutiny and national sovereignty regarding human rights and security issues, reflecting Bangladesh's ongoing struggle with extremism while maintaining its reputation as a moderate Islamic nation.

## BLA Claims Victory Over Pak Army, Accuses Them of Deception

SHARE

19-Mar-25

The Baloch Liberation Army (BLA) has claimed significant victories against the Pakistani military, alleging heavy casualties among security forces during its recent operations, including a deadly attack on a convoy and the hijacking of the Jalar Express train. The BLA asserts that its coordinated assaults reflect an evolving insurgency capable of disrupting Pakistan's control in Balochistan, while Islamabad has downplayed these claims, reporting far lower casualty figures. This ongoing conflict highlights the BLA's strategy of demonstrating military prowess and seeking autonomy for Balochistan, amid a backdrop of escalating tensions and conflicting narratives between the insurgents and the state.

## IED Discovered and Safely Neutralized in Bandipora, J&K

SHARE

19-Mar-25

In Jammu and Kashmir's Bandipora district, security forces safely defused an improvised explosive device (IED) found inside a pressure cooker on the Srinagar-Bandipora road. This incident follows a series of IED discoveries in the region, including in Shopian and Kulgam, where similar devices were neutralized. These explosives, often targeting Army convoys and VIP movements, underscore the ongoing threat posed by terrorism in the area. The proactive measures of security forces, including the deployment of road opening parties equipped with advanced detection tools, highlight India's commitment to maintaining

safety and security in Jammu and Kashmir amidst persistent challenges.

## Cybersecurity and Information Warfare

### CDS Gen Chauhan: Disinformation Threatens Modern Warfare



19-Mar-25

Chief of Defence Staff Gen Anil Chauhan highlighted the significant challenges posed by hybrid warfare and disinformation at the Raisina Dialogue, emphasizing the need for military personnel to be trained in both conventional and new-age conflicts. He noted that modern warfare has shifted from physical to cognitive domains, where altering public opinion can influence government decisions without direct conflict. Chauhan stressed the importance of understanding societal information sources and the impact of technology on warfare. He underscored that while technology is crucial, there is no substitute for human presence on the ground, particularly in asymmetric conflicts, which he referenced in the context of India's ongoing challenges with adversaries like Pakistan. This multifaceted approach to warfare necessitates a strategic focus on training and resource allocation to address evolving threats effectively.

### Google Acquires Israeli Cybersecurity Firm Wiz for \$32 Billion



19-Mar-25

Google has announced its largest-ever acquisition, agreeing to purchase Israeli cybersecurity firm Wiz for \$32 billion, a strategic move aimed at bolstering its cloud computing division amidst a booming AI landscape. Wiz, co-founded by veterans of the elite Israel Defense Forces' Unit 8200, specializes in advanced cloud security tools and is projected to generate \$1 billion in revenue this year. The acquisition follows a prior failed bid of \$23 billion, and the recent negotiations accelerated significantly after the Trump administration's appointment of more business-friendly antitrust officials, which reportedly alleviated regulatory concerns. Investors in Wiz, including prominent venture capital firms like Sequoia Capital and Cyberstarts, stand to gain massive returns from this deal, with some anticipated to reap as much as 200 times their initial investments. The deal, if approved, could reshape the competitive landscape in cloud security, positioning Google Cloud as a formidable player against rivals like Microsoft and Amazon, and is seen as a reflection of the industry's readiness for consolidation in light of the

current AI revolution. Overall, this acquisition not only signifies Google's intent to enhance its cybersecurity capabilities but also represents a significant milestone for Wiz, highlighting the potential for Israeli tech firms to achieve substantial success on a global scale.

## Mil Personnel & Veterans

### Unity and Duty: Rajnath Singh's Inspiring Message at Khathing Memorial



19-Mar-25

Defence Minister Rajnath Singh recently addressed the fifth edition of the Major Bob Khathing Memorial Event in Delhi, where he extolled the virtues of Major Khathing, a pivotal figure in integrating Tawang with India and a significant contributor to North-East national security. He drew a parallel between Khathing's peaceful integration efforts and the government's successful abrogation of Article 370, which he claimed was executed without violence, ensuring the complete integration of Jammu and Kashmir. Singh emphasized the government's commitment to administrative reforms through principles like minimum government and maximum governance, which have effectively bridged the gap between the state and its citizens. He highlighted the strategic importance of infrastructure projects in the North-East—such as the Sela Tunnel and the Arunachal Frontier Highway—as key to regional connectivity and economic growth, crediting these initiatives with contributing to a substantial reduction in violence in the area. Furthermore, Singh reflected on how India's foreign policy now balances hard and soft power, affirming that the nation has gained respect on international platforms. The event, attended by notable dignitaries, underscored the vital role of the North-East in India's development and future aspirations, with a vision set for becoming a developed nation by 2047, echoing the ideals of great personalities like Major Khathing whose legacy serves as an inspiration for national unity and progress.

### CDS Anil Chauhan: Technology Enhances, But Humans Lead Warfare



19-Mar-25

Chief of Defence Staff General Anil Chauhan emphasized that while technology is crucial for modern warfare, it cannot replace the human element, particularly in India's ongoing battle against asymmetric threats and hybrid warfare. He highlighted the importance of intelligence, shaping the combat zone, and a collaborative approach involving all levels of

government. The evolving global security landscape, marked by uncertainty and rapid change, poses significant challenges, including disinformation and the need for effective training in both conventional and hybrid conflicts. Furthermore, Vivek Lall from General Atomics stressed the importance of persistent surveillance and robust data sharing between allies, underscoring the strength of the India-US defense relationship.

## Empowered Women Officers in Defense: 'She Stands Tall'

SHARE

19-Mar-25

At the India TV 'She' Conclave, women officers from the Army, Navy, and Air Force shared their inspiring journeys, emphasizing the importance of resilience and self-belief. Lt Col Nivedita Nandal, Lt Cdr Srishti Jakhar, and Squadron Leader Nikita Malhotra highlighted the rigorous challenges faced during their training, from harsh physical demands to significant lifestyle changes. They collectively expressed that they never felt the need to compete with their male counterparts, instead focusing on overcoming daily challenges. Their messages to youth—"She stands tall," "Keep dreaming," and "Believe in yourself"—reflect a strong commitment to empowerment, showcasing the growing role of women in India's defense forces.

## Miscellaneous

## Colonel Assaulted in Patiala: Echoes of 1992 Police Attack

SHARE

19-Mar-25

The assault on Indian Army Colonel Pushpinder Singh Batth and his son by Punjab Police personnel in Patiala has sparked widespread outrage and drawn parallels to a similar incident in 1992. On March 13, the Colonel and his son were allegedly attacked over a parking dispute, resulting in serious injuries, as captured in CCTV footage. Twelve police personnel were suspended, but initial investigations faced delays, raising concerns about accountability. Prominent figures, including former military leaders and politicians, have condemned the incident, calling for swift justice and action against the police. This situation not only highlights the ongoing tensions between military and police forces in Punjab but also underscores the need for greater respect and accountability for armed forces personnel, especially in sensitive border regions.

## India's Nuclear Sector Recognized as Global Leader by IAEA Chief

SHARE

19-Mar-25

The Director General of the International Atomic Energy Agency (IAEA), Rafael Mariano Grossi, praised India's expanding nuclear sector as one of the most dynamic globally, highlighting the collaborative efforts between India and the IAEA on regulations, technology, safety, and security. During the Raisina Dialogue 2025, External Affairs Minister S. Jaishankar discussed nuclear safety and non-proliferation with Grossi, emphasizing India's pivotal role in international affairs. Grossi acknowledged India's commitment to developing a skilled workforce for the nuclear industry and the importance of training programs in sustaining nuclear energy growth in Asia, thereby reinforcing India's stature as a key player in nuclear science and technology for peace and development.

## EAM Jaishankar: Tariffs and Sanctions Are Today's Reality

SHARE

19-Mar-25

External Affairs Minister S. Jaishankar acknowledged the increasing use of tariffs and sanctions by nations to protect their economic interests, emphasizing that this trend has blurred the lines between various domains in international relations. During a discussion at the Raisina Dialogue, he remarked that countries are competing fiercely for business and employment, which are crucial for national power. Jaishankar's comments come in light of recent U.S. tariffs impacting imports from India. He highlighted that international relations are becoming less restrained compared to the past decade, indicating a shift in global economic dynamics that India must navigate strategically.

## Indian Navy Tackles Major Factory Fire in Uran, Mumbai

SHARE

19-Mar-25

A major fire broke out at a factory in Uran, Mumbai, and the Indian Navy played a crucial role in extinguishing the flames, showcasing their commitment to public service. Responding promptly to a distress call from local authorities, Naval Station Karanja dispatched fire tenders and specialized teams to control the situation, working alongside civilian agencies. Additionally, they deployed an ambulance and medical team to assist the injured, highlighting the Navy's expertise in crisis management and dedication to safeguarding human life. This event underscores the Indian Navy's readiness to engage in humanitarian efforts beyond their traditional maritime responsibilities, reinforcing their

role as a vital asset to national safety and emergency response.

## NASA Astronauts Sunita Williams and Butch Wilmore Return After 9-Month ISS Mission



19-Mar-25

NASA astronauts Sunita Williams and Butch Wilmore returned to Earth on March 18, 2025, after a nine-month mission aboard the ISS, facilitated by a SpaceX Dragon capsule. Their extended stay was prompted by complications with Boeing's Starliner, which was returned to Earth uncrewed due to safety concerns. This incident underscores NASA's commitment to rigorous safety standards in human spaceflight while maintaining a competitive landscape in space transportation. The mission provided critical data for future long-term space missions and demonstrated the resilience of the astronauts, who faced physical challenges such as muscle loss during their time in space.

## IAEA Chief Lauds India's Dynamic Nuclear Sector and Ambitions



19-Mar-25

IAEA Director General Rafael Grossi highlighted India's dynamic nuclear sector, noting its ambitious plans to expand nuclear power as part of its commitment to achieving net-zero emissions by 2070. He praised India's advanced reactor technology, emphasizing the long operational lifespan of current reactors and the potential of its thorium resources, despite uranium's central role in the current energy cycle. Grossi acknowledged India's diverse and robust civil nuclear program, which positions the country favorably for international cooperation in nuclear energy, while ensuring compliance with the highest safety standards. His remarks underscore India's significance in the global nuclear landscape and its commitment to sustainable energy development.

## PM Modi's Global Diplomatic Triumphs Boost India's Influence



19-Mar-25

PM Modi's diplomatic successes have significantly enhanced India's global standing, as highlighted by President Putin's gratitude for India's neutral stance in the Ukraine conflict and support for peace initiatives. India's counter-terrorism efforts, including the extradition of terror suspect Tahawwur Rana, received backing from multiple nations, while the G20 presidency showcased India's leadership in navigating

complex geopolitical issues. Humanitarian missions like the evacuation from Afghanistan and Sudan demonstrate India's commitment to its citizens abroad, further solidifying its position as a key player in global health diplomacy through initiatives like Vaccine Maitri. Under Modi's leadership, India has emerged as a formidable diplomatic force, fostering international alliances and enhancing its clout on the world stage.

## India's Digital Boom Faces Rising Scams Amid Security Gaps



19-Mar-25

India leads the world in digital transactions, boosting its economy, but faces a surge in digital scams due to inadequate security and regulatory measures. Reports indicate a fourfold increase in high-value cyber fraud, with total digital payment fraud reaching \$175 million. Analysts attribute this rise to poor cyber literacy and sophisticated AI-driven scams. To combat these challenges, regulatory bodies are implementing awareness campaigns and technological safeguards, emphasizing the need for enhanced cybersecurity investments. The financial sector's recovery is also threatened by a prolonged slump in the stock market, impacting consumer spending and overall economic growth.

## Sitharaman Reaffirms Commitment to Restore Peace in Manipur



19-Mar-25

Finance Minister Nirmala Sitharaman reaffirmed the Indian government's commitment to restoring normalcy in Manipur during discussions in the Rajya Sabha, emphasizing support for the state's economic recovery amid unrest. She highlighted the proactive measures taken, including the deployment of 286 CAPF companies and 137 Army units, and criticized the opposition's past handling of similar crises. The budget for Manipur reflects a focus on social welfare and infrastructure, allocating significant funds for relief and rehabilitation. Sitharaman urged collaboration for peace and criticized historical inaction from previous administrations, affirming the current government's sensitivity and dedication to the state's growth and stability.

## Kolkata Police Issue Lookout for 69 Bangladeshi Passport Fraudsters



19-Mar-25

The Kolkata Police have issued lookout notices for 69 Bangladeshi infiltrators who illegally obtained Indian passports using forged documents. These individuals



are believed to be hiding in West Bengal, with concerns that some may have ties to terrorist groups aiming to establish sleeper cells. The crackdown follows investigations into a fake passport racket that involved 130 individuals, primarily Bangladeshi nationals. A retired Kolkata Police officer has been implicated for facilitating the issuance of these fraudulent passports. This situation highlights the ongoing challenges India faces with border security and the need for enhanced vigilance against illegal immigration and potential terrorist infiltration.

## Transfer of Amritpal Singh's aides to Punjab nearing completion SHARE

19-Mar-25

The process of transferring seven aides of radical Sikh preacher Amritpal Singh from Dibrugarh Central Jail to Punjab is nearing completion, with several individuals having already been re-arrested by Punjab Police for involvement in activities that threaten public order and national security. Following their release, the authorities plan to seek transit remand for further legal actions related to an incident at the Ajnala police station. This situation highlights ongoing tensions regarding

separatist activities in Punjab, emphasizing the government's commitment to maintaining public order and security through the enforcement of the National Security Act against those who pose a threat to the state.

## President Murmu Celebrates Sunita Williams' Inspiring Return SHARE

19-Mar-25

President Droupadi Murmu praised NASA astronaut Sunita Williams and her crew for their safe return after an extended 286-day mission in space, exceeding initial expectations by 278 days. Celebrating their courage and perseverance, President Murmu highlighted the inspirational qualities of Williams, who has strong ties to India and was awarded the Padma Bhushan in 2008. This return marks a significant achievement for both Williams and the Indian diaspora, showcasing India's growing influence in global space exploration. Williams' journey reinforces the spirit of determination and teamwork, resonating deeply with aspirations for advancing India's own space ambitions and defense capabilities.

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# Defence Sector Stocks

Stock	Open	High	Low	Close	Volume	Change	RSI14	SMA20	SMA200
GRSE	1372.0	1641.35	1372.0	1641.35	7963944	20.0	69.49	1327.66	1718.83
HBLPOWER	421.0	496.15	421.0	482.4	18455819	15.2	53.7	449.24	570.61
IDEAFORGE	342.0	396.0	341.4	383.9	2128458	14.14	50.16	362.77	624.42
PREMEXPLN	338.0	386.0	335.1	371.45	1028766	13.42	52.79	345.64	526.27
MAZDOCK	2385.0	2648.0	2375.0	2625.25	12696711	10.47	73.15	2226.01	2227.06
KRISHNADEF	556.0	601.25	550.0	601.25	53250	10.0	51.56	571.87	714.54
COCHINSHIP	1350.0	1474.95	1342.35	1456.7	4134078	8.64	65.27	1296.97	1759.5
MIDHANI	267.99	285.99	267.99	284.44	2097525	8.37	55.26	260.89	373.32
AZAD	1307.0	1397.0	1305.7	1389.6	430412	6.95	53.98	1299.33	1586.99
BEML	2573.25	2762.0	2570.0	2742.3	857319	6.69	49.98	2567.88	3864.81
BDL	1128.0	1223.05	1128.0	1198.0	3299343	6.32	62.2	1065.82	1248.75
PARAS	915.0	963.3	910.15	953.85	428589	5.47	54.39	896.39	1106.04
DCXINDIA	228.01	241.7	228.01	239.27	959070	5.12	42.15	241.61	331.89
TANEJAERO	295.95	302.4	292.0	302.4	18278	5.0	47.69	292.54	468.48
LOKESHMACH	131.98	137.13	131.0	137.13	40062	5.0	23.86	158.57	345.47
MARINE	166.0	174.35	164.36	174.35	179428	5.0	51.18	161.27	222.65
NIBE	753.05	806.25	753.05	806.25	7225	4.99	28.2	953.64	1687.18
ROSSELLIND	55.99	58.13	55.25	58.13	32782	4.98	42.76	59.01	262.59
ASTRAMICRO	635.0	666.9	634.05	660.75	407129	4.57	55.15	621.22	806.52
HAL	3600.0	3772.4	3577.55	3740.65	2913829	4.49	61.62	3384.82	4395.25
DATAPAT'TNS	1669.55	1785.95	1653.6	1714.05	5348683	3.86	53.32	1553.99	2482.09
MTARTECH	1260.0	1316.9	1260.0	1295.3	217482	3.73	43.84	1316.08	1689.42
LMW	15165.0	15994.0	15165.0	15804.6	2958	3.62	59.6	14856.84	15995.92
BHARATFORG	1102.5	1144.4	1098.4	1136.0	1209976	3.28	58.03	1064.72	1415.96
AVANTEL	113.99	117.0	113.5	116.05	868887	2.57	48.25	113.93	-
SOLARINDS	10100.0	10330.0	10033.75	10310.8	144527	2.23	71.74	9322.14	10270.29
CFF	415.05	425.3	415.05	425.3	29200	1.99	39.35	433.43	651.53
HIGHENE	473.65	473.65	464.5	471.15	33117	1.78	47.02	468.03	656.37
BEL	286.0	292.99	284.76	290.0	21098065	1.64	64.44	266.73	290.35
LT	3275.0	3326.6	3268.5	3319.55	1616312	1.49	55.42	3230.81	3559.53
ZENTEC	1264.85	1309.0	1262.0	1268.25	875845	1.28	47.32	1142.06	1673.9
APOLLO	118.4	121.59	118.0	118.49	7137879	0.53	51.99	114.83	109.43
SIKA	517.9	525.0	502.25	522.0	25644	0.48	58.55	493.11	528.57
ADANIENT	2319.95	2342.0	2311.05	2318.65	1030345	0.44	59.42	2199.74	2765.08
PTC	160.1	162.39	157.0	157.66	2057099	-0.53	64.52	150.05	182.44