

Beyond Borders

Securing the World



Beyond Borders

Securing the World

Concept Note

BEYOND BORDERS
SECURING THE WORLD

SCIENCE IN SERVICE OF SOVEREIGNTY

India’s defence strength, engineered in Hyderabad

Hyderabad harbours a quiet revolution, where laboratories and factories strive to forge the future, and a city's ingenuity becomes India's shield. Far from the headlines, this defence and aerospace ecosystem pulses with the accuracy of missiles, the reach of satellites, and the resolve of self-reliance, inviting you to uncover its depths.

Hyderabad stands today as one of the foremost centres of India's defence and aerospace landscape, where science, strategy, and sovereignty intersect with intent. What began decades ago as a cluster of strategic public sector undertakings has since evolved into a globally recognised hub of innovation and national capability, shaping a continuum of progress that reaches far beyond India's borders.

The city's transformation is anchored in the contributions of institutions and DPSUs such as HAL, BDL, and DRDO, along with its laboratories like RCI – Research Centre Imarat, ASL–Advanced Systems Laboratory, DLRL – Defence Electronics Research Laboratory, DMR – Defence Metallurgical Research Laboratory, CHESS – Centre for High Energy Systems and Sciences, and DRDL- Defence Research Development Laboratory, which have together forged the scientific and technological core of this endeavour. Around them, a vibrant private sector has emerged, pioneering advancements across aerospace engineering, avionics, unmanned systems, missile technologies, materials testing, precision manufacturing, and space research. This synergy between public and private enterprise has given Hyderabad a singular distinction: that of being the cradle of India's self-reliant defence ecosystem.

Atmanirbhar Bharat positions Hyderabad's defence and aerospace sector at a pivotal moment. Indigenous design, innovation, and manufacturing now meet national needs while enabling global exports and partnerships. The city's contribution is a promise that India's path to technological sovereignty will continue to be charted from this very heartland.

“**Beyond Borders, Securing the World**” honours that promise. Conceived and published by **10TV** Telugu News Satellite Channel, this coffee table book reveals an ecosystem in full stride. These pages chronicle the trailblazers institutions, enterprises, visionaries who are redrawing India's self-reliance map. Above all, it spotlights Hyderabad, the city powering the nation's ascent to strength, security, and global command.



Message from

Executive Director's Desk

Beyond Borders Securing the World

Hyderabad, Powering India's Defence Future

Hyderabad has evolved into one of India's most dynamic and integrated defence and aerospace hubs, shaped by a powerful blend of public sector leadership, research excellence, and a rapidly expanding private industry ecosystem. This synergy has placed the city at the forefront of national security innovation and strengthened India's presence in the global defence manufacturing landscape.

This Coffee Table Book has been envisioned to highlight that collective strength. While Hyderabad hosts premier institutions such as DRDO laboratories, ECIL, BDL, HAL, MIDHANI and several other strategic establishments, it is the emergence of private players—from large defence manufacturers to agile MSMEs and start-ups—that has accelerated the city's technological advancement. These enterprises have introduced cutting-edge manufacturing capabilities, R&D-driven solutions, avionics and electronics systems, UAV technologies, simulation platforms, and precision components that support both indigenous missions and international defence supply chains.

In recent years, Hyderabad has also risen as a significant contributor to India's defence and aerospace exports. Companies based here are supplying components, subsystems, and turnkey solutions to global OEMs, reinforcing India's reputation as a reliable and competitive partner. This growing export momentum reflects the city's commitment to quality, innovation, and global benchmarks.

Through this publication, we aim to present a comprehensive visual and narrative chronicle of Hyderabad's defence and aerospace ecosystem—its institutions, its industry, its people, and its remarkable capabilities. Beyond documenting achievements, the book aspires to inspire future innovation, collaboration, and strategic growth.

We extend our heartfelt appreciation to all public sector undertakings, private companies, research organisations, and domain experts whose insights and contributions have enriched this compilation. Their support has enabled us to capture both the legacy and the rapidly increasing global relevance of Hyderabad's defence and aerospace industry.

We hope this Coffee Table Book offers readers a deeper understanding of the city's enduring role in shaping India's strategic strength and technological future.

Executive Director

K Vikram



Message from

CM's Desk

Anumula Revanth Reddy

Chief Minister of Telangana

Message

It gives me great pleasure to extend my greetings to the publishers of this Coffee Table Book highlighting the achievements of the Defence and Aerospace industry in Hyderabad. Telangana today stands at the forefront of India's strategic advancement, and Hyderabad has emerged as one of the nation's most powerful engines of defence production, innovation, and export capability.

Hyderabad's strong institutional foundation—anchored by eminent defence laboratories continues to elevate India's technological strength. Over the last decade, our state has also witnessed remarkable growth in defence and aerospace exports, with companies from Hyderabad now supplying advanced systems, components, and technologies to countries across Asia, Europe, and the Middle East. This rising export footprint reflects Telangana's global competitiveness and its contribution to India's ambition of becoming a leading defence exporter. The rich defence ecosystem is consistently attracting mega investments from global OEMs and also making major contributions to defence indigenisation under the Make in India.

Telangana Government is fully committed to supporting this ecosystem. Strengthening policy frameworks, enabling infrastructure, and fostering partnerships that encourage research-led growth and export-oriented production. Defence and Aerospace are not just sectors of national importance; they are among the most promising avenues for job creation, global integration, and long-term economic advancement.

I congratulate the publishers for documenting Hyderabad's inspiring journey in this strategically vital domain. I am confident that this Coffee Table Book will stand as a valuable reference for investors, innovators, policymakers, and the global defence community.

(A. Revanth Reddy)



Message from

Minister for Information Technology,
Electronics & Communications,
Industries & Commerce, and Legislative Affairs,
Government of Telangana.

Duddilla Sridhar Babu

Minister for Information Technology,
Electronics & Communications,
Industries & Commerce, and Legislative Affairs,
Government of Telangana.

Message

Hyderabad today hosts one of India's most robust and future-ready defence ecosystems, built upon the strong presence of DRDO laboratories, public-sector enterprises such as BDL and ECIL, and a rapidly expanding network of private manufacturers. Our city is now a key contributor to India's defence exports, with companies from Telangana supplying UAVs, avionics, composite structures, precision components, missile subsystems, and space-grade technologies to global markets. This progress reflects our state's commitment to supporting industries that enhance national security while strengthening India's role in global supply chains.

One of the greatest strengths of Telangana's industrial landscape is the rise of defence-tech startups and private innovators. Hyderabad has become a magnet for companies building next-generation solutions—ranging from autonomous systems and avionics to satellite technologies, cybersecurity platforms, and indigenised systems for international OEMs. Supported by strong research linkages, a skilled talent pool, and forward-looking state policies, these enterprises are reshaping Telangana's contribution to the global defence and aerospace arena.

The Government of Telangana remains dedicated to nurturing this progress. Through progressive industrial policies, focused infrastructure development, and proactive collaboration with industry stakeholders, we aim to position Telangana as a global hub for innovation, high-value manufacturing, and export competitiveness in the Defence and Aerospace sectors. Our efforts are centred on enabling an ecosystem that supports cutting-edge R&D, accelerates production, and unlocks new international partnerships and investment opportunities.

I congratulate the publishers for this timely initiative. This Coffee Table Book not only captures the achievements of Hyderabad's Defence and Aerospace community but also highlights the ambitious path ahead. I am confident that it will serve as an important resource for investors, innovators, and policymakers in India and abroad.

(DUDDILLA SRIDHAR BABU)



Dr.G.Satheesh Reddy

Member, National Security Advisory Board (NSAB),
Honorary Adviser to Govt of Andhra Pradesh
(Cabinet Rank) and
President, Aeronautical Society of India
Former Secretary DD R&D, Chairman DRDO and Scientific Adviser to Raksha Mantri

India's Defence Odyssey:

From Dependence to Dominance

The Indian defence sector has witnessed significant transformation from a reliant importer into a formidable global player over the past 10-15 years. This evolution is not just about hardware; it is a symphony of policy reforms, indigenous ingenuity, and strategic vision that has propelled India towards self-reliance. There have been significant developments across many instances in the last 10-15 years that have today culminated into a strong ecosystem and have redefined our nation's security landscape.

The Catalyst: Policy Revolutions Ignite Change

The turning point came with the launch of the "Make in India" initiative, a bold clarion call to manufacture domestically and reduce import dependencies. India was earlier also endeavoring towards making in India, but it was more fragmented and the impact was not resulting in the desired outcome. A more cohesive and focussed approach was planned with the Atmanirbharta journey - towards both rationalization of policies and procedures, and also putting in place incentives and initiatives to develop the ecosystem. On the one hand, policy reforms like increasing FDI limits, the creation of negative import lists / positive indigenization lists, earmarking of procurements from domestic sources, preference for IDDM products and equipment made the ecosystem more amenable to industry. On the other hand, striving towards execution preparedness through cluster / corridor formations and incentives for startups and MSMEs further enabled the industry to align themselves and their capabilities and capacities with the changing demand-supply dynamics.

Technological Triumphs:
Innovations That Soar and Strike

From the labs of DRDO to the competitions / schemes like iDEX and TDF – innovation has gradually taken shape in the country and the breakthroughs have been breathtaking. The indigenous Light Combat Aircraft Tejas, once a fledgling project, now forms the backbone of the Indian Air Force. Artillery guns are now being made in India for both India and the world – a possibility no one thought existed 10 years back. Naval prowess has shone with the commissioning of INS Vikrant, India's first home-built aircraft carrier in 2022, symbolizing maritime self-sufficiency. Missile technology has leaped forward with huge strides and Operation Sindoor has further proven the capability. It is also very exciting to see how quantum computing and AI are being integrated into systems and cyber defences, turning science fiction into strategic reality.

Private Powerhouse:
Unleashing Entrepreneurial Energy

The Indian private industry (including all of the large, MSME and startup entities in the country) have injected vitality, urgency and efficiency into the ecosystem. This shift has democratized innovation, with over 15,000 MSMEs and startups now becoming an integral part of the supply chain, creating jobs and fostering a vibrant ecosystem.

Global Footprint: Exports Explode on the World Stage

India's defence exports have skyrocketed more than 15x times in the last decade alone. From BrahMos missiles to ATAGS guns, Indian hardware today is gaining trust and traction worldwide. This not only boosts the economy but positions India as a reliable partner in global security.

Horizon Ahead: A Scientist's Vision for Tomorrow

Looking forward, challenges like supply chain vulnerabilities persist, but with increased R&D focus and funding - India is poised for exponential growth. As we integrate emerging tech like directed energy weapons and space defences, the future gleams with promise. India's defence evolution is a testament to resilient spirit and scientific prowess, forging a safer, stronger nation.



U. Raja Babu

Distinguished Scientist,
Director General (Missiles & Strategic Systems)

The Defence and Aerospace Industry in India

Technology, Transformation and Future Outlook

India's defence and aerospace industry has entered a transformative phase, evolving from import dependence and licensed production to an innovation-driven, indigenous ecosystem. This shift is driven by national security imperatives, changing geopolitical realities, and government initiatives such as Atmanirbhar Bharat, Make in India, and iDEX, alongside growing private-sector and MSME participation.

Need for Advanced Technologies

Modern defence and aerospace systems demand cutting-edge technologies to counter cyber threats, enhance surveillance, ensure rapid decision-making, and optimize logistics and supply chains. The increasing complexity of warfare spanning cyber, electronic, space, and autonomous domains—requires integrated, intelligent, and resilient systems.

Role of Artificial Intelligence and Digital Technologies

Artificial Intelligence (AI) has emerged as a cornerstone of capability enhancement across defence and aerospace domains. In defence, AI enables advanced intelligence gathering through sensor fusion, satellite imagery analysis, anomaly detection, and predictive threat assessment. Al-driven cybersecurity systems offer real-time detection and response to cyber intrusions, while predictive maintenance minimizes downtime of aircraft, vehicles, and weapon systems. AI also improves logistics and supply chain efficiency by forecasting demand and optimizing inventory and transportation.

In aerospace, AI supports autonomous flight systems, hazard detection, predictive maintenance of engines and structures, and design optimization for improved aerodynamics and fuel efficiency. These capabilities collectively enhance safety, performance, and operational readiness.

Emerging and Enabling Technologies

Beyond Al, advances in materials science such as lightweight composites, smart materials, and stealth-enabling metamaterials are redefining platform performance. Cyber warfare capabilities, quantum-resistant cryptography, hypersonic systems, space-based surveillance, and 5G-enabled communications are shaping next-generation defence architectures. Unmanned systems, including UAVs and robotic platforms, are increasingly central to surveillance, reconnaissance, and high-risk operations.

Industrial Ecosystem, Exports and Challenges

India's defence-aerospace ecosystem now spans aircraft, helicopters, missiles, artillery, radars, electronics, and space systems largely developed or manufactured domestically. Defence exports have grown significantly, positioning India as an emerging global supplier. However, challenges remain: cybersecurity risks, supply-chain resilience, system integration, sustainability, and global certification and regulatory compliance.

Conclusion

India's defence and aerospace sector stands at a strategic inflection point. By integrating AI, advanced materials, cyber and space technologies with strong policy support and industrial collaboration, India is building a resilient, future-ready ecosystem. The journey from “Make in India” to “Made in India” is well underway, positioning the nation as a credible global aerospace and defence power.



(U. Raja Babu)



Dr. A. P. J. Abdul Kalam

A Visionary Scientist of DRDO

Dr. Avul Pakir Jainulabdeen Abdul Kalam (1931–2015) stands as one of India's most respected aerospace scientists and a defining force behind the nation's modern defence capabilities. His association with the Defence Research and Development Organisation (DRDO) marked a transformative phase in India's pursuit of technological self-reliance in strategic defence systems.Joining DRDO in the early years of his career, Dr. Kalam brought clarity of vision, scientific rigor, and an unwavering commitment to national service. He later became the Director of the Integrated Guided Missile Development Programme (IGMDP), a landmark initiative that led to the successful development of a family of indigenous missiles, including Agni, Prithvi, Akash, Trishul, and Nag. These achievements significantly strengthened India's strategic deterrence and elevated its standing in global defence technology.Beyond his technical brilliance, Dr. Kalam was widely admired for his leadership style—collaborative, ethical, and deeply inspirational. He believed in empowering young scientists, fostering innovation, and aligning advanced technology with societal progress. His work at DRDO exemplified the idea that cutting-edge science, when guided by purpose and integrity, can serve as a powerful instrument of national development.Internationally recognized as the "Missile Man of India," Dr. Kalam's legacy as a DRDO scientist transcends borders. He remains a symbol of how scientific excellence, humility, and visionary leadership can shape a nation's destiny and inspire future generations across the world.

Building the Foundation

Key Learnings and Milestones

India's journey from a post-colonial, import-dependent defence ecosystem to an emerging global manufacturing force stands as one of the most consequential transformations in the nation's industrial history. Over the past seven decades, the country has steadily advanced toward strategic self-reliance by building indigenous capabilities, strengthening institutional frameworks, and implementing far-reaching policy and structural reforms.

This evolution extends beyond economics or military preparedness. It represents India's broader aspiration to emerge as a sovereign global power—one with a credible voice and enduring value in the multipolar security architecture of the twenty first century.

An Institutional Backbone of Strength

India's defence manufacturing ecosystem rests on a robust foundation of public sector undertakings and research institutions. Organizations such as Hindustan Aeronautics Limited (HAL), Bharat Dynamics Limited (BDL), Bharat Electronics Limited (BEL), and the Defence Research and Development Organisation (DRDO) have been instrumental in shaping indigenous capability.

These institutions have delivered landmark platforms including the Tejas Light Combat Aircraft, Akash surface-to-air missile system, and the Arjun Main Battle Tank. DRDO alone operates more than 50 laboratories and has developed over 1,000 defence systems since its inception in 1958, forming the backbone of India's indigenous defence innovation.

Policy Realignment for Self-Reliance

The launch of the Make in India initiative in 2014 marked a watershed moment, formally recognizing defence manufacturing as one of the country's strategic growth sectors. Subsequent reforms—most notably the Defence Acquisition Procedure (DAP) 2020 and the introduction of Positive Indigenisation Lists—have realigned capital procurement around domestic capability.

More than 500 items have now been placed under import restrictions, compelling domestic production and accelerating the growth of indigenous supply chains across platforms and subsystems.

The introduction of the Strategic Partnership Model in 2016 institutionalized the role of private industry in co-developing complex defence platforms alongside global original equipment manufacturers.

Private Sector Participation Takes Center Stage

Today, Indian private sector leaders such as Tata Advanced Systems, Larsen & Toubro, Bharat Forge, and Adani Defence are manufacturing components, subsystems, and full platforms—ranging from artillery systems and aircraft structures to radar units and unmanned aerial vehicles. Their participation has injected scale, speed, and competitiveness into the defence manufacturing ecosystem.

Startups and the Innovation Push

India's defence innovation landscape has been further energized by platforms such as Innovations for Defence Excellence (IDEX) and SRIJAN. These initiatives have enabled over 400 startups and MSMEs to engage directly with the armed forces.

Through IDEX alone, more than 250 innovation challenges have been funded, with grants exceeding ₹1,200 crore supporting advancements in artificial intelligence, robotics, secure communications, and autonomous systems.

Complementing this momentum, Defence Industrial Corridors in Uttar Pradesh and Tamil Nadu are attracting cumulative investments exceeding Rs.17,000 crore. These corridors are fostering integrated clusters that bring together manufacturers, research institutions, testing facilities, and skill-development centers.

Rising Export Confidence

India's defence exports have witnessed remarkable growth from ₹1,940 crore in FY 2014–15 to over 23,622 crores in FY 2024–25. Exported systems now include the Brahmos missile to the Philippines, Pinaka rocket systems to Armenia, and naval platforms supplied to Mauritius and the Maldives.

Private enterprises now contribute nearly 65 percent of total defence exports, reinforcing India's emergence as a reliable global defence supplier.

Strategic Priorities for India @ 2047

To fully capitalize on this momentum and secure global leadership by 2047, India must focus on six strategic pillars:

1. **Boost Defence R&D Investment**
   Increase national defence R&D expenditure to at least 2 percent of GDP. Establish a Defence Innovation Fund supported by both public and private capital, while promoting IP sharing across academia, industry, and DRDO laboratories.
2. **Deepen Indigenisation in Core Technologies**
   Prioritize domestic development of aero-engines, radar and electronic warfare systems, avionics, hypersonic propulsion, and cybersecurity tools. Enforce stricter local content norms and fast-track strategic production.
3. **Strengthen the Private and MSME Ecosystem**
   Streamline licensing processes, reduce compliance bottlenecks, provide export-linked incentives, and develop shared facilities for design validation, testing, and certification.
4. **Expand International Defence Engagement**
   Establish permanent Defence Trade Promotion Offices in key regions including the Middle East, Africa, Southeast Asia, and Latin America. Pursue bilateral co-development and technology-sharing agreements with strategic partners such as the United States, France, Israel, Japan, and South Korea.
5. **Invest in Talent and Human Capital**
   Integrate next-generation defence technologies into engineering curricula at IITs, NITs, and military academies. Create specialized Centers of Excellence in AI, quantum computing, advanced materials, and autonomous systems.
6. **Modernize Testing and MRO Infrastructure**
   Develop world-class testing, certification, and compliance centers to reduce time-to-market. Position India as a regional MRO hub for aircraft, engines, and platforms serving the Asia-Pacific and Global South.

A Strategic Inevitability

India's defence sector stands at the cusp of a historic transformation. With sustained industrial alignment, and a clearly defined roadmap, the nation is well positioned not only to meet its security needs but to emerge as a trusted global supplier of advanced defence solutions.

By 2047, India's ambition extends beyond self-reliance it seeks to define global benchmarks in defence innovation, manufacturing excellence, and strategic diplomacy. With consistent effort, cohesive policy, and inclusive growth, that vision is no longer aspirational. It is inevitable.

Where the Numbers Are Headed

India's trajectory in defence is underpinned by measurable outcomes. The following table outlines key metrics and targets on the path to 2047.

Metric	2024–25 Status	2047 Projection
Defence Exports	23,622crore	1 lakh crore plus
Import Dependency (Capital Items)	Approximately 40%	Less than 15%
Indigenous Share in Procurement	Approximately 65%	More than 90%
R&D Investment (Percentage of GDP)	Approximately 0.7%	Targeting 2.0 to 2.5%
Share of Private Sector in Production	Approximately 22%	Greater than 50%

DRDL – Defence Research Development Laboratory

DRDL is a key laboratory under DRDO located in Hyderabad.

- It is primarily responsible for the design and development of missile systems in India.
- DRDL focuses on tactical and strategic missile technologies.
- It works on propulsion, guidance, control systems, and warhead technologies.
- DRDL plays an important role in strengthening India's defence capabilities and self-reliance.

ASL – Advanced Systems Laboratory

- ASL is a DRDO lab responsible for long-range strategic missile development.
- It works on solid propulsion systems, re-entry vehicles, and missile structures.
- ASL collaborates with DRDL, RCI, and other defence industries.
- It plays a major role in India's Agni series of ballistic missiles.
- The laboratory enhances India's deterrence and defence preparedness.

RCI – Research Centre Imarat

RCI is a premier DRDO laboratory that develops missile subsystems.

- It specializes in avionics, control systems, navigation, telemetry, and seekers.
- RCI has state-of-the-art research facilities and production partnerships.
- It supports the missile development programs like Agni, Prithvi, Akash, and others.
- RCI contributes significantly to India's advanced defence technologies.

DLRL – Defence Electronics Research Laboratory

DLRL focuses on electronic warfare (EW) systems under DRDO.

- It develops radar warning receivers, jammers, and communication intelligence systems. DLRL contributes to modern battlefield electronic defence technologies.
- The laboratory supports the Army, Navy, and Air Force with advanced EW solutions.
- Its innovations improve combat readiness and electronic security.



DMRL – Defence Metallurgical Research Laboratory

DMRL is involved in metallurgy and materials engineering for defence use.

- It develops high-strength alloys, armour materials, and special steels.
- DMRL supports missile, aircraft, tank, and naval technology programs.
- Its research ensures that India has indigenous defence-grade materials.
- The laboratory helps reduce dependence on foreign materials.

CHESS – Centre for High Energy Systems and Sciences

- CHESS works on directed energy weapons and high-power lasers.
- It develops futuristic defence technologies such as electromagnetic and laser-based systems. CHESS works with many DRDO labs to integrate new warfare capabilities.
- Its research supports next-generation combat systems and national security innovation. CHESS represents a leap toward advanced strategic defence technologies.

MIDHANI – Mishra Dhatu Nigam Limited

MIDHANI is a public sector enterprise specializing in high-performance metal alloys.

- It manufactures specialty steels, superalloys, and titanium alloys.
- MIDHANI supports aerospace, defence, nuclear, and space industries.
- It plays a major role in supplying materials for missiles, aircraft, and satellites.
- The company ensures high-quality advanced materials for strategic applications.

ECIL – Electronics Corporation of India Limited

- ECIL is a government electronics company based in Hyderabad.
- It develops and produces advanced electronic systems for defence, nuclear, and space sectors. ECIL manufactures communication systems, radar, VVPAT machines, and electronic security devices. It works closely with DRDO, ISRO, and the Election Commission of India. ECIL contributes greatly to national security and technology development.

DYSL-AT – DRDO Young Scientist Laboratory for Asymmetric Technologies

- DYSL – Asymmetric Technologies is a specialized lab under DRDO created to develop innovative and unconventional defence solutions.
- It focuses on technologies that provide strategic advantage in asymmetric warfare, including swarm drones, artificial intelligence, autonomous unmanned systems, and cyber-physical security.
- The lab works on advanced research areas such as drone-based attack and defence strategies, counter-UAV systems, robotics, and smart surveillance.
- DYSL-AT aims to develop futuristic combat systems capable of handling emerging non-traditional threats and hybrid warfare environments.
- The laboratory is primarily driven by young scientists below 35 years of age, encouraging rapid innovation and modern research culture.
- DYSL-Asymmetric Technologies strengthens national defence capability through breakthrough research and supports India's mission of technological self-reliance.

BDL– Bharat Dynamics Limited

- BDL is a Government of India defence public sector company located in Hyderabad.
- It manufactures missiles and ammunition for the Indian armed forces.
- BDL produces systems like Akash, Nag, Konkurs, and Torpedoes.
- It collaborates with DRDO for mass production of defence technologies.
- BDL is a key contributor to India's self-reliance in missile manufacturing.

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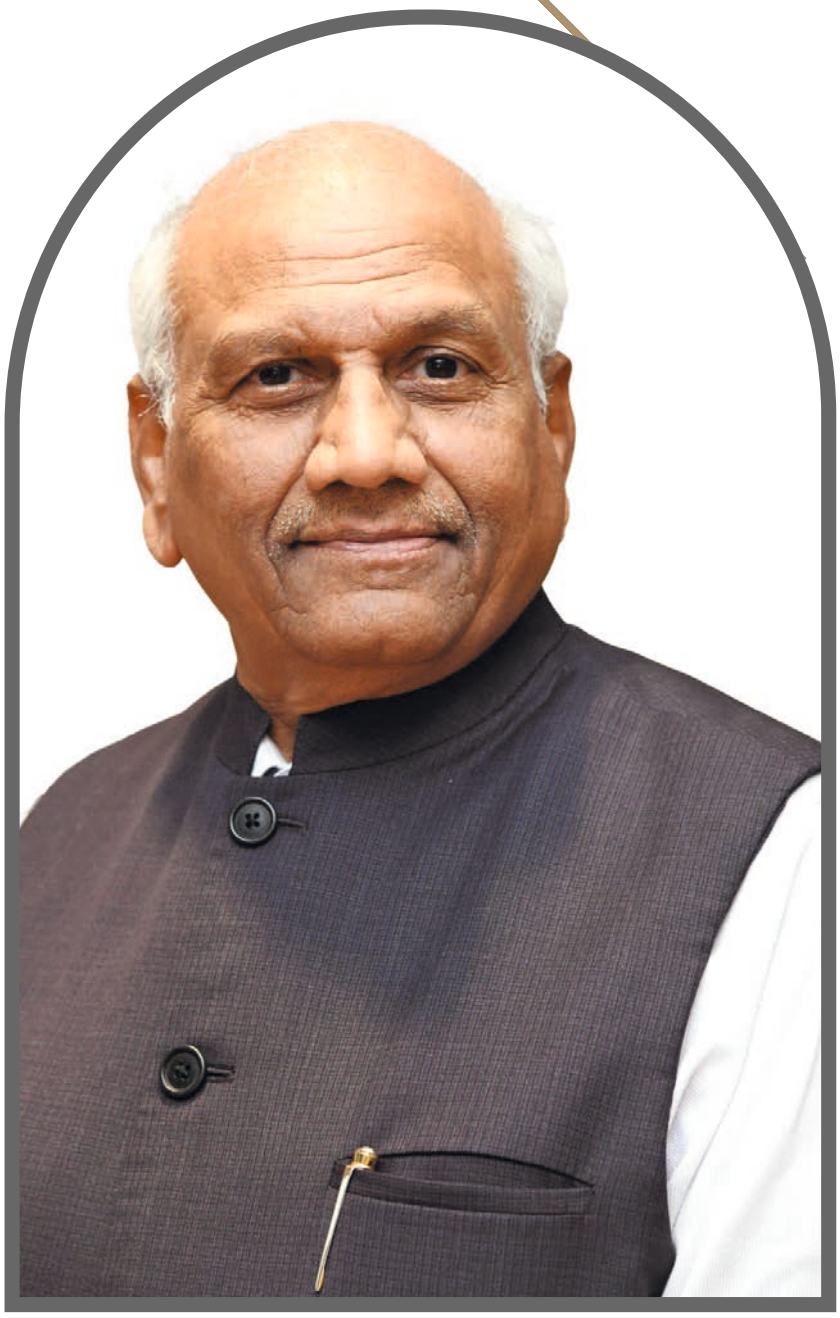
The Vision That Launched a Legacy



Dr. Subba Rao Pavuluri

Chairman, Ananth Technologies Limited (ATL)

Dr. Subba Rao Pavuluri harnesses the technology he leads, with a perspicuous vision. A doer on all counts, he helms an organization vital to the nation's self-reliance embodying the spirit of Atmanirbhar Bharat with resolute purpose. From modest beginnings grounded strongly in belief and vision, he established Ananth Technologies Limited with a mandate. His steadfastness reflects the legacy of pioneers who, through resolve and rigour, shape history.

Rooted in academic excellence, extensive research, and brilliant expertise, Dr.Subba Rao Pavuluri has chiselled Ananth Technologies as a fully indigenous aerospace engineering leader. Over three decades, his leadership has propelled the company to crucial prominence in India's defence sector.

Ananth is a story of local ingenuity making global impact, marked by resolve and visionary acumen.

Dr. Subba Rao Pavuluri's distinguished career epitomizes the highest ideals of scientific endeavour and visionary leadership. As Chairman of Ananth Technologies Limited, he draws upon profound expertise acquired through erudite academics and pivotal experience with the Indian Space Research Organisation. Dr. Subba Rao Pavuluri's foresight in founding ATL in 1992 heralded a new era for India's private sector, establishing the nation's foremost in-house satellite manufacturing capability and propelling progress across aerospace, satellite, and defence domains.

Guiding over 2000+ technocrats, Dr. Subba Rao Pavuluri has steered ATL's contributions to 105 satellites and 88 launch vehicles, with strategically located centres in Hyderabad, Bengaluru, and Thiruvananthapuram. His yeoman work encompasses satellite design, advanced avionics, and mission-critical systems for India's premier space and defence programs, including PSLV, GSLV, Akash, and BrahMos.

Beyond the technological realm, Dr. Subba Rao Pavuluri remains steadfast in advancing digital connectivity, education, and healthcare for India's underserved communities. Through his dedicated roles—including President of the Satcom Industry Association of India and trustee of multiple outreach foundations—he consistently elevates human welfare and empowerment through innovation.

Honoured with the Bhaskara and Aryabhata Awards, SIATI accolades, and several prestigious distinctions, Dr. Subba Rao Pavuluri's journey blends engineering excellence with a resolute commitment to social progress. His enduring legacy illuminates and paves the path for India's ascendancy in the global space community.

Dr. Subba Rao Pavaluri's journey is not only a testament to technical brilliance but also to a socially responsible leadership embodying integrative and transformative vision.







India's Vanguard in Aerospace & Defence Innovation

Since 1992, Ananth Technologies has shaped India's rise in space and defence, evolving from modest origins into a cornerstone of national advancement. Guided by bold ambition, Ananth epitomizes the nation's aspirations in aerospace innovation.

Crafting the Future of Space Exploration

Ananth has powered over 88 launch vehicles and 105 satellites integral to the country's space progress. Supported by over 2,000 experts across Hyderabad, Bengaluru, and Thiruvananthapuram centres, the company is synonymous with technical excellence and reliability.

A Spectrum of Expertise

Ananth's offerings span sophisticated satellites and launch vehicles, advanced missile and radar systems, navigation, guidance and control systems, on-board computers and seekers, and inventive LIDAR technologies. Their solutions underpin mission-critical aerospace applications.

Innovation at the Heart of Design

Combining 30+ years of R&D, Ananth excels in optics, digital, embedded, and mechanical design. Teams leverage 3D modelling, RF simulation, and real-time data analytics to lead in aerospace advancements.

The Nexus of Precision in Satellites Manufacturing

Bengaluru's AIT facility, over 20,000 sqm, enables assembly, integration, and testing of satellites up to 4,000 kg—delivering multiple ready-to-launch satellites with precision and efficiency.

Trusted Launch Partners

Collaborating with ISRO's PSLV platforms, Ananth provides globally respected satellite launch services, known for seamless operation and cost-effectiveness.

Launch Vehicle Manufacturing Excellence

At Thiruvananthapuram, pioneering avionics, navigation, telemetry, and power systems support India's major launch programs, including GSLV Mk-III, Chandrayaan-II, and Gaganyaan.

Weaving Complex Systems Together

Expertise in mission electronics, telemetry, data systems, power networks, and harnessing ensures Ananth's systems function flawlessly in demanding missions.

Defending the Skies and Seas

Ananth supplies inertial navigation, actuator controls, missile interfaces, radar, laser seekers, explosives detectors, and underwater communications bolstering national defence.

Manufacturing at the Highest Standards

With ISRO-certified facilities, Ananth's clean rooms, PCB assembly, shielding, ESS labs, and test facilities uphold the highest benchmarks in aerospace manufacturing.

Geo-Spatial Superiority

Ananth leads in mission planning, command control, strategic mapping, tracking, and advanced remote sensing—reinforcing India's edge in geospatial operations.

Anchored Across India

Hyderabad :

The Headquarters of innovation and leadership.

Bengaluru Facility:

The core facility of spacecraft and satellite assembly.

Thiruvananthapuram Plant:

The key launch vehicle manufacturing hub.

Ananth Technologies Limited

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Sales: sales@ananthtech.com

Careers: jobs@ananthtech.com



Architect of Indigenous Defence Innovation

Baddam Karunakar Reddy
Founder and Managing Director

Mr Baddam Karunakar Reddy, Founder and Managing Director of Apollo Micro Systems Limited, has guided the company from a Computer-aided Design services firm to a leading indigenous supplier of complex weapon system sub-systems, integrated solutions, and electronic platforms for defence, aerospace, and space sectors. Under his leadership, AMS has steadily expanded its capabilities and market presence, becoming a critical technology partner supporting India's strategic defence programmes.

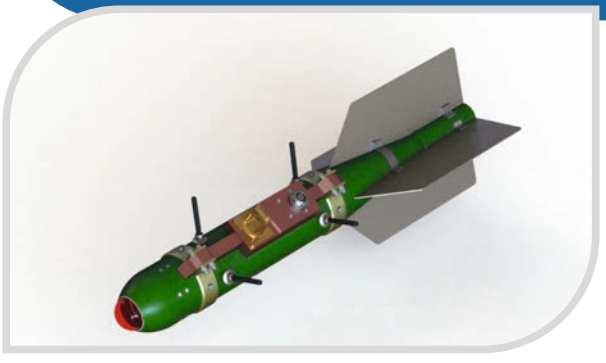
Mr Reddy's vision drives India's self-reliance in defence technology through vertical integration, positioning AMS as a trusted provider of military-grade electronic hardware. He has been pivotal in establishing core technologies in missile guidance, avionics, radar, surveillance, and data acquisition. His leadership advances India's defence autonomy, directly supporting the Atmanirbhar Bharat mission.

Under his leadership, AMS has paved the way for the next technological wave by integrating its inherent capabilities and scaling up its portfolio in a diversified, multidisciplinary environment. This involves partnering with the Defence Research and Development Organisation, the Indian Space Research Organisation, and multiple Defence Public Sector Units, while also contributing technologies to these organisations. The company ensures that its deployed systems are not static, but are constantly adaptive and self-optimising in the field.

Forging a Legacy in Indian Defence

Apollo Micro Systems (AMS) is a strategic force multiplier in India's defence and aerospace sectors. Since its founding in 1985, AMS has grown from supplying components to engineering the electronic backbone and intellectual core of critical defence and space platforms. It proclaims India's engineering strength by transforming complex defence technology requirements into reliable, indigenous solutions that safeguard the nation's future.

The company excels in integrating technologies across the defence value chain. It develops specialised sub-systems that perform reliably under extreme conditions. AMS also delivers fully integrated, mission-ready weapon systems, including advanced explosives. This vertical integration positions AMS as a key partner for major defence organisations, advancing India's self-reliance in defence manufacturing and technology.





Core Expertise and Operational Domains

Apollo Micro Systems excels in designing, developing, and rigorously testing custom electronics and electromechanical systems for defence applications. Its portfolio includes aerial bombers, drone delivery systems, land-based vehicle management, and control systems. In maritime defence, AMS designs and manufactures advanced naval mines, torpedoes, and missile systems essential for underwater warfare. This broad expertise emphasises AMS's role as a critical defence technology provider.

AMS delivers sturdy IT cybersecurity solutions to protect critical defence infrastructure, alongside advanced handheld anti-drone, UAV detection, jamming, and portable bomb jamming systems for





effectively countering emerging threats.

AMS's multidisciplinary engineering teams deliver comprehensive build-to-specification solutions in electronics design, embedded systems, signal processing, and precision mechanical engineering. This expertise drives the development of agile, reliable defence systems with seamless integration across complex platforms, strengthening India's strategic defence infrastructure.

Innovative Technologies and Product Portfolio

AMS's product suite features actuator and avionics systems, AI processing units, automated testing platforms, communications arrays, satellite data handling, sonar, telemetry, and warhead propulsion systems. Hardware services include sophisticated CAD/PCB design, HDL coding, and FPGA integration, augmented by software teams who architect real-time application code and unit testing frameworks.

Crafting Excellence in Defence Technology

Apollo Micro System's integrated design and manufacturing ecosystem customises solutions with advanced engineering. It is characterised by advanced manufacturing processes, from SMT and CNC machining to environmental testing and assembly, meeting stringent quality while assuring high-reliability products essential for mission-critical deployment.

The synergy of design, engineering, and manufacturing vindicates Apollo Micro System's role as a comprehensive and reliable partner in advancing India's defence self-reliance and technological frontier.

Apollo Micro Systems Limited,

Regd. Corp Office (UNIT - I)
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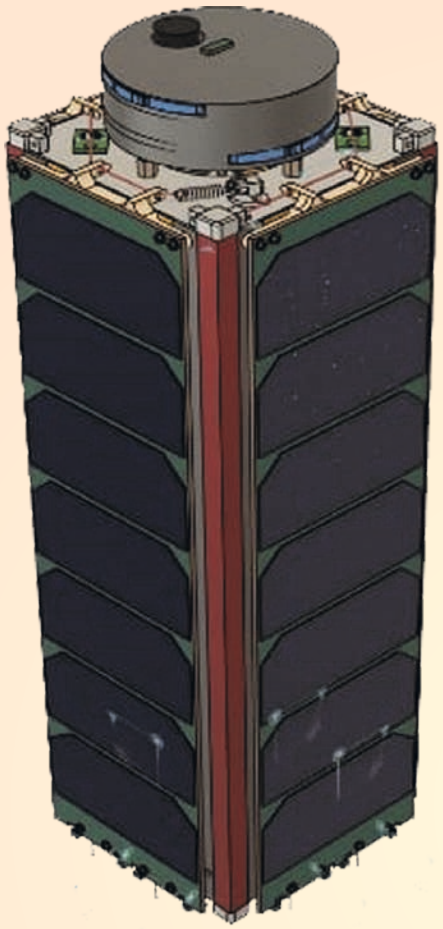
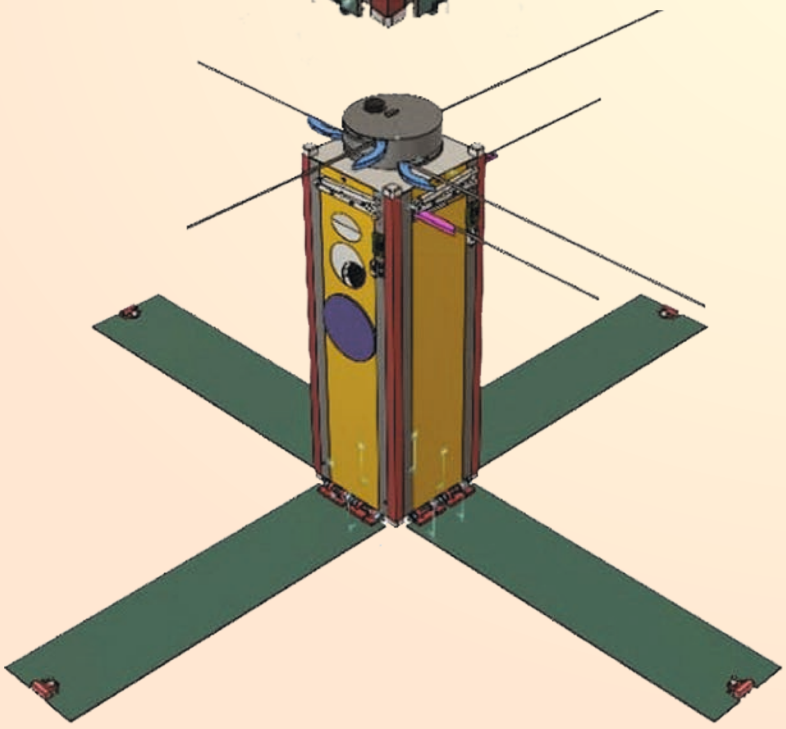
mktg@apollo-micro.com
hls@apollo-micro.com



Kaynes Technology India Limited







Savitha Ramesh
Chairperson



Ramesh Kunhikannan
Executive Vice Chairman



Dr. MuthuKumar Narayanaswamy
Managing Director



Jairam P Sampath
Wholetime Director

Defining Intelligent Manufacturing

Kaynes Technology India Limited, based in Mysuru, Karnataka, was founded in 1988 and has since grown into a fully integrated, IoT-enabled leader in electronics design and manufacturing. It delivers comprehensive solutions spanning design, process engineering, precision production, and life cycle support.

With expertise covering automotive, aerospace, defence, medical, industrial, railways, IT, and IoT sectors, Kaynes serves as a trusted partner for mission-critical electronics that power global innovation and advance India's technological progress.

Leadership with Vision

Mr. Ramesh Kunhikannan, Promoter and Executive Vice Chairman, founded Kaynes. An electrical engineer from the National Institute of Engineering, Mysuru, he has over 35 years of experience and has built the company into a global EMS leader.

Ms. Savitha Ramesh, Promoter and Chairperson since 1996, is a commerce graduate from the University of Madras and oversees corporate governance and quality systems.

Dr. Muthukumar Narayanaswamy, Managing Director, holds a PhD in Operations Management and drives corporate strategy and transformation.

Mr. Jairam Paravastu Sampath, Whole-Time Director and CFO, an IIT Madras and IIM Ahmedabad alumnus, leads finance and operations.

Independent Directors Heinz Moitzi, Koshy Alexander, S. G. Murali, and Poornima Ranganath provide balanced governance and a global perspective.

Heritage & Growth

Founded as a PCB assembly enterprise, Kaynes evolved through continuous innovation alongside India's expanding electronics ecosystem. Incorporated in 2008 and later listed publicly, the company expanded across India and global markets through strategic investments in infrastructure, quality, and talent. Today, it serves clients in more than 20 countries.

Core Industry Verticals

Kaynes serves diverse sectors through high-reliability electronics and integrated manufacturing solutions.

- **Automotive** – Designs PCB assemblies, wiring systems, and sub-assemblies for electric and conventional vehicles, supporting EV powertrains, lighting, and safety systems.
- **Aerospace** – Produces certified PCBAs, wire harnesses, and box-builds for avionics and control systems, ensuring performance and reliability.
- **Defence** – Develops MIL-grade LRUs, automated test equipment, and rugged power electronics for radar and communication systems built to exacting standards.
- **Medical** – Manufactures ISO 13485 certified electronics for diagnostics and patient-monitoring devices with assured precision and compliance.
- **Industrial** – Provides automation, energy management, and motor control solutions that enable smart factories and renewable energy systems.
- **Railways** – Supplies signalling, control, and passenger information systems that enhance safety and connectivity.
- **IT & IoT** – Through Kemsys, offers embedded hardware and sensor based IoT systems that create connected, data-driven environments.

Technological Prowess

With advanced facilities across Karnataka, Kerala, Telangana, Haryana, Himachal Pradesh, Tamil Nadu, and Uttarakhand and Maharashtra, Kaynes operates one of India's most comprehensive EMS networks. The 2024 Hyderabad facility represents a major advance in high-automation manufacturing.

Its capabilities span PCBA, box-build, magnetics, and plastics, supporting the entire product cycle—from prototyping to large scale production. The company's ODM portfolio includes smart metering, intelligent lighting, BLDC drives, gallium nitride chargers, and IoT-enabled products.

Through Kemsys, Kaynes delivers comprehensive IIoT integration with sensors, gateways, and predictive maintenance systems.

Its ₹3,300 crore Semicon OSAT facility **(Phase 1-Golden Line already operational with area of around ~30,000sq feet)**in Sanand, Gujarat, strengthens India's semiconductor ecosystem and advances electronic self-reliance.

Awards, Certifications, and Recognition

Kaynes holds certifications across business verticals i.e. **Aerospace, Railways, Automotive, Medical Devices** (EN/AS 9100 Rev C, Nadcap, ISO 9001, TS 22163 and ISO 13485 certifications), affirming its commitment to quality and process excellence. Recognized among India's *Great Places to Work*, the company has earned trust through its reliability and innovation.

Kaynes contributed to ISRO's Chandrayaan-3 mission by supplying power electronics for the lander and rover, underscoring its expertise in high-reliability design and manufacturing.

The Way Forward

As India advances toward electronic and semiconductor self-reliance, Kaynes continues to invest in design-led manufacturing, automation, and sustainability. With these strategic initiatives, it aims to enhance global competitiveness and drive innovation that supports national defence, mobility, and industrial progress.

Registered Office:
23-25 Belagola Food Industrial Estate,
Metagalli PO, Mysore - 570016. Karnataka, India.
Branch Office:
Kongarakalan, Hyderabad, Telangana

SEC INDUSTRIES PRIVATE LIMITED

(Founded in 1954)



Anchoring India's Defence Evolution

SEC Industries Private Limited was founded in the year 1954 by Dr. D. Seshagiri Rao, when the Indian manufacturing sector was just emerging. The company began with a foundry and general engineering facilities and has steadily evolved over seven decades. It initially focused on industrial structures and specialised construction equipment, eventually expanding to custom-built process equipment.

SEC Industries has dedicated the last thirty years to designing and producing complex defence and surveillance solutions spanning land, water and aerial terrains. SEC expertise spans AI-enabled robotics, autonomous drones, airborne defence systems, ground support, space research, and critical naval systems, meeting stringent global aerospace and defence standards.

Leadership and Governance

SEC Industries is led by Mr. Dontineni Vidyasagar, Chairman and Managing Director who has broadened the company's technological capabilities and global presence. Under his leadership, SEC provides integrated advanced solutions, consistently meeting high standards in international defence sectors.

Growth Trajectory and Capabilities

SEC Industries balances indigenous engineering with advanced manufacturing, demonstrating excellence in defence and aerospace sectors through in-house capabilities in design, prototyping, precision manufacturing, and system integration, ensuring self-reliance and achieving global standards.

Certified to AS 9100:2016, ISO 9001:2015, ISO/IEC 27001:2022, ISO 14001:2015, ISO 45001:2018, and ISO 3834-2:2021, SEC ensures quality, safety, and sustainability with advanced workshops, precision equipment, and specialized assembly environments.



D.Vidyasagar
Chairman and Managing Director

Product Verticals and Technologies

SEC's operations span several focused areas, driven by a commitment to innovation and engineering precision.

- **Naval Systems:** The company collaborates with Naval Group S.A.,France to manufacture critical components for the P-75 Scorpene submarine program, including the Weapon Handling and Loading Systems, Main Thrust Blocks, and Ballast Vent Valves. SEC also provides hands-on training on these systems to officers of the Indian Navy and also provides necessary after sales product support / MRO.





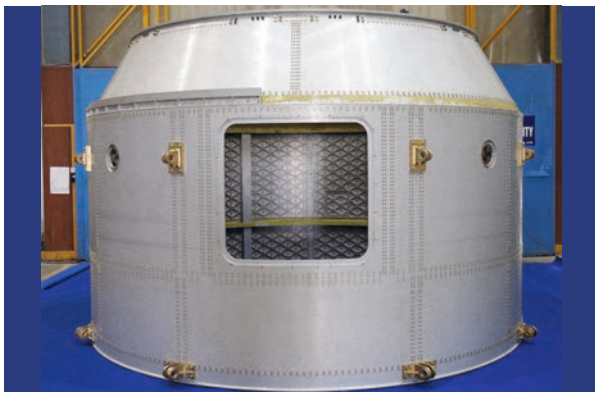


- **Military Aircraft Maintenance, Repair, and Overhaul (MRO):** SEC executes MRO for Indian Air Force aircraft at major IAF maintenance centres, ensuring readiness of aircraft and necessary operational support.



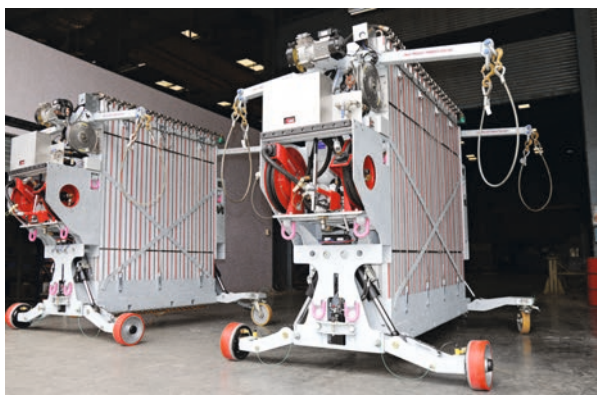
- **Space Research and Production:** SEC is a key ISRO manufacturing partner, delivering critical components like Crew Module Fairings, Crew Escape Module Interface Adapters, Solid Stage 1 Rocket Motor Casings for SSLV, PS1 SITVC Tanks for PSLV/GSLV, and HEM thrust transfer structures ensuring mission-critical precision and reliability.

absorbing and deploying contemporary technologies with constant customisation to achieve project completion and an effective flexible manufacturing ecosystem built on a comprehensive ERP System, value engineering, lean manufacturing, adroit material management, information security, environmental compliances and social responsibility.









- **Custom-Built Products & Exports**

SEC's Design and Development team, comprised of inspired talent, leads the charge in new product innovation, tool and fixture design, and advanced process development. Through close collaboration with industry leaders, we create custom-built systems of strategic importance, including the Baro Vacuum Chamber for missile testing, Isostatic press and the Planetary Mixer for mixing solid propellants.

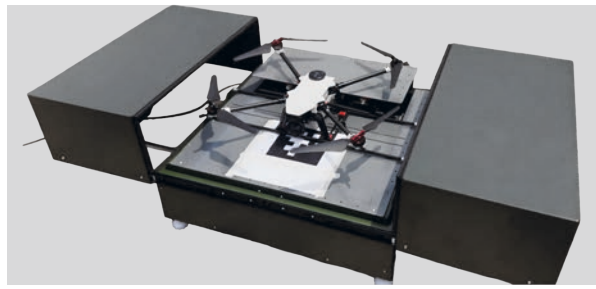
Licensed by the Ministry of Defence under the Offset and Indigenisation programmes, SEC manufactures build-to-spec and build-to-print products for export, passing stringent quality evaluations by overseas customers.

The enormous breadth and depth of the products and projects have nurtured a culture of

- **Autonomous Robotics and Defence Drones**

SEC Industries develops advanced AI-powered drones and ground robots for defence and surveillance. Its portfolio includes throwable surveillance rovers, hybrid aerial-ground reconnaissance systems for GPS-denied areas, modular UAVs for tactical missions, and centralized hubs managing multiple UAV fleets.





- **Advanced Defence Flight Systems**

SEC Industries produces high-performance expendable aerial targets, including India's first twin-jet HEAT system. These drones mimic aircraft or missiles for training, featuring in-house integrated autopilot, payload, parachute recovery, and launcher systems designed for agility, endurance, and easy maintenance.



Coveted Recognition and Future Outlook

SEC Industries has received multiple National Awards that highlight its commitment to advancing indigenous technology, namely :

- Defence Technology Absorption Award (DRDO)
- Research & Development Award (AIMO)
- Successful Commercialisation of Indigenous Technology (Technology Development Board)
- R&D Efforts in MSME (Ministry of MSME)
- Excellent Performance in Indigenisation of Defence Stores (DRDO)

SEC Industries is committed to continuous innovation, leveraging advanced technology and expertise to meet evolving defence, aerospace, and space exploration challenges, while upholding global standards, environmental sustainability, and social responsibility.

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Astra Microwave Products Limited (AMPL)

Riding the Waves of Self-Reliance in Defence Technology

Astra Microwave Products Limited (AMPL) has established itself as a leader in designing and producing advanced electronic systems crucial for national security. Its successful collaboration with ISRO in space technology highlights its expertise in manufacturing space-grade components that meet stringent standards.

Firmly embedded within India's defence manufacturing ecosystem, Astra aligns closely with the Atmanirbhar Bharat initiative to enhance domestic capabilities. Its contributions to electronic warfare and missile technology including the indigenous development of the Extended Digital Log Video Amplifier and radio proximity fuses emphasizes its strategic R&D efforts and cementing its reputation for excellence and reliability.

The company's expansion into private space ventures through Astra Space Technologies signals a new chapter in shaping India's satellite and communication infrastructure. Astra's journey is one of sustained innovation and commitment, securing its role as a cornerstone of India's strategic autonomy and technological self-reliance.

"Its contributions to electronic warfare and missile technology including the indigenous development of the Extended Digital Log Video Amplifier and radio proximity fuses emphasizes its strategic R&D efforts and cementing its reputation for excellence and reliability."

Founding Vision and Mission

Astra Microwave Products Limited (AMPL) exemplifies India's technological advancement, embodying vision, perseverance, and national purpose. Founded in 1991 by three visionary scientists of DRDO Mr.P.A. Chitrakar, Mr. B. Malla Reddy, and Ms. C.Prameelamma Astra was born from an idea ahead of its time: to establish a world-class private enterprise capable of designing and manufacturing advanced RF and microwave systems for defence and space applications.

Initially Astra embarked on the mission to bridge the critical gap between research institutions like DRDO and inflexible public-sector manufacturing units.The vision was to make India self-reliant in high-end defence electronics, fostering innovation and accelerating production capabilities essential for national security.

Early Years and Foundation

From a modest rented facility, Astra commenced operations with a small team of dedicated engineers. The early years were supported by projects from India's burgeoning telecom sector, while the company nurtured its collaboration with DRDO. Its first breakthroughs in telemetry and radar sub-systems laid a strong foundation for Astra's enduring partnership within India's defence ecosystem.

Going Public and Growth

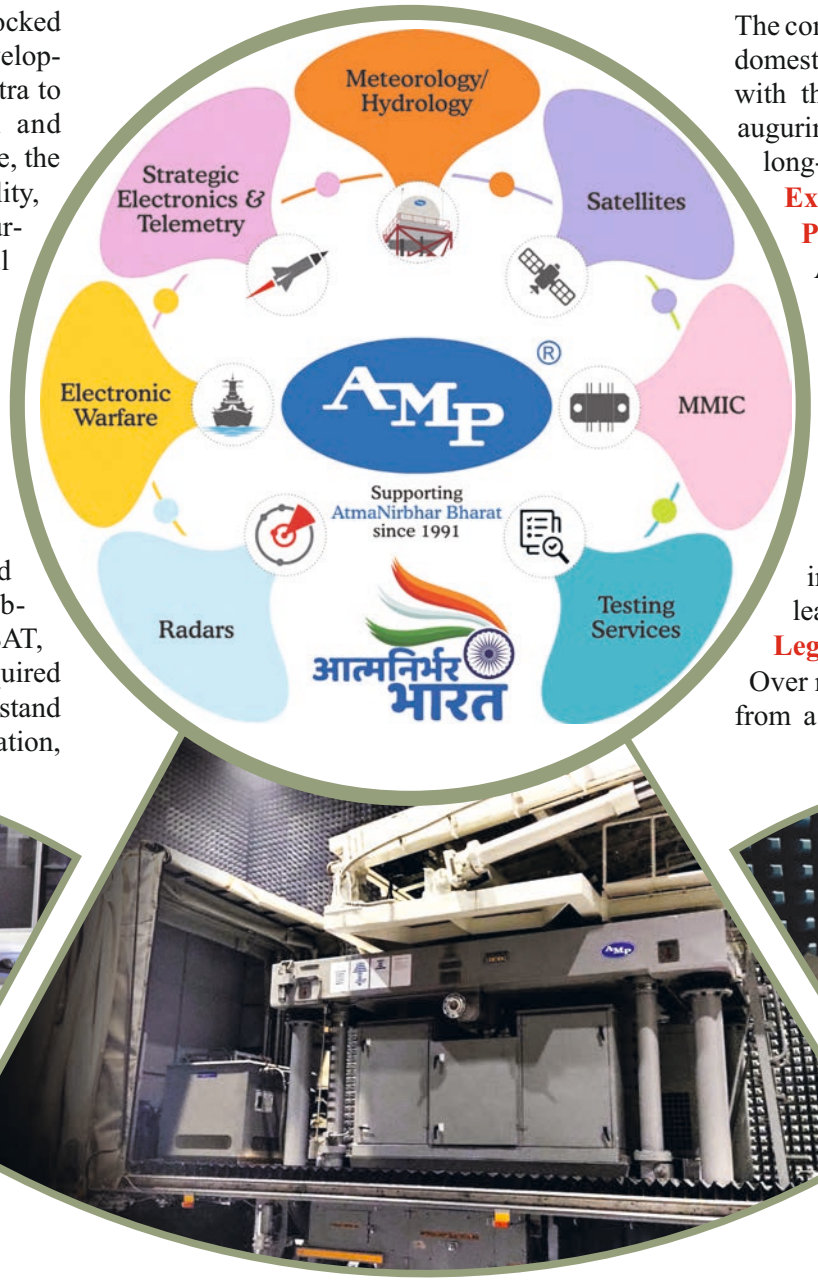
In 1995, just four years after its

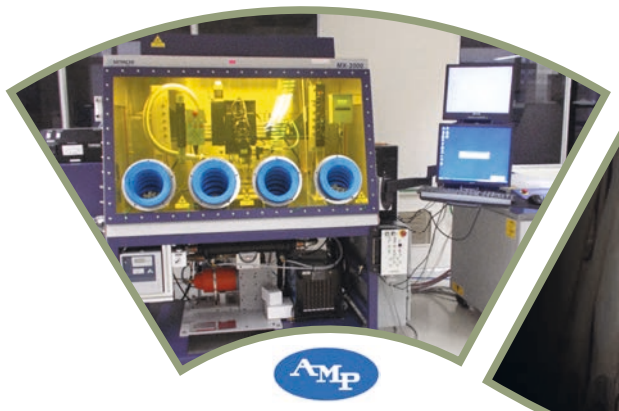


inception, Astra went public.The listing unlocked essential capital that fuelled infrastructure development and R&D investments, empowering Astra to establish comprehensive in-house design and testing capabilities. Over the following decade, the company earned a strong reputation for reliability, technical proficiency, and precision manufacturing. By concentrating on mission-critical systems such as radar components and electronic warfare sub-systems, Astra consolidated its position as an indispensable partner to DRDO and other defence public sector units.

Foray into Space Technology

Astra's foray into space technology was a defining milestone. From 2003 onwards, the company partnered with ISRO to design and produce space-grade components and sub-systems for key satellite missions such as GSAT, INSAT, RISAT, and IRS. This endeavour required exceptional quality as components had to withstand extreme temperature fluctuations, intense radiation, and rigorous launch vibrations. Compliance with ISRO's stringent standards was a significant milestone, distinguishing Astra as one of the few Indian companies capable of delivering reliable hardware that operates flawlessly in orbit.







Contribution to Defence Systems

Astra has significantly advanced India's electronic warfare and missile capabilities by indigenizing key technologies like the Extended Digital Log Video Amplifier (EDLVA), earning national award for import substitution. Its expertise also includes radio proximity fuses for missiles such as Akash, Astra, and PDV, essential for precise detonation and missile accuracy—a crucial technological achievement that was previously imported..

Financial Growth and Market Standing

Astra has experienced sound financial growth. Holding a market capitalization exceeding ₹11,000 crore and strong profitability, the company continues to inspire investor confidence. Recent contracts, including significant radar sub-systems orders from Bharat Electronics Ltd (BEL), underscore Astra's integral role within India's defence manufacturing ecosystem.

The company's strategic emphasis on increasing its domestic business share to 70% aligns admirably with the national Atmanirbhar Bharat initiative auguring for enhanced margins and sustainable long-term growth.

Expanding Horizons: Private Space Sector

Astra's vision extends well beyond defence. Through its subsidiary, Astra Space Technologies, the company has ventured into satellite design, payload manufacturing, and ground-station development. With decades of expertise in space electronics, Astra is poised to play a crucial role in shaping the country's next-generation satellite and communication infrastructure, reaffirming its position as a leader in India's space innovation.

Legacy and Impact

Over more than three decades, Astra has evolved from a small group of scientists into a globally respected technology enterprise. Its journey stands as a testament to the power of patient capital, deep technical expertise, and unwavering national commitment. By mastering technologies once deemed beyond reach, Astra has become a pillar of India's strategic autonomy.

Today, in every radar sweeping the nation's skies, every satellite orbiting above, and every missile defending the country, Astra's legacy endures a symbol of India's confidence, capability, and demonstrated engineering excellence.

Premier Explosives limited

Premier Explosives limited



The Pioneer of India's High-Energy Innovation



Dr. A.N. Gupta
Chairman



T.V. Chowdary
Managing Director

Dr. A. N. Gupta, Founder & Chairman of Premier Explosives Limited (PEL), is a respected figure in India's high-energy materials sector with deep expertise in research and development. As a mining engineer, he earned the 'Pickering and ISM Medals' from the Indian School of Mines, Dhanbad, and a Gold Medal from the Mining Geological and Metallurgical Institute of India. He is a member of the Society of Explosives Engineers, U.S.A., and has advanced high-energy technology in India. Dr. Gupta chaired the Explosives Development Council and the Explosives Manufacturers Association of India, shaping national policies. He has authored important works like “Scaling up of CL-20 production.” He is a recipient of the Asia Pacific Entrepreneurship Award (2015) and an honorary Doctor of Science from Gulbarga University for his scientific contributions.







Company Profile

India's Powerhouse of High-Energy Innovation

PEL was established in 1980, and till the 1990s, it grew as an enterprise developing technologies for explosives and ancillary equipment. Moving on to bulk explosives, packaged explosives, detonators, fuses, and initiating devices, PEL began catering to the mining and infrastructure sectos. In 1993 commercial operations commenced, and by 1995, PEL commissioned PETN and detonating fuse plants, signaling a shift to large-scale production.

Valued at over INR 2600 million, PEL serves the mining, infrastructure, defence, and space sectors. A competent management team at the helm oversees, while skilled sales teams and technical service engineers ensure efficient customer safety and handling.

Growth and Strategic Transition

PEL's R&D centre is recognized by the Department of Scientific and Industrial Research (DSIR). It collaborates with IIT Madras for R&D in high-energy materials. In this aspect, 2003 is a watershed year, for PEL expanded into defence and space, developing solid propellants and high-energy materials at its Peddakandukuru facility in Nalgonda, Telangana. These materials power missile and satellite programs, including Akash, Astra, LRSAM/MRSAM, QRSAM, and Pinaka rockets.

The company also manufactures explosive bolts, pyro actuators, smoke markers, cable cutters, and blazer plates, serving as the exclusive supplier to critical defence projects. Defence and space now account for 80% of PEL's revenue, underscoring its integral role in national security.

A Pioneering Innovator

Premier Explosives' portfolio comprises emulsions and slurry, bulk explosives, detonators, and initiation devices for mining, infrastructure, and defence. It pioneered the world's first commercial detonator using Nickel Hydrazine Nitrate, combining safety with performance excellence. Its commercial explosives line includes bulk, packaged, cast, and emulsion boosters, detonators, and detonating fuses. PEL operates multiple plants across Telangana, Madhya Pradesh, Maharashtra, and Tamil Nadu. It is backed by a vast network of agents and dealers, leading in India and also in exports to Southeast Asia, the Middle East, and Europe.

A Narrative of Resilience and National Pride

Premier Explosives represents India's self-reliance, symbolizing innovation and technological mastery. Inspired by Dr. Gupta's leadership, PEL's influence spans mining, infrastructure, defence, and space, serving as the basis of Atmanirbhar Bharat. These achievements are reiterated in recent milestones: In Q1 (FY 2025–26), PEL achieved a revenue surge to INR 170 billion solely from defence contracts and an 18% increase in exports. The company's strategic investments focus on expanding capacities for vital high-energy materials, including RDX, HMX, TNT, and a major defence-aerospace project in Nagpur reinforces its commitment to the nation's defence sector.

PEL's journey highlights India's manufacturing strength, propelled by visionary technology and enduring national commitment.

PREMIER EXPLOSIVES LIMITED,
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Fax: +91 (40) 27843431
Email:queries@pelgel.com

The Origins and Pathways of Progress





A. Jayaram Reddy
Founder and Chairman

Salvo Industries Pvt. Limited commenced as a trading firm before growing into a diversified explosives manufacturer. Salvo Industries reflects a journey of progress, innovation, and national contribution. Rooted in purpose and guided by vision, the company has evolved to serve India's industrial, mining, and defence sectors with reliability and precision.

Over the decades, Salvo has advanced through disciplined leadership, technological foresight, and commitment to quality. Today, it stands as a symbol of India's industrial maturity and self-reliant defence capability.

A Leadership Guided by Grit

Mr A Jayaram Reddy, Chairman of Salvo Industries Pvt. Ltd., exemplifies perseverance and hands-on leadership. Beginning his career at the ground level, he advanced through practical exposure and resilience, shaping his impact on the company's progress.

In 1982, he forayed into the explosives trade, laying the foundation for what would become Salvo Industries Pvt.Ltd., His decision in to acquire the non-viable Salvo Explosives and Chemicals Pvt. Ltd. demonstrated his ability to turn adversity into an opportunity. Through concerted reorganisation, process improvements, and workforce developments, he transformed the unit into a productive enterprise. The relocation of the manufacturing unit to Ankireddypally, Telangana, further strengthened productivity and logistics.Salvo diversified its production lines to include Detonating Fuse, Cast Boosters, PETN, Bulk and Small-Diameter Emulsion Explosives. The company consolidated its national manufacturing footprint with expansions across Chhattisgarh, Odisha, and Madhya















Pradesh, and future units earmarked in Maharashtra and West Bengal.

A defining milestone arrived in 2019 with Salvo's strategic entry into the defence explosives sector, aligning with India's thrust on indigenous manufacturing and technological self-reliance under Atmanirbhar Bharat.

Leadership in Action: The MD's Domain

Mr. A.Shyam Sunder Reddy, Managing Director, brings over two decades of specialised experience spanning industrial, mining, and defence explosives. His professional background in business administration and energetic materials marks his leadership with innovation and insight.

He played a pivotal role in strengthening operations and establishing new verticals especially in defence sector under guidance of the Chairman. He directed Salvo in establishing collaborations with DRDO and executed multiple Technology transfer projects, manufacturing and qualifying defence-specific compositions and devices. As a Development-cum-Production Partner and participant in Government-Owned, Company-Operated programmes, the company emerged as a trusted contributor to India's indigenous defence ecosystem. He also spearheaded Salvo's foray into the space domain, developing energetic materials for launch and propulsion systems.

Expanding from Industry to Defence

Beginning with initiators for Bharat Dynamics Limited (BDL), Salvo soon expanded its product scope to include advanced initiatory explosives and initiation systems for missile applications. Multiple technology transfer projects with DRDO laboratories yielded the development of high-energy materials, warhead components, and solid rocket propellant formulations. Further, Salvo collaborated as a Development-cum-Production Partner and participant in Government-Owned, Company-Operated programmes. The company's capabilities now extend across industrial, mining, defence, and space applications, supporting India's armed forces and propulsion programmes while contributing to defence exports. Today, Salvo stands as the third-largest defence explosives manufacturing company in India in private sector, recognised for its technological expertise, commitment to quality, and dedication to national service.

Credibility Built on Competence

Salvo Industries upholds uncompromising standards of quality, safety, and compliance. Its manufacturing facilities are equipped with advanced systems that adhere to national and international benchmarks. Every product undergoes stringent testing and validation, ensuring performance reliability under demanding conditions. Industry certifications and institutional recognitions underscore the company's credibility as a trusted partner.

Shaping Tomorrow's Energetics

Looking ahead, Salvo Industries Pvt. Ltd., remains focused on innovation, capacity enhancement, and technology integration. The company envisions deeper engagement across defence domains with a focus on innovation, safety, and self-reliance. Salvo continues and endeavours to play a pivotal role in strengthening India's defence preparedness.

Salvo Industries Pvt. Ltd.,

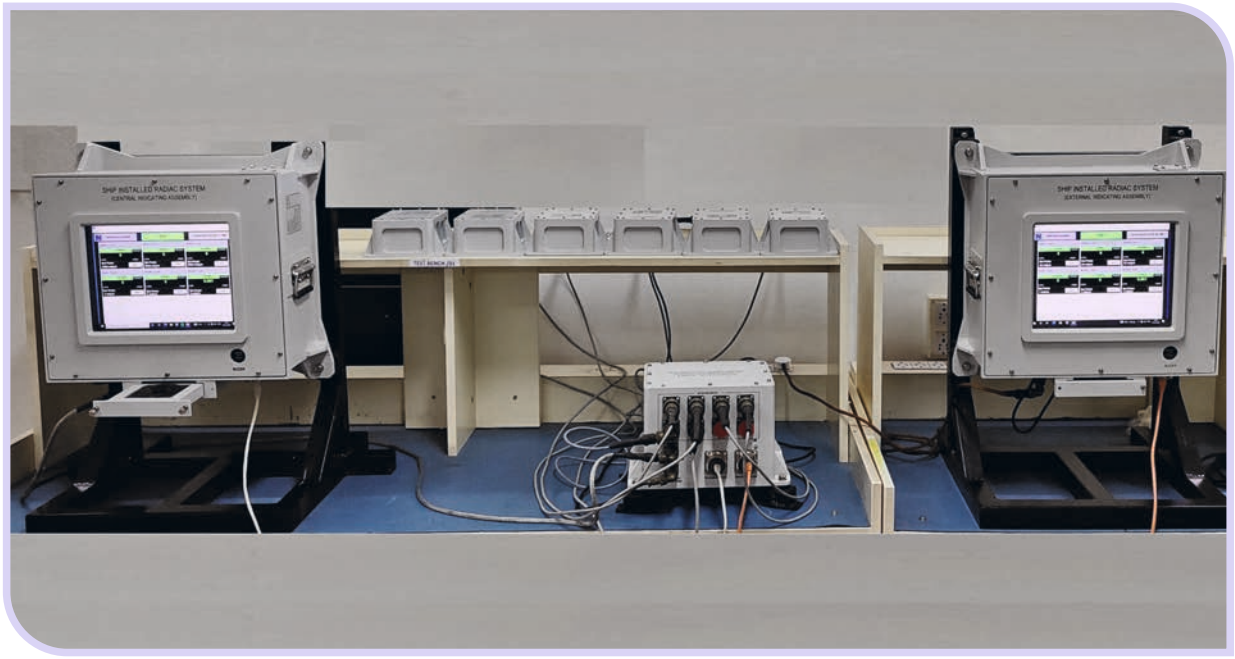
Sri Malani Enclave, Plot No. 17, Ward No 7
Secunderabad, Sri Nagar Colony, Tirumalagiri,
Secunderabad, Telangana 500015



Nucleonix Systems



J. Narender Reddy
Founder and Managing Director
B.E., M.Tech. (Advanced Electronics)



Excellence in Nuclear Instrumentation



J. Dheeraj Reddy
Director - R&D.
B.Tech (ECE)



J. Nishanth Reddy
Director - (IT & Defence)
B.E., MS (Nuclear Engineering)

Nucleonix Systems is a leading Indian enterprise specialized in the design, development, manufacturing, and supply of nuclear radiation measuring instrumentation. Founded in 1990, the company has earned recognition for its indigenous product design capabilities, reliability, and consistent quality standards.

Over the past three decades, Nucleonix has made significant contributions, enhancing India's capabilities in nuclear instrumentation and measurement, supporting national programmes in research, industry, healthcare, and defence.

Its growth mirrors the broader progress of Indian engineering, from foundational research to strategic defence systems, anchored in technical expertise and sustained innovation.

Guiding India's Nuclear Edge

The leadership of Nucleonix Systems has shaped the company's growth with a deep technical ground and strategic clarity.

Mr J. Narender Reddy: **Founder and Managing Director**. B.E., M.Tech. (Advanced Electronics).

With over 30 years of experience in nuclear instrumentation management and technical roles, he spent nine years at DAE (ECIL). Life Member of INS, IARP, ISRP, AMPI, and LSI. He presented number of technical papers at national symposia, workshops, and conferences; authored a few technical publications; executed large-scale projects; and developed several products.

Mr J. Dheeraj Reddy: Director R&D. B.Tech (ECE). Over 20 years of R&D experience underpin his design and development of products in conformity with international and defence standards. He has presented papers at various seminars. He focuses on the nuclear market for business and growth domestically and internationally.

Mr J. Nishanth Reddy: **Director (IT & Projects)**. B.E., MS (Nuclear Engineering). Brings in 20+ years in international business, project management, and product development. He has developed the NXG Instruments platform and integrated CBRNE solutions for military and civilian applications and has published papers in Nuclear Instruments & Methods. He leads defence business strategies.

Roots of Indigenous Ambition

Founded in 1990 in Hyderabad, Nucleonix Systems aims to develop import-substitutes in nuclear radiation measuring instrumentation for India's self-reliance. Operating from a state-of-the-art facility, the company employs a multi-disciplinary team of engineers, scientists, and product designers.

Over the decades, Nucleonix Systems expanded into university research, nuclear power, medical, industrial, defence, and homeland security. Nearly 95% of products have been developed based on its in-house R&D capability and rest have been manufactured based on technology received from BARC and DRDO, advancing India's technological self-reliance.



Important Verticals

Nucleonix Systems excels across multiple verticals where radiation measurement is vital. Each product reflects the company's precise measurement solutions across scientific, industrial, and operational environments. Its range includes:

- **Products for Nuclear Education & Research**
- **Nuclear Fuel Cycle**
- **Health Care (Cancer Hospitals & Medical Cyclotron Facility, PET - CT centers)**
- **Industry Segment (For Radiation Protection Instruments)**
- **Metal, Steel, Foundry & Food Processing Industries - Detection & Measurement of Radioactive Contamination (RaC)**
- **Defence / Home Land Security / Nuclear Disaster Management**
- **Integrated CBRN Detection Systems**



Shielding the Nation's Core

Nucleonix Systems contributes to India's defence and homeland security through collaborations with DRDO. It manufactures RADMAC, ACU, and integrated CBRN detection systems. The company also supplies survey meters, contamination monitors, area monitors, and TLD badge readers for the Indian Navy.

Its design philosophy is inherently modular and adaptive, enabling integration across recce vehicles, fixed installations, airborne platforms, and naval systems. The company also operates Radiation Calibration Laboratories, accredited to NABL and used for both in-house calibration and customer support services, reaffirming its technical credibility.

Pillar of Proven Eminence

Recognition for quality, innovation, and reliability has followed Nucleonix since its inception. Its certifications from national laboratories and partnerships with premier research institutions commemorate a legacy built on trust and precision. Each accolade reinforces the company's role as a pillar of India's scientific infrastructure, one that continues to power the country's progress in nuclear instrumentation and defence readiness.

Nucleonix Systems Pvt.Ltd.

Plot No 162, A & B, Phase II,
Cherlapalli, Hyderabad,
Telangana 500051. India.
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raghuvamsi

Raghu Vamsi Aerospace

Precision in High-Technology Manufacturing



Raghu Vamsi Aerospace Group was founded in 2004. Over the years, it has excelled in precision components and sub-assemblies for global OEMs, including Boeing, Rolls-Royce, GE Aviation, Honeywell, and Collins Aerospace. Capabilities span CNC machining, sheet metal fabrication, composites, electronics, electro-mechanical assemblies, welding, and surface coatings. Focused on aerospace, defence, space, and UAV technologies, it also serves industrial, medical, oil & gas, and energy sectors. It holds AS 9100 D, ANSI, and NADCAP certifications.

Leadership and Vision

The company's journey began with Mr G. Thrimurthulu's expertise in power transmission and precision engineering. After his passing in 2004, his son, Mr Vamsi Vikas Ganesula, took over at age 22. He transformed Raghu Vamsi from a precision components business into a leading aerospace systems integrator, driving milestones like micro-turbojet engine development, global joint ventures, and new manufacturing capacity.



Vamsi Vikas Ganesula
Managing Director and Founder

Mr Vamsi Vikas holds an MBA from IIM (Kolkata) and a Bachelor's in Electronics & Communications Engineering from JNTU Hyderabad.

Growth and Milestones

Founded as Subha Industries in 1984 for power transmission, the business evolved into precision castings and machining by 1998. In 2002, CNC manufacturing began at a facility in IDA Gandhi Nagar with HAL partnerships. When Mr Vamsi Vikas Ganesula took over, he introduced ISO 9001 certification and HAL component supplies. The Bharat Gourav Award was achieved in 2006, exports to Halliburton and WIKA commenced in 2007, and AS 9100 certification was secured in 2008.

By the 2010s, the company earned Best Vendor awards from HAL and GE Aviation and formed the ITP Aero joint venture for aero-engine fittings with NADCAP processes. Partnerships with Rockwell Collins, UTC Aerospace, and DRDO, expanding into defence subsystems. Further growth included a specialised sheet-metal facility, composites via



Comprotech acquisition, and WMT USA acquisition for aero-engine fuel nozzles with advanced brazing and EDM technology. The Skanda joint venture with Rave Gears (USA) launched precision gears for aerospace and military use.

Recent expansions focus on indigenous military drones and loitering munitions advanced robotics through ARROBOT, and INDRA micro turbojet engines developed with academic and defence collaborators. The ₹300 crore integrated aerospace facility near Hyderabad and strategic international acquisitions consolidate the group's position in high-technology engineering worldwide.

Core Competencies & Verticals

Raghu Vamsi excels in CNC precision machining with micron-level tolerances, sheet metal fabrication including high-temperature alloys, composites manufacturing, electro-mechanical assembly, and complex NADCAP-certified surface treatments. The engineering team drives continuous improvement, process efficiency, and design-for-manufacture initiatives, supported by lean practices and real-time ERP, ensuring high quality, timely delivery, and scalable operations across aerospace, defence, UAV, robotics, and space technology sectors.

Cutting-edge Solutions

Raghu Vamsi produces essential aerospace components, including engine seals, bearing housings, fuel nozzles, turbine discs, landing gears, and avionics subsystems. Defence products include missile subsystems, micro turbojet engines for UAVs, loitering munitions, and laser seekers. Robotics innovations lead with automated mobile robots, collaborative robots, unmanned ground vehicles, and advanced targeting systems. Space technologies cover ball-lock separation systems, exhaust liners, parachute chassis assemblies, and rigging adapters. The INDRA engine series exemplifies its commitment to indigenous propulsion.

Certifications &Accolades

The group maintains AS 9100 D, NADCAP, and ISO 9001 certifications. It has received the Bharat Gourav Award (2006) and Bharat Vikas Ratan Award, and the Best Vendor recognitions from HAL (2010) and GE Aviation (2015). These honours reflect its adherence to global quality standards and endorsements from leading aerospace OEMs and defence agencies.

Steadfast Commitment to Self-Reliance

Raghu Vamsi Aerospace Group, under his visionary leadership, has evolved from precision manufacturing to a leader in indigenous aerospace innovation, with achievements such as the INDRA engine and ARROBOT. Strategic investment and acquisitions support India's pursuit of self-reliance and strengthen the group's global position.

Locations

Corporate Office:
Raghu Vamsi Machine Tools
60/A, Gandhi Nagar,Ranga Reddy-500037

Manufacturing Unit
Plot #26/A, Hardware Park
Srisailam Highway, Hyderabad-500005

Aditya Precitech Private Limited

A Legacy of Precision and Purpose



K Naga Venkateswar Rao
Founder and Managing Director

Aditya Precitech's story is one of steady growth and technical skill. Founded in 1996, it began as a supplier of refrigeration parts. Over time, it expanded into defence and aerospace, becoming a key player in precision engineering. Strong leadership and skilled teams have led the company to build lasting partnerships and a reputation for quality. Today, it continues to advance India's defence capabilities through development and reliable manufacturing.

The Rise to Industrial Stature

Aditya Precitech began as a supplier of refrigeration and air conditioning parts. In 2004, it became a private limited company. Over the last three decades, the company has evolved from producing general engineering parts to manufacturing precision components, including fuel pump bodies, valve bodies, injector plates, landing gear parts, and launcher bodies. It expanded into sub-assemblies, including airframe assemblies, rocket motor casings, control surface wings and fins, jamming pod structures, ignition-safe arm systems, and air intakes. Assemblies include electromechanical actuators and dual-voltage BLDC generators, along with launchers and canisters for defence and aerospace.

Leadership That Drives Excellence

Aditya Precitech is led by Mr K Naga Venkateswar Rao, Founder and Managing Director. He is a visionary leader with over 35 years of extensive experience in the manufacturing industry. He has driven the company's growth from its early days into a trusted partner of major defence and aerospace organisations. Known for his deep industry knowledge and strategic foresight, he leads a team exceeding 500 professionals. His leadership style emphasises innovation, operational excellence, and customer focus, positioning Aditya Precitech as a preferred production partner for prominent entities such as DRDO, Bharat Dynamics Ltd, HAL, BHEL, BEL, ISRO, and Adani Defence. Under his guidance, the company has strengthened its capabilities and market presence across the public and private sectors.

Mastery in Advanced Manufacturing

Aditya Precitech's manufacturing process has transitioned from 'built-to-print' to 'built-to-spec', harnessing cutting-edge technology, including CNC turning, 4-axis and 5-axis milling, wire and die-sinking EDM, precision grinding, deep hole drilling, and TIG welding. The company ensures aerospace-grade heat treatments and surface finishes. Integrated CAD/CAM workflows using SOLIDWORKS and Delcam Power Mill optimise production and uphold strict quality controls. Advanced inspection technologies such as Coordinate Measuring Machines and non-destructive testing guarantee precision and reliability in critical defence and aerospace applications.



Diverse Products Powering Defence

Aditya Precitech offers a wide product portfolio for the defence and aerospace sectors, including mechanical assemblies, electromechanical actuators, digital controllers, and RF proximity fuzes. The products range from rocket motor casings (178 to 550 mm diameter), airframes, thrust control motors, control fins, to integrated control systems. It also produces key components for satellite communications, such as stabilised C and Ku band antennas and Satcom-On-The-Move units. Additionally, the company manufactures advanced launchers, canisters, and electronic warfare systems.

Global Partnerships Enabling Local Production

Aditya Precitech has formed Avision Systems Private Limited, Adibatla, Hyderabad, a JV with Uvision Air Limited, Israel in 2020 for manufacture and supply of loitering munitions. The joint venture has supplied already supplied loitering munitions in the year 2023-24. In the current year the JV will be supplying additional quantity of loitering munitions to the Indian Army and Indian Navy.

Further, Aditya Precitech has formed Blue Horizon Strategic Engineering Private Limited, Pashamylaram, Hyderabad, a JV with Elbit Systems Limited, Israel in the year 2021 for manufacture and supply of 30 mm Naval Surface Guns and Range Extension Kits to Indian Navy and Indian Airforce.





Quality Certifications and Industry Recognition

Aditya Precitech maintains rigorous quality standards through ISO 9001:2015 and AS9100-D certifications, complying with MIL-STD, DO-160, and EMC requirements. It holds DGQA approval and ISO/IEC 27001:2022 certification for information security. Active registrations with NSIC, MSME, Government e-Marketplace, and export authorities affirm its market credibility and reach. Industry honours such as the 2023 Defence Excellence in Quality, 2022 Aerospace Supplier of the Year, and 2021 Innovation Award reinforce its reputation as a leader in manufacturing innovation and excellence.

Navigating Tomorrow's Frontiers

Aditya Precitech's growth strategy focuses on advancing technology, expanding organically, and making acquisitions. Its dedicated R&D team develops new aerospace materials, improves manufacturing processes, and creates customised products to meet client needs. With a clear focus on innovation and quality, the company is set to strengthen its role as a key contributor to India's strategic industries, promoting self-reliance and technological progress.

Aditya Precitech Private Limited

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TGIIC Rd, Mythri Nagar, Kukatpally,
Hyderabad, Telangana 500072
www.adityaprecitech.com

AARAN 1 ENGINEERING
"Precision in Performance, Excellence in Engineering"

AARAN 1 ENGINEERING PVT. LTD



Excellence in Aerospace Engineering and Leadership

Gavin Price
Managing Director

Mr Gavin Price is the Managing Director of AARAN 1 Engineering Pvt Ltd, located in Hyderabad, India. He hails from Coventry, United Kingdom, a city known for its engineering and manufacturing heritage. In 2010, he arrived in India for a short-term assignment, which ultimately ignited his entrepreneurial journey. In the course of time, he recognised the country's growing potential in precision engineering when others only saw challenges.

In 2011, Mr Gavin Price led the V2500 engine joint venture, supervising program management, process transfer, and supplier coordination. Later, as Managing Director of a Pune-based automotive castings company, he transformed its operations, reinforcing his belief that precision is a mindset and India deserved its own success story.

Driven by this belief, Mr Gavin Price founded UPR Engineering and entered a joint venture. Realising the need for a more scalable, agile, and efficient enterprise aligned with his principles, he exited the joint venture and founded AARAN 1 Engineering in 2017. This move reiterated his conviction and commitment to India's self-reliance and global excellence in engineering.

He started with five machines and focused on the developing aerospace sector. Drawing from his early experience in metal cutting at Coventry, he emphasised quality over quantity. By 2018, the company had expanded to 55 machines and implemented automation and process discipline.

Today, AARAN 1 operates with over 65 advanced machines, robotic integration, and a skilled workforce of more than 250 employees. The company is recognised as Asia's first Rolls Royce SABRe 3-grade precision engineering manufacturer and the certified supplier to top original equipment manufacturers (OEMs) such as Rolls



Royce, GE Aerospace, Spirit AeroSystems, CIRCOR, Eaton, and Baker Hughes across aerospace, oil and gas, and medical sectors.

Core Expertise and Operating Verticals

AARAN 1 Engineering excels in high-precision CNC (Computer Numerical Control) machining, robotic integration, and the production of tight-tolerance, high-mix (many different parts), low-volume (small quantities) parts across aerospace and non-aerospace sectors, including oil & gas, medical, automotive, wind energy, sensors, and sporting goods. Its advanced processes include 5-axis machining, EDM (Electrical Discharge Machining), wire cutting, and comprehensive in-house assembly. Trusted by leading OEMs for mission-critical components, AARAN 1 consistently sets industry benchmarks for quality, reliability, and efficient worldwide supply chain management.

Precision Engineering in Action

AARAN 1's product portfolio showcases engineering superiority through intricately machined engine components (elbows, adaptors, 'T' pieces, connectors, reducers, 'Y' pieces), structural aircraft parts (large rings, flanges, brackets, valve blocks), SBAC-certified specialist fittings, precision positional gauges, hydraulic manifolds, tight-tolerance medical devices, and custom assemblies.

Continuous investment in CAD/CAM and advanced machinery within climate-controlled facilities has ensured high standards and cost competitiveness, while custom-designed fixtures and tools have enhanced its ability to meet complex customer specifications with accuracy and consistency.

Complementing these capabilities, AARAN 1 Special Process, a specialised finishing division established in 2024. The core expertise encompasses anodising, passivation, chemical conversion coatings, and surface preparation treatments, all executed under rigorous process controls. Adhering strictly to aerospace compliance standards, AARAN 1 Special Process delivers repeatable quality, superior corrosion resistance, and enduring durability for flight-critical components. Equipped with calibrated instrumentation, certified procedures, and skilled technicians, this division offers reliable, specification-compliant solutions for the most demanding applications.

Innovative Leadership, Enduring Impact

Mr Gavin Price's entrepreneurship is a testament to the conviction that precision knows no borders. Through his leadership, he has transformed AARAN 1 into a benchmark for manufacturing excellence—a company where 'quality-first values' empower talent, drive process innovation, and set new industry standards. Today, Mr Gavin Price has shown that India can lead with precision, quality, and world-class capability. Eight years after its founding, AARAN 1 Engineering has become one of India's eloquent success stories in aerospace engineering.







AARAN 1 Engineering PVT.LTD.
Plot no. 18/B/3, survey no: 148,
Automotive Park, Kallakal village, Toopran
Mandal, Medak, District - 502336

RAPS

Ramesh's Aerospace Products & Services Pvt. Ltd.

A Journey of Innovation & Excellence in Aerospace



Mr. A. Ramesh Babu, a seasoned Mechanical Engineering professional, began his career with Sri R. Chandramohan, Proprietor of M/s RAP. Over 26 years, he honed his expertise in design, development, thermal insulation, ablative, structural composite materials and products for Defence and Space applications, building strong relationships with scientists from DRDO Labs and ISRO centres.

In July 2019, driven by a vision to contribute to India's aerospace sector, he founded Ramesh's Aerospace Products & Services Pvt. Ltd. (RAPS) with just two employees. In a short span of five years, RAPS has grown exponentially employing 230+ people directly and over 100+ indirectly operating six state-of-the-art manufacturing units in Veerapanenigudem, Vijayawada and maintaining five work sites across DRDO laboratories, ANSP, CPDC and ASL (Hyderabad), ACEM (Nashik) and SDSC SHAR (Sriharikota). This remarkable growth has been supported by an experienced workforce and strong financial backing from M/s. Mudra Ventures, Hyderabad a group of visionary investors with expertise in pharmaceuticals, semiconductors, hospitality, sports and infrastructure.

Key Achievements:

- 536+ Motor Casings and Nozzle End Domes with Thermal insulation lining
- 437+ Nozzle Assemblies (33 mm to 1786 mm exit diameter-FNS)
- 55+ Composite Rocket Motor Casings (CRMC)
- 34+ Composite Jet Deflectors
- Products deployed in 25+ flight tests and 50+ static tests, showcasing technical excellence, timely delivery and ethical practices
- Entrusted by DRDO to manufacture India's largest 2.4-meter Composite Rocket Motor Case (U/P), Flex Nozzle System and Composite Jet Deflector successfully delivered
- Designed and developed the Hybrid Composite Air Droppable Container (ADC-150) for NSTL, Visakhapatnam in collaboration with DRDO and Siddhartha Educational Group, Vijayawada



Culture and Certifications

- RAPS fosters a professional yet employee centric work culture, offering:
- Equity shares for employees
- Annual medical check-ups
- Educational allowances for children
- Family health insurance
- Canteen facilities
- Up to three annual performance-based bonuses
- Performance based incentives

The company is certified with ISO 9001:2015, AS9100D, SAMAR Level-II, ISO 45001 OH & S and pursuing ISO 13485 (International Standard for Quality Management System for medical devices) certification.

Other Engagement

- Developing a composite prosthetic foot with DRDO and AIIMS Hyderabad for physically challenged individual under CSR programme.
- Conducting technical skill development programs for ITI, Diploma and Engineering students empowering rural talent.
- Collaborating with IIT Chennai, NIT Raipur, and Siddhartha Educational Group as a development partner.

In its first five years, RAPS has executed several development orders for DRDO laboratories in Hyderabad, Pune, Jagdalpur and Nashik, as well as for ISRO centres at Sriharikota and VSSC, Thiruvananthapuram. The company is also executing production orders from prestigious organizations including SDSC-SHAR, Bharat Dynamics Ltd., BrahMos Aerospace Pvt. Ltd., BEML, TATA Advanced Systems Ltd, Aditya Precitech Pvt. Ltd., and Skyroot Aerospace Pvt. Ltd.

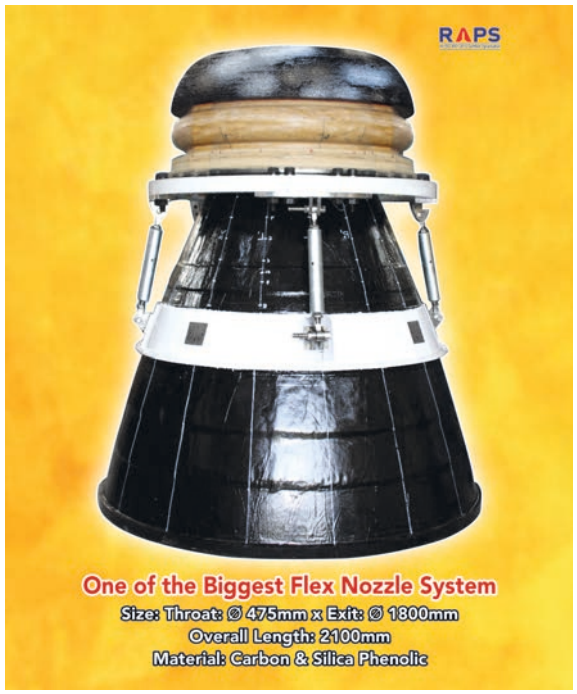
Global Footprint and Future Vision

RAPS has entered the international market, supplying development products to RAFAEL, Israel, and exploring joint ventures with global companies under the Make in India initiative. To the best of our knowledge, RAPS is the only Indian company to have successfully developed and manufactured the following with support of DRDO Labs.

- Low-weight in-situ composite guide rail launch tubes
- Hybrid Composite Air Droppable Container (ADC-150)
- Largest Composite Jet Deflector Assembly and Flex Nozzle System.

RAPS has a strong and dedicated R&D team with extensive experience in Defence and Aerospace technologies. The team has developed its own Towpreg, Prepreg, Rubber, composite materials and products are supported by a strong technical





group that includes former DRDO and ISRO scientists. The company continues to align its work with international aerospace standards for advanced product development.

RAPS achievements are made possible through continuous innovation and a robust network of local ancillary units. RAPS actively encourages rural talent and provides opportunities even to individuals with limited education.

RAPS is today a unique and leading organization in the Defence and Aerospace sector in Andhra Pradesh steadily progressing toward becoming an all-under-one-roof, world-class solution provider for launch vehicle subsystem manufacturing. The company also supports start-ups by sharing knowledge, resources and technical guidance inspired by its own successful growth journey.

With a strong R&D team and proprietary material, process, product development capabilities, RAPS is poised to meet future requirements for composite products up to 2.5 meters in diameter and 11.5 meters in length aiming to become a one-stop solution for launch vehicle subsystems.

RR Industries







At the Pinnacle of Composites







RR Industries, established in 1999 by Ms V. Kamala Kumari in Hyderabad's Kukatpally Industrial Estate, began designing defence composites, foraying into fibreglass, phenolic resins, rockets, and FRP fabrication. Under Chief Executive Officer, Mr V. Srinivasa Rao, progress accelerated through strategic R&D and collaborations, transforming the firm into a key DRDO,ISRO and DPSU's partner in the supply of Radomes, Thermal Protection Liners, Composite Rocket Motor Casings & various Composite Structural Components.

By the 2020s, RR Industries expanded to employ over 250 personnel and demonstrated proficiency in autoclave processing, CNC filament winding, Resin Transfer Moulding (RTM), Resin Film Infusion(RFI), compression moulding, and matched die moulding for aerospace-grade components. Notable products include Radomes for missiles,Rocasin & EPDM Linings for Rocket & Missile motorcasings, Nozzle Liners,Composite Rocket motor casings in carbon & Kevlar, LCA & ALH structural composite and various Naval based components.



DRDO Ties: Radomes to Rockets

RR Industries forges vital DRDO partnerships. It collaborates with Hyderabad's Defence Research & Development Laboratory(DRDL) Defence Electronics & Research Laboratory (DLRL), Naval Science & Technology Lab Networks (NSTL) in Vizag, Electronics & Radar Development Establishment (LRDE) in Bangalore, Vikram Sarabhai Space Centre(VSSC) in Trivandrum, Research & Development Establishment (Engineers) R&DEE, Armament Research & Development Establishment (ARDE) in Pune , etc on advanced composite materials, Missiles and Naval applications.



V.Srinivasa Rao
CEO

Innovations Defending Sovereignty

RR Industries delivers cutting-edge composites tailored for defence, aerospace, and security, emphasising lightweight durability and thermal resistance. These offerings stem from advanced moulding and winding techniques that meet rigorous DRDO specifications and directly support national self-reliance. RR Industries holds AS9100 certification, validating its composites for aviation, space, and defence uses at its Kukatpally and Kothur facility.

Radomes

Thin-walled, thick-walled, honeycomb, and sandwich radomes with syntactic foam to protect antennas in aircraft ,Naval and ground systems. These ensure radar signal transparency and environmental shielding.

Ablative and Thermal Liners

Ablative liners provide thermal protection in missiles & rockets combustion chambers and thrust control nozzles high temperature liners.

Antennas

Various Antennas systems in DF, comint systems with easy of mechanical solutions by giving light weight & good elegant look for various ground & naval systems.

Stealth

Developed various composite components in association with DRDO for stealth composites used in Naval application bringing required stealth properties.

Composite Rocket Motorcasing & Launch tubes:

RR Industries produces advanced composite rocket motor casing & launch tube using CNC filament winding technique for meeting light & structural rigid with high pressure composite components used in Aerospace & Military sector.

RR Industries emerges not only in manufacturing composite products but also into the machinery that are used in the process manufacturing equipment for the internal use with complicated systems and processes involved in meeting the end solutions.

Assurance of Efficient QMS

RR Industries employs AS9100, an aerospace-specific QMS extending ISO 9001. It ensures process controls, traceability, and risk management for composites at Kukatpally. AS9100 governs the design, production, and inspection of radomes, ablative liners, and structural components. It mandates configuration management, counterfeit prevention, and first article inspection for DRDO parts.

Trajectory of the Future

RR Industries charts a promising trajectory, leveraging the DRDO partnerships to scale composite production for Missiles. Deepening innovations in radomes, ablative liners, and composite motor casings align with Atmanirbhar Bharat and enhance national security through special manufacturing processes and scalable solutions.

RR Industries

Mythri Nagar, Kukatpally,
Hyderabad, Telangana

CONSTELLI®







Satya Gopal Panigrahi (Co-Founder & CEO)
Avinash Chenreddy (Co-Founder & CTO)

Signals of Sovereignty in Modern Defence

Constelli Signals is a next-generation technology enterprise headquartered in Hyderabad, with a growing presence in Bengaluru. The company operates at the forefront of smart and strategic Electronic Intelligence signal processing, addressing some of the most complex challenges faced by the defence and aerospace sectors today.

Constelli's expertise spans the complete lifecycle of mission systems from advanced research and development to deployment in mission-critical environments. Its solutions range from tactical communication platforms and telemetry systems to sophisticated radar and electronic warfare architectures, all designed to operate with precision, speed, and resilience in modern warfare scenarios.

An Engineering-First Philosophy

At the core of Constelli's success lies an engineering-led approach that blends innovation with discipline. The company accelerates the design, development, and deployment of Electronic Intelligence systems using AI-enabled toolchains and rigorous validation frameworks. Advanced in-lab modeling and simulation environments enable early performance evaluation, reducing dependency on extensive field trials and minimizing costly late-stage iterations.

By integrating intelligent, autonomous, software-defined capabilities into RF sensor development, Constelli delivers scalable, mission-ready systems with enhanced confidence prior to deployment. This methodology shortens development cycles while

maintaining uncompromising performance standards.

Mission with Purpose

Constelli's mission is to deliver next-generation smart and strategic Electronic Intelligence systems from design to deployment critical to modern warfare. The company is committed to supporting the global defence community by overcoming program delays, accelerating innovation, enabling confident deployment, and ultimately contributing to the protection of lives in high-risk operational environments.

Culture Rooted in People and Progress

Constelli places strong emphasis on culture, values, and people. The organization fosters an open and collaborative environment where communication, knowledge sharing, and accountability are actively encouraged. Engineers are empowered with both freedom and responsibility, enabling creativity, ownership, and continuous professional growth.

This culture is strengthened by a leadership and engineering team that brings decades of collective experience across defence, aerospace, radar systems, telemetry, and electronic intelligence, ensuring technical depth alongside strategic clarity.

Indigenous Innovation for Strategic Autonomy

A defining milestone for Constelli is the development of a fully indigenous telemetry receiver and decommutation system, powered entirely by in-house designed IP blocks and validated through extensive scientific research. The system integrates core telemetry functions including demodulation, decoding, synchronization, and decommutation into a secure, customizable, and sovereign solution.

This achievement addresses a critical capability gap and represents a significant step toward national self-reliance in mission-critical telemetry infrastructure.



Three Pillars Supporting the Mission Lifecycle

Constelli's offerings are structured across three solution pillars—Electronic Warfare, Radar, and Telemetry & Communications reflecting how signal processing supports the full mission lifecycle from planning and validation to execution and post-mission analysis.

In **Electronic Warfare**, Constelli delivers complete surveillance and processing solutions, including advanced EW processors capable of handling raw IQ data through to real-time track formation using high-speed algorithms tailored for evolving threat environments.

In **Radar**, the company provides end-to-end solutions ranging from radar target and echo simulators to deployable drone-based radar payloads. These systems support validation, training, tactical surveillance, and airborne ISR missions with real-time performance and operational flexibility.

In **Telemetry and Communications**, Constelli offers a comprehensive portfolio spanning ground-based, onboard, satellite, and drone telemetry systems. Notably, the company introduced India's first IRIG-standard digital telemetry receiver, setting a benchmark in high-fidelity data acquisition and reliable mission communication.

Leadership Driving Vision

Constelli Signals is led by its co-founders **Satya Gopal Panigrahi (Co-Founder & CEO)** and **Avinash Chenreddy (Co-Founder & CTO)** who bring complementary strengths across strategy, execution, and deep engineering. Satya, an alumnus of **BITS Pilani** and the **Stanford Graduate School of Business**, co-founded Constelli in **2017** with Avinash, also an alumnus of Stanford Graduate School of Business driven by a vision to build high-end Electronic Intelligence Systems for domestic and global defence needs. Avinash brings **10+ years** of expertise in architecting and developing **Radar & EW simulators, telemetry systems, and wireless communication platforms**, and leads the company's technology roadmap focused on scalable, high-performance, indigenous solutions. Together, they drive Constelli's commitment to mission-ready innovation, rigorous product quality, and accelerated deployment for modern defence and aerospace applications.

Validation and Recognition

In January 2025, Constelli raised USD 3 million in a pre-Series A funding round led by Pravega Ventures to expand R&D, product development, and market reach. The company has also received national recognition, including the ELCINA "**Startup Shakti**" Award and the DRDO SAMANVAY **Best Ideation Award**, reinforcing its role as a strategic contributor to India's defence ecosystem.



IPOG Industrial Technologies



A Tryst with Vision and Value

IPOG Industrial Technologies is located in the Industrial Development Agency (IDA) zone, Patancheru. A distinguished enterprise, IPOG seamlessly integrates mechanical excellence with intellectual innovation to advance India's **Defence and Aerospace** sectors.

Architects of Advancement

IPOG's management team blends deep expertise in defence technology, electromechanical design, and advanced manufacturing. Through mentoring, collaboration, and an open culture of idea exchange, leadership fosters accountability ensuring every employee understands the larger purpose of their work. This shared vision fuels industries vital to national progress, positioning IPOG not merely as a manufacturer, but as an institution in constant motion.

From Foundation to Eminence

Founded over a decade and a half ago as an electromechanical solutions enterprise, IPOG has evolved into one of India's key engineering players. Through diligence, discipline, and continuous innovation, the company expanded its capabilities across defence, automotive, and industrial automation sectors.

Over the past **15+ years**, IPOG has:

- Successfully executed **150+ projects**
- Built a workforce of **100+ skilled professionals**
- Engineered **75+ products** compliant with **AS9100D** and **ISO 9001:2015** standards

From early achievements in automotive and industrial automation to pioneering critical defence assemblies, IPOG's growth has been defined by every challenge it embraced.

Strategic Defence Manufacturing Support

Building on its strong foundation, IPOG has emerged as a vital partner to India's defence and aerospace ecosystem. The company provides comprehensive support for production lines and indigenous development, with core expertise across fabrication, CNC machining, and electro-mechanical assemblies—each meeting the rigorous demands of national security.

Core Capabilities

Fabrication Excellence

- ·Heavy engineering structures for static and dynamic ground tests
- Lay-up tools for composite moulds
- Critical fixtures for mandrel storage and missile/spacecraft integration

- **CNC Machining**
  - Rocket motors, bulkheads, and polar bosses
  - Structures for stage separation systems
  - Pyro-cartridge components and fixtures for igniter testing
  - Airframes, bomb shells/warheads, vacuum chambers, casting fixtures, and mandrels

Composite Machining Mastery

Expertise in advanced aerospace materials including:

- Carbon Silica Carbide
- Graphite
- Silica
- Carbon Phenolic
- Phenol Formaldehyde
- AG-4C

Indigenous Innovations

- Guidance wires for ATGMs
- Optical and bi-metallic guidance wires for torpedoes (underwater missile systems)
- Retractable mechanisms for aircraft
- Contactors for naval systems



Gopi Hima Sekhar
CEO





- Electro-mechanical subsystems for missile navigation

As a trusted engineering partner, IPOG delivers mission-critical solutions through fabrication, precision machining of metals and non-metals (including composites), indigenous capability development, and electrical & electronics assemblies for the Defence and Aerospace sectors.

Certifications& Patents:

1. AS 9100D and ISO 9001:2016
2. ZED GOLD MSME

IPOG holds **two patents** for the development of **control drive algorithms for BLDC motors**, reinforcing its commitment to indigenous innovation and advanced research.

Powering Progress Across Sectors

Beyond defence and aerospace, IPOG extends its engineering excellence to diverse industries, transforming concepts into reliable, high-performance solutions.

Mechanical Engineering Expertise

- Precision machining of critical components
- Design and development of jigs, fixtures, dies, and moulds
- Special alloy fabrication and miniature assemblies

Electronic Engineering Mastery

- PCB design and development
- Power electronics and control systems engineering

Automobile and EV Segment

- BLDC motors and controllers
- UPS-integrated drive systems
- Advanced motor accessories

Shaping Tomorrow's Frontiers

IPOG Industrial Technologies represents a powerful alliance of engineering excellence, innovation, and integrity. Anchored in research and strengthened by expanding capabilities and strategic partnerships, IPOG stands at the forefront of India's defence, automotive, and industrial transformation.

With an unwavering focus on quality and indigenous development, IPOG continues to propel India's technological sovereignty and global competitiveness toward a confident and promising future.

Corporate Social Responsibility at IPOG

IPOG allocates approximately 10% of its profits to Corporate Social Responsibility (CSR) initiatives, supporting needy communities in the areas of health, education, and spiritual development, along with providing technical training through real-time workshop environments.

IPOG Industrial Technologies

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RSI SOFTECH INDIA PVT LTD

From Instrumentation to Intelligence





T.Sesha Rao
Founder & Chairman

RSI SOFTECH India Pvt Ltd traces its origins to Remote Sensing Instruments (RSI), founded in 1985 by Mr. T. Sesha Rao, a former scientist at NRSC, ISRO, and the Department of Space. RSI established itself as India's first geomatics company, initially manufacturing optomechanical remote sensing instruments that laid the foundation for an indigenous Geo Spatial IT capability.

RSI SOFTECH emerged in 2000 as a group company to advance digital geospatial technologies, coinciding with the formation of ERDAS India as a joint venture. The company was renamed RSI Softech India Pvt Ltd in 2008, expanding into web GIS, utility mapping (AM/FM), BIM technology, geospatial data mining, geospatial data centre, spatial database infrastructure, and National Data Registry projects, including drone-based city mapping.

RSI SOFTECH, as an offshoot of Remote Sensing Instruments, addresses digital technology, data services, geo-cloud deployment, GIS web applications, enterprise portals, and GIS-ERP integration. The company serves the defence and internal security sectors worldwide, with headquarters in Hyderabad and offices in New Delhi, Kolkata, Bangalore, and Chennai.

The Product Arsenal

RSI Softech's Desktop GIS Solutions include OPS GIS for spatial data management, visualization, 3D modelling, and analysis in land use, forestry, and telecom sectors; Geo Data Manager for secure RDBMS-based archiving, querying, and retrieval of spatial, and non-spatial data; and OPS Planning Suite, which generates common operational pictures integrating real-time data to support military mission planning, asset tracking, and

tactical decision-making.

Our 3D Globe Desktop and Web Software line-up features interactive 3D applications via real-time data fusion, streaming, and OGC standards; the solution, combining aerial photos, satellite images, and elevation models into precise terrain databases; Software for automated textured 3D mesh creation; and for 3D viewing, analysis, and unlimited data overlays.

Complementing these, the 3D Globe Server and Mobile Software provide cloud-based 3D data publishing, storage, and role-based access control; 3D Globe for Web delivers plugin-free HTML5/ WebGL. 3D visualization in browsers and mobile apps enables field editing, streaming, offline access, measurements, and viewshed analysis for large datasets.

Tactical Warfare Domination

RSI Softech delivers geospatial operational superiority to Indian armed forces, paramilitary, and research labs through integrated GIS, image intelligence, and mission tools.

- RSI SOFTECH, along with BEL-GAD, was responsible for the Pilot development of the PMO BSS (Battlefield Surveillance System) project, also known as **Project Sanjay**. The core function of this project was to integrate real-time inputs from various battlefield sensors (both ground and aerial) to process, verify, and fuse the data, ultimately generating a **Common Surveillance Picture (CSP).**
- Deployment of custom solutions for **Intelligence Organizations (like MI17),** where RSI SOFTECH deployed their data cataloguing and mining solution, **Geo Data Manager (GDM)**, in 55 MI Intelligence Offices across India.
- The BSF GIS deployment spans 270 border locations, enabling centralized surveillance with spatial queries, route optimization, mobility corridor mapping, threat visualization, drone/UAV integration, 24/7 patrol coordination, and intrusion alerts.
- **BhuShakti** is the name the CRPF gave to the Enterprise-wide-web software that was deployed as part of the **Terrain INT Software Deployment** by RSI SOFTECH. More than 3,000 CRPF officers have been trained by RSI SOFTECH in locations including Delhi and Mount Abu.
- Developed a full-scale 3D vital installation management software for **OCTOPUS (AP & Telangana)** for counter-terrorism operations.
- Internationally, RSI SOFTECH was involved in deploying solutions specific to the defence users, and one of its major deployments included supplying an **IPS** (Intelligence Production System) solution to Algeria, which involved the deployment of specialised hardware, and **ALIAS**(ALgerian Image Analysis System)**,**a specialised solution for Intelligence production, management, and reporting.
- Photogrammetry and simulation suites serve the Navy and Air Force for reconnaissance, training, coastal regulation, and mission rehearsal, while paramilitary forces deploy GIS systems for surveillance, counter-insurgency analysis, and post-operation reviews.

Tailored to Operational Doctrines

RSI Softech's capabilities are aligned meticulously to military doctrines, rapid image mapping/strike graphics for target visualization; mobility corridor analysis with choke-point detection; VR/3D fly-throughs for mission rehearsal; DTED generation for navigation; target detection/change analysis via temporal imagery; 360° video GIS for immersive awareness. These integrate via API customization, secure fusion, and real-time operational pictures.

Eyes in the Sky – Precision Mapping, Stealth Surveillance & Lethal Kamikaze Drones

RSI SOFTECH specializes in drone technology, with specific expertise in specialized mapping drones, surveillance drones, and no-return kamikaze drones.The company leads in geospatial solutions, including UAV/drone data acquisition, processing, and mapping projects such as city surveys and Digital Twin Creation. RSI SOFTECH supports drone-based photogrammetry, LiDAR services, and high-resolution 3D mesh models from UAV photos, aligning with defence and infra-structure needs like Border Roads Organisation proposals. Their portfolio emphasizes custom hardware for precise GIS updates and remote sensing applications.

Artificial Intelligence and Machine Learning Integration

RSI Softech has integrated cutting-edge artificial



intelligence and machine learning capabilities across its geospatial technology stack, transforming traditional GIS operations into intelligent, autonomous systems.

Our AI-powered solutions include automated feature extraction from satellite imagery and drone data using deep learning algorithms, enabling rapid identification of buildings, roads, vegetation, water bodies, and infrastructure changes without manual intervention.

Quality and Industry Honours

RSI Softech holds ISO 9001:2015 certification for quality management and ISO/IEC 27001:2013 certification for information security and is appraised at CMMI Level-5 for Software Development. The company's recognitions include the Udyogpatra Award from the Government of India for contributions to Remote Sensing and the President of India Award for Best Entrepreneur in 1994.

Strategic Impact and Central Role

RSI Softech sustains a trajectory in geospatial innovation, delivering turnkey solutions for national defence, border security, and civil applications, underscoring its vital role in India's security and strategic infrastructure.Through continuous advancement in drone technology, artificial intelligence, and geospatial intelligence systems, the company remains at the forefront of India's technological sovereignty in strategic domains.

RSI Softech India Pvt Ltd
Plot# 7, Industrial Estate, Kukatpally,
Hyderabad, Telangana 500037

RATO Communications and Electronics Pvt. Ltd.

The Power Behind Progress



Potluri Rambabu
Managing Director

Mr Potluri Rambabu, RATO's Managing Director, is a scholar and entrepreneur. He holds a Diploma in Electronics and Communications from the Government Polytechnic, Hyderabad. He also has a B.E. and an M.Tech in Solid State Electronics from Osmania University. He joined ECIL in 1977 and worked on electronic circuits and power supplies. Driven by expertise and passion, he launched RATO in Hyderabad's Kukatpally Industrial Area in 1991.

As a master designer and mentor in electronics and instrumentation, he propelled RATO to design, develop, manufacture, and market state-of-the-art industrial and instrumentation products. These products are high-quality, engineered and rigorously tested in compliance with environmental, EMI/EMC, and seismic standards.

Journey of Indigenous Growth

RATO's focus has been on indigenous design and manufacturing from the beginning. Its three-plus decades of presence mark sustained contributions. The company manufactures power supplies (Precision, Linear and SMPS), signal conditioning modules, interface modules, process control indicators, annunciation systems, hooters, digital panel meters, and custom solutions. Ongoing technological improvement, industry engagement, and expansion into industrial and instrumentation drive its growth.

Industry 4.0 Infrastructure

RATO's infrastructure supports execution through indigenous designs, LCSO-certified PCB fabrication, transformer winding, mechanical fabrication, assembly, wiring, testing, and environmental chambers. Automated pick-and-place machines, wave soldering lines, and in-house climatic facilities drive efficient mass production. This skilled team's capabilities extend RATO into new defence markets and diversification, handling standard production and custom developments, including smart monitors for specialized measurements.

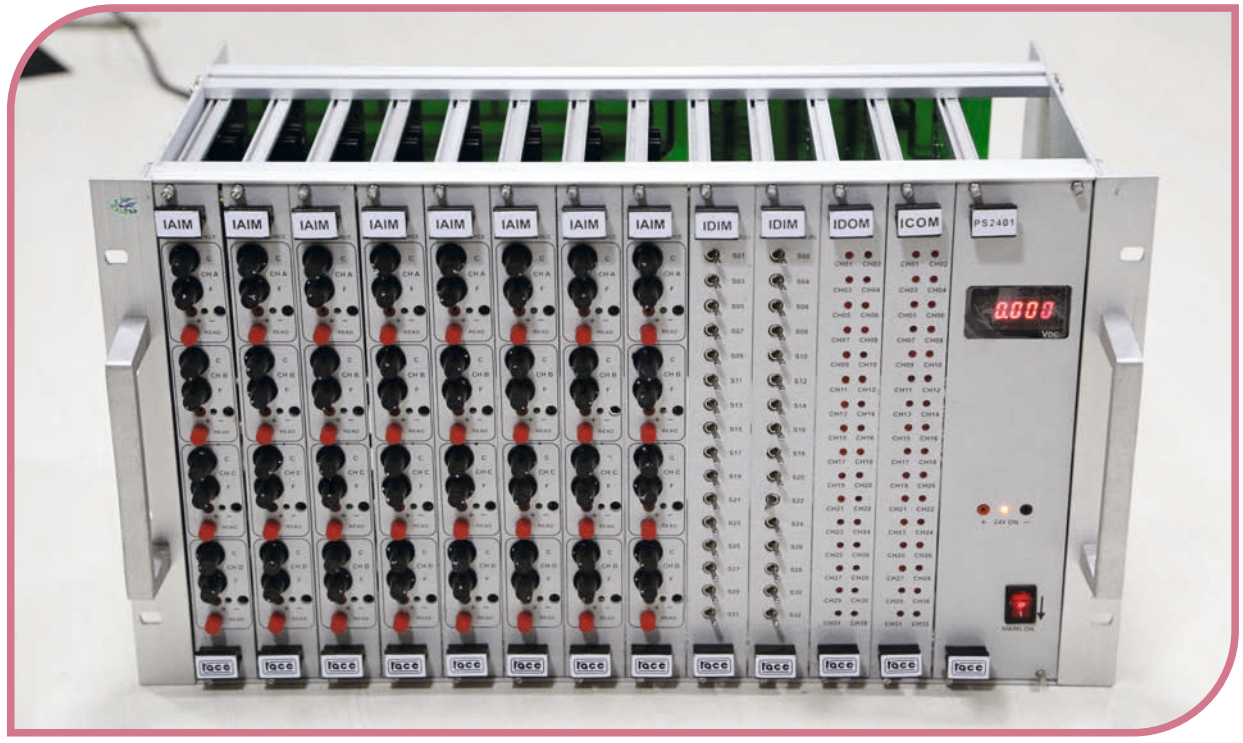
Defence-Ready Solutions

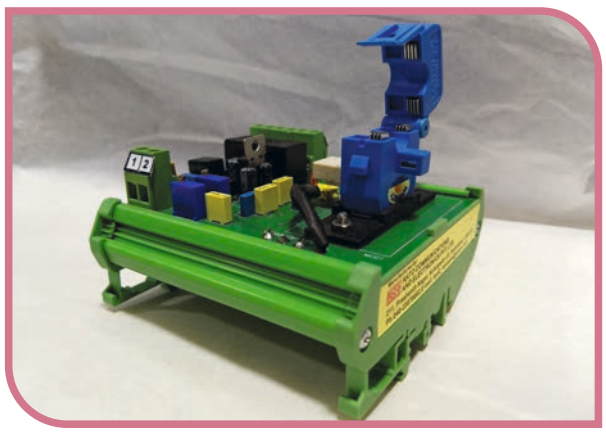
Leveraging this robust infrastructure, RATO delivers products for demanding industrial and defence environments. Signal conditioning modules offer multiple isolated outputs for AC/DC voltage, current, frequency, timer, counter, thermocouple, RTD (2,3, or 4-wire), load cell, potentiome-

ter, and electric charge. These comply with IS 9000, IEC 61000, and IEEE 344 standards, powering expansion into strategic applications.

The company's switching-mode power supplies (SMPS) and linear power supplies operate on 230 V AC or 220 V DC inputs, which feature low ripple and tight line/load regulation. RATO also produces power supplies with drift controlled to accurate parts-per-million (ppm) levels. RATO's annunciation windows and systems support up to 200 field inputs and accommodate multiple sequences. Bar graph indicators come in single, dual, and circular configurations. They offer flexible input and set point options. Interface modules are available with Diode, Zener, Fuse, Varistor, Opto coupler (I/O), Relay, SSR, Potentiometer, and Analog with and without isolation. These are configured for easy integration. Digital Panel Meters are available in standard DIN sizes. They support multi-channel measurement and dynamic display for complex panel setups.

RATO delivers custom-built systems, including trip units, level controls, solar charge controllers, seed coating controls, in-cell monitors, antenna controls,







and alarm modules. These customized products undergo development and validation in a 6-8 month period.

RATO follows total quality management with checks at every production stage. Products undergo testing with certified equipment under quality plans and joint inspections. Compliance covers IS 9000/JSS 55555 for climatic tests, IEC 61000/ MIL- STD-461E/F for EMI/EMC, and IEEE 344 for seismic performance. In addition to holding ISO 9001:2008 certification, RATO is also approved by ECIL, BARC, NPCIL, and BHEL.

The Horizon Ahead

RATO envisages a leadership in high-precision instrumentation for industrial and strategic sectors. It targets smart, application-specific monitoring and control solutions. Leveraging proven design, certified facilities, and customer trust, RATO endeavours to meet the demands for advanced instrumentation, efficient power systems, and integrated monitoring while upholding technical excellence, reliability, and innovation.

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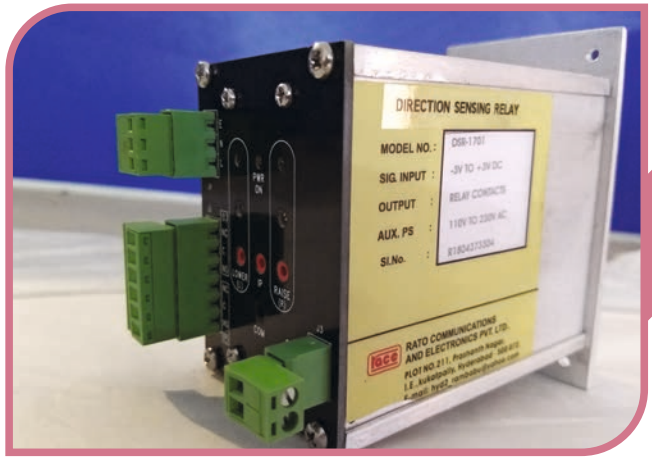

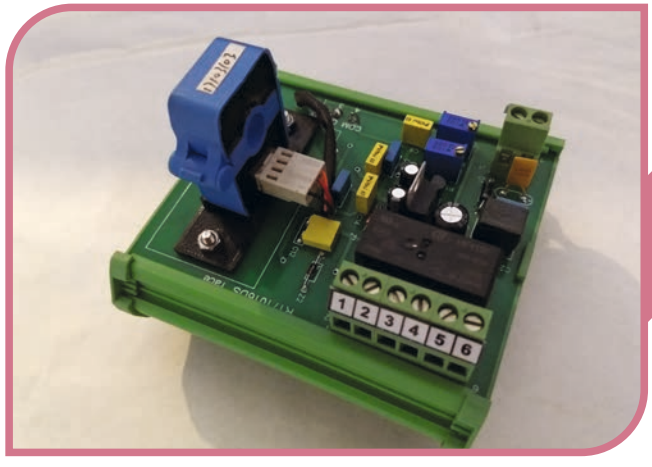

Measure India Corporation Pvt. Ltd. (MIC Labs)

An Impeccable Testing





Rajendra Prasad Koganti
CEO

Since its beginning in 2005, Measure India Corporation Pvt. Ltd. (MIC) has evolved from a modest service provider into a trusted benchmark in material testing, supporting India's technological backbone. MIC has earned a reputation for precision and dependability. Its testing machines guarantee material quality and performance across Defence, Aerospace, Manufacturing, Academia, and Research Institutions. Every system undergoes rigorous scrutiny to ensure reliable results. MIC's guiding values Trust, Care, Innovation, and Pride shape every decision and interaction, forming the foundation of its transparent, thoughtful, and innovative operations.

A Leadership Guided by Expertise

At the helm of MIC is Mr. Rajendra Prasad Koganti Chief Executive Officer, whose vision and technical depth has shaped the company's trajectory. Beginning his career at the renowned Toshniwal Group, widely regarded as the pioneer of instrumentation in India, Mr RP gained foundational exposure that would later define his career.

His association with Instron Ltd., UK, represented in India by Toshniwal, gave him extensive hands-on expertise in Monotonic, Fatigue, and Fracture Mechanics applications. His tenure as National Training Manager at Instron India deepened his understanding of testing technologies across environmental conditions and customer domains.

In 2004, when sanctions following the Pokhran nuclear tests disrupted India's access to Western testing technologies, Mr RP made a defining choice to leave his established corporate post and independently support India's defence, atomic, and aerospace sectors. This decision led to the founding of Measure India Corporation in 2005, which was incorporated as Measure India Corporation Pvt. Ltd later and continues its mission of technological self-reliance.

Today, MIC is recognised under UDYAM



(MSME), underscoring its contribution to India's growing ecosystem of innovative small and medium enterprises.

Domains of Expertise

Over two decades, MIC has delivered systems such as Universal Testing Machines, Fatigue and Fracture Mechanics systems, Creep, Stress Rupture, and Relaxation systems, Digital Image Correlation systems, Video Extensometer and a range of test accessories and retrofits. MIC partners with international and domestic manufacturers to deliver global-quality testing systems in India. These partnerships and local expertise make MIC a key player in India's precision engineering.





Products for Extreme Environments

In 2022, MIC began manufacturing specialised testing accessories for defence and aerospace, meeting India's demand for indigenous high-performance systems.

The company engineered facilities capable of handling temperatures ranging from –195°C to +1600°C, enabling material studies under extreme environmental conditions. These capabilities have since been successfully validated by multiple defence and aerospace programs, marking a significant reduction in India's dependence on foreign suppliers.

Encouraged by this success, MIC looks ahead to 2026, targeting expanded testing environments from –250°C to +2500°C. Every development in this direction reinforces MIC's resolve in enabling India's engineers and scientists to test, analyse, and innovate on home soil.

Accredited Foundations for Future R&D

A significant milestone in MIC's journey was in 2016 with the establishment of MIC Labs, a facility offering specialised testing services for aerospace, defence, academia, manufacturing, and research sectors. Over the last nine years, MIC Labs has successfully executed numerous projects, underscoring the company's technical credibility and expanding reach.

In 2020, MIC Labs earned NABL accreditation for ISO 17025, followed by AS9100:2016 certification, a globally recognised standard for aerospace quality management. Approval from the Directorate General of Aeronautical Quality Assurance (DGAQA) further validated its ability to meet stringent aeronautical testing requirements.

Today, MIC Labs serves a distinguished clientele, including DRDO and ISRO facilities, Aerospace industries, CSIR laboratories, and leading academic institutions such as IITs, NITs, and Deemed Universities. Its customer base now exceeds 500 clients across 19 states, reflecting nationwide confidence in its systems and support.

Designing a Measured Future

Beyond its machines and measurements, MIC is propelled by trust, care, innovation, and pride. Each solution embodies trust through transparency, care through diligent service, innovation through technology, and pride through quality. These principles sustain long-term partnerships and reaffirm MIC's stature as a dependable ally in India's engineering and defence progress.

The company now envisions MIC Labs transforming into a Centre of Excellence, aimed at driving R&D and advanced material development projects in partnership with India's leading research institutions and industry bodies. Every collaboration resonates with a singular vision to build a future where India measures, designs, and defines its own path to self-reliance decisively, under the prestigious Atma Nirbhar Bharat initiative.

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Nutek Technologies Private Limited



Ramamurti Gopalakrishnan
Chairman and Managing Director

Propelling Indigenous Defence Electronics

Mr Ramamurti Gopalakrishnan, Chairman and Managing Director of Nutek Technologies Private Limited, has led the company since its inception in 1992. With extensive experience in the defence and electronics domains, he has guided Nutek's transformation from a modest enterprise into a respected manufacturer of advanced defence electronics and communication systems.

An engineer by training in communication systems, Mr Gopalakrishnan leverages deep technical expertise and practical experience in embedded and digital electronics to drive product innovation at Nutek. His engineering leadership has propelled the development of solutions precisely tailored to defence requirements, particularly in secure communication and rugged, field-deployable systems. Many of the technologies he has pioneered are operational in demanding defence environments, underscoring Nutek's reputation for reliability and engineering excellence.

Mr Gopalakrishnan is regarded as the driving force behind Nutek's focus on indigenisation, reliability, and engineering excellence. Through sustained investment in R&D, advanced testing infrastructure, and collaboration with defence research organisations, he has strengthened Nutek's standing as a trusted partner for mission-critical programmes. As CMD, he provides strategic direction in technology planning, project execution, and quality assurance, while fostering capability building and technical mentorship across teams. His hands-on leadership ensures every solution upholds the highest standards of performance and compliance demanded by the defence sector.

Beyond technology, Mr Gopalakrishnan is an advocate of ethical business practices, transparency, and stakeholder trust. Over the past three decades, he has built a technically proficient and cohesive



team, fostering a work culture grounded in integrity, discipline, and engineering excellence. As a leader, he combines vision with pragmatism—driving innovation, prioritising quality, and ensuring Nutek's growth remains closely aligned with the nation's Atmanirbhar Bharat mission. Under his guidance, the company continues to strengthen its position in the defence and high-technology domains, expanding its capabilities to meet emerging national priorities.

Built in India, Built for Defence

Established in 1992, Nutek Technologies designs, develops, manufactures, and supplies advanced electronic and communication systems for the Indian defence sector. With over three decades of experience, the company has developed robust R&D capabilities to deliver fully indigenous, solution-oriented products. Nutek collaborates closely with leading defence research and development establishments such as the Research Centre Imarat, Defence Electronics Research Laboratory, and Centre for Artificial Intelligence and Robotics, as well as with public sector enterprises including Bharat Electronics Limited, on key strategic programmes. Its products and accessories are certified by the Directorate General of Quality Assurance (DGQA) and manufactured in accordance with military-grade standards and processes.

Engineering the Mission

Nutek delivers comprehensive capabilities across the lifecycle of ruggedised electronic systems for military applications. The company designs and develops products that meet stringent defence specifications, integrating rugged hardware with embedded software to create reliable, field-ready solutions. Its expertise spans high-reliability power electronics, embedded control and communication firmware, and software development in .NET, C, and C++. Nutek also provides full lifecycle support, including obsolescence management, to ensure sustained performance. Supported by advanced in-house facilities for manufacturing, testing, and qualification, Nutek consistently delivers high-quality, dependable, and timely solutions.

Ruggedised Systems and Reliable Power

Nutek's product range exemplifies ruggedness, reliability, and cost-effectiveness, advancing national self-reliance while meeting the evolving needs of India's armed forces. The company develops data communication devices and accessories for secure field operations, intelligent battery charging units supporting NiCd, Li-ion, and NiMH chemistries, high-power multi-port chargers for rapid, simultaneous charging, and shelter-based power racks and portable packs for field communication systems. This versatile portfolio addresses current operational demands while expanding into emerging technologies such as software-defined radios and electric vehicle fast-charging solutions.

Powering Self-Reliance in Defence

Nutek drives national self-reliance in defence electronics by engineering fully indigenous, high-quality, and reliable systems. It partners with government R&D organisations across, supporting the entire lifecycle from concept and design to production and maintenance in defence and secure communication systems, continuously delivering mission-ready, cost-effective innovations.

Future Plans

As India strides forward with the Atmanirbhar Bharat vision, Nutek is strongly positioned to address emerging opportunities in defence electronics and high-technology domains by foraying into EV charging, drone battery chargers as well as battery energy storage solutions and battery packs.

Nutek Technologies Private Limited

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SJ Automation Solutions



Leadership With Depth



S.Varun Krishna
Founder and Managing Director

SJ Automation Solutions was co-founded by Mr. Surapaneni Varun Krishna, and Mr. Parvathaneni Hemanth, Mr. Varun Krishna began his career at TVS Brakes India, where he worked extensively in CNC maintenance and technology development, and later progressed to CNC Technics, Hyderabad, serving as a Senior Project Engineer. Through these roles, he developed strong manufacturing and automation expertise, which continues to directly drive SJ Automation Solution's strategic growth, technical capability, and industry impact.

The company is strengthened by a highly experienced and specialized leadership team, including the Co-Founder and CNC Expert Mr.Parvathaneni Hemanth, Design Lead Mr. P Shiva Kumar, Electrical Chief Mr. K Durga Prasad, and Automation & PLC Programming Head Mr. V Ashok. With this solid leadership foundation, SJ Automation Solutions has evolved into a trusted and recognized organization in the defence and aerospace automation sector, consistently delivering technically advanced solutions with a strong focus on quality, reliability, and on-time execution.

Engineering Automation, Shaping Composites

Established in 2012, SJ Automation Solutions commenced operations by delivering CNC retrofitting, robot integration, and industrial automation solutions. By 2015, the company expanded its capabilities into the design and manufacture of customized Special Purpose Machines (SPMs). In 2018, SJ Automation entered the filament winding and composite manufacturing domain, and by 2020, it further strengthened its expertise in robotics integration, reinforcing its position as a technology-driven automation provider.

SJ Automation's comprehensive portfolio includes CNC controllers, industrial robotics, assembly automation systems, mandrel solutions, hydraulic extractors, hydro-testers, and servo-controlled mould-making solutions. The company's core strength lies in filament winding machines and advanced robotic automation, serving critical industries such as defence, aerospace, automotive, and renewable energy sectors.

Filament Winding Machines

SJ Automation's filament winding machines are engineered with a wide range of capabilities, offering high-precision CNC control for resin-impregnated carbon, glass, and hybrid fibres wound over rotating mandrels. These systems are designed to meet stringent performance and quality requirements across advanced composite applications.

The 2-axis systems feature synchronized spindle carriage motion, intuitive user interfaces, and IoT-enabled Industry 4.0 connectivity, enabling efficient production of aerospace fuel tanks and rocket casings.

The 3-axis machines support complex helical and hoop fibre winding patterns, resulting in stronger and lighter aircraft structures and pressure vessels.

The 4-axis and 5-axis machines deliver exceptional geometric accuracy, real-time process control, and cycle-time reductions of up to 40%, enabling the manufacture of highly intricate components such as turbine blades and missile housings.

In addition, specialized vertical filament winding machines utilize gravity-assisted fibre tension to

achieve seamless layering, while toroidal winding models enable the production of complex geometries. Collectively, these innovations achieve nanometre-level fibre placement accuracy and enable the production of up to 10% lighter ballistic-grade composite structures.

Robotic Technology & Automation Solutions

In this domain, SJ Automation delivers comprehensive robotic and automation solutions designed to enhance productivity, precision, and safety across modern manufacturing environments. Its robotic systems are engineered to handle applications ranging from small-component handling to large-scale machining and welding, consistently delivering exceptional reliability and repeatable performance.

SJ Automation integrates world-class robotic platforms from FANUC, KUKA, and ABB across aerospace and defence manufacturing operations, enabling high-precision milling, drilling, and welding (MIG, TIG, and spot welding). These solutions incorporate seam tracking, adaptive welding torches, and vision-guided material handling and palletizing systems to ensure consistent quality and operational efficiency.

The company's automation offerings also include multi-CNC machine tending solutions that support 24/7 unmanned operations. Custom-engineered end-of-arm tooling including pneumatic and electric grippers, vacuum pick-ups, welding torches, and deburring tools is seamlessly integrated with in-house engineered vibration-free bases, modular fixtures, and servo rotary positioners, ensuring high-accuracy, zero-defect production.

Comprehensive industrial safety systems, including laser scanners, light curtains, and PLC-based interlocks, are incorporated in full compliance with global safety standards. With end-to-end capabilities covering programming, system design, fabrication, installation, and operator training, SJ Automation consistently delivers cycle time reductions of 40–60%, improved product quality, enhanced workplace safety, dependable operational reliability, and unmatched manufacturing accuracy.

A Trusted Partner in Robotic Integration

SJ Automation combines deep expertise in FANUC, KUKA, and ABB robotic platforms with end-to-end in-house capabilities, including system design, precision machining, fabrication, and electrical integration, to deliver tailored automation solutions across diverse production environments.





P.Hemanth
Co-Founder

From installation and commissioning to operator training and comprehensive after-sales support, SJ Automation ensures seamless project execution and long-term operational success across the aerospace, automotive, and industrial sectors. Whether modernizing an existing production line or deploying a fully automated new manufacturing cell, each solution is engineered to deliver higher throughput, reduced operational costs, superior product quality, consistent performance, faster cycle times, and uncompromising safety standards.

Driving the Future of Advanced Automation

SJ Automation is advancing toward comprehensive digital integration in alignment with the industry 4.0 framework, while actively investing in sustainable manufacturing practices and collaborative innovation with defence and aerospace technology partners.

Driven by a strong commitment to automation engineering excellence and client-centric innovation, SJ Automation continues to strengthen India's position as a global leader in industrial and defence automation, delivering future-ready solutions that align with evolving industry demands.

SJ Automation Solutions

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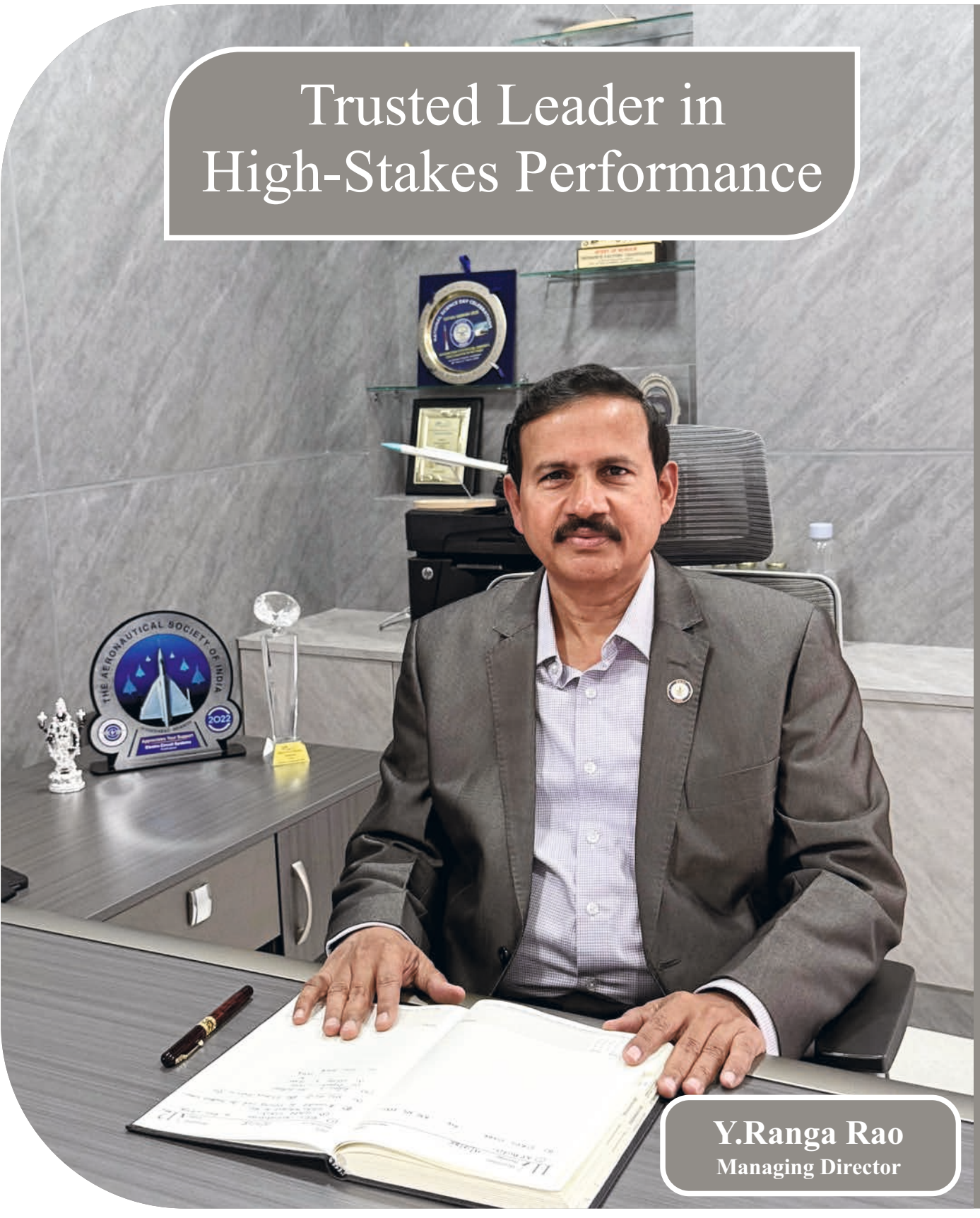
Electro Circuit Systems
Bulding Innovative Systems

Trusted Leader in High-Stakes Performance



Y.Ranga Rao
Managing Director



Electro Circuit Systems Pvt.Ltd. (ECS) is a highly specialised company that has carved a niche for itself in high-performance, ruggedised electronic, mechanical, and electro-mechanical systems essential to aerospace, defence, naval, industrial, and medical sectors. Founded in 1988, ECS has evolved into a preferred partner for end-to-end mission-critical solutions, from innovative design and development to precision manufacturing and qualification powered by advanced in-house R&D, Electronics Manufacturing Services, and NABL-accredited test facilities.

Vision that Drives Engineering Excellence

Under the tutelage and vision of Managing Director Yenikapati Ranga Rao, ECS has grown from a small team with a technology-

driven mindset into a leader creating dependable, indigenous solutions. Directors Yenikapati Jayadeep and Yenikapati Harish add international expertise, enhancing ECS's focus on delivering world-class technology, operations, and business results.

From Design Roots to Mission Readiness

ECS began in 1988 with five employees executing design projects for the defence public sector undertakings. Eventually, it evolved to manufacturing complete sub-systems for diverse defence and aerospace applications, expanding its capacity, capabilities, and customer base. A dedicated R&D facility was established to drive new product development. A NABL-accredited environmental and EMI/EMC laboratory came forth in 2017, followed by a full-fledged, audited EMS line with aerospace-grade cleanrooms in 2022. Today, ECS employs nearly 175 professionals and operates from Hyderabad as its headquarters, with a growing presence in Bengaluru, Dehradun, Ahmedabad, and an upcoming facility in Visakhapatnam.

Mastery Across Critical Domains

ECS focuses on 'Built-to-Specification' and 'Built-to-Print' sub-systems, offering total solutions in design, development, manufacturing, assembly, and testing. Its core verticals span aerospace, ground defence, naval applications, industrial and medical electronics, supported by capabilities in telemetry, actuator systems, antenna and RF systems, embedded systems, Printed Circuit Board design, and EMS. Precision engineering, rigorous quality practices, comprehensive testing, and on-time delivery are the organisational hallmarks.

Powering Technology for Defence

ECS designs and manufactures integrated on-board and ground systems for aerospace, including signal conditioners, PCM units, dual-channel controllers, actuators, servo controllers, transducers, telemetry systems, onboard computers, relay units, and launcher interfaces. In ground defence, it develops relay chatter



testers, flow signal conditioners, sensor simulators, Kinematic Measurement Triggering Event Systems (KITES), pressure transducers, automated test equipment, test jigs, and launch vehicle cables. For naval applications, ECS delivers underwater sensor solutions, sonar data processors, telemetry systems, relay units, and telecommand decoders built to stringent naval standards. Its RF team develops microwave components and antennas, while PCB specialists create complex multi-layer boards; embedded teams design Field Programmable Gate Arrays, SoC, microcontroller, and DSP systems; and mechanical engineers engineer enclosures, fixtures, and thermal solutions.

Integrated Infrastructure for Assured Quality

ECS holds AS9100D and ISO 27001:2022 certifications attesting to aerospace quality and information security. Its environmental test facility is ISO/IEC 17025:2017 accredited. NABL-accredited Entest and EMI/EMC labs validate MIL standards, JSS 55555, JSS 0256, RDSO, and IP specs for internal and external customers. EMS capabilities include advanced Surface Mount Technology with precision printing, high-speed pick-and-place, Automated Optical Inspection, reflow, Ball Grid Array rework, manual assembly, plus cable harness design and manufacturing. Dedicated cleanrooms support full product lifecycles from concept to production.

Recognition of Performance and Integrity

ECS is recognised by leading aerospace and defence agencies for quality, reliability, and delivery discipline through sustained performance over more than three decades. AS9100D, ISO 27001:2022, and NABL accreditations, together with approvals of its EMS line and test facilities by key authorities, are testament to ECS's position of being a trusted partner in national strategic programmes.

Innovating for India's Self-Reliant Future

ECS is dedicated to advancing indigenous aerospace and defence capabilities through cutting-edge technology, skilled talent, and world-class infrastructure. Combining deep design expertise, resilient manufacturing, and accredited testing, ECS strengthens national security, boosts operational readiness, and drives self-reliance in critical technologies.

Looking forward, the company plans to expand its presence, invest in emerging competencies, and spearhead the development of next-generation systems that will shape the future of national defence and strategic sectors.

Electro Circuit Systems Pvt.Ltd.,

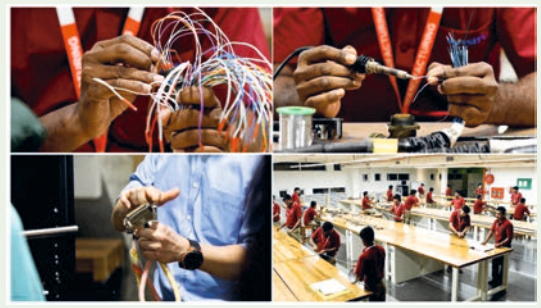
Plot No. 3-39/14/1, Vishwasai Nagar,
DRDL-RCI Road, Mallapur, Balapur,
Hyderabad 500005, Telangana

Varsity Instruments Private Limited





VARSITY®



Trusted by **DRDO** for its mission **critical programs**

For over two decades, **VARSITY** has been at the forefront of India's Make in India mission - engineering and customising world-class wire harnesses and EWIS (Electrical Wiring Interconnection Systems) for Ground, Aerospace, Defence and Marine applications.

Till date, we have delivered on-time, over 6,000 km of harnesses. These once integrated, power India's flagship defence programs - including Agni, Prithvi, Dhanush, VLR-SAM, Astra, Pinaka, Akash and LRGB - **VARSITY** stands as a trusted reliable partner in advancing our Nation's strategic force.

An IPC- and AS9100D-certified enterprise, **VARSITY** offers fully integrated expertise - from concept and design to prototyping and large-scale manufacturing - for both Build-to-print and Build-to-spec requirements.

Operating from an 87,000 sq. ft. state-of-the-art facility, **VARSITY** delivers end-to-end EWIS solutions across weapon systems, UAVs, radars, seekers, warheads, avionics and launchers.

Driven by precision, performance, and purpose - **VARSITY** is proud to powers India's most critical missions.

Varsity Instruments Private Limited

78, TGIIC, Electronic Manufacturing Cluster (EMC), Maheshwaram, Ranga Reddy District, Hyderabad-501 359, Telangana, India. +91 91 00 14 14 14.

info@varsityinstruments.com www.varsityinstruments.com

We serve the Nation through DRDO

The Visionary Behind NGT



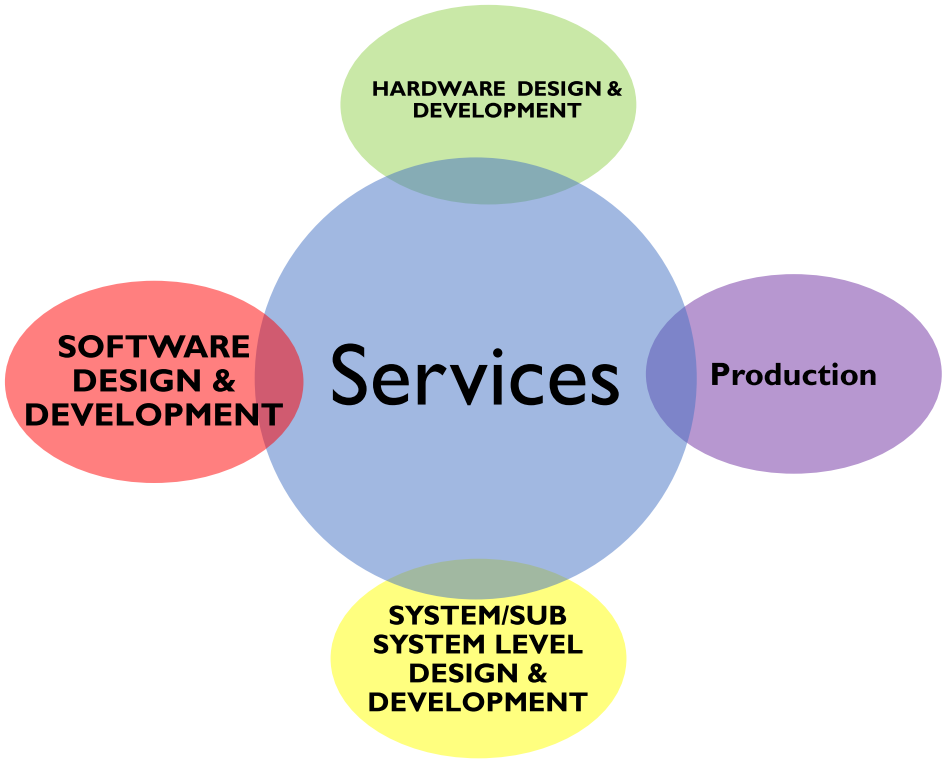


Swarna Someswara Rao
Founder

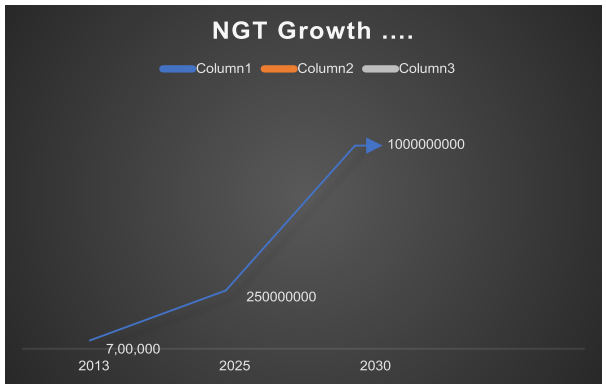
Mr. Swarna Someswara Rao, Founder of M/s NEXT GEN AVAROKIN TECHNOLOGIES INDIA LLP (NGT), established the company in 2013 as *Next Generation Technologies*, demonstrating entrepreneurial vision at the age of 31. Under his leadership, NGT strategically rebranded and realigned its focus toward advanced defence technologies, enabling the organization to successfully enter a highly competitive sector.

Through this transformation, NGT has delivered critical support to Defence Research Laboratories and Public Sector Units, contributing to national security, technological self-reliance, and the advancement of indigenous solutions. Today, NGT is recognized as a reliable partner and a growing contributor to India's defence preparedness.

Clients







Empowered by Youth, Guided by Experience:

Established in 2013, NEXT GEN AVAROKIN TECHNOLOGIES INDIA LLP (NGT) is a professionally driven technology organization founded by a team of young visionaries with a strong focus on innovation and long-term value creation. Over the years, NGT has evolved into a dynamic and resilient enterprise, distinguished by its ability to adapt to emerging technologies, changing market demands, and evolving client expectations. The organization is built on the principles of innovation, agility, and operational excellence, enabling it to consistently deliver high-impact technology solutions.NGT's workforce features an average employee age of about 40 years, with nearly 80% young professionals. The company strongly values how youthful perspectives, innovative ideas, and forward-thinking strategies drive long-term success. This mix of fresh energy and seasoned leadership cultivates a culture focused on ongoing improvement, accountability, and top-tier performance. NGT promotes teamwork, knowledge exchange, and professional growth to keep its teams agile, future-oriented, and in sync with worldwide industry benchmarks.

Leveraging the collective energy, technical expertise, and commitment of its people, NGT has demonstrated consistent growth across its operations. The organization adopts a client-centric approach, combining deep domain knowledge with cutting-edge technologies to deliver reliable, scalable, and value-driven solutions. Through a strong emphasis on quality, efficiency, and timely execution, NGT continues to build long-term partnerships with its stakeholders while advancing at an accelerated pace in its journey toward innovation, excellence, and sustainable growth.

Pioneering the Future of Technology

To emerge as a leading force in advanced technology solutions by cultivating a strong culture of innovation, research, and continuous improvement, driven by the creativity, energy, and expertise of young professionals. NGT envisions building future-ready solutions that enable organizations to enhance efficiency, competitiveness, and resilience in an increasingly digital world.

The organization is committed to contributing meaningfully to national development by promoting technological advancement, skill development, and indigenous capabilities that strengthen long-term self-reliance. Through ethical practices, sustainable innovation, and strategic partnerships, NGT aims to empower its talent, create lasting value for stakeholders, and shape a future where technology serves as a catalyst for economic growth, societal progress, and sustainable success.

Committing to Quality

- To deliver reliable, scalable, and innovative technology solutions that meet evolving client and industry needs.
- To empower young talent through continuous learning, leadership development, and a performance-driven culture.
- To uphold the highest standards of quality, integrity, and professionalism in every assignment.
- To contribute to national progress by promoting innovation, efficiency, and sustainable technological growth.

Next Generation Technologies
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Shaping the future of intelligent electronics

At Smart-Waves Technologies, we're building a future where electronics think smarter, last longer and push innovation further.

Through advanced design and precision manufac-turing, Smart-Waves Technologies Pvt. Ltd., headquartered in Hyderabad, delivers sophisticated electronic solutions that power industries and shape the future. **One smart wave at a time.**

Our latest engineering achievement in developing and manufacturing signal-processing modules for the Counter-Drone System (D4 System) - proven effective in neutralizing hostile targets firmly positions Smart-Waves as a key contributor to India's defence and national security success story.

Further strengthening our defence credentials, Smart-Waves' avionics manufacturing solutions for fighter aircraft, Helicopters(ALH) like Radar Control Systems, Communication Complex systems, Software Defined Radios, Combined Interrogator and Transponder, etc., for Hindustan Aeronautics Limited (HAL) are well-accredited and field-proven. These contributions place Smart-Waves in the front seat of India's aerospace and defence electronics ecosystem, trusted for reliability, precision, andmission-critical performance.

Telangana's trusted Electronics Manufacturing Services (EMS) Partner

Smart-Waves Technologies is a tech-enabled, growth-stage Electronics Manufacturing Services (EMS) company, poised to scale into larger markets, expand production capacity, and drive sustained revenue growth. We specialize in transforming ideas into world-class electronic products, leveraging deep industry expertise, cutting-edge technologies, and a cus-tomer-first mindset.

We engage as true partners to our clients supporting them in achieving market leadership through quality, reliability, and speed. Founded by first-generation entrepreneurs, Smart-Waves carries a strong vision to build **Telangana's most trusted EMS enterprise**, generating employment, exports, and long-term industrial value for the State.

> "Years of expertise in defence and aerospace, we are AS9100D and ISO 9001 certified, a HAL-approved supplier and equipped with in-house PCB assembly and environmental testing capabilities."



Mr. Yelisela Mallikharjuna Rao
Founder and Managing Director

SMART -WAVES
Technology at your service

Leadership Driving Purposeand Performance

Smart-Waves Technologies was founded by Mr. Yelisela Mallikharjuna Rao, who brings over two decades of experience in defence and aerospace electronic systems.
A postgraduate in Digital Electronics from Osmania University, he holds key accreditations from ISRO's Vikram Sarabhai Space Centre (VSSC) and HAL Hyderabad for avionics PCB assemblies - testimony to his technical depth and operational credibility.

Mr. Kiran Rao Govada, Co-founder and Director, is a trusted technology leader and innovative strategist with over 22 years of global experience, including work with Fortune l 00 companies worldwide. He has played a pivotal role in shaping Smart-Waves' business foundation and growth strategy.
His entrepreneurial acumen lies in identifying market opportunities, building value-driven solutions, and fostering long-term partner-ships that accelerate sustainable business transformation.

https://smart-waves.com



From Vision to Validation

From humble beginnings to industry relevance, Smart-Waves' journey is defined by continuous innovation, strategic growth, and an unwavering pursuit of excellence.

The company began as a specialist design house focused on hardware, firmware, and software development for advanced electronic systems. Over time, it evolved into a full-service electronics design and manufacturing partner, aligning innovation with regulatory compliance, reliability assurance, and performance validation.
This progression reflects Smart-Waves' ability to scale capabilities while remaining anchored to engineer-ing discipline and quality rigor.

Diversification That Delivers

A Globally Recognized Design + Manufacturing Powerhouse, rooted in Innovation Smart-Waves operates across the entire electronics value chain, offering integrated design-to-manufacturing capabilities for defence, aerospace, and other regulated sectors.

Core competencies include:

- System architecture and engineering
- High-speed digital, analog, and RF design Multilayer PCB design
- Embedded systems and IoT solutions
- FPGA-based designs with RTL program-ming for mission-critical applications

These capabilities are reinforced by mechanical CAD, simulation, and engineering analysis, enabling accurate system integration, manufactu-rability, and validation under stringent operating conditions.
From inception, designs are optimized for testability, certification readiness, lifecycle reliability, and cost efficiency.

Mr. Kiran Rao Govada
Co-founder and Director

Built for Critical Missions

Beyond design, Smart-Waves delivers end-to-end electronics manufacturing services, including prototype development, pilot builds, production transition, contract manufacturing, and Original Design Manufacturing (ODM). The company supports HSN-classified electronic assemblies, covering avionics and aircraft electronics, railway signalling systems, and integrated electronic modules demonstrating its capability to operate within highly regulated defence and aerospace manufacturing frameworks.

A key differentiator is Smart-Waves' in-house Automated Test Equipment (ATE) and custom functional test fixtures, ensuring rigorous valida-tion, repeatability, and precise fault isolation. Integrated quality and reliability engineering-supported by simulation-based failure analysis and compliance verification significantly accelerates certification and deployment timelines.

Standards that Inspire Confidence

Smart-Waves operates under AS9100D and ISO 9001:2015 certified quality management systems for PCB assembly, system integration, and box-build manufacturing. Accreditations from ISRO and HAL further validate compliance with India's most stringent standards for avionics and defence electronics. More than a manufacturer, Smart-Waves functions as an end-to-end lifecycle partner, enabling seamless transitions from design to deployment through disciplined engineering, agile execution, and audited processes.

Advancing Strategic Self-Reliance

Aligned with the national vision of Atmanirbhar Bharat, Smart-Waves Technologies Pvt. Ltd. plays a meaningful role in strengthening India's indige-nous defence electronics ecosystem. Through resilient designs, dependable manufacturing, and uncompromising quality, the company continues to advance the nation's defence and aerospace capabilities quietly powering systems that safe-guardsecurity and sovereignty.

Sadhrish Composites and Allied Products



At the Crest of Composite Innovation

Established in 2016 by Mr. K. Rama Rao in Hyderabad, Sadhrish Composites and Allied Products has rapidly emerged as a powerhouse in the defense and aerospace manufacturing sector. Leveraging Mr. Rama Rao's specialized background in Non-Destructive Testing (NDT), the company has evolved from a specialist firm into a primary partner for the Defence Research and Development Organisation (DRDO).

Today, the company operates with a skilled workforce, demonstrating sophisticated proficiency in autoclave processing, CNC filament winding, and resin transfer moulding (RTM) to produce aerospace-grade components.

Strategic Partnerships and National Defence

The cornerstone of Sadhrish's success is its deep collaboration with India's premier research institutions. Sadhrish is advancing large-scale metal additive manufacturing specifically for rocket components. These alliances extend to the co-development of next-generation high-thrust turbofan engines and the indigenous supply of components for Very Short-Range Air Defence Systems. Such efforts directly support the "Atmanirbhar Bharat" initiative, enhancing national sovereignty through self-reliance in precision manufacturing.

A Diverse Portfolio of High-Performance Products

Sadhrish Composites delivers a broad spectrum of products tailored for extreme environments, emphasizing lightweight durability and thermal resilience.



Kunchala Rama Rao
Managing Director

Product Family:

- Ablative composite nozzles
- Composite Launcher Tubes, Canisters, and Rocket Motor Casings
- Composite pressure bottles and pressure pipes
- Rocasin and EPDM rubber products
- FRP missile packing containers
- Carbon Phenolic, High Silica phenolic, and SP16 products
- Glass Epoxy products
- Radomes and low-damping signal FRP covers
- Aerospace precision machining
- Fabrication, welding, and painting

Product Spotlights:

- **Radomes:** The portfolio is led by aircraft radomes, including thin-walled, honey-comb, and sandwich variants. These critical enclosures protect antennas while ensuring signal clarity under extreme conditions.
- **Launcher Tubes:** The company produces launcher tubes, which are high-precision components designed to protect, house, and guide a projectile such as a rocket, missile, or torpedo from its static state to a controlled flight trajectory.
- **Pyrogenic Igniters:** Sadhrish specializes in pyrogenic igniters, which are essentially "rocket motors used to start a larger rocket motor". This is necessary for large solid rocket motors (SRMs) where a simple spark would not provide enough energy to ignite the entire surface area of the propellant grain simultaneously.
- **Thermal Protection:** The company produces ablative liners for heat control in combustion chambers and specialized rubber-coated liners for rocket motors and spacecraft.
- **Infrastructure:** Beyond defence, their Fibre-reinforced plastics (FRP) offer high strength for bridges and platforms in seismic zones or areas prone to extreme weather.

Commitment to Quality and Precision

Operating out of its Muppireddypally facility, Sadhrish Composites maintains the rigorous AS9100 certification. This aerospace-specific Quality Management System (QMS) ensures strict process controls, material traceability, and risk manage-ment. The certification governs every stage of production—from hand lay-up and RTM to autoclave curing ensuring that every component is of optimum quality.

Testing and Manufacturing Facilities:

- **Testing:** Radiographic Testing (RT) and Advanced Ultrasonic Testing (UT).
- **Manufacturing:** Filament and Tape Winding, Autoclave and Oven Curing, Compression Moulding, Resin Transfer Moulding, Hand Lay-up, Machining, Welding, Bonding, and Assembly.

The Trajectory Forward

As Sadhrish Composites looks to the future, it is poised to scale production for advanced armed systems. By deepening its innovations in additive manufacturing and composite liners, the company continues to align itself with national security goals. Through a blend of strategic R&D and precision engineering, Sadhrish Composites remains at the forefront of defending sovereignty through innovation. The company is also looking forward to expanding its facility by adding larger work floors and state-of-the-art machinery.

Sadhrish Composites and Allied Products

Contact Information

- **Office:** Plot No.178, Road No.4, Bhagyalaxmi Colony, I.D.A., Jeedimetla, Hyderabad - 500055
- **Email:** sadhrish@gmail.com
- **Works:** #3-3-36, Near Automotive Park, Muppireddypally, Manoharabad(M), Medak Dist, Telangana.







Apollo Computing Laboratories (P) Ltd.

Pioneer of Defence Embedded Systems



Baddam Jaipal Reddy
Chairman and Managing Director

Apollo Computing Laboratories (P) Ltd (ACL), established in 1992 in Hyderabad, India, specialises in manufacturing electronic systems for embedded computing in the defence and aerospace sectors. The company has contributed to national programs such as AGNI-II, LCA-Tejas, BrahMos, Astra, Akash, Pralay, torpedoes, and space missions, delivering systems with zero operational failures. ACL focuses on innovation, quality, and contributions to India's self-reliance in defence manufacturing, aligning with Atmanirbhar Bharat initiatives. The company conducts MIL standards workshops and supports repair services.

Blueprint for Defence Prowess

Mr Baddam Jaipal Reddy founded ACL in 1992. As a former ISRO/NRSA scientist, he directs the company's focus on advanced embedded electronics for defence applications. His expertise shapes ACL's technical direction and commitment to national programmes. Over 33 years, it has supplied mission-critical systems to DRDO labs (ASL, RCI, DRDL, BrahMos, ARDE, NSTL, DEBEL), HAL, BEL, BDL, and ECIL. These contributions advance indigenisation within Hyderabad's defence ecosystem and build on early successes.

Arsenal Anchored in Rugged Compliance

ACL specialises in build-to-specification and build-to-print solutions that comply with MIL-STD-1553B and other military standards. Its core verticals cover embedded computing, avionics simulation, test systems, and data acquisition. In-house facilities comprise R&D and software development labs, a DRDO-certified clean room equipped with an SMT assembly line, and a DGAQA-approved environmental test facility, which together ensure precise development and production.



ACL offers products such as aerospace/military interfaces (interface units, devices enabling communication between subsystems; stores interface, hardware connecting weaponry; on-board computers, processors used within vehicles; CCPMC-1553B modules for standardized bus communication; with over 300 units deployed), MIL-STD-1553B bus solutions (PCI cards and PCMCIA interfaces for connecting computers to communication buses, couplers for linking data channels), and data acquisition systems (RG-DAS-I, a data recording system; isolation testers for checking electrical separation).

Additional products include rugged computers (built to withstand harsh environments), workstations, displays, frame synchronizers (devices that align video signals), NavIC/IRNSS systems (India's satellite navigation systems), simulation platforms, and fibre optic links (high-speed data connections). Services provide turnkey solutions (pneumatic masts, extendable poles; shelters, portable structures), repairs, component sourcing, and MIL standards workshops. Key deliverables, including missile interface units, CCSC systems, flight simulators, weapon computers, SAMs, fuses, power amplifiers, AIF, bus modules, and ATE systems, serve AGNI, LCA-Tejas, ASTRA/AKASH, and torpedoes.

Benchmarks of Defence Certification

ACL holds AS 9100D and ISO 9001:2015 certification, CMMI Level-3, CEMILAC design house approval, DGAQA ETF approval, ASL SMT process approval, and design approvals for AGNI subsystems, SAMs, fuses, SIB for LCA, and ¾ ATR chassis. These recognitions affirm its reliability and adherence to standards.

Commitment to National Missions

ACL sustains its role in India's defence programmes through design expertise, indigenous IP, and production infrastructure. Aligned with DRDO's roadmap and leveraging ties with DRDO, BrahMos, HAL, BEL, BDL, and ECIL, the company delivers reliable systems for future missions.

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Fax: +91-40-27141554
Email: mktg@apollocomputing.com

Comint Systems & Solutions Pvt Ltd



Engineering Excellence for National Security

Comint Systems and Solutions Pvt. Ltd. (CSSPL) leads India's defence and aerospace industry, delivering advanced, cross-disciplinary solutions for critical national and strategic sectors. Headquartered in Hyderabad and operating with a Pan-India presence since 2004, CSSPL has built a vast infrastructure supported by highly experienced technical professionals, enabling comprehensive in-house design, engineering, manufacturing, testing, and system integration.

Pioneering Next-Gen Defence Innovation

Mr Lingampally Rambabu is the Founder and Managing Director of Comint Systems & Solutions Pvt Ltd. A first-generation technocrat, he holds a Bachelor of Technology in Electronics and Communication Engineering from Nagarjuna University. Comint Systems & Solutions was established in 2004 with a focus on technology solutions in Defence Electronics, Telecom, IT, and Aerospace. Before founding Comint, Mr Rambabu served at Blue Star Ltd and other prominent organisations, earning valuable experience. His leadership extends to establishing BRAVLD Engineering Pvt Ltd, an allied concern supporting the group's expansion and commitment to “Make in India”.

Lingampally Rambabu
Founder and Managing Director







Driving Advanced Mission-Critical Solutions

CSSPL specialises in developing customised, mission-critical products for Defence, DRDO, Naval, and Aerospace applications, with a strong record of delivering complex projects from development to turnkey commissioning. CSSPL holds a Defence Industrial Licence and manufactures indigenous defence electronic subsystems and network visibility products, deployed across military establishments, research labs, and defence institutions.

As a leading system integrator, value-added reseller, and manufacturer, CSSPL partners with global OEMs to provide solutions in Defence Electronics, Lawful Interception, Network Security, and application performance testing. Its full-scale R&D, manufacturing, and test facilities support projects of any size, while its skilled workforce keeps CSSPL at the forefront of aerospace and defence innovation.

Providing end-to-end services—including system design, customisation, integration, installation, training, and support—CSSPL has established a strong presence in high-impact product lines, driving India's technological self-reliance in defence and aerospace.

Mastery Across Verticals

The Excellence of Comint's Products:

- **Defence Electronics:** Offering turnkey solutions including fixed/mobile telemetry stations for flight and integration tests, wideband disk recorders for SIGINT, ELINT, and EW, avionics data-bus interfaces (MIL-1553, ARINC429, DIGIBUS, AFDX, CAN, RS485), simulators, spectrum monitoring, signal decoders, perimeter security, and indigenous design and development.
- **Microwave Receivers:** Advanced receivers covering 1.5 MHz to 40 GHz with rugged and modular designs for diverse operational platforms, including ships, submarines, aircraft, and field environments.
- **High-Performance Data Recorders:** Multi-channel SIGINT disk recorders with high bandwidth and resolution for critical signal intelligence applications.
- **Telemetry Solutions:** Mobile and rack-mount telemetry ground stations with flexibility for multiple data formats and real-time processing.



- **Avionic Data Bus and Embedded Systems:** Rugged, MIL-grade embedded systems, data loaders, displays, and computing platforms meeting stringent defence standards.
- **COMINT/ELINT** Simulators and Training Systems.
- **RF & Microwave Products:** Indigenous development of Low Noise Amplifiers, Power Amplifiers, Power Dividers designed for mission-critical defence and aerospace use.



- **Network Visibility and Cyber Security:** Comprehensive solutions for network data monitoring, vulnerability management, threat detection, and cyber security infrastructure.
- **Manufacturing & Design:** Production of flux-coated welding electrodes and MIG wires under the "BRAVLD" brand, custom data centre racks, patch panels, enclosures, and engineered fabrication.

This expertise ensures CSSPL remains a trusted partner in delivering high-technology, mission-critical solutions across defence, aerospace, and security domains.

Building Strength Through Self-Reliance

Comint Systems and Solutions Pvt Ltd remains committed to advancing India's defence and aerospace capabilities through innovation, precision, and customer-centric solutions. With a focus on technological self-reliance and excellence, CSSPL continues to drive transformative impact for critical national sectors, forging strong partnerships and delivering future-ready technologies that safeguard and empower the nation.

Comint Systems and Solutions Pvt Ltd

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ZETATEK®
Committed to Excellence

Zenith of Indigenous Innovation



R.Siva Kumar
President



R.Ravi Kumar
Executive Director

Zetatek Technologies started in 1990 as a manufacturer of advanced testing and simulation equipment for defence, aerospace, automotive, electronics, nuclear, and seismic sectors, building trust over three decades through solutions aligned with Make in India and Aatmanirbhar Bharat as a Buy (Indian-IDDM) firm under DAP2020.

Offering the world's only comprehensive range under one roof—from Environmental Simulation Chambers and Motion Simulators to Electro-Optical Tracking Systems and Counter-Unmanned Aerial Systems—Zetatek customises high-quality gear to meet stringent standards while forging global partnerships to bring cutting-edge technologies to India. This forward-thinking approach positions Zetatek as a key partner, driving self-reliance and innovation in mission-critical testing for India's strategic industries. Zetatek Technologies is headquartered in Hyderabad.

Visionary Leadership Team

Guiding this trajectory is a seasoned leadership team comprising Mr. Siva Kumar Rachakonda, President; Mr. Ravi Kumar Rachakonda, Executive Director; and Mr. Vivek Gandikota, Mr. Arihanth Rachakonda, and Mr. Ajay Rachakonda, Directors. Mr. Ravi Kumar Rachakonda concurrently serves as Vice President of the Federation of Telangana Chambers of Commerce and Industry. Their collective experience and acumen ensure meticulous planning and execution of strategic defence projects and the development of an impeccable product line-up.

Portfolio of Potent Innovations

Under its top leadership, Zetatek delivers a unified portfolio, including Environmental Simulation Chambers (ovens, climatic, thermal shock, vacuum, walk-in), Motion Simulators (rate tables, precision centrifuges, pan-tilt positioners), and Electro-Optical Tracking Systems. Additional offerings encompass Counter-Unmanned Aerial Systems, MEMS sensors, vibration controllers, shock test machines, ruggedised transit cases, and global technologies such as image processing and inertial navigation systems, bolstered by international distribution partnership.

Zetatek crafts high-quality equipment that complies with the stringent standards of the defence, aerospace, automotive, and electronics sectors. As the only company globally offering such a comprehensive range of products and services under one roof, it customises solutions to meet clients' unique requirements.

Motion Systems

This foundation extends to specialised motion systems for defence and aerospace testing. Zetatek Technologies delivers precision motion systems for defence and aerospace testing. Modular Rate Tables with direct-drive brushless motors, encoders, and a GUI calibrate inertial sensors (MEMS, IMUs, FOGs, RLGs), with environmental chamber integration. 3-axis Flight Motion Simulators replicate pitch, yaw, roll; 2-axis Target Motion Simulators enable HIL evaluation of IR, RF, electro-optical sensors for tracking. Precision Centrifuges test high-G loads on accelerometers across stages. Rugged Pan-Tilt Positioners and Electro-Optical Systems provide accuracy in harsh conditions for sensors, radars, weapons, and threat detection through indigenous innovation.



Environmental Systems

Zetatek's Environmental Systems deliver precision-engineered simulation chambers and a comprehensive test lab to qualify defence, aerospace, automotive, and electronics hardware against extreme real-world conditions, leveraging over two decades of expertise for unmatched reliability and value. The portfolio features versatile Temperature/Climatic Chambers (ZTF/ZHF series, 400-2000L, -70°C to +180°C, 10-98% RH), Thermal Shock Chambers (27-1000L, rapid two-compartment transfers), Thermal Mechanical Chambers (2400L, -60°C to +80°C, 20-50 ton loads for tensile testing), and Thermal Platforms (200-500 mm², -70°C to +180°C at 5°C/min cooling), all simulating equator-to-pole, desert-to-ocean stresses for R&D, production, and quality assurance of circuit boards, satellites, missiles, and vehicles. Paired with Zetatek's Environmental Test Lab, these solutions accelerate certification, expose design flaws, and ensure mission-critical performance to global standards, all at economical Indian-made prices.

Global Supplies

Broadening horizons, Zetatek's Global Technologies portfolio equips defence, aerospace, and high-reliability sectors with combat-proven solutions from international partners, integrating rugged hardware, precision optics, and testing systems for India's needs. Vision4ce delivers real-time video/image processing via GRIP rugged PCs, NVIDIA GPGPU, GRIP View units, and DART software on CHARM trackers for electro-optic detection across land, sea, and air. CI Systems provides MIL-Standard EO gear; IAI, battlefield-tested tech; WZW Optics, super polished lenses; DESAPRO, shock/vibration/EMI-resistant cases; ELSTAR, vibration/shock machines; RULA, vibration control instruments; SERVOTEST, servo-hydraulic shake tables; OpenWorks, and drone detection in unison, accelerating development, extreme performance, and an alignment with the objectives of Aatmanirbhar Bharat.

The Horizons of Tomorrow

Zetatek continues to provide tailored testing solutions and advances India's defence and aerospace through indigenous manufacturing and global partnerships, forging a self-reliant future.

Zetatek Technologies Private Limited

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BONDADA Engineering Limited

An Infrastructure Powerhouse





Dr. Bondada Raghavendra Rao
Chairman & Managing Director



Bondada Engineering Limited serves as the flagship infrastructure company of the Bondada Group. Headquartered in Hyderabad, it delivers EPC and O&M solutions across Renewable Energy, Telecom, Indian Railways and Defence Sector. The company blends engineering expertise with values of cost efficiency, timeliness, and customer satisfaction. On its rolls are about 2,500 employees, operations in 16 states, and reported revenue of ₹1,571 crore till March 2025.

Bondada Engineering began in 2012 as a telecom EPC firm. In the following years, the company expanded into renewable energy and manufacturing. A key milestone in this path of progress was the IPO in August 2023 and the bagging of the ₹1,479 crore BSNL 4G order in the same year.

During this 13-year growth period, it recorded a 56% revenue CAGR, earned a CRISIL “A Stable”

rating, and grew to over 13,500 shareholders. Today, Bondada serves industry majors such as Reliance Jio, Tata Communications, Larsen & Toubro and a host of renewable energy and defence projects.

Astute Visionary Leadership

Dr Bondada Raghavendra Rao serves as Chairman and Managing Director. A Civil Engineering graduate from Acharya Nagarjuna University and an Honorary Doctorate in Business Administration from California State University, USA, he leveraged telecom expertise to found the company in 2012, clocking revenue of ₹7 crore. His decisive vision has driven growth beyond ₹5,000 crore, sustained by a ₹15,000 crore order book. He steers ambitious targets $1 billion revenue and 10 GW renewables energy by 2030—directly shaping core verticals in telecom, energy, and beyond.

Core Verticals & Products

The Bondada Group delivers EPC, O&M, and manufacturing across Renewable Energy, Telecom, Indian Railways and Defence supported by subsidiaries for integrated solutions.

Telecom: Handling end-to-end tower solutions, including design, reverse engineering, evaluation, turnkey cell site construction (foundations, erection, electrical works, fibre deployment via OFC, FTTx, intracity, NLD), facility management, and 4G/5G O&M. It serves Reliance Jio and BSNL, including the ₹1,479 crore 4G saturation order.

Renewable Energy: This foundational expertise extends to Renewable Energy, where solar EPC covers site surveys, land preparation, system design, MMS, BESS installation, and performance monitoring. Representing 58% of revenue for the fiscal year ending March 2025, it manages 4 GW projects (2 GW under the IPP model with global partners), with a target of reaching 10 GW by 2030.

Railways: Enhancing safety and connectivity through Kavach ATP infrastructure, modern signalling, 5G-enabled communications, and supporting reliable networks.

Manufacturing: Using in-house facilities for telecom/transmission towers, solar MMS, wind masts, crash barriers, cable trays, solar I-beams, and GSM mounts (12,000 MT capacity). Green products include Smartbrix AAC blocks, uPVC/aluminium windows/doors, LED lighting, and BLDC/EV motors.

Bondada Ecobuild (AAC blocks, uPVC, aluminium), **Bondada Green Engineering** (MMS, GSM mounts, towers), **Bondada E&E** (LED lighting), **Atpole Technologies** (BLDC/EV motors), and **Bondada Managed Services** (O&M) are subsidiaries in the Group, acting in concert with Bondada Engineering.

These verticals generated an overall revenue of ₹1,571 crore till March 2025 reiterating the Group's versatility.

Forging Defence Frontiers

Bondada Engineering is building on this expertise to support defence through telecom towers, 4,300+ km OFC networks, and Kavach rail systems (₹229 crore contracts) for logistics. Manufacturing supplies towers, crash barriers, GSM mounts, and cable trays for security and deployments.

Launched in August 2025, **Bondada Dynamics** is a dedicated division manufacturing platforms, systems, and sub-assemblies for the armed forces and DPSUs. In the offing is an MoU that targets opportunities worth ₹102 billion.

Recognition and Contributions

Dr Rao features in the Hurun India Rich List 2024. The Group holds ISO certifications for quality and safety, as well as a CRISIL "A Stable" rating. While awards recognise professional expertise and project execution, CSR in education, healthcare, rural development, sports, and relief mirrors the human side of the Bondada Group.

Future Plans

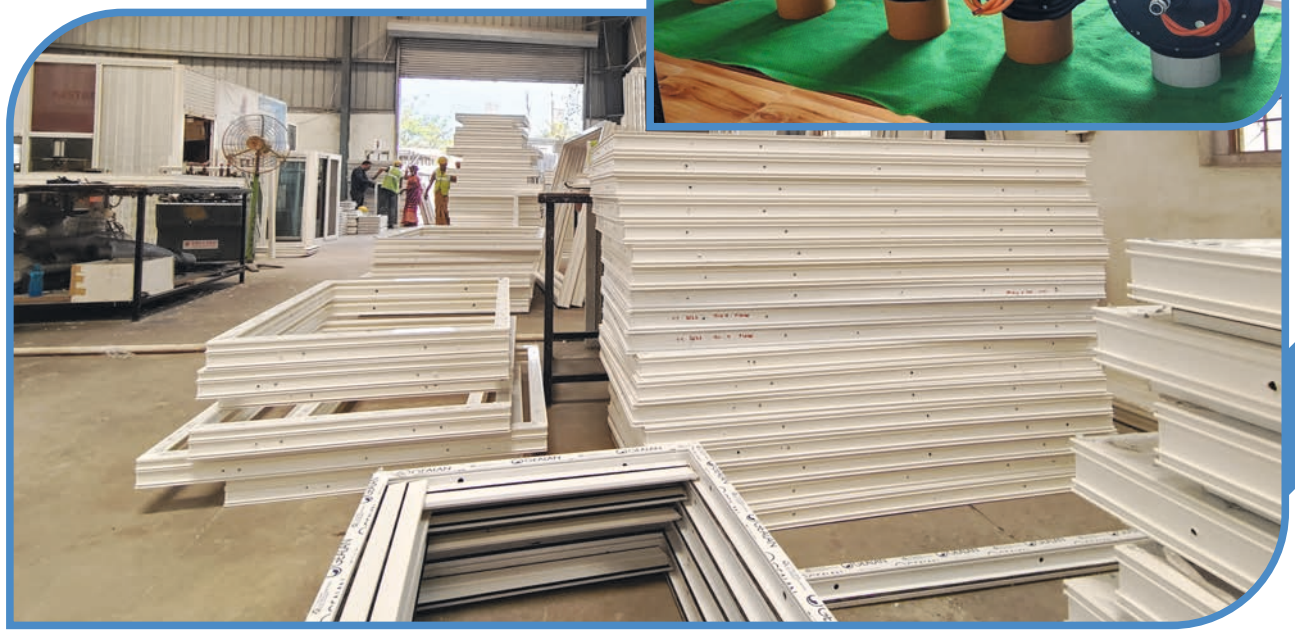
Dr Rao's dynamism and cohesive teamwork propel the Group toward a $1 billion revenue target and 10 GW of renewable energy by 2030.

Bondada Engineering Limited

Bondada House, C-26, Kushaiguda Industrial Area, Kushaiguda, ECIL, Hyderabad-500062.







PERIDOT TECHNOLOGIES



Enabling Precision in India's Strategic Sectors

Mr Ugander Reddy is the founder of Peridot Technologies and a respected name in the electronic test and measurement ecosystem. With over three decades of entrepreneurial leadership, he has combined technical insight with business acumen to build a company grounded in precision, trust, and innovation. His ability to anticipate industry needs and forge long-term partnerships with global technology leaders has positioned Peridot as a reliable partner across mission-critical sectors. Known for his collaborative leadership style and unwavering commitment to quality, Mr Ugander continues to guide Peridot with a clear vision to empower engineers and innovators with tools that define accuracy, reliability, and excellence.

Enabling Precision in India's Strategic Sectors

Peridot Technologies, established in Hyderabad in August 1992, has evolved into a pivotal high-technology solution provider, deeply embedded in the supply chains and R&D cycles of India's most critical, high-technology sectors, including semiconductors, defence, aerospace, electric vehicles,embedded systems, and advanced VLSI. The company's strategic location in Hyderabad, allows it to work in close collaboration with global engineering companies, premier national agencies, including the Ministry of Defence, Defence Research & Development Organization (DRDO), Public Sector Undertakings (PSUs), and leading private sector electronic industries. Furthermore, Peridot's expertise is regularly leveraged by foundational research institutions such as IITs, NITs, BITS, and various other reputed educational laboratories.

Strategic Partnerships in Critical Technology

At its core, Peridot Technologies is an ISO 9001:2015 certified provider specializing in the supply, distribution, and integration of world-class electronic Test and Measurement (T&M) instruments. In sectors where the margin for error is non-existent, the reliability of T&M equipment is paramount. Peridot partners with global leaders like

Tektronix, Keithley, Weller, Fluke, Hoiki and Anritsu to deliver precision instruments such as high-performance oscilloscopes, spectrum analyzers, source measure units, power analyzers, and high-frequency signal generators. These equipments form the foundation for testing and validating complex integrated systems and essential componentsvital to global engineering companies, and India's defence programs, as well as sophisticated power electronics and battery management systems within the rapidly expanding EV industry.

Core Test and Measurement Competencies

Peridot is a trusted resource for delivering complete test and measurement solutions, ensuring the seamless operation of critical hardware across strategic platforms, from next-generation aerospace systems to advanced VLSI chip design environments and sophisticated EV power electronics. The company focuses on the conceptualization and deployment of custom-built Automatic Test Equipment (ATE) and tailored measurement systems designed to meet unique client requirements. For sophisticated system integration and turnkey projects, Peridot works closely with its associates to deliver comprehensive solutions. This integrated approach addresses complex requirements, including high-speed, mixed-signal, digital, RF (Radio Frequency), and microwave circuits, the fundamental building blocks of modern embedded systems, military radar, and satellite technology.







Strength in Design and Manufacturing

Beyond test and measurement, Peridot Technologies possesses strong expertise in supplying essential infrastructure for electronic design and manufacturing environments. The company is a key provider of advanced soldering and desoldering solutions, precision rework tools, and critical benchtop equipment. This comprehensive portfolio ensures that R&D labs and production facilities such as DRDO, HAL, BEL, ECIL, and others maintain the highest standards of quality and integrity for sensitive electronic assembly, supported by crucial tools like fume extraction systems. Peridot's expertise ensures that the physical assembly of high-reliability components meets the stringent specifications required by the various electronics, defence and aerospace industries.

Commitment to Quality and Service

Peridot Technologies recognizes that longevity and operational readiness are essential for its clientele. Consequently, a significant part of its offering is dedicated to superior after-sales service, including multi-brand calibration and repair support. This accredited maintenance service, delivered by highly qualified and certified engineers, ensures that mission-critical testing equipment remains functional, accurate, and compliant with the highest standards, thereby minimizing downtime and maximizing the productivity of high-stakes R&D and production facilities. With a history spanning over three decades, Peridot Technologies has cultivated a strong reputation based on technical competence, innovative delivery, and unwavering customer satisfaction. As India continues to advance technological excellence across sectors such as semiconductors, education, defence, space, and emerging sectors like electric vehicles (EVs), Peridot remains a strategic partner, dedicated to equipping the nation's engineers and scientists with the foundational tools necessary to achieve technological self-reliance and excellence on the global stage.

PERIDOT TECHNOLOGIES

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Website: www.peridot-tech.com
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SMRJ Engineers Pvt.Ltd.

Crafting India's Defence



Seeram Jagga Rao
Founder & Managing Director

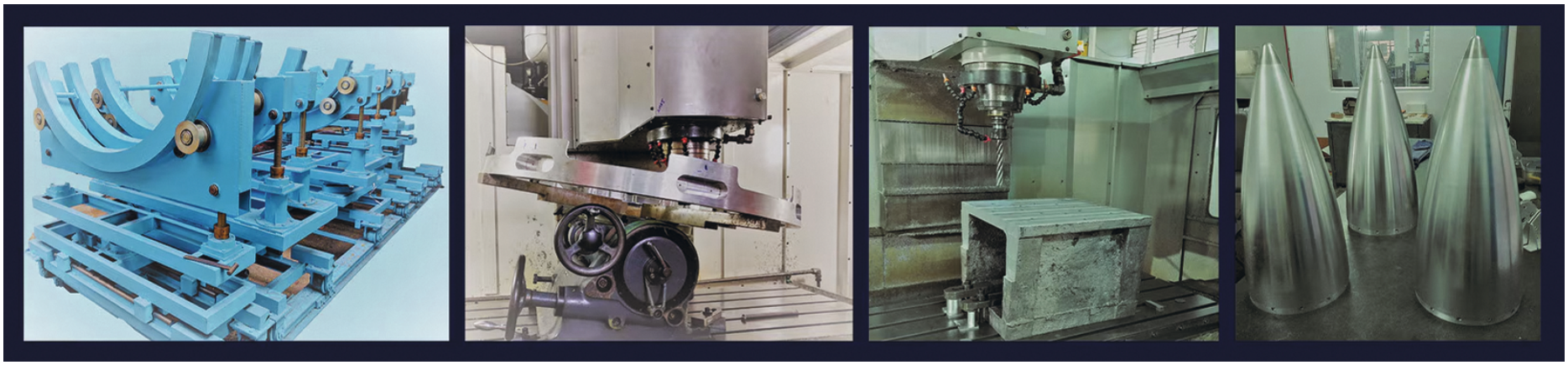
Established in 2000, SMRJ Engineers Pvt Ltd is led by founder Mr Seeram Jagga Rao, who brings over 35 years of shop-floor and CNC machining expertise in defence components. It has progressed from a modest facility into a vital supplier in India's defence and aerospace ecosystem.

Supported by a core planning and production team with over 40 years of combined experience in process engineering, tooling design and quality control, the company contributes to national programmes through precision-machining and delivery of qualified components including bulkheads, canister assemblies and vibration fixtures for missiles, aircraft and defence systems to DRDO, BEL (Bengaluru), BDL (Hyderabad), HAL and other strategic organisations.

Capabilities Overview

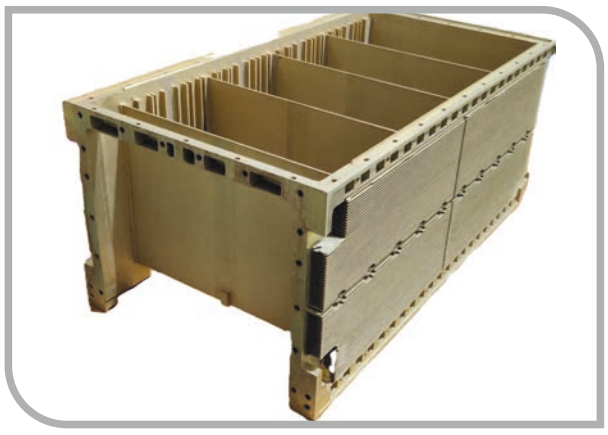
SMRJ specialises in close-tolerance precision machining and fabrication for defence and aerospace applications. It operates multiple CNC vertical and horizontal machining centres, CNC vertical turning lathes, heavy-duty conventional lathes and mills, EDM wire-cut machines, and





metal/plastic 3D printing facilities. These capabilities support production of high-precision components, machine tool accessories, electro-mechanical equipment, moulding tools and jigs & fixtures from 10 mm cubes to 2,500 × 1,500 × 800 mm structures while achieving 10-micron tolerances in alloys and composites through in-house measurement and contracted third-party CMM inspection.

Product Portfolio





- Aerospace and Defence Components: Titanium bulkheads, nickel-alloy shells, mandrels, metallic sections, mounting brackets, canister assemblies, nose cones, airframes, ballast assemblies, ballast plates, tungsten inserts and lead/molybdenum plates.
- Tooling and Fixtures: Vibration fixtures, assembly jigs, precision fixtures for assembly and testing, dies, moulds and moulding tools for metal and plastic components.
- Machining Services: Precision-machining of titanium, aluminium, tungsten, stainless steel and exotic alloys; TIG welding of titanium, stainless steel, Inconel and aluminium for marine, high-altitude and aerospace applications.

Quality Systems and Certifications

Under ISO 9001:2015 certification, SMRJ integrates quality verification at each production phase. Certified raw materials receive full traceability documentation, NABL-accredited third-party testing and CMM validation. Internal protocols mandate semi-annual equipment calibration, formal non-conformance reporting, 8D root-cause analysis and corrective action implementation.

Material Processing and Supply Chain

SMRJ processes annually: 6,500 kg aluminium /titanium alloys, 2,000 kg tungsten/ molybdenum/rare metals, 6,500 kg stainless/carbon steels, 500 kg PTFE/Hylam/rubber. These yield components for extreme conditions, supplying BEL, BDL, HAL and DRDO labs.

Contribution to National Defence

SMRJ Engineers Pvt Ltd delivers advanced engineering essential to India's defence and aerospace requirements. Disciplined leadership, rigorous quality systems and sustained partnerships with DRDO, BEL, BDL and HAL reinforce the manufacturing base underpinning national security and self-reliance.

SMRJ ENGINEERS PVT LTD

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Fax:04023078098,Mob: 9441343434,9490996969
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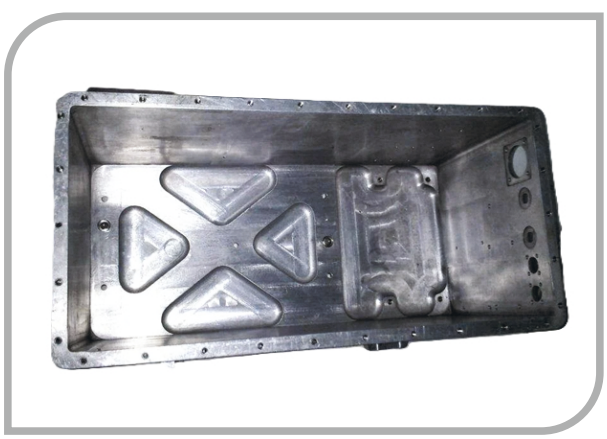


COMPUPOWER
PRIVATE LIMITED



Engineering India's Strategic Self-Reliance

Established in 1987, Compupower Private Limited stands as a quiet yet consequential contributor to India's defence and aerospace journey. Operating as a specialised MSME, the company has dedicated over three decades to the design, development, and manufacture of high-reliability electronic products and components for defence, aerospace, and strategic applications. Its evolution mirrors India's own transition from dependence on imports to confidence in indigenous capability.

Engineering for Mission-Critical Excellence

Defence electronics is a domain defined by exacting standards, extended qualification cycles, and uncompromising expectations of precision and reliability. Compupower entered this arena with a clear mission to develop import-substitution solutions that meet global military standards while serving national priorities. Over the years, the company has successfully navigated the demanding processes of development, validation, and certification, transforming complex concepts into production-ready systems.

Indigenisation Powering India's Air Platforms

Among its most significant achievements is the indigenous development of Data Bus Couplers conforming to the MIL-STD-1553B military communication standard. Developed under the guidance of the Aeronautical Development Agency (ADA), Ministry of Defence, these systems form a vital part of the avionics architecture of India's prestigious Light Combat Aircraft (LCA) programme. The products underwent rigorous functional, electrical, and environmental testing at approved laboratories, under the supervision of authorised officials from the Directorate of Aeronautics, Ministry of Defence meeting all prescribed performance benchmarks.

Beyond one Programme: Defence and Space

Compupower's contribution extends well beyond a single programme. The company has indigenised critical electronic subsystems for leading defence and space institutions including Hindustan Aeronautics Limited (HAL) and the Vikram Sarabhai Space Centre (VSSC). Its connectorised Data Bus Couplers are currently supplied to HAL for the Jaguar aircraft upgrade programme, directly contributing to foreign exchange savings and operational autonomy. For India's space missions, Compupower has developed MIL-STD-1553B interface transformers deployed in launch vehicles





such as PSLV and GSLV components that operate silently yet reliably at the heart of complex systems.

Precision Manufacturing Ecosystem

Headquartered in Hyderabad, Compupower operates from purpose-built facilities at Hardware Park near the Rajiv Gandhi International Airport and the Aerospace Park at Adibatla. These air-conditioned production environments are designed to support precision electronics manufacturing, while critical qualification tests are conducted through reputed defence laboratories and public sector undertakings, ensuring full compliance with national standards.

Trusted by India's Strategic Institutions

Compupower's client ecosystem includes ADA, ADE, HAL, BEL, ISRO, DRDL, RCI, CABS, DARE, and international defence majors such as Rafael, Israel reflecting the trust it has earned across institutions at the core of India's strategic capability. As India's defence sector accelerates indigenisation and private sector participation, Compupower is positioned for the next phase of growth, with a clear vision to scale operations and contribute meaningfully to India's defence manufacturing ambitions.

MSME Strength in the National Defence Ecosystem

In the larger defence ecosystem, Compupower represents the strength of India's specialised MSME enterprises that combine deep technical knowledge with perseverance, playing a decisive role in transforming national policy into operational reality.

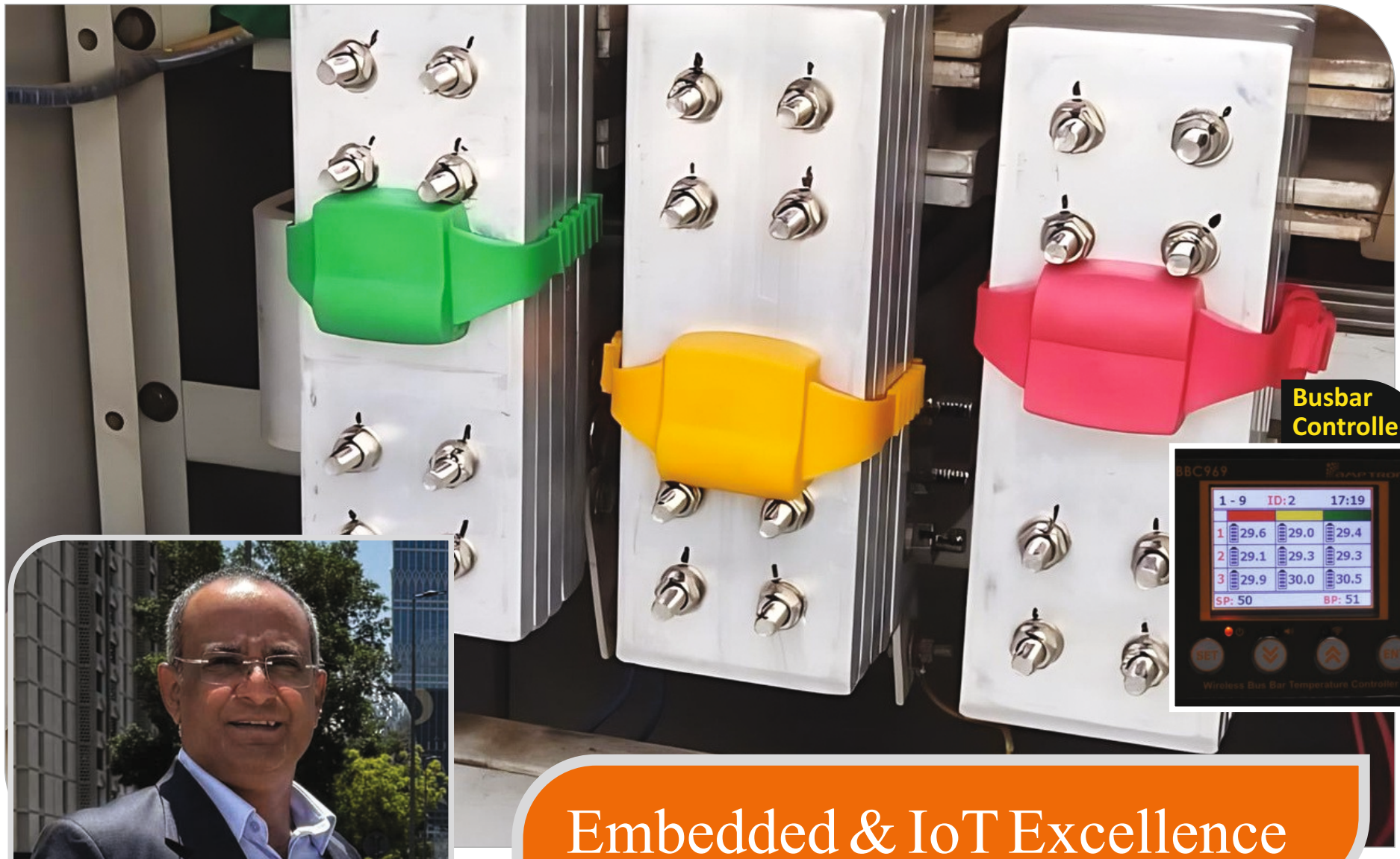
Leadership Rooted in Engineering Excellence

Compupower Private Limited is promoted by Mr J. P. Yerubandi and his associates. A postgraduate in Electronics Engineering from the United States, Mr Yerubandi brings over three decades of industrial experience in advanced electronics for mission-critical applications. His leadership reflects a rare blend of hands-on engineering expertise, long-term vision, and commitment to indigenous development. Supported by a highly skilled technical team, he has guided Compupower from a development-focused enterprise into a trusted production partner for India's defence and space establishments.

Compupower Private Limited

UDL #7, Hardware Park,
Opposite R.S.F.P&D, Near RGI Airport,
Srisailam Highway, Raviryala Post,
Hyderabad, Telangana 500005

Amptronics Systems Pvt. Ltd.



Mitesh Kumar Patel
Founder & CEO

Embedded & IoT Excellence

Amptronics Systems Private Limited, headquartered in Hyderabad, Telangana, is a trusted engineering partner specializing in embedded electronics, rugged IoT systems, and mission-critical monitoring solutions. With over **two decades of sustained industry experience**, Amptronics has built strong competencies in transforming complex requirements into reliable, field-deployable electronic systems.

At the core of Amptronics is a state-of-the-art **R&D and manufacturing ecosystem**, purpose-built to support **advanced embedded platforms and Industrial IoT (IIoT) applications**. We design and deliver **secure, reliable, and power efficient systems** that operate flawlessly in demanding environments where precision, durability, and continuity are nonnegotiable.

Amptronics manages the entire product lifecycle from concept engineering and prototype development to validation, certification support, and **high volume manufacturing**. Our solutions emphasize miniaturization, low-power operation, long-term reliability, and field ready robustness, making them ideal for defence, infrastructure, and critical industrial deployments.

Amptronics is led by a technically driven leadership team with deep expertise in embedded systems, industrial electronics, and manufacturing excel-



Wireless Busbar Temperature Sensor



lence. The leadership's hands on involvement **bridges engineering innovation** with operational discipline, ensuring every solution aligns with customer mission objectives.

Over the years, Amptronics has successfully served a wide range of industries including **Pharmaceuticals, Oil & Gas, Power Distribution, Solar, Renewable Energy, Automotive, Sugar, Steel, and Cement Sectors**. This cross-industry experience has strengthened the company's ability to design and deliver robust, compliant, and high-reliability embedded solutions, adaptable to diverse operational environments and stringent industry standards.

Product Engineering & OEM Manufacturing Expertise

Amptronic's **Wireless Busbar Temperature Monitoring System (WBTMS)** is a mission critical solution designed for continuous thermal monitoring of electrical busbars in high power installations. The system enables real-time detection of abnormal temperature rise, helping prevent failures, fire hazards, and unplanned downtime. WBTMS eliminates the need for complex wiring and allows deployment in confined, high voltage, and hard to access environments. The solution is particularly suited for defence substations, naval and airbase power infrastructure, command centres, and critical industrial facilities, where electrical reliability and safety are paramount. The system supports long-term unattended operation, ensuring operational continuity critical installations.

Amptronics also provides **warehouse temperature and humidity monitoring solution**s to maintain controlled environmental conditions for the safe storage of defence equipment, spares, and sensitive materials. Built on low-power, wireless, and rugged embedded platforms, these solutions enable continuous monitoring, early alerts, and predictive maintenance, ensuring operational safety, asset protection across warehouses, data centers, and industrial installations.

Amptronics also offers **OEM focused product design and manufacturing services**, enabling customers to transform concepts and specifications into fully engineered, production ready electronic products. The company undertakes custom hardware design, embedded firmware development, wireless and wired communication and scalable manufacturing, all under a single engagement. With strong control over quality, traceability, and lifecycle support.

Achievements & Industry Recognition

- **Patented Wireless Busbar Temperature Monitoring System (WBTMS),** reflecting strong indigenous design and embedded innovation capability
- WBTMS awarded “**Best Innovation Product Developed by Indian Distributor** – Second Runner Up” at ELECRAMA 2025, recognizing technical excellence and industrial relevance
- Proven track record in delivering **reliable, low-power, mission critical monitoring solutions** aligned with Make in India initiatives.

Amptronics Systems Pvt. Ltd

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Mail : info@amptronics.com
Website: www.amptronics.com

Powering India's Critical Missions Since 1977



Dr. Gurmeet Singh
Founder & CEO

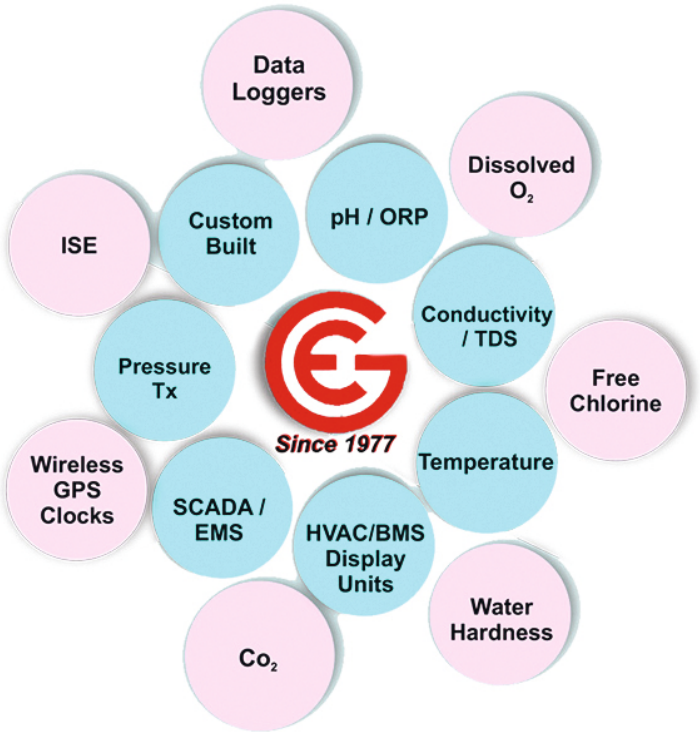
Global Electronics, founded in 1977 by visionary entrepreneur Mr Gurmeet Singh in Hyderabad, India, was established to design and manufacture high-technology sensors and instruments at a time when most were imported. What began as a pioneering indigenous effort has evolved into a globally recognised brand, exporting advanced sensing and measurement solutions designed and made in India.

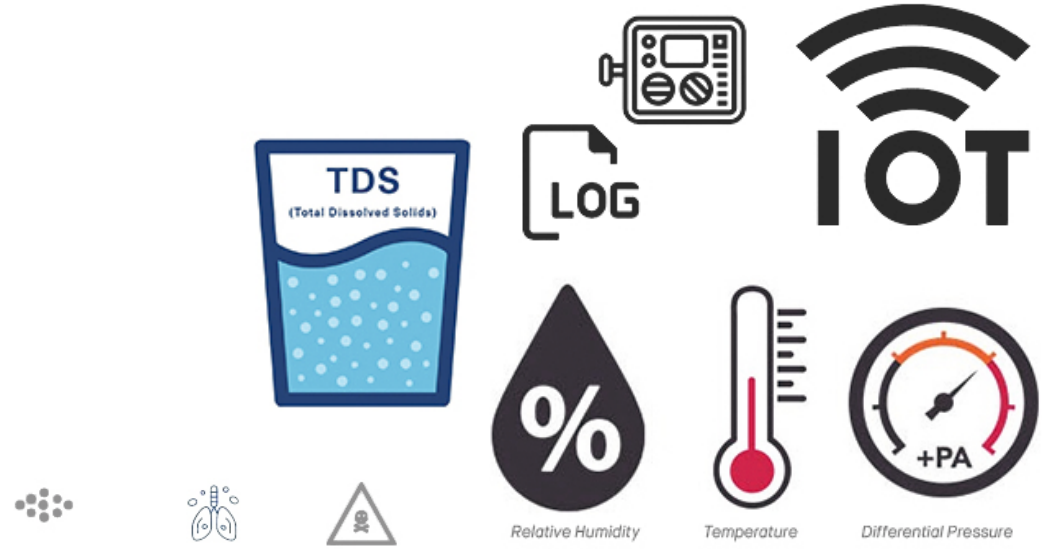
With nearly five decades of innovation, Global Electronics is one of India's leading manufacturers and exporters of analysers, sensors, and monitoring solutions for defence, research, pharmaceuticals, infrastructure, healthcare, hospitality, and industrial automation.

Operating from a modern 20,000+ sq. ft. integrated R&D and manufacturing facility, the company follows a complete end-to-end in-house approach from concept design and engineering to assembly, testing, calibration, and final quality assurance. This vertically integrated capability enables the delivery of instruments that consistently meet international standards of accuracy, ruggedness, reliability, and long-term stability, even under the harshest operating conditions.

A Trusted DRDO Partner for Over Four Decades

A key milestone in Global Electronics' journey is its four-decade association with the Defence Research & Development Organisation (DRDO). Since the late 1970s, the company has supplied and custom-engineered specialised sensors and measurement systems for defence, aerospace, and research laboratories across India. Precision, durability, and strict compliance are the demands of these projects. Global Electronics instruments feature NABL-traceable calibration, flame-proof certification, and are tested for EMI/EMC, vibration, thermal shock, and endurance. Custom-built to exact specifications, they continue to support India's strategic and scientific missions reflecting the company's lasting trust, technical strength, and reliability.





Repeat DRDO orders since 1981 reaffirm its proven capability and performance.

Leadership Anchored in Experience and Continuity

At the core of Global Electronics' success is leadership grounded in experience and technical excellence. Founded in 1977 by Dr Gurmeet Singh, the company was built on a vision of indigenous innovation, precision engineering, and reliability. With over 40 years in instrumentation design and manufacturing, his guidance continues to shape the organisation's strategy and technology direction. Supporting this foundation is Ms Sujatha Kaur, who oversees core management and business functions, ensuring operational discipline and alignment between strategy and execution.

Driving growth and market expansion is Mr Jasmeet Singh, who leads business development and sensor solutions. His role links customer requirements with engineering execution, enabling Global Electronics to deliver customised solutions across defence, industrial, and global markets.

Ms Bharthi heads Quality Control and Assurance, ensuring adherence to international standards and consistent reliability across all products. With over two decades of experience, she upholds the company's commitment to compliance and quality.

Ms Madhura leads Research and Development, bringing more than 20 years of expertise in product design and custom engineering to meet evolving global and defence needs.

Together with a skilled engineering team and dedicated R&D and QC ecosystem, this leadership ensures continuous innovation and enduring standards of precision and trust.

Precision Products for Mission-Critical Applications

Global Electronics offers a wide range of sensing and monitoring solutions, including pH/ORP, conductivity, TDS, optical dissolved oxygen, temperature, RTD, and RPM sensors, data loggers, and humidity and temperature transmitters. Its portfolio also includes differential pressure and air velocity sensors, SCADA- and BMS-compatible systems, and Indoor Air Quality (IAQ) monitors for CO, CO_2, oxygen, PM2.5, and VOCs. These products are used in pharmaceutical cleanrooms, API plants, hospitals, commercial buildings, hotels, data centres, and other critical facilities where accuracy and reliability are non-negotiable.

Custom Engineering, Automation, and Global Compliance

A key differentiator for Global Electronics is its expertise in custom sensors, transmitters, and automation solutions. The company develops EMI/EMC-safe instruments for process control, including RH/temperature and differential pressure transmitters, pH/ORP analysers, and conductivity/TDS systems integrated with SCADA and BMS platforms.

All products comply with European safety, health, and environmental standards. The quality management system is certified to ISO 9001:2015, and CE marking ensures international conformity. Calibration and testing use NABL-traceable standards, guaranteeing consistent accuracy and reliability.

The company also designs PLC-independent automation systems and advanced process control solutions for industrial and defence applications.

Indian Innovation, Global Impact

Fulfilling its founder's vision, Global Electronics exports “Designed & Made in India” instrumentation worldwide. With continuous innovation, a strong defence background, and in-house design and manufacturing strengths, the company engineers solutions that enhance process safety, environmental control, and mission-critical applications across global markets.

Global Electronics
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Website: www.ge-india.com

HITECH
You are rightly connected

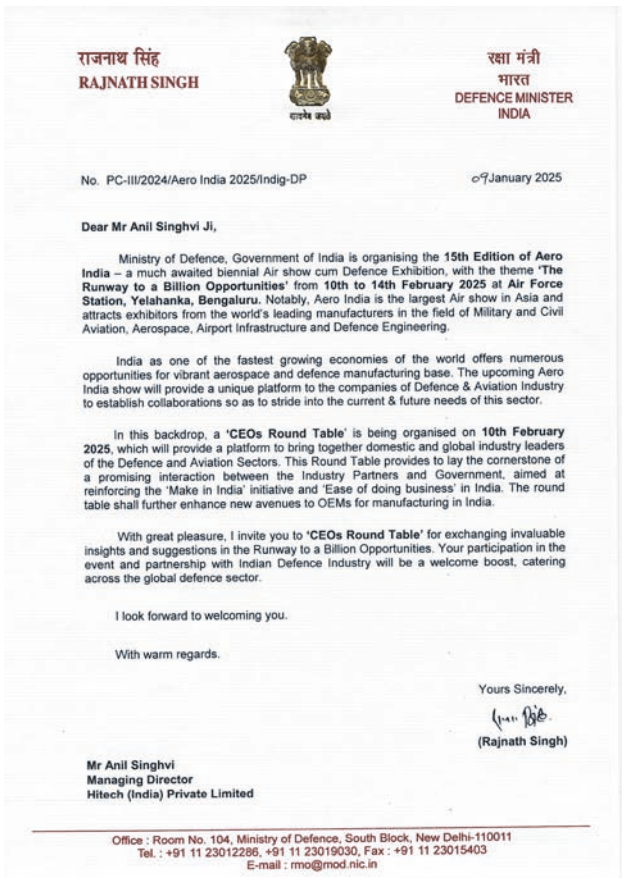
Hitech India Private Limited



Connectors That Power Missions



Anil Singhvi
Managing Director



राजनाथ सिंह
RAJNATH SINGH

रक्षा मंत्री
भारत
DEFENCE MINISTER
INDIA

No. PC-III/2024/Aero India 2025/Indig-DP

09 January 2025

Dear Mr Anil Singhvi Ji,

Ministry of Defence, Government of India is organising the **15th Edition of Aero India** – a much awaited biennial Air show cum Defence Exhibition, with the theme **'The Runway to a Billion Opportunities'** from **10th to 14th February 2025** at **Air Force Station, Yelahanka, Bengaluru.** Notably, Aero India is the largest Air show in Asia and attracts exhibitors from the world's leading manufacturers in the field of Military and Civil Aviation, Aerospace, Airport Infrastructure and Defence Engineering.

India as one of the fastest growing economies of the world offers numerous opportunities for vibrant aerospace and defence manufacturing base. The upcoming Aero India show will provide a unique platform to the companies of Defence & Aviation Industry to establish collaborations so as to stride into the current & future needs of this sector.

In this backdrop, a **'CEOs Round Table'** is being organised on **10th February 2025**, which will provide a platform to bring together domestic and global industry leaders of the Defence and Aviation Sectors. This Round Table provides to lay the cornerstone of a promising interaction between the Industry Partners and Government, aimed at reinforcing the 'Make in India' initiative and 'Ease of doing business' in India. The round table shall further enhance new avenues to OEMs for manufacturing in India.

With great pleasure, I invite you to **'CEOs Round Table'** for exchanging invaluable insights and suggestions in the Runway to a Billion Opportunities. Your participation in the event and partnership with Indian Defence Industry will be a welcome boost, catering across the global defence sector.

I look forward to welcoming you.

With warm regards.

Yours Sincerely,

(Rajnath Singh)

Mr Anil Singhvi
Managing Director
Hitech (India) Private Limited

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Tel. : +91 11 23012286, +91 11 23019030, Fax : +91 11 23015403
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Founded in 1975 by US-trained technocrats, Hitech India Private Limited develops import-substitute electro-mechanical and electronic interconnects for India's defence and professional electronics sectors. From its Hyderabad base, the company has pioneered rugged, high-reliability connectors and cable harnesses for defence, aerospace, industrial, EV, and solar applications, designed for harsh, high-vibration environments.

Hitech India is a leading Indian manufacturer of military-grade connectors compliant with MIL-C-5015 and GOST standards, using plastic, elastomer, metal, and composite materials. Engineering strengths span hermetic sealing, high-density layouts, high-frequency RF, and custom blind-mate designs with integrated electronics, supported by in-house autoshops, moulding, die-casting, and testing for complete quality control.

It has transformed over the decades into a comprehensive interconnect provider for missiles, rockets, tanks, and communication systems. With over 45 years of experience, it now serves BDL, BEL, ECIL, NFC, Indian Navy, Indian Air Force, Ordnance Factories, L&T, Amphenol, IComm, Adani, etc.

Commanding the Engineering Edge

Mr Anil Singhvi is the Managing Director of Hitech India Private Limited. He graduated in Electronics and Communications Engineering from Gulbarga University in 1982 and was nominated for the university gold medal, showcasing strong engineering and academic excellence.

Since joining Hitech India in 2007, he has leveraged his operational and financial acumen to guide the company through technological advancement and market consolidation. Under his leadership, Hitech India has delivered key indigenous import

substitution products by expanding its portfolio of MIL-spec, hermetic, RF, Russian-pattern, high-density connectors and cable harness solutions for critical naval platforms.

A moment of pride was when the Ministry of Defence, Government of India, bestowed upon Mr Singhvi the exclusive honour of addressing the 15th '***Aero India CEOs Round Table***' on 10 February 2025 at Air Force Station Yelahanka, Bengaluru, on his pioneering contributions to Indian defence in the area of indigenous interconnects.

Strategic Battlefield Verticals

- **Defence and Aerospace**: Connectors for missiles, rockets, tanks, submarines, radars, communications; vibration-proof, environmentally protected.
- **Industrial and Security**: High-vibration interconnects, filtered EMI/RFI connectors, M5-M23 sensors, tools/accessories.
- **Automotive and EV**: Cable harnesses, Delphi/Tyco-like connectors for heavy-duty/EV applications.
- **Renewable Energy**: Solar MC4 connectors for PV modules/power systems.
- **Specialised**: Russian-pattern, Micro-D/Nano, high-density D38999, D-type, backshells, caps, crimp tools.





Specialists In High-Reliability Interconnects

Hitech India's core strength lies in designing and manufacturing professional and military-grade circular, RF, specialised connectors and cabling solutions. The company uses plastic, elastomer, metal, and composite technologies for environmental and hermetic applications. Shell materials range from aluminium and stainless steel to Kovar, Inconel, and titanium. Contact materials suit high-temperature and thermocouple needs. Its engineering approach delivers custom configurations such as high-density layouts, blind-mate designs, special shell geometries, and integrated electronics.

Innovative Products For Defence, Aerospace And Beyond

Hitech India Private Limited's flagship products are military-grade connectors and assemblies. These withstand extreme vibration, temperature, and environmental stresses in missiles, rockets, tanks, submarines, radars, and communication systems.

- **MIL-C-5015 Circular Connectors**: Rugged threaded connectors for military applications; full custom development.
- **Hermetic Connectors**: Glass-to-metal seals in stainless steel/titanium/kovar (-196°C to +538°C); solder cup/PC tail.
- **High-Density D38999 Series**: Compact MIL-DTL-38999 alternatives; rear-release crimp/PC tails, size 23 for 22-28 AWG.
- **Russian GOST Connectors (TEO-364 Series)**: Self-locking for vibration in missiles/rockets/tanks.
- **RF Connectors**: Low-loss Russian/American standards to 85 GHz; military RF cables.
- **Micro-D and Nano Circular Connectors**: MIL-DTL-83513 mini D-subs/nano; solder-dipped/wire-lead.
- **D-Type Connectors**: High current military grade (9-104 pins); solder/PCB/crimp, vibration/temperature-resistant.
- **Cable Harnesses and Backshells**: Custom assemblies for INS Arihant radars; MIL-26482/D38999/D-type in aluminium/steel.
- **Filtered Connectors**: Integrated EMI/RFI suppression for susceptibility reduction in sensitive avionics and missile systems

Quality, Certifications And Trust Earned

Hitech India embeds quality across design, manufacturing, and testing at its Facilities. All connector production and inspection are in-house with modern machinery and test equipment.

The company holds ISO 9001:2015 certification and DGQA/LCSO approval, confirming adherence to defence standards. Enduring partnerships with key defence and industrial clients affirm its reliability for high-performance interconnects.

Hitech India Private Limited

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