CII INDUSTRIAL INNOVATION AWARDS2025
Recognizing Champions of Indian Innovation

CII
Confederation of Indian Industry

CII

INDUSTRIAL INNOVATION AWARDS 2025

A COMPENDIUM

December 2025

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Foreword

Mr Chandrajit Banerjee

Director General
Confederation of Indian Industry (CII)

Innovation and technology have become the twin engines powering India's economic rise and expanding its global influence. They are reshaping the very foundations of our competitiveness—fueling new industries, redefining value chains, and positioning India as a trusted partner in global technology and sustainability transitions.

Today, the convergence of innovation, entrepreneurship and research excellence is unlocking unprecedented opportunities. Indian enterprises are not just responding to market needs—they are anticipating them, creating world-class solutions that address both domestic priorities and global challenges.

From clean energy and digital infrastructure to manufacturing, mobility, and healthcare, Indian organizations are embedding R&D and innovation into their strategic DNA. This deep shift is driving exports of technology, attracting global partnerships, and reinforcing India's emergence as a hub of creativity, engineering capability, and future-ready solutions.

Since their inception in 2014, the CII Industrial Innovation Awards have been catalysts in this transformation. By recognizing excellence, benchmarking innovation maturity, and fostering innovation culture, the Awards have become a definitive platform for celebrating India's innovation leadership. Each edition mirrors the growing depth, diversity, and dynamism of innovation across the country's industrial landscape.

As we look to the future, sustained investment in R&D and innovation will define India's next leap of growth. At CII, we remain deeply committed to strengthening this ecosystem—one that empowers our industries to imagine boldly, innovate fearlessly, and lead globally.

This Compendium captures that spirit. Each story within these pages is a testament to India's creativity, courage, and collaborative energy—proof that when India innovates, the world takes notice.

I hope you enjoy reading these remarkable stories that capture the pulse of India's innovation journey.

Foreword

Mr Vipin Sondhi

Chairman, CII Industrial Innovation Awards 2025
& Former Managing Director & Chief Executive Officer, Ashok Leyland, JCB India, and Tecumseh India

Innovation today is the cornerstone of India's economic and industrial progress. As the nation builds momentum toward becoming a technology-driven economy, innovation and R&D are shaping how industries grow, compete, and contribute to society. The ability to translate ideas into scalable, sustainable solutions has become the defining feature of global leadership.

The CII Industrial Innovation Awards consistently recognizes and celebrates this spirit, honoring enterprises that demonstrate how creativity, collaboration, and capability converge to create impact. Since 2014, these awards have celebrated outstanding innovations, inspiring organizations of all sizes to push the boundaries of creativity and excellence. This year, the awards recognize the Top 100 organizations identified through a rigorous assessment framework developed by CII. An eminent jury of experts meticulously evaluated the high-caliber entries, reflecting the growing commitment of Indian organizations to strengthening their innovation capacity and capabilities.

What makes this journey remarkable is its collective strength, the seamless interaction between academia, industry, and government. Together, they are creating an ecosystem that encourages experimentation and rewards outcomes that advance national priorities and global excellence.

As this Compendium showcases, innovation in India today is not confined to sectors or scale, it is an ethos that defines the nation's forward momentum. I hope these inspire continued commitment to build an innovation-led economy that serves both India and the world.

Foreword

Prof Rishikesha T. Krishnan

Co-Chairman, CII Industrial Innovation Awards 2025
& Professor and Former Director, Indian Institute of Management (IIM) Bangalore

India, one of the world's fastest-growing economies, continues to advance through a steadfast commitment to innovation. By placing innovation at the heart of its development agenda, the nation has strengthened its position as a global hub of creativity, technology, and enterprise.

It is heartening to note that the academic institutions today stand at the forefront of shaping India's innovation and R&D landscape. They are evolving from being centres of learning to becoming engines of applied research and knowledge-driven enterprise. By nurturing curiosity-led inquiry and translating research into real-world solutions, academia is laying the foundation for long-term, innovation-led growth. The emergence of interdisciplinary research clusters, innovation hubs, and campus-based startups reflects a thriving culture of application-oriented discovery and entrepreneurship.

I feel privileged to have been associated with the CII Industrial Innovation Awards since their inception and to have contributed, in a small way, to this inspiring journey of celebrating innovation and collaboration. By recognizing organizations that exemplify excellence in innovation, the Awards continue to nurture the spirit of creativity, resilience, and forward thinking that drives India's progress.

As India continues to prioritize research-led growth, it is vital to strengthen and scale such innovation culture. A vibrant innovation ecosystem—anchored in excellence, inclusion, and impact—will be key to realizing India's aspiration of becoming a global leader in innovation.

This Compendium brings together inspiring success stories that showcase how creativity born from curiosity can transform challenges into opportunities. It offers valuable insights into how Indian industry is shaping a more sustainable, technology-driven, and human-centric future.

Foreword

Mr Alok Nanda

Co-Chairman, CII Industrial Innovation Awards 2025 &
Co-Chairman, CII National Committee on Technology, Innovation and Research CTO, GE Aerospace India

Innovation is invention multiplied by impact — where creativity meets commercialization to deliver real-world value. It is not just about generating new ideas but about translating them into tangible outcomes that transform industries, improve lives, and drive economic growth. In this sense, innovation is the bridge between imagination and implementation, between aspiration and achievement.

India's innovation landscape has evolved rapidly in recent years, propelled by visionary entrepreneurs, forward-thinking corporations, and dynamic academic and research institutions. This collective momentum is redefining the country's global identity—from a hub of cost-effective production to a cradle of original ideas and breakthrough technologies.

The CII Industrial Innovation Awards have been instrumental in spotlighting such achievements, serving as a benchmark for excellence and a platform for learning. They showcase how large and small Indian enterprises are driving meaningful transformation through innovation-led approaches.

As India aspires to become a global leader in innovation, the integration of research, technology, and enterprise will remain central to its progress. Indian enterprises can continue to shape an innovation ecosystem that delivers impact at scale, across sectors, communities, and borders.

This Compendium captures inspiring examples of such success stories—of enterprises that have turned inventive ideas into impactful solutions. It serves as both a celebration and a source of learning for those who believe that innovation, when pursued with purpose and perseverance, is the true engine of progress.

Executive Summary

The CII Industrial Innovation Awards 2025 Compendium presents a curated collection of India's most pioneering industrial enterprises — organizations that exemplify excellence through innovation, strategic vision, and impactful execution. This publication captures the essence of contemporary industrial transformation by documenting the best practices, innovation models, and results that distinguish these enterprises in a rapidly evolving global landscape. Each story featured here reflects how purposeful innovation—anchored in vision, culture, and discipline—drives not only business success but also national competitiveness and sustainable growth.

Instituted in 2014 by the Confederation of Indian Industry (CII), the CII Industrial Innovation Awards have, over the past decade, become one of India's most respected platforms for recognizing innovation excellence. The Awards honour enterprises that have institutionalized innovation as a strategic enabler of growth, competitiveness, and sustainability. At the core of this initiative is the Enterprise Innovation Maturity Framework (EIMF), a comprehensive model that assesses innovation capability across four key dimensions—Innovation Culture, Innovation Management, Innovation Inputs, and Innovation Output. The framework enables organizations to benchmark performance, identify improvement areas, and strengthen their ability to deliver scalable, sustainable, and market-relevant innovations.

The 2025 Compendium showcases a diverse set of industrial leaders whose innovative journeys demonstrate foresight, agility, and transformative thinking. Each story reflects how purposeful innovation—anchored in vision, culture, and discipline—can drive not only business success but also national competitiveness and sustainable growth.

Through these case studies, the Compendium aims to inspire industry leaders, entrepreneurs, and policymakers to embrace innovation as a continuous and strategic pursuit. Ultimately, it serves both as a record of achievement and a guide for the future—celebrating organizations that lead with vision, execute with precision, and create enduring value in an era defined by disruption and opportunity.


Industry

Access Healthcare

About the Company

Since 2011, Access Healthcare has empowered hospitals, health systems, medical groups, and RCM firms to achieve scalable growth. Combining technology-led innovation with a people-first approach, we transform healthcare domain business processes through intelligent automation and best practices, driving superior clinical, administrative, and financial outcomes across the healthcare value chain.

The Innovation

At Access Healthcare, innovation drives everything we do. Here are some recent examples. audit360 is our AI-powered audit automation platform that ensures real-time compliance tracking and intelligent quality scoring, automating claim audits with predictive accuracy and speed. echo tone revolutionizes hiring by using AI to evaluate voice, language, and accent objectively, ensuring fairness and consistency in recruitment for voice-based roles. arc.knol 2.0, powered by our proprietary co-pilot Superbiller, is an AI-driven knowledge platform that delivers contextual learning and decision support, enabling employees to access insights in real time, improve accuracy, and continuously enhance productivity across healthcare business processes.

The Approach

Access Healthcare drives innovation through two channels: a Business Transformation Group that transforms client-specific operations via automation and process redesign, and a crowdsourced innovation model empowering employees to share ideas on our internal platform. This dual approach enhances efficiency, fosters collaboration, and rewards creativity across our global workforce.

The Benefits

Access Healthcare serves as a trusted strategic partner to the US healthcare industry. By helping providers navigate complex reimbursement systems and achieve financial sustainability, we enable them to concentrate on their primary mission: delivering exceptional patient care. We work with clients to provide market-leading automation solutions, and consistent quality.

Acsia Technologies Pvt. Ltd.

About the Company

Acsia Technologies is a global leader in automotive software, delivering advanced solutions for Digital Cockpits, e-Mobility, Telematics, and next-generation in-vehicle platforms. Our expertise spans AUTOSAR, Android Automotive, Automotive Linux, QNX, HMI development, middleware and platform engineering, AI/ML, vision systems, model-based development, CI/CD/CT pipelines, ambient lighting, system engineering, testing and automation, cybersecurity, functional safety, and performance optimisation. By applying deep technical knowledge, we help customers simplify complex engineering challenges and create safer, more sustainable, and more engaging mobility experiences.

Our facilities and projects adhere to global quality and security standards, including ISO 9001:2015, ISO 27001:2022, ISO 21434, ISO 26262, TISAX AL3, and ASPICE CL2. With a strong presence across the United States, Germany, Japan, and India, we partner closely with leading OEMs and Tier-1 and Tier-2 suppliers

The Innovation

LiLA—short for Learning Intelligent Layered Architecture—is Acsia's on-premise Agentic AI Platform designed to transform requirements, defect, and test management. Born from real operational needs within our engineering teams and customer environments, LiLA embodies the shift towards smarter, software-defined mobility engineering.

Created specifically for embedded and automotive workflows, LiLA acts as a collaborative assistant rather than a replacement for engineers. It automates requirement parsing, strengthens traceability across the V-model, identifies gaps, and supports developers with boilerplate generation, test case suggestions, and code optimisation. It accelerates diagnostics by analysing massive log datasets, clustering defects, and uncovering patterns within minutes. For teams focused on ASPICE or MISRA compliance, LiLA ensures documentation consistency and reduces audit-related rework.

Fully modular and configurable, LiLA operates through a secure on-premise setup—from GPU-powered workstations to enterprise clusters—ensuring that sensitive data never leaves the organisation.

The Approach & Benefits

LiLA's architecture is built on scalable, open-source models deployed locally for complete data privacy. Guardrails, secure VPN integration, and compute-node extensions enable safe, high-performance use with minimal cloud dependency, delivering cost-efficient and environmentally conscious AI.

LiLA enhances productivity by at least 40%, achieves up to 95% analysis accuracy, and ensures end-to-end quality compliance. By automating test generation, scripting, reporting, and traceability, it reduces manual effort, accelerates delivery, and empowers teams to make informed, quality-driven decisions at scale.

Adani Defence and Aerospace

About the Company

Adani Defence & Aerospace is a pioneer in the design, development, and manufacturing of state-of-the-art defence products. We take pride in supporting the 'Aatmanirbhar Bharat' initiative and contributing to the national security agenda. We have established a vibrant ecosystem of start-ups and MSMEs with best-in-class processes and quality management systems.

The Innovation

Adani Ammunition Complex, Kanpur

Our Kanpur facility is one of South Asia's largest and most advanced ammunition plants. It leverages cutting-edge automation, robotics, and AI-driven inspection to ensure exceptional quality and safety standards, achieving a defect rate of <1%, versus ~15% in conventional setups. Despite its production capacity, the facility operates with a workforce of about 130 personnel (compared to ~1,200 in legacy plants). Each round produced is fully traceable, providing the armed forces with reliable and safe ammunition. Additionally, we have also developed innovations like UAV-launched precisionguided munitions, artillery guns, vehicle-mounted C-UAS, and Swa.Rakshak Secure-perimeter security solution. These offerings reflect our innovation-driven approach and unwavering commitment to India's "Aatmanirbharta" in defence.

The Approach

Adani Defence & Aerospace pursues innovation through co-location with DRDO, collaborations with IITs, MSMEs and startups, and by embedding Industry 4.0 practices in manufacturing. By focusing equally on product, process, and safety innovation, we ensure that every solution from UAVs to ammunition is designed for reliability, scalability, and alignment with India's self-reliance goals.

The Benefits

Our innovations reduce import dependence, enhance operational readiness, and deliver unmatched reliability to the armed forces. Ammunition production has doubled with one-eighth the manpower, defect rates are <1%, and AIdriven security systems protect critical infrastructure with minimal resources. These in-house innovations strengthen national security & position India as a defence hub.

Aditya Aluminium

About the Company

Aditya Aluminium (AA), part of Hindalco Industries Limited and the Aditya Birla Group, operates at a capacity of 360,000 tons of aluminium per year. Power for production is generated by a 900 MW coal-based Captive Power Plant, supported by a USD 2 billion investment. The 3,300-acre complex features a modern township and water reservoirs for operational support. The smelter, utilizing Rio Tinto Alcan's AP 36S technology, achieved full capacity in March 2016 after a record 26-month build. With lowest conversion costs in India, AA is a leader in premium aluminium production, certified for various international standards and recognized in the global market.

The Innovation

Strategic decisions are driven by SWOT analysis and requirement assessments across Corporate, Cluster, and Unit levels, with each initiative undergoing rigorous pre-assessment and risk evaluation. Innovation is fostered through platforms like PRIDE, REPRISM, and IGNITE, leading to breakthroughs such as Copper Insert, Copper Onsert, AlSi3 in SOW Form, P0202, Multigrade PFA, and globally renowned Al59 in SOW Form. A landmark 400 kV project integrates solar, pumped hydro, and wind power for smelting. Digital advancements include Energy Management Systems, Smart Anode Shops, digital twins, AI/ML analytics, AR/VR, and smart monitoring systems. Hindalco holds patents for the Copper Insert and pure aluminium process

The Approach

To guarantee total customer satisfaction, all executives regularly interact with customers, irrespective of their roles. To achieve our vision within a set timeframe, we've crafted a strategy that incorporates innovations from our SWOT analysis to identify Critical Success Factors (CSFs), each managed by a member of the leadership team. These CSFs connect to long-term strategic goals and are translated into actionable plans reviewed monthly by the Core Committee, which develops strategies to enhance profitability sustainably based on current and future scenarios. We follow the world class practices, for validation we participate in various renowned awards like IMC-RBNQA-2024(Quality Award Trophy winner), IMEA (Platinum in Indian Manufacturing Excellence Award) etc.

The Benefits

As a result of the continuous improvement projects and innovations implemented, we have achieved a variety of tangible and intangible benefits. Below is a brief list of innovative projects along with their associated benefits for your reference.

The Future

To balance short- and long-term challenges, our leadership prioritizes resource allocation and reviews progress on strategic objectives. Extensive stakeholder input guides planning. Aditya is advancing sustainability with low carbon aluminum from renewable energy, a new FRP plant, and projects for recycled metal. Initiatives include transitioning to natural gas and exploring floating solar.

Ador Welding Ltd.

About the Company

Established in 1951, ADOR manufactures welding equipment, consumables, and welding automation solutions. Focused on Make in India, ADOR has six manufacturing facilities nationwide. Its R & D Centre is recognized by the DSIR (GOI). Sales and distribution network across India and the globe (ME, SEA, Africa, NA, Australia) and solutions to a wide spectrum of industries.

The Innovation

This product is Electric Welder which operates on Lithium Ion Battery , specifically developed to use in places where electricity is not available. It comes with separate battery charger to charge the battery offline. Below are uniqueness and innovation in this product:

- It operates on single Battery pack as well as 3 phase 415Vac supply with maximum 200A and 400A rating respectively.
- Unit is having three parts in modular construction as welding apparatus, Battery box and trolley with foldable handle which can be assembled or disassembled on site without any tools.
- It supports multi welding process of SMAW , GMAW and FCAW with help of Arc voltage sensing wirefeeder.
- Swappable battery allows to change the drained battery with charged battery without interruption of welding work.

The Approach

Below are the considerations for this innovative product-

- Zero carbon emission
- Light weight and modular construction for easy transportation
- Sufficient input supply for a day working at open and remote sites by swappable batteries.

The Benefits

- It eliminates the engine driven welding machines or power generators to give the welding output – Hence no fossil fuel and zero carbon emissions: Environment protection.
- Due to operation on single swappable battery, full working day is possible by change over of drained battery with charged battery without interruption of work.
- Modular construction allows user to transport easily by assembling and disassembling complete unit quickly without any tools.

Afcons Infrastructure Limited

About the Company

Afcons Infrastructure Ltd, the flagship of the 159-year-old Shapoorji Pallonji Group, has a legacy of 60+ years in executing complex infrastructure projects globally. Ranked among top international contractors, Afcons excels in marine, bridges, and transportation, and has won multiple Most-Admired-Knowledge-Enterprise and Most-Innovative-Knowledge-Enterprise awards for Innovation and Knowledge Management processes.

The Innovation

Afcons Infrastructure Limited's Chenab Railway Bridge is a symbol of India's engineering excellence, standing 359m above the Chenab riverbed—35m taller than the Eiffel Tower. As the world's highest single-arch railway bridge, it withstands magnitude 8 earthquakes, high-intensity blasts, and winds up to 260 km/h. Located in seismic zone IV, it features groundbreaking innovations like the world's largest cross-bar cable crane and the World's first-ever incremental launching of a deck on a combined circular-transition curve. These feats of extreme engineering highlight India's capability in modern infrastructure and reinforce national pride, safety, and connectivity in challenging terrains.

The Approach

Afcons drives innovation via its trademarked Improvation™ framework and 4-Way Test, ensuring timely project delivery. Annual campaigns like Innovate-XL(Annual Innovation Fair), KNOW-vember 2 DISS-ember, and Da-Vinci promote knowledge sharing. A robust library, expert teams and a digital-portal support cross-learning, anchored by the Afcons-Talent-Management-Academy for continuous knowledge dissemination.

The Benefits

The Chenab Bridge transforms lives in Jammu & Kashmir by connecting remote communities to India, boosting tourism, jobs, and local trade. It ensures all-weather rail access from Kanyakumari to Kashmir, enabling swift military logistics and national security. The bridge fosters socio-economic growth and empowers everyday citizens through better connectivity.

AKS IT Services Private Limited

About the Company

Established in September 2006 and incorporated under the Company Act, 1956, AKS IT Services is a leading provider of cyber security services and products. The company offers a wide range of services, including consultancy, compliance, network security, application security, cyber forensics, cyber security training, and indigenous development of Cyber Security Products. AKS IT is empanelled with Gov of India (CERT-In, CCA, STQC & NICSI). The Company is ISO 9001:2015, ISO 20000-1:2018 and ISO 27001:2022 certified. Our clientele includes Central & State Govt, Indian Armed Forces, BFSI (SBI, Central Bank, Canara Bank, IIFCL.., Oriental Insurance, General Insurance), PSU (NTPC, Power Grid, NHPC..) and Corporates (Tata Power, Hitachi, Siemens, GE Vernova etc). With over 19 years of experience, the company has successfully conducted more than 14,000 application security audits, among the highest by a CERT-In empanelled agency.

The Innovation

Since beginning, AKS IT Services, started indigenous development of cyber security products. We are Govt, Department of Science and Technology approved R&D organization vide letter no. TU/IV-RD/5104/2025. We are a tech-savvy company committed to developing advanced, "Made in India" solutions that meet global standards and address evolving cyber threats. Our indigenous products showcase this commitment and include Cloud-based, and on premises solutions such as Web Application Firewall (WAF), Anti DDoS, Link Load Balancer, Server Load Balancer, Global Load Balancer, ADC, DNS Security & CDN Services. In addition, we have developed specialized Digital forensic machines like AKS Forensic Workstation, AKS Password Cracking Machine, and AKS IT RF Shielding Bag & RF Shielding Paint (For reduction of radar cross section of Indian Naval ships under IDEX). Our Digital Forensics solutions are designed to support law enforcement agencies, defence services, and intelligence agencies.

The Approach

Our approach is focused on indigenous development of technology and products as substitution to foreign products and to make our country Atmanirbhar. Earlier Forensic Workstations were being imported from US. We had problem for maintenance of these machine. We carried out R&D and developed AKS Forensic Workstation in 2015. The workstation was tested in house thoroughly and given for testing to government (Cert-in) and the performance was found good. It has also been bench marked by Indian Navy. We have so far sold around 100 workstations.

The Benefits

Our indigenous technology & products are as good as any international products. With this indigenisation, our country don't require to import these products from Foreign countries. This is import substitution, saving of foreign exchange and making our country self-reliant in these products. The mission to develop swadeshi products continues and we are planning to develop AI based enterprise Robotics Process Automation (RPA) using AI/LLM framework, deep fake media identification.

ArcelorMittal Nippon Steel India Private Limited, Khopoli

About the Company

AMNS India Khopoli plant spans 400 acres and produces 7.5 lakh tonnes of steel annually. It has cutting-edge facilities for pickling, rolling, galvanising, colour coating and steel processing for customised requirements of customers. The plant is strategically located near automobile and appliance hubs with an excellent logistics connectivity access.

The Innovation

AMNS Khopoli, in collaboration with its customer, developed a 0.8 IF grade PPGI product for front-load washing machine doors, replacing imported material and supporting India's "Atmanirbhar Bharat" initiative. Similarly, it created a specialized IF grade steel for refrigerator front doors with a high-gloss, three-coat paint system. These innovations reduced the customer's reliance on foreign suppliers, shortened lead times, and accelerated internal product development. The successful execution of both projects strengthened customer trust and earned AMNS Khopoli recognition for its commitment to innovation, quality, and domestic manufacturing, reinforcing its role in driving import substitution and enhancing customer satisfaction.

To improve corrosion protection during transport and storage, AMNS Khopoli has adopted advanced surface treatment technologies. Traditional methods like boiled oil are ineffective in C5 environments, prompting the use of thin organic transparent coatings with nano-pigments and low VOCs. These coatings offer enhanced corrosion resistance, mechanical strength, and environmental safety. Alkyd resin-based systems provide up to 12 months of protection. For white goods, AMNS developed TOC coils with anti-fingerprint, scratch resistance, and excellent paint adhesion. These coatings are paintable without pretreatment, reducing energy use and simplifying processes. Their versatility supports industries like automotive, electronics, and construction, promoting sustainability and innovation.

The Approach

AMNS Khopoli plant implemented innovations through a structured framework that emphasized collaboration with relevant stakeholders, including customers and vendors, for idea generation and initiative selection. Thoughtful pilot experiments were conducted, followed by systematic horizontal deployment. Using PDCA and SDCA cycles, innovations were continuously measured, monitored, and embedded into the SOPs.

The Benefits

AMNS Khopoli's innovations in appliance-grade steel and surface treatments enabled import substitution, cut lead times by 30%, and improved customer responsiveness. Advanced coatings extended corrosion resistance to 12 months. Process enhancements boosted efficiency and quality, earning customer trust, 11 new clients, and a 64% surge in white goods output.

ArcelorMittal Nippon Steel India Private Limited, Gandhidham

About the Company

AMNS India Gandhidham, strategically located near Kandla and Mundra ports, spans a state-of-the-art downstream facility with a 6 lakh tonnes annual capacity. Equipped with advanced Cold Rolling, Galvanizing, and Color Coating Lines, it serves automotive, appliance, and construction sectors with high-quality coated and uncoated steel products, backed by robust logistics.

The Innovation

1. **Product innovation: -**
   - **A. HRPO Grade for Automotive OEMs**

     By upgrading its pickling line, the plant successfully developed HRPO steel suitable for automotive applications. This enabled entry into new market segments and reinforced its capability to deliver high-performance steel products.
   - **B. EDD Grade for CRCA/OEM Products**

     The plant optimized its thermal cycle to eliminate surface defects in EDD steel, enabling consistent supply for deep-drawing applications. This innovation expanded its product portfolio and strengthened its position in the automotive sector.
   - **C. TRG-55 Grade for CRFH Production**

     AMNS Gandhidham introduced TRG-55 grade steel to streamline cold rolling operations. This reduced the number of passes required, improved mill throughput, and supported higher production efficiency.
   - **D. Development of Low PMT Paint**

     AMNS Gandhidham developed low PMT paints in close coordination with vendors, enabling energy savings and boosting productivity significantly.

The Approach

AMNS Gandhidham drives innovation through structured frameworks like PDCA, DMAIC, and Business Excellence (BE) platforms. Cross-functional teams execute Focused Improvement Projects (FIPs), Lean initiatives, and Six Sigma programs. Innovations are piloted, validated, and horizontally deployed, with savings and impact tracked via digital dashboards and governance reviews.

The Benefits

The plant's innovations have enhanced sustainability, safety, and operational efficiency. Product developments expanded market reach, while automation and reliability improvements streamlined processes. These initiatives reflect AMNS Gandhidham' s commitment to excellence, customer satisfaction, and its role in advancing India's steel manufacturing capabilities.

ArcelorMittal Nippon Steel India Private Limited.

About the Company

ArcelorMittal Nippon Steel India (AM/NSI), A joint venture between global steel leaders, operates one of India's largest coastal integrated steel plants at Hazira and a nationwide Service Center network. Serving automotive, infrastructure, defense, and consumer sectors, we deliver advanced, sustainable steel solutions with innovation, reliability, and customer excellence at its core.

The Innovation

Magnelis®

Magnelis® is a patented Zn-Al-Mg alloy-coated steel developed by ArcelorMittal, introduced in India by AM/NSI. With 3% Mg and 3.5% Al, it delivers superior corrosion resistance, even in aggressive environments such as chloride-rich or highly alkaline conditions. Its self-healing effect on cut edges enhances durability, making it ideal for solar torque tubes, purlins, C-sections, and electrical panels. Magnelis® extends product life, reduces maintenance costs, and provides a sustainable solution to India's growing renewable and infrastructure markets.

Optigal®

Optigal® is an advanced zinc-aluminium-magnesium metallic coating tailored for pre-painted steel. By optimizing alloy composition, it reduces zinc consumption while delivering superior corrosion protection and smooth, spangle-free aesthetics. Optigal® enhances the lifetime of building materials, improves sustainability by reducing CO_2 emissions, and limits soil pollution by zinc oxides. Free from hexavalent chromium and heavy metals, it offers a safer, eco-friendly solution for roofing, cladding, facades, and sandwich panels. With its 25-year warranty, Optigal® establishes AM/NSI as a leader in durable, sustainable steel for construction and architectural applications.

The Approach

AM/NSI integrates R&D-led product innovation with Lean and Business Excellence frameworks. The PDCA cycle, KPI monitoring, and cross-functional deployment ensure scalability across product lines and Service Centers. Customer-focused programs like VA/VE workshops and technical support, combined with predictive safety systems, create a holistic model of innovation, efficiency, and stakeholder value.

The Benefits

Product innovations provided unique best in class never before experienced value proposition to indian customers. Our digital initiatives improved OTIF from 85.5% to 90.5%, boosted dispatch efficiency, and reduced manual errors. Service Centers strengthened safety and reliability. Together, these positioned AM/NSI as a benchmark in sustainable, customer-driven steel innovation.

ArcelorMittal Nippon Steel India Private Limited, Power Division-MFPP

About the Company

AMNSI Power Plant, located in Hazira, blends ArcelorMittal and Nippon Steel's global expertise to drive innovation, sustainability, and India's industrial growth. As Western India's only coastal steel hub, it serves diverse sectors - automotive, energy, infrastructure - with high-quality, customized steel solutions, reinforcing its role as a trusted industry partner.

The Innovation

AMNSI Power Hazira has pioneered a multi-fuel-based power generation model utilizing by-products like Corex gas and coal fines from steelmaking process, significantly reducing environmental impact and external power dependency. Innovations include optimizing auxiliary power in ESPs, upgrading displacer transmitters to guided wave radar, and enhancing boiler availability to avoid costly shutdowns. The plant also developed an Energy Management System for real-time monitoring and efficiency of the plant process system. These initiatives collectively contribute to operational excellence, sustainability, and cost savings, aligning with India's carbon neutrality goals and supporting the steel plant's growing energy demands through self-sufficient, eco-friendly power generation.

The Approach

AMNS Power employs a structured Lean methodology integrated with its Business Excellence platform, using tools like Quality Circles, KPI monitoring, and continual improvement assessments. The PDCA (Plan-Do-Check-Act) cycle underpins innovation management, fostering cross-functional collaboration, idea generation, and horizontal deployment across teams for sustained innovation and performance enhancement.

The Benefits

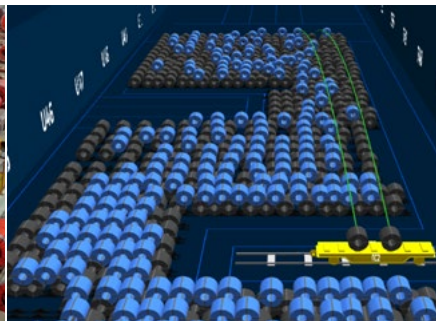
The innovations led to significant cost savings—₹25.8 crore by avoiding boiler shutdowns and 1.08 crore annually through ESP optimization. Reliability improved via upgraded instrumentation, reducing process disruptions. Energy efficiency, reduced carbon footprint, and enhanced operational stability have strengthened AMNS Power's role in supporting steel production and national sustainability goals.

ArcelorMittal Nippon Steel India Private Limited
CRM-1 Hazira

About the Company

AM/NS India is a leading integrated steel manufacturer committed to innovation, sustainability, and operational excellence. The CRM-1 unit at Hazira specializes in advanced cold rolling processes, delivering high-quality steel products for automotive, appliance, and infrastructure sectors. The company fosters a culture of continuous improvement and digital transformation to meet evolving industry demands.

The Innovation



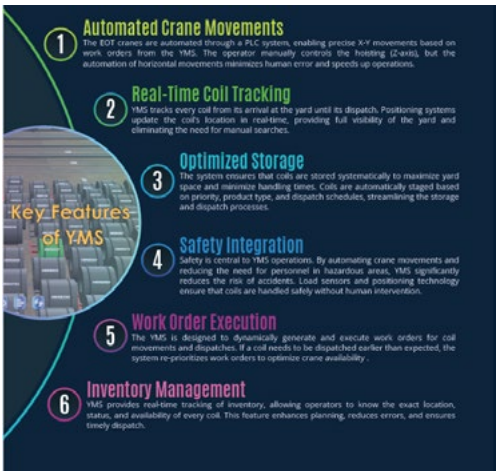
CYMS is a comprehensive digital solution developed to revolutionize coil yard operations at CRM. It facilitates real-time tracking, automated coil identification, and efficient storage and retrieval using latest technology. The system is seamlessly integrated with SAP, enabling synchronized data flow and eliminating manual errors. CYMS optimizes layout planning, reduces search time, and enhances inventory accuracy. It supports lean manufacturing principles and accelerates dispatch cycles, thereby improving customer satisfaction. The innovation has transformed traditional yard management into a smart, responsive, and transparent operation.

The Approach

The development of CYMS was initiated in response to operational challenges in manual coil yard management. A cross-functional team conducted a thorough analysis of existing workflows and identified key inefficiencies. Using lean principles and digital tools, the team designed a scalable solution that integrates with ERP systems. The approach included pilot testing, iterative refinements, and stakeholder training to ensure smooth adoption and long-term sustainability.

The Benefits

CYMS has significantly improved inventory accuracy, reduced coil search time, and enhanced dispatch efficiency. It enables real-time decision-making, minimizes manual intervention, and contributes to safer and smarter yard operations. The system supports AM/NS India's strategic goals of digitalization, operational excellence, and sustainability, while delivering measurable business value and improved customer service.



ArcelorMittal Nippon Steel India Private Limited Visakhapatnam Pellet Facility

About the Company

AM/NS Pellet Plant at Visakhapatnam is an 8MMTPA facility established in 1996 designed to operate with high quality iron ore concentrate. Over the years the raw material quality depleted, putting the capacity utilisation at risk. The asset's strong innovation culture, and well-trained personnel who leverage technology for excellence give the operations sustainability and competitive edge.

The Innovation

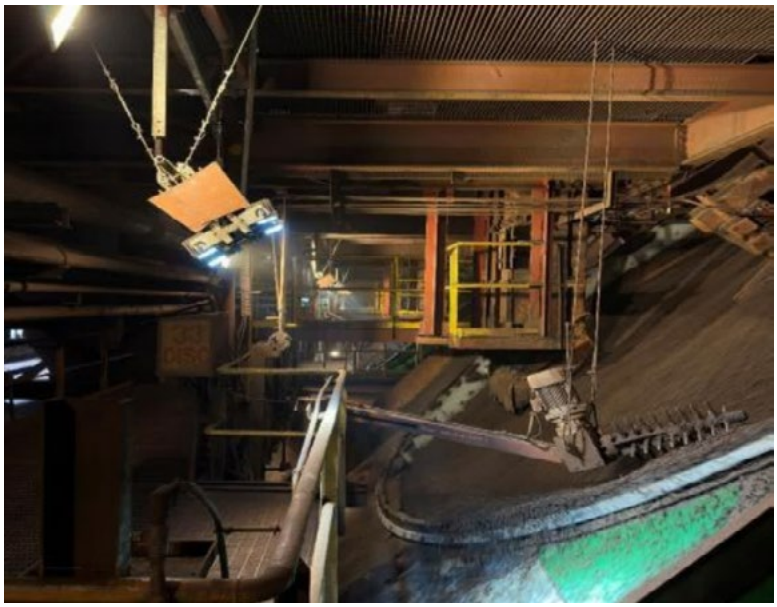
The AM/NS pellet plant at Visakhapatnam pioneered innovations in green balling automation, implementing precise control of disc speed and feed rates. This advancement in green balling enables consistent production of pellets sized between 9 to 16mm, optimizing permeability crucial for efficient induration and in steelmaking. Our adoption of real-time parameter monitoring, feedback control loops, and automation technologies has enhanced product uniformity and quality. Coupled with digitized process controls and data driven analytics, these innovations not only boost productivity but also set a new industry benchmark in sustainable pellet manufacturing driven by data intelligence and automation solutions.

The Approach

At AMNS pellet plant, we use DMAIC and lean methodologies for continuous improvement. We promote innovation by fostering a collaborative environment where engineers and associates share knowledge. Digital tools support idea management and feedback, refining concepts. Recognizing and rewarding innovation motivates our team to think creatively and take ownership, enhancing the performance and sustainability of our operations.

The Benefits

AM/NS pellet plant, Visakhapatnam Operations innovations have led to significant savings of ₹ 391Cr in CY2024, sustainability has also been a key focus of our innovations. Overall, these innovations have positioned AM/NS Visakhapatnam plant as a leader in the industry by winning the Steel Pinnacle Award at all India level and Emerging Technology award at AM Global level



Apcotex Industries Ltd.

About the Company

Apcotex Industries Ltd, one of the Indian Leading manufacturing company in synthetic latex, was founded in 1980 with only two different lattices. Afterwards it has taken over Omnova India Nitrile rubber division and spread its wings to the nitrile rubber and latex business. Current capacity of latex is around 150KTA.

The Innovation

- A) Apcotex became the first company in India to manufacture Nitrile Latex specifically for the gloves market. To ensure global quality standards and cost competitiveness, the company pioneered a seeded continuous monomer addition process. In this innovative method, monomers, surfactants, and other chemicals are introduced in a controlled, continuous manner, enabling precise sequencing of functional monomers and formation of a linear polymer chain in addition to minimizing VOC emissions. The seeded process allowed for effective control over particle size and distribution. This particle size control significantly enhanced the stability of the latex.

- B) As a leading manufacturer of Styrene Butadiene (SB) latex for paper, carpet, and construction applications, Apcotex pioneered a novel use of SB latex for examination glove coatings. In a global first, butadiene-based latex replaced the traditionally used guar gum-based formulations for this purpose. The SB latex was engineered to facilitate easier donning and doffing of thin nitrile latex gloves. Additionally, the glove coating was formulated to deliver both enhanced strength and a softer feel—achieving optimal performance and comfort in a single solution.

The Approach

After market feedback on batch latex, we scaled from 20 kg lab to pilot and demo. After finalizing the recipe, batch cycle reduction proved unfeasible in addition to higher cost, so a continuous process was developed at small scale. Using demo learnings, a 50 KTA plant was designed in-house with an optimized process.

The Benefits

Using continuous monomer addition (CMA) and seeded initiation, process safety improved significantly with consistent quality in particle size and viscosity. Cycle time reduced from 29 to 12 hours, boosting productivity, cost competitiveness, and yield from 94% to 98.5%. The indigenous, high-quality latex strengthened India's glove manufacturing sector. Also this glove manufacturing segment is fully supported by Apcotex by suppling both latex as well as glove coating material

Ashida Electronics Pvt. Ltd.

About the Company

Acsia Technologies is a global leader in automotive software, developing advanced solutions for Digital Cockpits & Displays, e-Mobility, and Telematics. With deep expertise across AUTOSAR, Android Automotive, Automotive Linux, QNX, HMI, middleware, platform engineering, AI/ML, vision systems, model-based development, CI/CD/CT, ambient lighting, systems engineering, automation, cybersecurity, functional safety, and performance optimisation, Acsia helps solve complex engineering challenges while enabling safer, more efficient, and engaging in-vehicle experiences. The company operates in the United States, Germany, Japan, and India, and collaborates closely with major OEMs and Tier-1 and Tier-2 suppliers. Acsia's facilities and projects adhere to leading global standards, including ISO 9001:2015, ISO 27001:2022, ISO 21434, ISO 26262, TISAX AL3, and ASPICE CL2.

The Innovation

To address the rapidly growing complexity of software-defined vehicles, Acsia has developed LiLA—the Learning Intelligent Layered Architecture. LiLA is an on-premise Agentic AI platform designed to support intelligent requirements, defect, and test management. Built initially to assist internal teams and now adopted by customers, LiLA acts as an engineering co-pilot rather than a replacement. It autonomously parses requirements, supports traceability, flags inconsistencies, and aids developers through code generation, optimisation, and test-case suggestions. For diagnostics, LiLA processes large volumes of logs, identifies patterns, and groups defects efficiently. It also helps teams maintain compliance with standards such as ASPICE and MISRA by aligning documentation and artefacts with process expectations. LiLA is already deployed across live projects, offering a secure, modular, web-based platform that runs entirely on-premise, ensuring full data privacy.

The Approach

LiLA is built on scalable, open-source AI models deployed locally to maintain strict security and confidentiality. Its modular architecture enables expansion through compute nodes or secure cloud-linked environments, while guardrails protect against misuse and prompt-injection attacks. By reducing dependence on online AI services, LiLA offers a cost-efficient and environmentally conscious solution that accelerates development and strengthens compliance.

The Benefits

LiLA delivers measurable productivity gains—up to 40% improvement and as much as 95% accuracy in analysis. It automates test generation, script development, and reporting, ensuring complete traceability and quality adherence. With domain-aware intelligence and human oversight, LiLA helps teams reduce effort and cost, improve decision-making, and scale confidently while enhancing overall product reliability and customer satisfaction.

Product Development
Ashok Leyland Technical Centre

About the Company

Ashok Leyland, flagship of the Hinduja Group, is India's 2nd largest M&HCV maker and 4th largest bus manufacturer worldwide. Operating in 50+ countries, it offers trucks, buses, defense, and power solutions. Renowned for innovation, alternate fuels, and customer-centric design, it pioneers sustainable, future-ready mobility solutions.

The Innovation

The Compact C-shaped Exhaust After-Treatment System (C-ATS) is Ashok Leyland's patented, modular breakthrough in emission control. Traditional systems were bulky, costly, and supplier dependent. C-ATS integrates the urea decomposition pipe into the exhaust flow, improving thermal management and enabling compact packaging. Its scalable architecture uses common flow-path components across platforms, reducing part proliferation, calibration complexity, and costs. Standardized interfaces ensure spare parts commonality and simplified servicing. Robust against fuel and DEF variations, C-ATS optimizes durability, efficiency, and compliance. By localizing design and reducing supplier reliance, Ashok Leyland delivers a disruptive, cost-effective, and future-ready emission solution for commercial vehicles.

The Approach

C-ATS was developed using a structured FAST (Function Analysis System Technique) methodology, mapping core functions to identify value drivers and eliminate redundancies. Prioritizing modularity, thermal efficiency, and standardized interfaces, the team applied iterative prototyping and cross-functional collaboration. In-house IP ensured flexibility, scalability, and vendor independence—aligned with long-term strategic goals.

The Benefits

C-ATS delivers transformative value: 85% lower spare part costs, 75% reduced inventory, and 75% faster service recovery. It provides significant BOM savings and 25 kg weight reduction, boosting payload and profitability. Warranty costs fell 85%, while error codes reduced 33%. Overall, it enhances uptime, reliability, and lifecycle value.

Aurigene Oncology Limited

About the Company

Aurigene Oncology Limited is a clinical-stage biotechnology company dedicated to advancing innovative cancer therapies. Over the years, the company has discovered 21 novel chemical entities, developed both independently and through collaborations with global pharmaceutical and biotech partners. Several of these first-in-class and best-in-class molecules have been successfully out-licensed for global clinical development, while Aurigene continues to drive clinical proof-of-concept studies for select programs.

Aurigene has built robust discovery platforms spanning kinase inhibitors, targeted protein degraders, antibody engineering, and cell and gene therapy, enabling a strong and diverse pipeline of high-potential oncology assets.

The Innovation

Innovation forms the foundation of Aurigene's mission to accelerate the development of impactful cancer therapeutics. This commitment is reinforced through leadership-led initiatives such as biannual Leadership Connect sessions, Annual Strategy Meets, 'Coffee with CEO' interactions, and Science Week events. Dedicated teams fuel the company's innovation engine: the Target Ideation Team evaluates new scientific ideas, the Market Intelligence Group identifies emerging opportunities, and the Science & Business Council prioritizes promising programs.

Knowledge sharing is deeply embedded in the culture through Science Week forums, cross-functional learning platforms, and the Aurigene Chemistry Learning Forum. The Insight Exchange program further nurtures high-potential talent by providing hands-on exposure across the drug discovery lifecycle through lab visits, job shadowing, and structured assessments. Innovation is celebrated through awards such as the Champion Award, TAPAS recognitions, and Project i3, which encourages employees to develop and implement breakthrough scientific concepts.

A notable innovation is the discovery of a small-molecule inhibitor targeting the epigenetic regulators KAT6A/B—enzymes implicated in multiple cancers, including breast, lung, and ovarian. Despite the emerging interest in this space, only a few companies are developing selective KAT6 inhibitors, highlighting Aurigene's leadership in this domain.

The Approach & Benefits

Aurigene's lead KAT6A/B inhibitor, AU-26964/OP-3136, developed through structure-based design, demonstrates a highly differentiated preclinical profile with exceptional selectivity, efficacy, and safety. The molecule shows strong activity across multiple tumor types and synergy with SERDs and CDK4/6 inhibitors. Now in Phase 1 clinical trials, the program is supported by a partnership with Olema, reflecting significant scientific and commercial validation.

Attero Recycling Pvt. Ltd.

ATTERO
Materials Reborn

About the Company

Attero Recycling pioneered and is India's largest DeepTech mixed-metal refining and recycling company, established in 2008 and inaugurated by President A.P.J. Abdul Kalam. With 45+ global patents Attero extracts 22+ high-purity critical, precious and rare-earth metals from e-waste and spent Li-ion batteries, advancing India's circular economy ambitions, while promoting the AtmaNirbhar-Bharat vision

The Innovation

Attero invests heavily in R&D and has been granted 45+ global patents for its mechanical, zero-emission hydrometallurgical and electrochemical processes that recover 22+ critical, precious and rare-earth metals - such as Lithium, Cobalt, Gold, Platinum, Neodymium, Praesodymium - from e-waste and spent lithium-ion batteries(LiB) with >98% efficiency and up to 99.98% purity. Its shape-, size-, and chemistry-agnostic LiB recycling, automated discharge systems for residual charge management, and zero-water-discharge, environmentally sustainable refining are global industry firsts. It's globally the only UNFCCC-certified recycler authorized to issue carbon credits per tonne of waste recycled. Coupled with AI-driven traceability platforms-SelSmart for consumer take-back and MetalMandi for transparent B2B trading-it transforms waste into a strategic national resource.

The Approach

Attero integrates deep in-house R&D, automation, and digital-intelligence to close the loop from collection to refined green metals. Its indigenous, patented processes convert waste into high-value materials. It collaborates with National and international universities including IIT Delhi, Chennai, Roorkee and Mumbai, University of Manchester and Cambridge.

The Benefits

Attero's innovations reduce India's import dependence on critical minerals, recover thousands of tonnes of valuable materials annually, and prevent millions of tonnes of CO2 emissions in comparison to virgin mining and informal recycling. They generate skilled green employment, and positions India as a global leader in sustainable, technology-driven circular manufacturing and resource independence.

Axens Global Engineering & Execution Centre (AgeX)

Registered Name: Heurtey Petrochem India Private Limited

Axens
Powering integrated solutions

About the Company

AgeX Mumbai is 100% subsidiary of Axens SA, France. Axens is a global provider of technologies, products, and services for the refining, petrochemical, and gas processing industries. The company focuses on delivering innovative solutions that enhance operational efficiency, sustainability, and profitability for its clients. Axens is dedicated to promoting sustainable practices within the industry. The company focuses on developing technologies that reduce emissions, improve energy efficiency, and support the transition to a low-carbon economy

The Innovation

Electrical Radiant Tubular Heater (e-Heater)

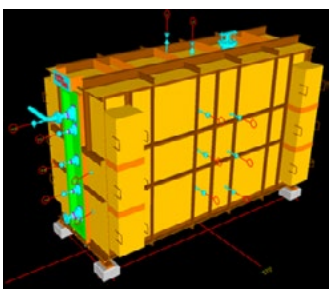
Due to sustainability concerns, the process industry, including refineries, petrochemicals, and steel, is focusing on solutions to minimize their carbon footprint, especially emissions from fired heaters. These heaters are a major source of carbon dioxide and other greenhouse gases, accounting for approximately 70% of total emissions in refinery and petrochemical operations. To support customers in achieving decarbonization goals, Axens, through its furnace brand Heurtey Petrochem Solutions (HPS), has launched the “Electrical Radiant Tubular Heater” technology. This innovative electric heater improves operational performance and eliminates emissions, featuring advanced control, enhanced energy efficiency, and adaptability for various complex processes, including cracking and high-temperature reactions.

The Approach

The first step was to shift from traditional fuel-fired heating to green energy alternatives. HPS has already explored hydrogen as a clean fuel. The absence of electrical heating solutions for processes typically using fired heaters highlighted an industry gap, necessitating the development of solutions that utilize green electricity while maintaining traditional indirect heating principles.

The Benefits

- Higher Efficiency: >96% against 80-92% for Conventional Fuel Fired Heaters
- Zero Emission: Zero CO2, SOx, NOx, PM
- Heat Flux Management & Control: Real-time adjustment of electrical power to maintain outlet temperature and minimize film/tube temperatures.
- No Hot Spots: Avoids flame impingement; even fluid flow without 180˚ bends.
- Extended Turndown: 0 to 100% Flexibility.
- Reduced Maintenance
- Longer Run Length: Enhanced productivity
- Reduced Plot plan by 40-50%
- High Reliability & safety features



Bajaj Electricals Ltd.

About the Company

Bajaj Electricals Ltd., part of the Bajaj Group, our purpose is to enhance everyday life through innovation and sustainability. Our portfolio spans appliances, fans, and cookware under brands like Bajaj, Morphy Richards, Nex, and Nirlep, along with smart and energy-efficient lighting solutions. From homes to public spaces, we combine decades of trust, performance, and design to serve diverse consumer needs responsibly.

The Innovation

a) The patented DuraCoat Heating Element and DuraAce Tank offer a highly durable, energy-efficient solution. With a special PTFE non-stick coating resisting limescale and marine-grade steel protected by titanium infused glassline enamel, they enhance performance, reduce energy use, and ensure long-term reliability—enabling extended warranties of 6 years for the heating element and 10 years for the tank.

b) The patented Blaster 1650W Stadium Light delivers high-performance, energy-efficient sports lighting with advanced Stepped Bonded Heat Sink Technology for superior heat dissipation. Its precision TIR lenses ensure focused, uniform illumination with minimal glare. Lightweight, durable, and compliant with IS standards, it offers 50–60% energy savings, redefining durability and sustainability in stadium lighting.

c) CITISol is an IoT-based smart lighting platform that transforms urban lighting by enabling real-time monitoring and automatic brightness adjustment based on movement and ambient light. It reduces energy consumption and maintenance costs by up to 50%, offers predictive maintenance, and supports safer, greener, and more efficient urban infrastructure tailored for Indian cities.

The Approach

At Bajaj Electricals, innovation is a core organizational pillar driven by consumer-centric ideation, AI-led design, and structured product development. A collaborative ecosystem, including startups and academic partners, supports continuous advancement. This approach fosters agility, enhances manufacturability, and ensures sustainable growth, making innovation a key driver of competitive differentiation.

The Benefits

Bajaj Electricals' innovation approach has delivered transformative benefits across the organization, backed by a strong IP portfolio and design leadership. Time-to-market has dramatically improved through simulation-led design and robust NPD practices. Innovations like DuraCoat and CITISOL have enhanced energy efficiency, product durability, and consumer satisfaction. Manufacturing agility has increased through design-for-manufacturing and rapid prototyping. Employee capabilities are strengthened via structured learning and recognition programs. Strategic partnerships with IITs, startups, and R&D labs further fuel innovation, making it a key enabler of growth, sustainability, and long-term competitive advantage.

BEIL Infrastructure Ltd.

About the Company

BEIL Infrastructure Ltd., founded in 1997 at Ankleshwar, Gujarat, is India's pioneer in hazardous waste management. With multi-location facilities, BEIL provides integrated solutions for hazardous, biomedical, e-waste, plastic, and municipal waste. Certified with 5'S, ISO 14001, ISO 45001, and NABL, BEIL is committed to sustainable, safe, and innovative waste management.

The Innovation

BEIL has introduced unique innovations in waste management. The Ankleshwar landfill Phase IV expansion increased capacity from 34 to 50.98 lakh MT without additional land, a pioneering space-optimization model. Solar plants installed on closed landfills generate green power and reducing thousands of tons of CO_2 annually. Precious metal recovery from e-waste and wastewater enables safe urban mining of gold, silver, and mercury. Together, these initiatives optimize land, produce renewable energy, and foster circular economy practices—creating replicable models for sustainable waste management in India.

The Approach

BEIL's approach combines engineering re-design, circular economy principles, and sustainability goals. By utilizing landfill slopes, converting capped sites into solar parks, and recovering metals from waste, BEIL maximizes resource efficiency. Each project follows CPCB norms and international best practices, ensuring scalability, safety, and cost-effectiveness in alignment with India's sustainability vision.

The Benefits

BEIL's innovations deliver environmental, economic, and social benefits. They reduce carbon footprint, optimize land, and generate renewable energy. Economically, they enable cost savings, energy security, and reintegration of recovered resources. Socially, they improve health and safety. The scalable models promote circular economy, directly supporting India's clean energy and sustainability goals.

Capped Landfill After Solar Panel Installation

Precious Metal Recovery Plant

Belectriq Mobility Private Limited

About the Company

Belectriq is on mission to Charge Sustainable Future. It is founded by IIT, ISB and XLRI alumni with 18+ years of experience in manufacturing power electronics solutions. With strong focus on 'Innovation' & 'Indigenization', we aim to make India as a manufacturing hub for Efficient New Energy solutions helping clients drive the transition to a cleaner energy-efficient future.

The Innovation

Our Innovations include:

- EV Chargers: A wide range of industry standard AC chargers, DC chargers, Controllers and Power Modules
- Energy Storage Solutions: Our advanced energy storage systems ensure optimal energy usage and resilience, empowering businesses and homes with uninterrupted, clean, and reliable power.
- Power Quality Products: Minimize energy disruptions and improve system efficiency with our power quality solutions such as Static Var Generators (SVG), Active Harmonic Filters, Hybrid Power Factor Correction Panels and Detuned Reactors, etc.

Net Zero Integrated Storage based fast EV (NZSF) charging solution can solve multiple industry challenges:

- Requires limited or no backend electrical infrastructure for fast charging solutions
- Utilises solar energy to charge EVs
- Adjusts to Demand side Management to reduce the impact on grid during peak hours
- Acts as a Micro-generator and supports grid stability
- Promotes sustainable free mobility powered through renewable sources

The Approach

Our holistic approach towards design and development includes building the entire indigenous modular stack of the EVSE equipment and its individual components (AC and DC charge controllers, OCPP software stack, DC power module and other Electronic Cards) with utmost attention to safety and high reliability, suited for harsh Indian environmental conditions.

The Benefits

Localised technology enables job creation, global competitiveness, GDP contribution and National Security. Indigenous full stack approach ensures complete control of the technology making it fully customizable for white labelled solutions, future proof, versatile for all applications, agile supply chain, cost-advantage and free from foreign malwares.

BEML Limited

About the Company

BEML Limited (formerly Bharat Earth Movers Limited) is a premier Public Sector Undertaking under the Ministry of Defence, Government of India. Since its establishment in 1964, BEML has played a vital role in strengthening the nation's strategic sectors—Defence and Aerospace, Mining and Construction, and Rail and Metro. Headquartered in Bengaluru, the company operates large manufacturing complexes across Kolar Gold Fields, Bengaluru, Mysuru, and Palakkad.

In Defence and Aerospace, BEML supplies high-mobility vehicles, armoured recovery systems, bridging equipment, and ground support technologies to India's armed forces. Its Mining and Construction portfolio includes heavy-duty excavators, dump trucks, and bulldozers that support large-scale mining, infrastructure, and industrial operations. In Rail and Metro, BEML is a leading manufacturer of metro cars, EMUs, and advanced rolling stock, significantly contributing to India's expanding urban transportation network.

The Innovation

BEML has evolved into an innovation-led engineering enterprise, advancing India's vision of Atmanirbhar Bharat through indigenous product development, sustainability initiatives, and high-impact collaborations. A landmark achievement is the all-electric BRS-21 Rope Shovel—India's first indigenously designed electric mining shovel—which earned the Golden Peacock Eco-Innovation Award 2025. The company is also transitioning its internal fleet to electric mobility, aiming to eliminate diesel usage entirely.

In Rail & Metro, BEML partnered with Bharat Electronics Ltd (BEL) to develop the indigenous Train Control Management System (i-TCMS), reducing reliance on imported train control technologies. In Defence and Aerospace, the successful testing of a 1500 HP indigenous tank engine marks a major milestone in advancing self-reliance in armoured vehicle systems. Additional licensing agreements with DRDO's VRDE enable BEML to manufacture state-of-the-art combat support and mobility solutions.

BEML is also venturing into futuristic transport systems. Its collaboration with TuTr Hyperloop focuses on developing a prototype hyperloop pod, while MoUs with Mazagon Dock Shipbuilders (MDL), NHPC, and DIAT strengthen capabilities in maritime engineering, dredging solutions, and academic–industry research.

The Approach & Benefits

BEML follows a structured innovation strategy driven by indigenisation, sustainability, and cross-sector technological partnerships. A four-tier R&D framework—covering central research, technology alliances, futuristic product incubation, and SBU-based engineering—ensures continuous advancement. These efforts deliver strategic benefits, including reduced import dependency, lower CO_2 emissions, enhanced reliability, and expanded opportunities in emerging technologies such as hyperloop mobility.

Bharat Fritz Werner (BFW)

About the Company

Bharat Fritz Werner (BFW) is a global leader in advanced manufacturing with more than six decades of expertise in delivering world-class CNC machines. Headquartered in India, BFW is committed to transforming the global machine tool landscape through cutting-edge engineering and continuous innovation. Our portfolio spans CNC turning centers, horizontal and vertical machining centers, and complete application-focused solutions tailored to diverse industrial needs. With an unwavering focus on efficiency, sustainability, and seamless technological integration, BFW enables customers to achieve higher productivity and precision across manufacturing operations.

The Innovation

BFW's Moving Cross Rail Double Column Machine with W-axis and an in-house engineered ±120° swiveling tilting head marks a breakthrough in machining 6/8-cylinder V-engine blocks. Traditionally, machining such components required physically rotating the heavy engine block using complex fixtures—leading to longer setup times, higher risks, and compromised accuracy. This innovation eliminates component rotation entirely. The advanced tilting head delivers ±120° angular flexibility, enabling precise multi-angle machining while the workpiece remains rigidly fixed, significantly improving stability, accuracy, and operator safety.

The W-axis moving cross rail reduces ram overhang and ensures superior surface finish, accuracy, and tool life across varying component heights. The integrated tilting head—designed, developed, and embedded within the ram—eliminates the need for head changes, reducing cycle times and enhancing reliability. Built with hydraulic actuation, taper roller bearing support, and multi-coupling engagement, the head delivers durability under heavy-duty operations. Its air-oil lubrication system optimizes lubricant usage, extends bearing life, and reduces environmental impact.

A key engineering challenge—managing hydraulic, pneumatic, electrical, and lubrication lines during dynamic multi-axis movement—was addressed through the adoption of an igus® triflex® robotic cable management system. This pioneering application earned recognition and an award from the supplier.

Developed through a rigorous process of concepting, simulation, prototyping, trials, and field validation, this innovation showcases India's engineering capabilities and supports the vision of Atmanirbhar Bharat and "Made in India." Beyond V-engine blocks, the machine's versatility extends to gear housings, pump and compressor casings, valve bodies, turbine housings, mould bases, railway bogies, and marine engine components.

The Approach

A milestone-driven methodology and cross-functional collaboration ensured precision and robustness. Complete in-house development enabled tight integration and performance optimization. The machine delivers end-to-end machining in just two setups, dramatically improving productivity, accuracy, and cost-effectiveness—reinforcing India's position as a global hub for advanced manufacturing solutions.

Bharat Petroleum Corporation Limited.

About the Company

M/s Bharat Petroleum Corporation Limited (BPCL) is a leading Indian oil and gas company, engaged in refining, marketing, and distribution of petroleum products. A Government of India public sector enterprise, BPCL operates major refineries, retail networks, and LPG services, contributing significantly to India's energy security and economic growth.

The Innovation

Bharat GSR CAT: Bharat Petroleum Corporation Limited's (BPCL) Corporate Research and Development Centre (CRDC) has developed Bharat GSR CAT, an indigenous, cost-effective gasoline sulphur reduction (GSR) additive for FCC units. Made using spent FCC catalyst, a refinery waste, it reduces production cost by 66% and ensures sustainable disposal. Patented globally, it showed 50% higher activity than commercial GSR additives and achieved 34% sulphur reduction in trials at BPCL Mumbai Refinery with only 10% loading. Unlike capital-intensive sulphur reduction technologies, Bharat GSR CAT provides a flexible, economical, and eco-friendly solution, helping refiners meet stringent emission norms while supporting cleaner fuel production and operational efficiency.

Bharat SP Chem: As part of Make in India and Atma Nirbhar Bharat, BPCL's R&D Centre with Mumbai Refinery developed BHARAT SP CHEM, an indigenous, odor-free, and cost-effective degassing chemical for Sulfur Recovery Units. First implemented at Mumbai Refinery in June 2023, it reduced costs by four times, saving over INR 3 crore annually. With plans for wider deployment, it strengthens refinery self-reliance and offers significant long-term economic and operational benefits.

The Approach

BPCL's innovation approach focuses on developing indigenous, sustainable, and cost-effective refinery solutions by converting waste into value-added products, replacing costly imports, and ensuring environmental compliance. Through rigorous R&D, pilot trials, and successful refinery-scale deployment, technologies like Bharat GSR CAT and Bharat SP CHEM deliver economic, operational, and strategic benefits, advancing self-reliance and cleaner energy goals.

The Benefits

BPCL's R&D drives refinery innovation with BHARAT GSR CAT and BHARAT SP CHEM, converting waste into value-added solutions. These breakthroughs cut costs, reduce environmental impact, and strengthen self-reliance. At MR, Bharat GSR CAT delivers ~₹2.4 crore monthly savings, generating ₹56.9 crore revenue, earning patents, and advancing Swachh Bharat goals.

Bharat Petroleum Corporation Limited

Bharat Petroleum Corporation Limited's (BPCL) Corporate Research and Development Centre (CRDC) has developed an innovative, indigenous, and cost-effective gasoline sulphur reduction (GSR) catalyst additive called Bharat GSR CAT for use in Fluid Catalytic Cracking (FCC) units. FCC units are critical in global gasoline production, but they generate gasoline with high sulphur content, contributing to harmful SOx emissions. Regulatory standards now demand that sulphur levels in gasoline be reduced to below 10 ppm. Traditionally, refiners rely on expensive, imported GSR additives to meet these standards.

About the Company

BPCL, India's second-largest public sector oil marketing and a Fortune 500 integrated energy company has established a robust presence across the entire energy value chain. With a refining capacity of 35.3 MMTPA across Mumbai, Kochi and Bina, and a nationwide marketing network of fuel Stations, LPG, BPCL plays a pivotal role in strengthening India's energy security.

The Innovation

India's First Retail Outlet towards achieving Net Zero Goals powered by an integrated Solar-wind-energy storage (SWES) System. BPCL is pioneering India's clean energy transition with its commitment to achieve Net Zero by 2040. A key milestone is the SWES pilot commissioned at Asalwas, Haryana in December 2024. This innovative system integrates solar PV, horizontal, vertical-axis wind turbines, battery storage to eliminate diesel generator dependence and reduce grid reliance. A distinctive feature is the use of vehicular-induced wind flows via turbines installed on highway medians, developed in collaboration with NHAI. Delivering measurable economic, operational, and environmental benefits, the SWES model showcases a scalable, hybrid renewable solution.

The Approach

The hybrid system—integrating solar PV, horizontal and vertical-axis wind turbines, and battery storage—was commissioned at BP Asalwas in December 2024. Installed in partnership with NHAI using highway median turbines, ongoing seasonal data collection assesses performance, reliability, and sustainability, providing insights for scalable, resilient renewable energy solutions.

The Benefits

The system has completely eliminated diesel generator use, earlier required for 5–6 hours daily, and reduced grid electricity consumption by 20%. This has delivered notable fuel and power cost savings while cutting carbon emissions, thereby enhancing both economic efficiency and environmental sustainability.

Bharat Petroleum Corporation Limited

About the Company

Bharat Petroleum Corporation Limited (BPCL), a Fortune Global 500 Maharatna energy major (ranked 285 in 2025), operates across the oil, gas, and petrochemical value chain. With revenues of ₹5 lakh crore in FY 2024-25, BPCL drives sustainability through innovation, safety, and social responsibility, contributing meaningfully to India's energy security and growth.

The Innovation

The Bharat Hi-Star LPG and PNG Stove is a breakthrough innovation by Bharat Petroleum Corporation Limited (BPCL), designed for exceptional thermal efficiency and environmental sustainability. Developed at BPCL's Corporate R&D Centre, the stove delivers superior fuel savings with more than 74% efficiency for LPG and 74% for PNG, making it the most energy-efficient domestic gas stove in the world. It reduces CO_2 emissions, enhances flame stability, and ensures faster cooking with lower gas consumption. Certified by BIS and approved by CPRI, the Bharat Hi-Star stove represents India's stride toward cleaner, smarter, and sustainable household energy solutions.

The Approach

The Bharat Hi-Star LPG and PNG Stove was developed through a scientific, data-driven approach focusing on combustion optimization, advanced burner design, and precision air fuel mixing. Extensive simulations, lab testing, and real-world trials ensured maximum efficiency, minimal emissions, and superior user experience—reflecting BPCL's commitment to innovation and sustainable energy solutions.

The Benefits

If this stove reaches out to every household in India; it has the potential for reduction of annual LPG consumption up to 2 million metric tonnes thereby saving of Rs.7,000 crores per annum in foreign exchange. In addition to the direct financial benefits, this will further reduce CO2 emissions to the tune of 6 million metric tons per annum. This is e equivalent to planting 1 million trees.

Bharat Petroleum Corporation Limited – Corporate Research & Development Centre

Bharat Bottoms Cracking Additive Bharat Furnochem

About the Company

Bharat Petroleum Corporation Limited (BPCL), a Fortune 500 enterprise and one of India's leading integrated energy companies, plays a pivotal role in the nation's oil and gas sector. Headquartered in Mumbai, BPCL operates refineries in Mumbai, Kochi, and Bina, with another facility under development in Andhra Pradesh, collectively offering a capacity exceeding 35 MMTPA. Its robust marketing network spans more than 14,800 retail outlets, while Bharatgas—its flagship domestic LPG brand—serves over 8 crore households across India. BPCL is also a major supplier of aviation turbine fuel, MAK lubricants, and a wide range of specialty petro-products.

Innovation is central to BPCL's future-ready strategy. Its Corporate R&D Centre (CRDC) in Greater Noida and the Product & Application Development Centre (P&AD) in Mumbai drive advancements in refining, petrochemicals, biofuels, green hydrogen, and net-zero technologies. Supporting India's energy transition and the vision of Aatmanirbhar Bharat, BPCL is steadily evolving into an "energy solutions company of the future."

The Innovation

BPCL's CRDC is spearheading indigenous solutions that enhance refinery efficiency while reducing import dependency. A significant breakthrough is BHARAT BCA, an innovative catalyst additive engineered for Fluid Catalytic Cracking (FCC) units. Traditional Y-zeolite catalysts struggle with heavy clarified oil due to their small pore size. BHARAT BCA, built with a mesoporous matrix and optimized acidity, enables pre-cracking of larger hydrocarbon molecules, boosting yields of LPG, gasoline, and LCO. Deployed at the Mumbai Refinery in October 2024, it generated financial gains of 49 crore within six months, demonstrating high scalability and compatibility with existing FCC systems.

CRDC's second major innovation, Bharat Furno Chem, addresses furnace tube fouling—a challenge that reduces heat transfer and increases fuel consumption. Developed using locally available materials and prepared on-site, the solution costs one-fourth of imported alternatives. Successful demonstrations at BPCL's Mumbai and Kochi refineries showed a 40°C reduction in arch temperatures, improving throughput and lowering operating costs.

The Approach & Benefits

Both innovations were developed through a problem-focused, cross-disciplinary approach emphasizing commercial feasibility, operational efficiency, and sustainability. Together, BHARAT BCA and Bharat Furno Chem enhance profitability, reduce fuel consumption, minimize imports, and strengthen India's self-reliance—advancing BPCL's vision of sustainable, high-impact refining solutions aligned with national priorities.

BLS International Services Ltd.

About the Company

BLS International, established in 2005, is a globally trusted, tech-enabled partner for governments and citizens. The only listed company in its sector, it partners with 46+ governments across 70+ countries, operating 50,000+ centres, 60,000 staff, processing 360M+ applications, and certified CMMI DEV ML5, SVC ML5, ISO 9001, ISO 27001, ISO 14001.

The Innovation

BLS International is redefining global citizen services through a technology-first strategy built on the pillars of Technology, Trust, and Transparency, ensuring Speed, Scale, Security, and Sustainability in every engagement. Our innovation model emphasizes Digital-First design, Zero-Trust Security, Privacy by Design, and seamless user experiences, enabling governments to deliver smarter, faster, and fully compliant services. Using AI-driven automation, cloud-native microservices, biometric verification, and real-time analytics, we power a next-generation ecosystem for Visa, Consular, and Citizen Services.

Intelligent dashboards and predictive insights help governments track KPIs, optimize performance, and make data-driven decisions. Automated document checks, fraud scoring, PII cross-verification, and face-liveness detection ensure applicant authenticity and safeguard system integrity. Citizen support is enhanced through multilingual AI chatbots offering instant assistance and application tracking.

Looking ahead, BLS is developing a unified digital identity and trust platform integrating biometrics, passports, eVisas, and national ID databases—setting new benchmarks for secure, scalable, and citizen-centric digital governance.

The Approach

BLS International, driven by Design-Thinking and Partnerships, co-creates transformative Visa, Passport, Consular, e-Services, and Biometric solutions with governments. Powered by AI automation, advanced biometrics, and multilingual support, it ensures faster, secure, and inclusive services. Innovations include Facial Biometrics, Liveliness Detection, OCR, scalable platforms, AI client excellence, partnerships, expansion, global certifications, strengthened by investments in technology, talent, governance, and compliance.

The Benefits

BLS International's innovation-led technology solutions deliver accelerated Visa, Passport, Consular, and eServices turnaround; minimize errors through advanced validation; enhance transparency, trust with governments; streamline workflows; ensure global security compliance; enable real-time decision-making; establish first-to-market competitiveness; reinforce leadership as global Gov-Tech pioneer; and sustain quality and scalability via the PPP model.

Bosch Limited

About the Company

Bosch Ltd., the Indian subsidiary of Bosch group, excels in Automotive Technology, Industrial Technology, Consumer Goods, and Energy & Building Technology, renowned for smart manufacturing expertise. Certified as a 'Great Place to Work', Bosch Ltd. filed 55 patents in 2024 and has achieved carbon-neutrality in all Indian sites since 2020.

The Innovation

- **Safety: Intelligent Puncture Detection System (IPDS)**

  IPDS is a data based analytical solution that detects puncture at an early stage (compared to manual detection) and gives advance warning to the rider while the vehicle is still ridable. This provides the rider enough time to take corrective measure while ensuring their safety as well as saving considerable time & effort for them. The Intelligent Puncture Detection System is an innovative solution approach using a self-learning software solution which avoids the need of additional hardware.

- **Electrification: 3-in-1 Electric Powertrain**

  The Bosch eAxle is a system combining the electric motor, power electronics and transmission in a compact unit directly powering the vehicle's axle. The innovation includes a further simplification of the eAxle by integrating an innovative oil cooling concept with a discrete inverter, enabling faster adoption of electric/hybrid vehicles in the Indian market.

The Approach

All innovation efforts within Bosch group are guided by The Bosch Innovation Framework (BIF) integrating UX, business modeling, lean start-up, engineering, and strategy. Focusing on desirability, feasibility, and viability, it refines ideas into scalable concepts while ensuring transparent, agile, and evidence-based investment decisions through innovation gates common across Bosch globally.

The Benefits

- **IPDS**

  Enhanced rider safety.

- **3-in-1 Electric Powertrain**

  Highly compact, cost-effective, and easy-to-integrate eAxle.

- **H2 Vibration Test Bench Upgrade using N2**

  Testing cost reduction.

- **Bosch Filters**

  Low cost of ownership, longer element life, extended service intervals.

- **GenAI for Lead Time Reduction**

  Lead time reduction, logistics cost reduction, improvement in productivity.

C&S Electric Ltd.

About the Company

Founded in 1966, the company is India's leading LV switchgear supplier and holds over 50% share in the Busbar market. With 10 plants, 5000+ employees, exports to 85+ countries and advanced design and testing labs we deliver innovative safe energy-efficient solutions across Power, Industries, OEMs, Infrastructure and Residential sectors.

The Innovation

Industrial Footprint Transformation

We reshaped our industrial footprint through a structured core vs non-core assessment, externalizing non-core processes and building strong partner ecosystems to expand capacity. "Make vs Buy" strategies enabled cost leadership, while lean manufacturing, digital quality and IoT-enabled traceability reinforced core processes. Low-cost automation with digitalization enabled process de-skilling, smart monitoring and analytics-driven decision-making. Together, these innovations optimized resources and doubled production capacity - achieving 2x output from the same space and same workforce as FY2022.

Renewable-Ready Switchgear Innovation

Our innovation in WM3 ACB model design is upgraded operational voltage from 415V to 800V to meet renewable market needs for efficiency, safety and compactness. Advanced design enhancements include doubling short circuit capacity to 100kA, Intelligent MicroPro 7.1 release with IoT communication, Universal busbar termination and 20% reduced footprint - delivering reliable, energy-efficient and globally certified switchgear product for Solar, Wind, BESS and EV fast charging Renewable applications.

The Approach

We drive innovation through structured frameworks, digitalization and inclusive practices. Core/ non-core optimization, renewable-ready engineering, telecom-resilient design and women-led manufacturing lines reflect a culture of empowerment, collaboration and sustainability. Continuous learning, ideation and benchmarking translated ideas into transformative outcomes - doubling capacity, delivering market driven solutions & building Inclusive workforce.

The Benefits

Innovative Capacity Expansion I Revenue Growth I Improved Profitability I Resource Optimization I Improved Profitability I Reduced Carbon Footprint I Market Relevance I Energy Efficiency I Safety & Reliability I Workforce Inclusivity I Improved Productivity I Improved Quality I Improved Leadtime I Improved Delivery I Market focused development

About the Company

Collins Aerospace, a unit of RTX Corporation, is a global leader in aerospace and defense solutions. It specializes in avionics, interiors, mechanical systems, and mission systems, delivering advanced technologies for commercial aviation, military, and space exploration. Collins drives innovation to enhance safety, performance, and connectivity in the aerospace industry.

The Innovation

In Collins Aerospace, Innovation is a Core Principle. Collins India has generated over 4000 Invention Disclosures, over 750 Patent filings and 167 Trade secrets. There are several examples of product innovation, but we are talking about one product called Ascentia® here.

Ascentia® : Airlines handle vast maintenance data daily to make strategic decisions that reduce cancellations and improve operations, benefiting passengers. Collins Aerospace's Ascentia® analytics, leveraging OEM expertise, advanced software, and PHM, streamlines data management to prevent equipment failures, delays, and diversions—saving time, cutting costs, and enhancing passenger experiences through faster, smarter decision-making. Link.

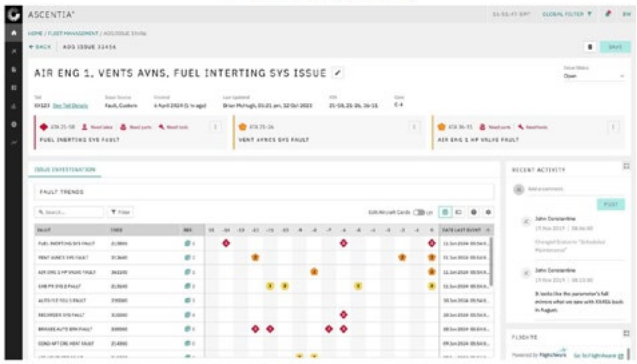
The Approach

At Collins, Innovation and Technology drive product development. The Innovation Council, leaders, and Strategic Business Units align product and technology strategies. Programs like Innovation Week and Challenges foster idea generation, leading to proof-of-concepts, technology maturity, IP protection (20+ Trade secrets), and productization, effectively addressing both business objectives and customer needs.

The Benefits

Collins Aerospace leverages innovation to enhance product performance, safety, and efficiency while driving competitive differentiation and cost reduction. By meeting evolving customer needs, it fosters market leadership, sustainability, and stakeholder value. Additionally, innovation boosts employee engagement, satisfaction, and long-term commitment, ensuring sustained growth and technological excellence in aerospace and defense.

AOG Management featuring Aircraft Health Monitoring (AHM)



Crompton Greaves Consumer Electricals Ltd.

About the Company

Crompton Greaves Consumer Electricals Ltd. is a leading player in India's consumer electrical industry, with a legacy that dates back to 1937. Renowned for its commitment to quality, innovation, and technology, Crompton specializes in producing a diverse range of products such as fans, lighting, pumps, and home appliances. The company emphasizes energy efficiency and sustainability in all its offerings, ensuring that they meet the evolving demands of consumers and industries alike. With state-of-the-art research and development capabilities, Crompton continually enhances its product portfolio to deliver solutions that improve consumer experiences and operational efficiencies. Its emphasis on customer satisfaction and sustainable practices has made Crompton a trusted brand within the electrical sector, positioning the company for ongoing success in an increasingly competitive market.

The Innovation

The Crompton X-Tech Induction Motor Platform represents a significant breakthrough in electric motor technology, designed to meet the demands of modern Consumers. This platform integrates advanced design principles and cutting-edge materials to significantly enhance energy efficiency, reliability, and operational performance.

The Approach

Crompton's approach to developing the X-Tech Induction Motor Platform involved leveraging advanced technologies and innovative design principles. By focusing on creating energy-efficient motors that deep motor expertise, Crompton sought to address common industry challenges such as performance issues at varying voltages, efficiency and sustainability, Rigorous testing and quality assurance procedures were implemented to ensure durability and reliability. Additionally, the commitment to sustainability influenced the manufacturing process, resulting in eco-friendly products. By aligning modern technological advancements with consumer needs and environmental goals, Crompton has positioned the X-Tech platform to thrive in the competitive Consumer durables market.

The Benefits

1. **Energy Efficiency:** The X-Tech motors minimize energy consumption, leading to significant cost savings and reduced environmental impact.
2. **Robust low voltage performance and suitability** to wide range of power and torque requirement, makes this ideal choice.
3. **Durability:** Advanced thermal management and comprehensive testing ensure long-lasting performance even in demanding conditions.
4. **Sustainability:** Eco-friendly manufacturing processes align with global sustainability goals, catering to consumer preferences for greener products.
5. **Versatility:** Suitable for a wide range of fans starting from 24 inch to 46 inch enhancing operational flexibility and efficiency.

Chowgule SBD

About the Company

Established in 1916 in Goa, the Group's Shipbuilding Division has delivered over 200 vessels since 1951. With three shipyards in Goa and one in Mangaluru, the division builds ocean-going cargo vessels and executes key defence projects for the Indian Coast Guard and Navy. Since 2005, it has produced several 4,000–6,000 DWT cargo carriers for international clients, integrating advanced technologies such as hybrid propulsion, diesel–electric systems, and ice-class vessels.

The Innovation

Chowgule Shipbuilding Division (SBD) continuously innovates to overcome industrial and geographical challenges, ensuring each vessel meets modern efficiency and sustainability standards. As the first private shipyard in India to publish an ESG report, the division reinforces its commitment to responsible shipbuilding and aligns with the IMO's net-zero emissions strategy for 2050.

A major breakthrough is the adoption of line-assembly block fabrication—commonly used in the automotive sector. Executing the mid-ship across six sections enhances structural integrity and streamlines workflow, improving productivity. To further optimize construction, SBD advances pipe erection and block outfitting before launch, resulting in 95% completion of piping, electrical, and outfitting work and nearly 80% overall vessel readiness. The upgraded slipway with uniform declivity also eliminates dependency on tidal conditions during launching.

Navigating newly built vessels requires passing under five uncharted bridges along the River Zuari. SBD ensures safe passage through precise depth surveys, targeted dredging, and operations planned around low tides. Draft is intelligently adjusted using ballast, hatch covers, and gantry positioning to increase forward immersion and ensure safe under-bridge clearance.

The Benefits

These innovations have enabled the delivery of eight complex 5,350-DWT electric-hybrid vessels at just three-month intervals—an achievement unmatched by any other Indian shipyard. The division's proven capability has also secured a prestigious defence contract to construct India's first indigenous Air Cushioned Vehicles (ACVs).

Chennai Petroleum Corporation Limited

About the Company

Chennai Petroleum Corporation Limited (CPCL), a group company of IndianOil, is a leading public sector refinery with a dominant presence in South India. Established in 1965, CPCL operates a state-of-the-art refinery at Manali, producing high-quality fuels and petrochemicals while driving innovation, sustainability, and national self-reliance in energy. It also serves as the mother industry in the region, providing vital feedstock to downstream petrochemical industries and supporting the industrial ecosystem of South India.

The Innovation

CPCL has pioneered the development and commercialization of JP-7 equivalent fuel and ISROSENE, becoming the first Indian refinery to produce these high-specification aerospace fuels for DRDO and ISRO, marking a historic leap in India's energy self-reliance. These fuels, earlier fully imported, were indigenously developed through advanced R&D, process optimization, and stringent quality validation to meet exacting aerospace norms. In parallel, CPCL introduced pharma-grade hexane using India's first 4-cut Divided Wall Column technology, achieving exceptional purity and energy efficiency. Together, these initiatives represent a strategic transformation from conventional fuel production to high-value, technology-intensive, and sustainable innovation, showcasing CPCL's capability to deliver complex, mission-critical products that reinforce national pride, technological leadership, and industrial excellence.

The Approach

A cross-functional team adopted a structured innovation framework—combining in-house R&D, process modification, and close collaboration with academic and industrial partners. Rigorous trials, risk assessments, and phased execution ensured successful commercialization of niche fuels and specialty products meeting stringent aerospace and pharmaceutical standards.

The Benefits

The innovations achieved 100% import substitution and strengthened India's defense and space self-reliance while creating new revenue streams for CPCL. The projects also positioned CPCL as a national technology leader, driving sustainable growth and innovation excellence in the refining sector.

Cyril Amarchand Mangaldas

About the Company

Cyril Amarchand Mangaldas (CAM), India's leading full-service law firm, is redefining legal services as an AI-First organization. With a legacy of excellence and a future-focused mindset, CAM empowers clients and startups alike. CAM empowers lawyers with generative AI, driving precision, speed, and innovation across practice areas for a just world.

The Innovation

To drive CAM's transformation into an AI-First organization, GenAI tools have been strategically deployed across the firm. Legora, a GenAI-powered legal workspace, streamlines document review, legal research, contract analysis, drafting etc. through features like Assistant, Tabular Review, and Microsoft Word integration. It provides secure deployment and centralizes workflows for enhanced collaboration and precision. Microsoft Copilot empowers Partners and Business Services with content creation, market analysis, and strategic insights. Amicus by CaseMine transforms legal research with contextual answers and citations. M-Files Ment automates legal drafting. Together, these tools enable smarter, faster and more precise legal services, central to CAM's innovation-led journey.

The Approach

CAM follows a structured, evidence led approach. We start with research, discovery demos and maintain a master log, then shortlist tools. Next, time boxed pilots/PoCs run with curated cohorts, weekly feedback, and usage/accuracy metrics. A data driven review informs go/no go. Adoption includes training, tracking and governance, ensuring smooth integration, confidentiality, and continuous improvement.

The Benefits

Adopted technologies like Legora, Copilot, Ment and Amicus deliver measurable gains, saving 10-30 minutes per task, improving document turnaround by 25%, and boosting efficiency in drafting, research, and summarization. With 85% partner adoption and strong governance, these tools enhance productivity, accuracy, and client service while embedding innovation into everyday workflows.

Daimler Truck Innovation Centre India (DTICI)

DAIMLER TRUCK
Innovation Center India

About the Company

DTICI, Daimler Truck AG's largest R&D center outside Germany, is based in Bengaluru. It supports global brands like Mercedes-Benz Trucks and BharatBenz, focusing on engineering, software, design, and electrification. With advanced labs and global collaboration, DTICI drives innovation in connectivity, cybersecurity, and vehicle technologies for the commercial vehicle industry.

The Innovation

Innovation is not just a function—it's our culture.

We continuously explore whitespace opportunities through trend analysis, identifying emerging technologies and bridging them into our product and process pipelines. From autonomous driving (ADAS) and battery chemistry to digital twins for manufacturing, our innovations span across the truck and beyond.

Safety is our first principle—every innovation is designed to be safe, then scalable, and finally cost-effective. Whether it's zero-emission technologies or predictive maintenance, we innovate with purpose and precision.

The Approach

Innovation at DTICI is iterative, inclusive, and intentional - embedded through strategic and tactical enablement. Leadership fosters openness and risk-taking, while ground-level systems integrate innovation into daily work. Teams are empowered to experiment, learn fast, and publish. Progress is tracked, efforts celebrated—making innovation a continuous, inclusive way of working.

The Benefits

DTICI's innovations extend beyond trucks. Alongside engineering and connectivity, we've created value in adjacent domains like Daimler Truck Financial Services. A key success: developing a global vehicle insurance system that boosts revenue and compliance. From product to ecosystem, DTICI drives measurable impact across Daimler Truck's global value chain.

The Road Ahead

DTICI is shaping the future of smart, connected, and zero-emission mobility.

We are committed to transforming with the speed of right—balancing agility with responsibility. As we harness the power of data, AI, electrification, and automation, we continue to lead the charge toward a safer, cleaner, and more intelligent transportation future.

Danieli India Ltd.

About the Company

In 2005, Danieli India Limited, started its operation in Kolkata and later in 2013, Danieli India started its own workshop. The integrated manufacturing unit at Sri City, the factory, 86 km from Chennai, The Sri City facility is a world-class manufacturing hub which produces quality and complex equipment for metal industry.

The Innovation

Technology Innovation by Danieli Group

MIDA (Endless and direct casting and rolling) Danieli way: - concept, an extremely compact mini mill producing rebar in bundles and coils, with a high-speed caster directly connected to the rolling mill

Q-ONE Digi melter (Efficient Energy source for Electric Arc Furnace) :-

is Danieli patented power-feeding technology designed to optimize the energy efficiency and operational performance of electric arc furnaces (EAFs) and ladle furnaces (LFs

Hydrogen-based Direct Reduced Iron (DRI) Production) production is a sustainable steelmaking process that replaces traditional carbon-intensive reducing agents, such as natural gas or coke, with hydrogen (H_2).

The Approach

Danieli India through internal programme calls Danieli Innovaction Award recognizes employees for their best ideas. Award is designed to tap into the creativity of Danieli India workforce. Employees are rewarded for their contribution, creating a positive cycle (cost saving, improve in efficiency, quality improvement ...) within the company.

This is link to employee career progression where the company focus on innovation and links to perfromance evaluation and rewards

The Benefits

- Above mention technologies boost revenue by creating new sales opportunties and increasing client profits, which strengthen Danieli position as a leading technology provider.
- Drives new orders for Danieli Group and Danieli India.
- Contribution to overall growth. Revenue generated by MIDA and Q-One is counted as Danieli larger “Plant Making” business segment. This segment is consistently a top revenue driver

Deloitte Touche Tohmatsu India LLP (DTTILLP)

About the Company

Deloitte is one of the world's largest and most diversified professional services organisations, providing assurance, tax, strategy, risk & transactions, and technology & transformations services through more than 457,000 professionals in more than 150 countries. We have a unique portfolio of integrated competencies and provide consulting/advisory services. We have offices in 14 cities across India, including Mumbai, Gurgaon, Chennai, Kolkata, Bangalore, Ahmedabad, Hyderabad etc. Our 31000+ experienced professionals deliver seamless, consistent services wherever our clients operate. Our professionals are proficient at delivering the right combination of local insight and international expertise to our clientele drawn from across industry segments.

The Innovation

Deloitte's breadth, depth, and scale, combined with a passion for business innovation, create powerful opportunities to enable clients to stay ahead of change, deliver impact that matters, and transform disruption into lasting value.

The Disruption & Innovation Office leverages disruptive technologies, products, platforms, and methodologies, driving significant growth and transformation under the four pillars:

1. Identify and invest: Sense the white spaces and invest in developing new sustainable solutions and products. For instance, our solution, Enterprise Conscious Code (ECC), incorporates eco-friendly techniques that can reduce software-related emissions by up to 30%.
2. Develop and certify—Digital Excellence Centre: A catalyst for innovation, the centre drives business transformation by developing cutting-edge, sustainable solutions and products that truly define the standard of excellence.
3. Monetise and scale: Build robust go-to-market strategies to maximise adopting the above products and solutions while focusing on better, faster, and more efficient service delivery.
4. Collaborate and Expand—Startup Sensing: Discover and partner with emerging startups to create differentiated offerings for our clients.

The Approach

and solutions that enhance our internal service delivery and provide cutting-edge solutions to the market.

Through the revolutionary Centre for Innovation and Technology in Bengaluru, Deloitte exemplifies this approach with over 200+ use cases. The centre delivers a world-class "phygital" experience, showcasing state-of-the-art solutions and offering clients a fresh perspective on the business landscape.

The Benefits

Deloitte is evolving into a technology-enabled professional services organisation, offering 200+ products that accelerate value, lower ownership costs, reduce risk, and unlock innovative insights. Clients gain differentiated outcomes, new business models, expert talent, best practices, and end-to-end support—delivering greater impact than standalone services.

Dixon
Technologies India Limited

Dixon
The brand behind brands

About the Company

Dixon Technologies, founded in 1993, is India's leading homegrown EMS Company serving 100+ global brands across electronics and appliances. With 24 plants, 35,000+ employees, and $4.5 billion revenue (FY25), Dixon drives innovation, quality, and sustainability to make India a global electronics-manufacturing hub.

The Innovation

At Dixon Manufacturing Execution System (MES) was innovatively designed and developed to capture real-time production data, enabling smart analytics for defect prediction and process optimization. By crafting custom scripts and algorithms, the team transformed raw data into actionable insights across machine utilization, raw material flow, and WIP control. This digital innovation not only streamlined decision-making and enhanced plant efficiency but also significantly reduced the Cost of Poor Quality (COPQ) — driving a culture of continuous improvement and contributing to a positive Profit Before Tax (PBT) for the financial year.

The Approach

The approach focused on innovative in-house MES development, leveraging custom scripts and real-time data analytics to transform production insights into process improvements. This collaboration-driven model enhanced machine efficiency, WIP control, and defect prediction, ultimately reducing COPQ and fostering a culture of data-led continuous improvement for sustainable profitability.

The Benefits

1. Enhanced Process Innovation: Enabled data-driven, real-time decision-making across production lines
2. Operational Efficiency: Improved machine uptime, reduced WIP, and optimized raw-material flow.
3. Quality Excellence: Significantly lowered the Cost of Poor Quality (COPQ) through predictive insights.
4. Cross-Functional Collaboration: Fostered seamless teamwork between Production and Quality teams.
5. Sustained Profitability: Contributed directly to achieving a positive Profit Before Tax (PBT).
6. Digital Capability Building: Strengthened internal innovation capacity through in-house MES development expertise

Dreamz Tech Solutions

About the Company

DreamzTech is a global technology company with offices in the USA, UK, India, and South Africa. We deliver AI-powered software solutions and products to startups, enterprises, and Fortune 500 clients, helping them improve efficiency, automate operations, and drive digital transformation across industries.

The Innovation

DreamzTech has built two flagship products

— DreamzCMMS and BestBrain AI.

DreamzCMMS uses AI, IoT, and RFID for predictive maintenance, asset tracking, and facility management.

BestBrain AI is a no-code platform to build AI agents for workflow automation, customer support, and process optimization.

Together, they enable enterprises to modernize operations and adopt intelligent automation with ease.

The Approach

We follow a practical, innovation-first approach combining design thinking, agile methods, and client collaboration. Our teams co-create solutions, blending domain knowledge with emerging technology. This helps us deliver scalable, secure, and business-ready products that solve real problems and evolve with customer needs.

The Benefits

DreamzTech solutions reduce costs, improve productivity, and simplify complex operations. AI-driven automation minimizes downtime and human error. Seamless ERP and IoT integration ensures faster decision-making, while multilingual and mobile features improve accessibility. Our clients achieve higher efficiency, better visibility, and faster digital transformation.

Elcome Integrated Systems Pvt. Ltd.

About the Company

Elcome stands in the vanguard of India's defence technology ecosystem, a premier system integrator thriving in pioneering innovation, indigenisation, turnkey technology solutions, precision electronics and trusted provider of sophisticated, mission-critical solutions spanning defence, maritime, and homeland security domains.

"Bridging ideas and technology—where innovation meets excellence" is our guiding slogan.

The Innovation

Helicopter Visual Landing Aid Suite (HVLAS) for Naval Ships is a mission-critical system enabling operation of helicopters from small decks (typically 22 x 16 m) of warships at night or in low visibility and rough seas, otherwise fraught with inherent risks. Covert night flying also necessitates the system to be Night Vision Goggles (NVG) compatible.

The Approach

HVLAS is essentially an electro-optical system. While Elcome had the domain knowledge in applied electronics and its control elements, we tied up with CSIR-CSIO Chandigarh for the required optics.

Our approach included:-

a) Hardware design
b) LED technology and digital control algorithm
c) Software development for LPD, GUI and health monitoring
d) Design tested to MIL Standards and STANAG, in NABL accredited laboratories
e) System validation by Naval Flight Testing Team

The Benefits

NVG HVLAS was being imported, thereby posing constraints on equipment availability and foreign dependence for maintenance. Elcome's indigenous system provides following benefits:-

a) State of the art technology
b) Self-reliance
c) Modular, scalable, customisable solution
d) MIL standard system duly tested and validated
e) Integrated onboard Indian Naval ships
f) Assured and timely life cycle maintenance

Fine Automotive & Industrial Radiators Pvt. Ltd.

About the Company

We have been providing comprehensive and customized heat transfer solution for design and manufacture of Air Cooled Coolers specific to customer requirements and satisfaction.

We manufacture a large variety of air cooled coolers to cool different mediums like Oil, Water, Air, Gas and Hydrocarbons. The heat exchanger manufactured by us are of different sizes and using variety of materials like copper, steel, brass and aluminium. All these air cooled coolers are custom designed as per customer specification for heat transfer and size

The Innovation

We are proud to introduce our latest innovation: a robotic laser cutting machine designed specifically for 3D cutting applications in radiator tank manufacturing. Engineered for precision and efficiency, this advanced system supports high-speed cutting of aluminium, mild steel (MS), and stainless steel (SS). With its automated robotic arm and intelligent control, it delivers unmatched accuracy and flexibility, revolutionizing complex component fabrication. This breakthrough significantly reduces manual intervention, enhances productivity, and ensures consistent quality—marking a new era in industrial laser cutting technology.

The Approach

Our development approach focused on integrating advanced robotics with high-precision laser technology for supporting high-mix low volume radiator tank mfg.. We adopted a modular design, enabling flexibility for various materials like aluminium, MS, and SS. Emphasis was placed on automation, user-friendly controls, and real-time accuracy to ensure optimal performance for complex 3D cutting in radiator tank manufacturing.

The Benefits

1) High-precision 3D cutting for complex radiator tank components for High mix Low volume.
2) Compatible with aluminium, mild steel (MS), and stainless steel (SS).
3) Increased production efficiency through automation.
4) Reduced manual labour and operational errors.
5) Consistent, high-quality output.
6) Faster turnaround times.
7) Lower material wastage.
8) Enhanced workplace safety.
9) Good return on investment through improved productivity and cost savings.

About the Company

Global Engineers Limited, established in 1982, is a leading innovation-driven technology company specializing in turnkey plants and customized engineering solutions. Over the decades, the company has built a strong reputation for delivering high-quality, technologically advanced systems backed by rigorous quality control and modern manufacturing practices. Global Engineers has successfully designed and executed projects for several premier national institutions, including the Nuclear Power Corporation of India Ltd. (NPCIL), Bhabha Atomic Research Centre (BARC), the Department of Atomic Energy (DAE), Nuclear Fuel Complex (NFC), Heavy Water Board (HWB), Indian Ordnance Factories, Indian Railways, and ITI Mankapur.

The Innovation

Global Engineers is innovative Company known for developing new Technologies and Products. Since inception company has innovated following Products/Technologies: -

1. Punched Tape Concertina Coil: The company innovated India's first high-security fencing system, deployed along the Punjab–Pakistan border in 1985–86. This fencing played a crucial role in eliminating cross-border terrorism, earning the company a National Award from the President of India. The technology was later used to secure borders with Bangladesh, Nepal, and J&K.
2. Mobile Telephone Exchanges: In the early 1980s, the company developed mobile telephone exchange units mounted on bus bodies, enabling rural connectivity long before digital networks expanded nationwide.
3. Nitrocellulose & Propellant Projects: In partnership with a European technology provider, Global Engineers executed turnkey plants for manufacturing nitrocellulose and single-base propellants used in ammunition, including for Bofors guns.
4. Automatic Painting Plants: The company indigenously developed fully automatic painting systems for railway coaches, aircraft, and helicopters—eliminating hazardous manual spray painting and enhancing worker safety.
5. Fast Breeder Reactor Components: Global Engineers designed and manufactured the sodium cooling circuit and critical components for the Fast Breeder Reactor Pilot Plant at NPCIL Kalpakkam, supporting India's thorium-based nuclear program.

The Approach

Global Engineers' strategy has always centered on innovation, import substitution, and national relevance, aligning strongly with the vision of Atmanirbhar Bharat. Its portfolio spans high-security fencing, rural communication systems, automated painting plants, nuclear pilot plants, propellant manufacturing systems, and railway driver training simulators.

The Benefits

Through its focus on indigenous technology development, the company has consistently supported national self-reliance, reduced import dependency, strengthened strategic capabilities, and contributed to India's technological leadership across critical sectors.

Grow Indigo Private Limited

About the Company

Grow Indigo accelerates agricultural transformation for a healthy planet by deploying sustainable practices and regenerative inputs that rejuvenate soil health, enhance farmer income, and reduce environmental impact. Through innovative programs and partnerships, we integrate carbon markets, technology, and sustainability to create value across agricultural supply chains.

The Innovation

Clear Harvest is Grow Indigo's pioneering low-carbon agri-produce solution that enables traceable, low carbon, and climate-resilient agri valuesupply chains for companies and brands. It quantifies and reduces scope 3 emissions from smallholder farming systems while ensuring transparency from farm to factory gate. The innovation combines science, technology, and regenerative agriculture practices to deliver verified, low-emission produce. By linking farmers and FMCG companies through traceable carbon impact data, Clear Harvest redefines how agricultural commodities can drive climate-positive outcomes.

The Approach

Data collected on in-house app or ODK questionnaire. GHG protocol and IPCC GHG inventory used for calculation methodology. We are working towards FSA certification for our farms. Project quantification is Third Party audited. Traceability ensured in-house through Scope3 Sutra app. Reporting is as per GHG Protocol and other client requirements.

The Benefits

Clear Harvest enables up to 50% reduction in greenhouse gas emissions from agri-commodities, ensures 100% traceability, and channels up to 75% of the generated value (premium over and above the MSP) back to farmers . It strengthens climate action in agri-supply chains while improving farmer livelihoods and promoting sustainable production systems.

Havells India Ltd.

About the Company

Havells India Limited is a leading FMEG company with a strong global presence, manufacturing a wide range of electrical products for residential, commercial, and industrial use. Key brands include Havells, Havells Studio, Lloyd, Havells Crabtree, Standard Electricals and REO.

With a focus on innovation and customer satisfaction, Havells boasts a robust distribution network, exclusive brand showrooms, and a strong emphasis on service. The company prioritizes sustainability, with a focus on renewable energy, waste reduction, and environmental conservation.

Havells is committed to social responsibility, with initiatives in education, sanitation, and community development. Recognized for its sustainability efforts, Havells has been ranked in the Dow Jones Sustainability Index and maintains an 'A' rating in the MSCI ESG Rating.

The Innovation

Havells, driving India's energy transition, has developed the TRON range of circuit breakers for the evolving industrial landscape. TRON offers efficient low-voltage distribution across industrial and residential sectors, integrating electromechanical excellence, advanced arc management, and smart trip units for safety, reliability and efficiency. Built for harsh environments, it provides a comprehensive, economical offering for distribution panels. The successful launch of TRON range reflects Havells' commitment to "Make in India for the World." Recognized with prestigious honours like German Design Award and Design Intelligence Award, TRON showcases user-centric innovation, platform modularity, and engineering excellence with over 30 patents and design registrations.

The Approach

TRON circuit breakers leverage platform innovation and modular design for faster development. Using predictive engineering, DFSS, DFR, and agile execution, reliability is embedded throughout the lifecycle—ensuring quality is proactive, not reactive, and enabling focused innovation on critical subsystems with accelerated time-to-market. Thus, enabled to achieve reliability 90%.

The Benefits

TRON breakers feature compact, current-limiting designs that reduce installation costs by ~15%. Universal accessories cut SKUs by 66%, simplifying inventory and improving usability. Their efficient fault-clearing and durable construction enhance uptime and reliability. These innovations promote clean energy use, modern infrastructure, sustainable urban development, and responsible, resource-efficient manufacturing practices.

Hindustan Unilever Limited

About the Company

Hindustan Unilever Limited (HUL) is India's largest fast-moving consumer goods company, offering products in home care, beauty, personal care, and foods. A subsidiary of Unilever, HUL serves millions daily through trusted brands like Dove, Surf Excel, and Horlicks, driving sustainable growth and innovation across diverse consumer segments.

The Innovation

Horlicks Diabetes Plus is a specialized nutritional drink for adults with diabetes or pre-diabetes, formulated with a dual high-fibre blend—NUTRIOSE® and FIBERSOL—to help manage blood sugar, cholesterol, and weight. With no added sugar, high protein, and essential micronutrients, it supports satiety and balanced daily nutrition in Chocolate and Vanilla flavours.

Vim Ultra Pro Floor Cleaner uses patented dual SMART technology with biodegradable polymers and probiotics to deliver 100% tough-stain removal, streak-free shine, and long-lasting premium fragrance. It comes in Lavender, Lemongrass, and Citrus variants.

Unilever's Carbon Capture Soda Ash, developed with TFL, repurposes CO_2 into sustainable soda ash, reducing detergent carbon footprints and supporting Net-Zero goals under PachaMitra.

The Approach

Horlicks Diabetes Plus uses a unique blend of slow-release carbohydrates and high-fibre ingredients to help manage blood sugar levels, setting it apart from generic nutritional drinks. The formulation is backed by Unilever's global IP portfolio, ensuring strong differentiation and protection.

Vim Pro Floor Cleaner uses biodegradable polymers for quick drying and streak-free shine, along with a proprietary probiotic blend that delivers deep cleaning, long-lasting hygiene, malodour control, and up to four hours of freshness.

Unilever, in partnership with TFL, has also pioneered CO_2-captured Soda Ash, converting concentrated carbon emissions into mineral soda ash to significantly reduce the ingredient's overall carbon footprint and support decarbonization.

The Benefits

- HUL introduced Horlicks Diabetes Plus, a nutritional drink tailored for diabetics. Featuring slow-release carbohydrates and high-fibre ingredients, it supports effective blood sugar management and addresses a significant gap in India's health beverage market for diabetes-specific functional solutions.
- Vim Ultra Pro Floor Cleaner delivers spotless clean and enhanced performance by delivering 100% stain removal, streak free floors and long-lasting Hygiene
- Carbon Capture Soda ash is a low GHG Soda Ash that enables De-carbonisation by capturing carbon di oxide from Bio-sphere and converting it into Soda Ash mineral which then gets used in Unilever Laundry Products.

About the Company

The Indian Hotels Company Limited (IHCL), a Tata Group enterprise, is South Asia's largest hospitality company with a portfolio of 380 hotels across 4 continents, 14 countries, and 150+ locations. Its iconic brands include Taj (ranked World's Strongest Hotel Brand 2025 and India's Strongest Brand 2025), SeleQtions, Vivanta, and Ginger, alongside new businesses like Qmin, amã Stays & Trails, and Tree of Life. Guided by its vision of Reimagining Hospitality, IHCL integrates innovation, digital transformation, and sustainability to deliver exceptional guest experiences. FY 2024–25 marked a milestone with consolidated revenue of ₹8,565 crore, EBITDA of ₹3,000 crore (35% margin), and enterprise revenue of ₹14,836 crore, supported by 74 signings and 26 openings under its Accelerate 2030 strategy. IHCL's Paathya ESG+ framework drives responsible growth—35% energy from renewables, 51 hotels powered by clean energy, and 13 operating on 100% renewable sources—reinforcing its leadership in sustainable, future-ready hospitality.

The Innovation

Innovation 1: Accelerate 2030

Accelerate 2030 is IHCL's enterprise-wide transformation roadmap to double consolidated revenue to ₹15,000+ crore, expand to 700+ hotels, and elevate new and reimagined businesses to 25% of revenues by FY 2030. The strategy focuses on capital-light growth, digitalization, and brand portfolio expansion. FY 2024–25 delivered strong progress: 74 signings and 26 openings, taking the portfolio to ~380 hotels; >95% of signings were asset-light. Enterprise revenue reached ₹14,836 crore, validating the balanced model. Accelerate 2030 integrates sustainability through Paathya and leverages digital platforms like Opera Cloud PMS and SAPLink for operational agility. This innovation positions IHCL as a future-ready hospitality leader with scale, profitability, and ESG stewardship.

The Approach

IHCL adopted a structured approach: define clear 2030 targets, deploy capital-light models, digitize core operations, and embed ESG principles. Governance through cross-functional committees ensures execution discipline and agility.

The Benefits

Accelerate 2030 has driven significant growth and operational efficiency, reinforcing IHCL's leadership in hospitality.

Indian Immunologicals Limited

About the Company

Indian Immunologicals Limited (IIL), Hyderabad, a wholly owned subsidiary of the National Dairy Development Board (NDDB), Anand, Gujarat, is a ONE HEALTH vaccine manufacturing company IIL's contribution to the country is on two fronts: i) Animal Health and Milk Productivity; and ii) Infant health through paediatric vaccines.

The Innovation

Hepatitis – A Vaccine

Hepatitis A caused acute hepatitis, is transmitted mostly through exposure to contaminated food or water, or through personal contact with an infected person. Available data suggests that HAV is responsible for 10-30% of acute hepatitis and 5-15% of acute liver failure cases in India. IIL developed a cost-effective Inactivated Hepatitis A vaccine 'Havisure' where drug substance and drug product both were developed in-house, which is a notable innovation as it represents one of the few vaccines developed indigenously in India. Until now Hepatitis A vaccine (HAV) is being imported to India is manufactured by multi-national companies.

Infectious Bovine Rhinotracheitis (IBR Vaccine)

Launched in Sep 2025, IBR vaccine is a glycoprotein E (gE) deleted DIVA marker vaccine against infectious Bovine Rhinotracheitis. IBR causes infertility, abortions and reduced milk productivity in milche cattle. IBR is endemic in India and caused by Bovine Herpes Virus (BHV-1). The disease is transmitted through aerosol route and affects reproductive systems of cattle.

Products in Pipeline (near future launches)

Vaccines for fish against bacterial diseases, Edwardsillosis and Columnaris diseases This is in collaboration with the ICAR – Central Institute of Freshwater Aquaculture (CIFA)

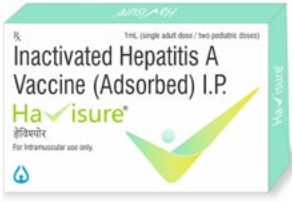
Vaccine against Kyasanur Forest Disease (KFD), a tick borne viral haemorrhagic fever, endemic to Southwestern India. KFD vaccine is in collaboration with ICMR.

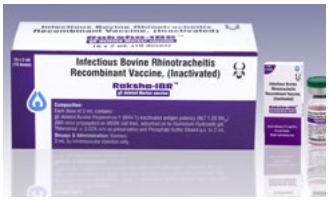
The Approach

IIL's approach is to support innovation by addressing the scaling up challenges for mass production of vaccines across species/platform technologies. The manufacturing facilities of IIL has multiple scale up ranges starting from 10 litres to 10000 litre batches. IIL uses their expertise in vaccine manufacturing to provide cost effective solutions.

The Benefits

Each of the above innovations address the aspects of indigenisation (Hepatitis-A & IBR vaccines), Improving Productivity (IBR Vaccine), Reduced consumption of Anti-biotics against bacterial diseases through vaccination i.e., addressing AMR in fishes, meeting the unmet medical needs of population exposed to endemics (KFD vaccine). IIL for ONE HEALTH.





INDO-MIM Limited

About the Company

INDO-MIM Limited, founded in 1996 and headquartered in Bengaluru, is a global leader in Precision Engineering Components using Metal Injection Molding (MIM) technology. Serving to Automotive, Aerospace, Medical, Defence, and Consumer industries, INDO-MIM has redefined component manufacturing with innovative, high-quality, and cost-effective.

The Innovation

Innovation at INDO-MIM is driven by continuous advancement in Metal Injection Molding (MIM) and complementary technologies such as Additive Manufacturing, Advanced Ceramics, and Precision Casting. We integrate automation, IoT and in-house powder production to deliver consistent quality and performance. Our focus on material innovation, from high-performance alloys to specialized medical-grade solutions, enables us to serve diverse industries with cutting-edge components. By combining R&D, rapid prototyping, and end-to-end manufacturing, we provide customers with unique, cost-effective, and scalable solutions that redefine global standards in precision engineering.

The Approach

At INDO-MIM, our approach is built around customers' needs. We collaborate from concept to production, offering end-to-end solutions across MIM, Additive Manufacturing, Ceramic Injection Molding, and Casting. With global quality standards, rapid prototyping, and scalable manufacturing. Our customer-first mindset ensures timely delivery, reliability, and long-term value for Automotive, Aerospace, Medical, Defence, and Consumer industries.

The Benefits

INDO-MIM simplifies customer challenges by providing a one-stop solution that reduces costs, enhances performance, and accelerates product launches. With multiple technologies under one roof, we eliminate supply chain complexities and ensure consistent quality. Our global presence, strong R&D, and reliable delivery give industries a competitive edge with precision components.

Ingenero Technologies India Pvt. Ltd.

(ESTD 2000)

INGENERO
Excellence Through Insight

About the Company

Ingenero is started with a revolutionary concept of Intelligent Process Operation Guidance (IPOG) using IIoT, giving services to Oil & Gas, Refinery, Petrochemical, Power, and Chemical industries since last 25 years. Ingenero is pioneered the use of data analytics and Process Digital Twin to enhance the efficiency and safety of manufacturing operations. Process innovations with Applied-AI solutions enhance sustainability, reliability, and performance, advancing NetZero goals.

The Innovation

iNetZ is a digital solution that allows organizations to accurately measure, manage, and reduce greenhouse gas (GHG) emissions while remaining compliant with environmental standards.

iNetZ automates data collection, estimates Scope 1 and 2 emissions, and creates reports that comply with global standards (GHG Protocol, ISO 14064-1, and SBTi). It supports science-based targets (1.5°C goal) and provides insights into decarbonization strategies.

iNetZ streamlines compliance, empowers sustainability teams, and builds a foundation for credible climate action, assisting businesses in setting industry benchmarks and driving continual progress in emissions reduction.

iNetZ transforms sustainability into a strategic advantage through innovative Net Zero solutions.

The Approach

Ingenero's values of Innovation, Partnership, and Ownership foster a culture of continuous improvement. By encouraging creativity and balancing youthful energy with expertise, we develop impactful digital solutions like iNetZ, IngeneroX, AlertX, AnalyticX, APCPro, OptimaX and Gen AI-Chat-Bot. These innovations minimize energy and environmental impact, enabling organizations to meet climate goals profitably.

The Benefits

iNetZ offers benefits of,

1. Accurate emission tracking, 2. 100% compliance with IPCC, GHG Protocol, and ISO 14064, 3. SBTi-based target setting, 4. Enhanced employee engagement via dashboards, 5. Support for NetZero goals

These outcomes drive efficiency, cost savings, and sustainability, aligning industries with India's "Viksit Bharat" Net Zero ambitions.

The Future

Ingenero is developing a unified digital platform for sustainability, leveraging AI-driven forecasting, intelligent benchmarking, and real-time optimization. Built on expertise in Digital Twin, Applied AI, and Digital Platforms, it aims to reduce energy consumption, eliminate inefficiencies, and help organizations achieve Net Zero, transforming sustainability into a driver of profitability and resilience.

About the Company

InMobi is a global technology company founded in 2007 and headquartered in Bengaluru. It pioneers mobile advertising, content, and commerce solutions through data-driven, AI-powered platforms. With subsidiaries like Glance, Roposo and Glance AI, InMobi connects brands, consumers, and creators across markets, enabling personalized engagement and monetization at a global scale.

The Innovation

Glance AI is an AI-powered commerce platform that delivers personalized fashion discovery. It uses generative AI, diffusion, and geometry-modelling to create hyper-realistic outfits based on selfies, skin tone, and body type, matching them with shoppable products from hundreds of brands for an immersive, visual, and intuitive shopping experience.

The Approach

Glance AI's approach combines generative AI, predictive intelligence, and commerce data to create immersive, personalized shopping experiences. Using selfies, it generates hyper-realistic outfit visualizations, anticipates user preferences, and seamlessly links them to real products. Its three-layered architecture ensures intent prediction, visual engagement, and smooth conversion across devices and platforms.

The Benefits

It enhances shopping by offering Ai generated hyper-personalized, visual experiences. It allows users to virtually try outfits using generative AI, improving confidence in purchases. The platform reduces return rates, boosts engagement for brands, and makes fashion discovery faster, more inclusive, and intuitive through real-time, AI-driven styling and product recommendations.

Indian Farmers Fertiliser Cooperative Limited (IFFCO)

About the Company

IFFCO, established in 1967 with 57 member cooperatives, is the world's leading processed fertiliser cooperative dedicated to empowering Indian farmers and ensuring food security. Linked to over 5 crore farmers via 35,000 cooperatives, IFFCO operates five energy-efficient fertiliser plants, producing 93.10 Lakh MT in 2024-25. Contributing 30% of India's phosphatic and 16% of urea fertilisers, it leads in innovation with nano fertilisers and agri-drones, advancing sustainable agriculture nationwide.

The Innovation

IFFCO has indigenously developed nano-technology-based fertilisers at its Nano Biotechnology Research Centre (NBRC), Kalol, Gujarat, supporting the Government of India's focus on alternative fertilisers. Nano fertilisers feature particles smaller than 100 nm, offering high surface-area-to-volume ratios for improved nutrient use efficiency (NUE). IFFCO operates five manufacturing units with a combined capacity of 29 crore bottles annually, producing four varieties—Nano Urea, Nano DAP, Nano Copper, and Nano Zinc—with plans for granular forms. Precision application ensures essential nutrients reach plants efficiently, reducing wastage, minimizing environmental pollution, and enhancing crop growth and sustainability across Indian agriculture.

The Approach

IFFCO started Research and Development activities to launch Nano Fertilisers in early 2016 and deployed a team of best scientists from across the world at its newly built NBRC center at Kalol, Ahmedabad.

Field efficacy of Nano Fertilisers has been assessed and established through more than 11,000 multi-location, multi crop trials conducted under National Agricultural Research System (NARS) in collaboration with ICAR, various other Domestic and International institutions. Further, Technical reports has been published on Nano Fertilisers by many prestigious institutes and Universities.

The Benefits

Nano fertilisers have use efficiency of more than 90 percent under optimum field conditions. Nano DAP (Liquid) has superior spread ability on seed surface, crop foliage followed by assimilation meets essential N & P requirement of crops, improves seed vigour, chlorophyll and photosynthetic efficiency and crop yields. Precision and targeted application of Nano fertilisers can reduce the requirement of the conventional fertilisers such as Urea and DAP, upto 50%.

In addition, Nano Fertilisers are easy to carry and store and are thus economical in terms of reduced Transportation and Warehousing cost.

Category 1 – 5G Innovation of the Year (AI-Driven 5G Core & FWA Core)

About the Company

Jio Platforms Ltd. (JPL) is an Indian multinational technology company and a subsidiary of Reliance Industries Limited, headquartered in Mumbai, India. Jio Platforms' 5G solutions enable operators to evolve to new 5G/6G and AI capabilities. Its end-to-end 5G portfolio spans radio, core, automation, OSS/BSS, and AI/ML platforms along with network services. The 5G stack is also uniquely positioned to implement innovative 5G and AI use cases for enterprises and private networks, with deployment options at the edge as well in the public/private cloud. In addition, JPL is engaged in active research at its in-house Jio Labs facility to make 6G a reality.

The Innovation

The AI-Driven 5G Combo Core & Multi-User FWA (AirFiber) Platform is JPL's flagship innovation, integrating 4G, 5G, and FWA into one intelligent, cloud-native fabric. It powers 228Mn+ live users and 9.3Mn+ homes, making it the one of the world's largest operational 5G SA Core. Deployed across 8 core data centers, 110+ edge sites, and 8,000+ towns, it handles 180 EB annual traffic and 18Bn daily voice minutes, fully automated by AI.

At its heart lies the patent-pending Multi-User FWA Core, enabling a single rooftop CPE to serve multiple households. This breakthrough reduces rollout costs by 60%, energy consumption by 50%, and accelerates connectivity in fiber-dark regions. AI-driven orchestration via JioBrain processes 350Bn+ telemetry points daily, enabling predictive fault detection, SLA automation, and anomaly resolution—delivering 40% fewer outages and 30% OPEX savings.

The platform embeds quantum-safe encryption and indigenous cryptography, securing traffic against future quantum threats. Certified by TM Forum with 150+ Open APIs, it supports slicing for mobility, SASE, gaming, URSP, and disaster-ready connectivity. Its cloud-agnostic design ensures interoperability with major hyperscalers, creating a scalable and exportable blueprint.

Unlike pilots, this is a live, production-grade system, already transforming education, healthcare, agriculture, and smart cities through affordable broadband. No other telco globally has achieved this agentic, AI-driven, quantum-secure Combo Core at such scale, inclusivity, and impact.

The Approach & Benefits

Built entirely in-house using 3GPP-aligned, patent-backed architecture, the platform integrates JioBrain AI, quantum-safe security, and multi-user FWA technologies. The result is intelligent, resilient, and inclusive nationwide connectivity with significant breakthroughs—60% rural rollout savings, 50% energy reduction, 40% fewer outages, and secure, zero-touch operations—positioning India as a global leader in next-generation telecom innovation.

JSW
Paints Limited

About the Company

JSW Paints is a thoughtful company that makes paint and painting a beautiful experience. With its philosophy of Think Beautiful, it offers a carefully curated, eco-friendly portfolio of water-based decorative paints for interiors and exteriors—designed to inspire consumers and make the world more vibrant, sustainable, and beautiful.

The Innovation

Any Colour One Price

JSW Paints disrupted industry norms with Any Colour One Price, ensuring customers never pay extra for deeper shades within a range. This consumer-first innovation delivers transparency, fairness, and freedom of choice across 1,808 curated shades.

Eco-friendly, Water-based Portfolio

Our carefully curated range of environment-friendly paints—under the brands Halo, Pixa, and Aurus—is designed for interiors and exteriors. The Aquaglo range, India's first odorless water-based enamel for wood and metal, continues to delight consumers by combining safety, beauty, and performance.

Ergonomic, Roller-friendly Packaging

Innovative packaging makes paint application easier, minimizes wastage, and enhances the overall painting experience—supporting JSW Paints' goal of making painting Simple, Swift & Sure.

JSW Paints Buddy

A unique consumer-assistance service that offers doorstep guidance on product and colour selection, helping consumers make confident choices. This personal touch simplifies what is often a confusing and complex category.

The Approach

JSW Paints challenges industry conventions by addressing consumer pain points, applying cutting-edge technology, and creating thoughtful, transparent innovations that redefine paint and painting as a purposeful, joyful, and sustainable experience.

The Benefits

Consumers enjoy transparency in pricing, freedom of colour choice, safer eco-friendly paints, and convenience through services like JSW Paints Buddy. These innovations save money, reduce complexity, and encourage creative expression—making painting more sustainable, fair, and inspiring.

Kanchan Metals Pvt. Ltd.

About the Company

Kanchan Metals Pvt Ltd is a leading name in the food processing machinery industry, offering world-class solutions tailored to diverse food segments. With a strong focus on innovation and quality, we provide cutting-edge equipment that enhances productivity and efficiency. Our commitment to excellence, customer satisfaction, and fostering long-term partnerships sets us apart as a trusted partner in the industry. Established in 1984, we boast a rich history of understanding the evolving needs of the food processing industry. We've built a strong reputation for durability, reliability, and exceptional customer service.

The Innovation

From automation to energy efficiency, our solutions are designed to meet the evolving needs of manufacturers. We develop innovative solutions with a strong focus on sustainability, ensuring our offerings drive progress while minimizing environmental impact. We offer customized solutions tailored to meet the unique needs of our customers, ensuring 100% import substitution with high-quality, locally manufactured products. Our commitment is to provide innovative and reliable alternatives that match global standards, empowering businesses with cost-effective and efficient solutions without the dependency on imported equipment. We understand the importance of food safety, and our machines are designed with hygiene in mind, minimizing contamination risks. We use only the finest materials and stringent quality control processes to ensure our machines meet the highest standards. Our state-of-the-art system revolutionizes products are ensuring superior efficiency and consistency. It offers a modern alternative to traditional Methods to compete processing methods, streamlining operations and delivering exceptional results.

The Approach

Our customer-centric approach focuses on understanding client needs, delivering customized solutions, and providing exceptional after-sales support. Our mission is to be your trusted partner in every step of your food processing journey. We collaborate closely with our clients to understand their unique needs and provide customized equipment solutions that enhance efficiency, productivity, and profitability. We're a passionate team dedicated to empowering food producers with innovative, high-quality equipment that streamlines processes and elevates your bottom line.

The Benefits

Our Continuous Namkeen Blending/Mixing System innovative system offers continuous blending and mixing for namkeen production, enhancing efficiency and consistency while challenging traditional batch processing methods. Hydro chiller system yielded improvements in efficiency and productivity of onward process. Our Dryer and Candy Blending was approved by their global engineering team and has provided more than 5 times saving in capital cost to the nearest competitors.

About the Company

KONE has served the industry for more than 100 years, building a legacy of innovation and reliability.

At KONE, our purpose is to shape the future of cities with best people flow experience. KONE will change the game and improve urban life by focusing on safety, ease, and sustainability. As a global leader in the elevator and escalator industry, KONE provides elevators, escalators, and automatic building doors, as well as solutions for maintenance and modernization to add value to buildings throughout their life cycle. Through more effective People Flow®, we make people's journeys safe, convenient, and reliable, in taller, smarter buildings. In 2024, KONE had annual sales of EUR 11.1 billion, and at the end of the year over 60,000+ employees.

KONE India serves customers all over the country through its 50+ branches and provides sustainable People Flow™ solutions. KONE's production unit in Chennai produces elevators and escalators for the Indian market as well as for export. KONE's global technology and engineering center in Chennai & Pune is one of the largest global R&D centers, which supports the latest technology and development of future solutions.

The Innovation

KONE has been recognized by Forbes magazine as one of the world's most innovative companies. At KONE, with our strong R&D we hold more than 3,000+ patents across our businesses. KONE has pioneered many innovations over the years. Some of these have transformed the entire industry.

KONE ECODISC® MOTOR

The KONE Eco Disc hoisting motor is the heart of KONE's elevator solution. The machinery was completely renewed in 2012 providing several advantages. The new innovative copper winding system reduces the amount of energy lost as heat, making KONE elevators even more energy efficient than before. The compact design eliminates the need for machine room in the building, thereby saving construction time and space. This innovation not only changed the elevator industry but also impacted the construction industry.

The Approach

DX Class Elevator

We have adopted customer centric approach to conceptualize, design, and build the DX solution. Our approach with the new technologies like Application Programming Interface (APIs) enabled an adaptable solution to the changing building needs by integrating different smart systems in a building space providing a Seamless People Flow Experience for the users.

The Benefits

DX Class Elevator

For buildings that aspire to be intelligent, KONE DX Class elevator provides:

- Customers to activate digital services easily and remotely when they need to, like KONE 24/7 Connected Services, Elevator remote call, Media screens etc.
- Secure APIs for third-party solutions, which create new possibilities to integrate with service providers like robotic systems, access control, visitor management systems and other building applications to bring new levels of sophistication to the people flow experience.

KPIT Technologies

About the Company

KPIT is reimagining mobility with partners and group companies to build a cleaner, smarter, safer world. With 25+ years of expertise, KPIT accelerates the shift to Software and AI-Defined Vehicles through advanced platforms, mobility-infused AI frameworks, software craftsmanship, and systems integration mastery.

The Innovation

Sodium-Ion Battery Technology

KPIT has developed a breakthrough Sodium-Ion Battery technology using earth-abundant materials, eliminating reliance on scarce elements like Lithium, Cobalt, and Nickel. It features fast charging (80% in 8 minutes), long life (3000–6000 cycles), wide temperature tolerance (-20°C to 50°C), zero-volt storage, and compatibility with existing Li-ion manufacturing setups—enabling scalable, affordable, and safer energy solutions for mobility and grid applications.

Assisted Root Cause Identification for Service Technicians (Trace2Fix)

KPIT developed Trace2Fix, a guided diagnostics platform aimed at improving first-time fix rates and technician productivity. The solution digitizes service information, integrates a reasoning engine for test ranking, optimizes vehicle diagnostics using analytics on field data, and provides both PC-based offline and mobile versions. Features include guided diagnostics modes, machine learning-based feedback loops, and usage monitoring dashboards.

The Approach

KPIT engineered the chemistry and design for Sodium-Ion batteries, focusing on manufacturability and performance. The technology was transferred to Trentar Energy Solutions for commercialization, ensuring rapid deployment through strategic partnerships and existing infrastructure.

The Benefits

The solution lowers costs, simplifies supply chains, and enhances safety. It supports diverse applications: EVs (2W, 3W, 4W), public transport, marine, defense, and stationary storage. Its recyclable cathode and drop-in compatibility make it ideal for sustainable energy ecosystems.

L&T Precision Engineering and Systems

Hazira Strategic Manufacturing Complex

About the Company

L&T Precision Engineering and Systems drives #AtmanirbharBharat through indigenous design, advanced tech, and strategic partnerships in defence, aerospace, and space. With deep engineering expertise and a legacy of innovation, L&T PES delivers concept-to-delivery solutions, fostering Indian IP and empowering national self-reliance across critical sectors for a stronger India.

The Innovation

L&T PES is driving innovation through advanced digitalization, integrating 3D-based manufacturing, IoT, AI & Industry 4.0 technologies in product & process development. Initiatives like Digital Twin & Product Lifecycle Management platform enhance precision, reduce cycle time and improve decision-making. With over 300 dashboards, 120+ bots and robust cybersecurity, the organization ensures secure, scalable and intelligent operations.

The Approach

The organization has adopted a strategic, structured & technology-driven approach to drive innovation.

This includes:

- Digital transformation of core processes through automation, integration and real-time data analytics.
- Adoption of advanced technologies like 3D-based manufacturing, IoT, AI, Digital Twin and PGCS for precision and efficiency.
- Standardized practices and centralized systems for governance, tracking and approvals.
- Cybersecurity-first mindset, ensuring secure digital operations via ISO 27001 audits and a dedicated Cybersecurity Operations Centre.
- Continuous improvement culture, training & upskilling supported by simulation tools, smart monitoring and generative AI for scalable, intelligent manufacturing.

The Benefits

L&T PES's innovations have significantly enhanced operational efficiency, accuracy and decision-making. Automation and integration have reduced manual effort, design iteration time and inspection hours. Real-time data from IoT and analytics enables predictive planning and faster responses. Advanced tools like Digital Twin and AI improve precision, productivity and scalability. Robust cybersecurity ensures secure digital operations, while structured workflows and smart monitoring foster consistency and governance. Overall, these innovations support a future-ready, intelligent manufacturing ecosystem.

Larsen & Toubro Limited

About the Company

Headquartered in Mumbai, Larsen & Toubro Limited is one of the largest and most respected companies in India's private sector with $30Bn revenue. With over 80 years of a strong, customer focused approach and a continuous quest for world-class quality, L&T has unmatched capabilities across Technology, Engineering, Construction, and Manufacturing, and maintains a leadership in all its major lines of business.

A thrust on international business over the years has seen L&T's global footprint growing steadily. We have manufacturing facilities in key geographies, and offices and customers in over 30 countries.L&T has a strong heritage of professionalism that places the highest value on merit and integrity.

The Innovation

Innovation No -1

SUSTAINABLE PAVEMENT DESIGN INNOVATIONS FOR REDUCING GHG EMISSIONS & ENHANCING ENVIRONMENTAL PERFORMANCE

Considering India's massive natural aggregate demand and the associated environmental degradation due to excessive mining and quarrying, adopting environmentally conscious designs & green materials is imperative.

The Approach

For the adoption of sustainable innovative design and alternative materials, the process typically includes:

- Identification of challenges
- Creative brainstorming
- Literature study
- Conceptualization
- Lab testing & field trials
- Cost benefit analysis
- Ease of construction &
- Assessment of environmental impact

The Benefits

The implementation of sustainable design solutions and innovative materials & technology has the following benefits.

1. Environment Friendly: For Ganga Expressway project, the elaborated initiatives cumulatively reduced the aggregate consumption by ~ 3.6 Lac MT and GHG emissions by ~ 12,867 MT.
2. Cost effective
3. Execution Friendly, Easy and fast to construct
4. Enhanced pavement quality & improved durability

Ganga Expressway, CTSB construction

Ganga Expressway, bird-eye view

Aligarh Gaziabad (NH 34), Cold In-Plant Recycled Asphalt

Kanaktora Jharsuguda Road Project - NH-49, Bitumen Emulsion Stabilized RAP

Luminous Power Technologies Pvt. Ltd.

About the Company

Luminous (subsidiary of Schneider Electric) is a key player in energy solutions, committed to driving India's clean energy transition with a sharp focus on innovation and sustainability. With over 37 years legacy, Luminous has built a robust presence in the energy and residential solar space. Its wide portfolio of innovative products, including inverters, batteries, and solar solutions are designed to provide the end-to-end energy management ecosystem with reliability, safety, and efficiency. With 7 manufacturing facilities, 28 sales offices and 100,000 channel partners across India, Luminous powers over 100 million Indian homes and is expanding its reach in 40 international markets.

The Innovation

Sync-X Wi-Fi IoT with Cybersecurity Integrated Circuit - Integration of Wi-Fi IoT modules into Solar Grid-Tied Inverters (GTI) for remote monitoring and control. Embedded Cybersecurity Integrated Circuit (IC) ensures secure data transmission and device protection.

Luminous ConnectX – It is a next-generation IoT-enabled energy management platform designed for smart inverters. It empowers users with real-time monitoring, predictive insights and seamless control of energy flows.

The Approach

Follows a Product Readiness Level (PRL) approach which is a cross-functional process covering:

- Definition of Offering requirements
- Product development, verification and validation
- Industrialization and supply chain preparation
- It's a stage-gated process, managed by the Project Management Team, where at three business gates, the Project Steering Team decides on continuation.

The Benefits

Sync-X Wi-Fi IoT with Cybersecurity Integrated Circuit - Enhanced system reliability and data privacy. Reduced maintenance costs through remote diagnostics. Scalable for smart grid integration. All customer data is safe and remain in Indian cloud.

Luminous Connect X- It transforms energy usage into actionable intelligence. A dedicated platform for professionals to streamline solar and power backup installations. It simplifies device onboarding, configuration, and performance validation in real time. Designed for speed and accuracy, it enhances customer satisfaction. With intuitive workflows and smart tools, installers can deliver excellence every time.

Sync-X Wi-Fi IoT with Cybersecurity integrated circuit.

Connect X Platform

Mahadhan AgriTech Limited

(a 100% subsidiary of Deepak Fertilisers and Petrochemicals Corporation Limited)

About the Company

Mahadhan AgriTech Limited, a 100% subsidiary of Deepak Fertilisers and Petrochemicals Corporation Limited, is among India's leading fertiliser manufacturers. For over three decades, its flagship brand Mahadhan has empowered farmers with innovative, farmer-centric crop nutrition solutions. By enhancing productivity, improving livelihoods, and promoting sustainable growth, Mahadhan continues to be a trusted partner in Indian agriculture.

The Innovation

From 2022, Mahadhan transformed its portfolio by shifting from generics to Croptek and Solutek, two groundbreaking initiatives with the potential to disrupt conventional fertilizers. Croptek, the world's first balanced fertilizer with 8 essential nutrients, and Solutek, crop & stage-specific 100% water-soluble grades, deliver value-added solutions beyond traditional offerings.

The Approach

We set audacious goals to launch concept-selling products like Croptek & Solutek, challenging conventional fertilizer usage. Through SMART goals, micro-level planning, dealer activation, and structured farmer engagement activities, we delivered disruptive solutions. This bold approach accelerated adoption, empowered farmers with sustainable crop nutrition, and reinforced Mahadhan's leadership in differentiated agri-inputs.

The Benefits

Mahadhan's innovation efforts have led to the creation of new technology and knowledge in crop nutrition. For example, Croptek and Solutek introduced nutrient unlock technologies and stage-specific fertigation solutions, enabling efficient nutrient uptake, balanced crop nutrition, and soil health restoration—knowledge and practices previously unavailable in the conventional fertilizer market.

Mane Kancor Ingredients Private Limited.

About the Company

Mane Kancor, part of V Mane Fils, specializes in innovative ingredient solutions from sustainable sourcing of raw materials, with cutting edge process technologies. With presence in over 100 countries, regional distribution centers worldwide, and multi-locational factories in India, we adhere to global standards with various certifications like ISO, NABL, SEDEX.

The Innovation

1. Purakan™:

Purakan™ is a 100% natural anti-dandruff and scalp-care ingredient, an alternative to ZPTO and climbazole. A COSMOS approved, patented, BSB Innovation Award winning product, suitable for both liquid and solid shampoos, hair creams and serums, offering flexibility across a wide range of formulations.

The key ingredient in Purakan™ is pomegranate peel which is upcycled from the beverage industry- a sustainable solution contributing to a greener future. Another key ingredient in Purakan™ is the mint extract. Our Sustainability program for Mint, under FSA certified gold and silver category, positively impacts 6000 farmer families, changing livelihoods, farm income and quality of life.

2. Gentle Extracts:

Gentle Extracts are additive and solvent free, more towards carbon neutral, and label friendly ingredient solutions. It delivers authentic kitchen tastes and aroma, in seasoning formulations to enable a homely processing experience to consumers.

A novel proprietary process along with a radical technology- Gentle Extraction Technique (GET), eliminates the usage of Solvents & additives. GET is highly curated to provide distinctive kitchen profiles to our product and opens a wide array of taste experience possibility.

The advantages of label claims are well received by our customers. The product concept and innovation aspect are highly appreciated and accepted.

The Approach

Banyan-tree model Innovation philosophy ensures diversification in our research areas. Established Innovation management systems from ideation to commercialization, with periodical reviews at ComSci- top management platform, drives project success. Various humanized initiatives to upskill the team, enrich Innovation culture. Product management system in place ensures business viability of new products.

The Benefits

- New product CAGR - 17.79%
- Vitality index increased from 6.8 to 10.37 over the last five years.
- Numerous prestigious awards (from PDMA, IFT, BSB, Fi- India)
- Publications in various scientific journals.
- 4 Indian patents, 2 US patents, and 1 European patent.

Matrix Comsec

About the Company

Founded in 1991, Matrix is a leading provider of Security and Telecom solutions for contemporary businesses and enterprises. As a technology-driven and customer-centric organization, Matrix is dedicated to staying at the forefront of advancements in the Security and Telecom sectors.

With approximately 40% of its workforce focused on new product development, Matrix has introduced a range of advanced solutions, including Video Surveillance Systems (such as Video Management Systems, Network Video Recorders, and IP Cameras), Access Control and Time-Attendance Systems, and Telecom Solutions (including Unified Communications, IP-PBX, Universal Gateways, VoIP and GSM Gateways, and Communication Endpoints). These offerings are feature-rich, reliable, and adhere to international standards.

The Innovation

Matrix Cyber-Secured PTZ Camera was innovated to address critical gaps in surveillance across high-risk zones such as industrial perimeters, smart cities, defense corridors, and critical infrastructure. Conventional PTZs often underperform, leaving blind windows during sweeps, producing blurred images at night, consuming massive bandwidth, and lacking cybersecure design. With India's shift toward STQC Essential Requirements and ISO/IEC 27402 compliance, such cameras are fast becoming obsolete.

Matrix developed a fully indigenous PTZ camera, in 5MP/2MP resolution, that integrates 38× optical zoom, 120 dB WDR, and a 300 m IR range, enabling forensic clarity from daylight to pitch dark. At the mechanical level, high-speed pan/tilt up to 240°/s eliminates missed events, while quad-streaming with adaptive bitrate, ROI, and Smart Stream reduces bandwidth and storage by up to 50%.

The Approach

Matrix PTZ project began with thorough market research and competitor benchmarking. Existing PTZ models in the market were evaluated in real-world conditions to identify performance and compliance gaps. A cost–benefit analysis ensured the solution balanced advanced features with affordability. We also engaged field users — from city police to industrial security heads — to gather critical feedback that shaped our priorities. The development was then driven by cross-functional collaboration: R&D teams, product management, hardware and electronics specialists, CAD/CAM design engineers, and certification experts all worked together.

The Benefits

Matrix PTZ delivers actionable security outcomes rather than just higher specs. Its long-range zoom and clarity enable fewer cameras to cover wider areas. Built-in edge storage ensures evidence continuity, preventing data loss even during outages. Advanced streaming features optimize bandwidth and storage, resulting in reduced operational expenditure. Ruggedized design guarantees reliability in extreme environments, minimizing downtime and maintenance. Cybersecurity built into the device ensures compliance and trust for government and enterprise projects. And being fully indigenous, the camera strengthens national security sovereignty while aligning with Make in India policies.

Merritt Innovative Solutions India Pvt. Ltd.

About the Company

Merritt is an ISO & ISMS certified engineering product design and development company with 16+ years of expertise. We have delivered 200+ electromechanical products across diverse engineering sectors, supporting clients worldwide through a global delivery model that covers design, prototyping, testing, proveout, manufacturing and supply of high-quality products, components, test rigs & engineering End-to-End solutions.

The Innovation

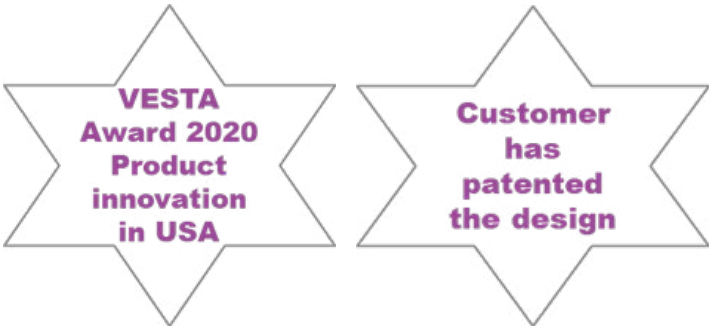
Product : Dual Gas Orifice

- **Application: Camp fire (Outdoor living)**
- **Business need:**
  - Required a gas orifice solution for NG and LPG. End-to-end Dual gas orifice engineering and low
  - cost mass production.
  - Address major service breakdowns due to change in fuel sources
- **Scope of work: Design and development of Dual Gas Orifice for various BTU values**
  - Generating multiple ideas and Concept modelling
  - Detailed design and virtual flow validations
  - Proto build, physical testing and prove-out
  - Manufacturing supply chain development
- **Approach:**

  Studied customer needs across thermal capacities, analyzed existing LPG and NG systems, and benchmarked fluid flow behaviors. Evaluated 18 design options through simulations, shortlisted high-performing concepts, and validated them via prototype testing.

- **Benefits:**

  Reduced R&D cost by 40–50%, cut timelines by 60%, and boosted market share. Improved safety and convenience with a kit-free design, simplified inventory for dealers, enabled export compliance, and created IP advantage strengthening technology partnerships.



About the Company

Founded in 1945, the Mahindra Group is one of the largest and most admired multinational federation of companies with 320,000 employees in over 100 countries. It enjoys a leadership position in farm equipment, utility vehicles, information technology and financial services in India and is the world's largest tractor company by volume. It has a strong presence in renewable energy, agriculture, logistics, hospitality, and real estate.

The Mahindra Group has a clear focus on leading ESG globally, enabling rural prosperity and enhancing urban living, with a goal to drive positive change in the lives of communities and stakeholders to enable them to Rise.

The Innovation

Mahindra is redefining electric mobility with its flagship Electric Origin SUVs—the BE 6 and XEV 9e—built on the all-new INGLO architecture and powered by MAIA, Mahindra's advanced AI system. The BE 6 delivers dynamic, adventure-ready performance, while the XEV 9e focuses on refined luxury and comfort. INGLO's lightweight flat-floor skateboard platform integrates high-density batteries to maximise cabin space, enhance flexibility, and improve agility. Its modular design supports multiple models without performance trade-offs. A compact 3-in-1 powertrain (170–210 kW), advanced suspension, brake-by-wire, VGR steering, and intelligent drive modes ensure superior handling and seamless adaptation to all driving conditions.

Fig. 1-Mahindra electric origin SUV BE 6

Fig.2 – Mahindra electric origin SUV XEV 9e

The Approach

Mahindra's IP Policy is built on awareness, protection, and respect for IP, guided by ethics and accountability. A 20+ member IP & Knowledge Management team supports Auto and Farm sectors through stage-gate IP checks, the Knowledge Management Index, Mahindra Inventors Academy, strong recognition programs, and extensive academic partnerships.

The Future

Mahindra's innovation approach is rooted in customer focus, aiming to create positive impact for communities and stakeholders while enabling them to Rise. We nurture an innovation-led growth mindset driven by collaboration, agility, and bold thinking. With Born Electric Vehicles set to redefine global mobility and advanced lightweight tractors, smart implements, and precision farming tools, we continue to democratize technology for farmers and future-ready consumers.

Meril Healthcare Pvt. Ltd.

About the Company

Meril Group, headquartered in Vapi, Gujarat, is a global medical device organization transforming healthcare through innovation. Founded in 2006 with Meril Life Sciences, it has expanded across cardiology, orthopedics, endo-surgery, ENT, and diagnostics, reaching over 100 countries. Meril Healthcare Pvt. Ltd., established in 2010, focuses on advanced orthopedic solutions, starting with the Freedom Knee. Delivering Total Knee Replacement (TKR), Total Hip Replacement (THR), and trauma products designed for Indian anatomies, it combines cutting-edge R&D, patented technologies, and surgeon collaboration. Upholding "Make in India – Made for the World," Meril enhances mobility, restores quality of life, and strengthens India's global healthcare impact.

The Innovation

At Meril Healthcare, innovation drives our mission to deliver world-class, India-rooted orthopedic solutions. All devices are developed in-house, addressing clinical needs with technological breakthroughs. Starting with the Freedom Knee (2011-12), our first Total Knee Replacement (TKR), Meril progressed to Destiknee™ in 2017, tailored for Indian anatomies and lifestyles.

The Opulent™ Total Knee System, launched in 2022 and protected under Indian Patent No. 532246, integrates Titanium Niobium Nitride (TiNbN) coating on CoCrMo alloy, enhancing corrosion resistance, reducing friction, and extending implant longevity. Designed for Indian postures like squatting and cross-legged sitting, Opulent provides superior alignment, natural motion, and faster recovery.

Meril's end-to-end manufacturing ensures precision, quality, and scalability, while the MiSSO Robotic System (2024) complements implants for enhanced surgical accuracy. Through patient-centric design, advanced materials, and digital integration, Meril Healthcare exemplifies "Make in India – Made for the World," setting new benchmarks in orthopedic innovation, mobility, and patient care.

The Approach

Meril Healthcare's approach to innovation integrates proprietary metallurgy—including its patented in-house Co-Cr alloy casting technology—with detailed anthropometric research and continuous collaboration with global surgeons. The process follows a rigorous cycle of 3D modeling, iterative prototyping, and biomechanical testing, ensuring superior flexibility, durability, and performance under real-world conditions. Manufacturing is carried out in state-of-the-art facilities adhering to international quality standards, supported by robust clinical validation and post-market surveillance. This end-to-end framework ensures that solutions like Opulent™ not only address the lifestyle demands of Indian patients but also meet the durability, safety, and reliability expectations of global markets.

The Benefits

Meril Healthcare's orthopedic journey began modestly, with only 9–10% market share by 2015 and about 18–20% by 2022, reflecting steady growth of ~8% annually. The launch of Opulent™ in 2022 transformed this trajectory. Revenues surged from ₹392 crores in 2022 to ₹684 crores in 2023, ₹1,173 crores in 2024, and ₹1,411 crores in 2025, averaging 55% growth. Today, knee systems contribute 65–70% of orthopedic revenue, commanding 35–40% market share—the highest in India, ahead of global peers. Beyond numbers, Opulent empowers patients with deeper flexion and durability, supports surgeons with precision, and enables healthcare systems with cost-efficient, world-class outcomes.

Minda Corporation Limited

About the Company

Minda Corporation Limited, established in 1985, is a leading automotive component manufacturer in India with a strong global presence. Its diverse portfolio spans Mechatronics, Information & Connected Systems, Plastics & Interiors, and Electronics for 2/3 wheelers, passenger vehicles, commercial vehicles, off-roaders, and aftermarket segments. The company leverages a dedicated R&D facility and strategic global collaborations to deliver innovative, high-quality products. Spark Minda Technical Centre (SMIT) serves as the advanced engineering hub, driving innovation in Electronics, Mechatronics, and futuristic CASE (Connected, Autonomous, Shared, Electric) mobility solutions, enabling the company to stay at the forefront of automotive subsystem technologies.

The Innovation

BLE Channel Sounding & Single-Anchor UWB Digital Key

MCL's BLE Channel Sounding technique enables secure distance estimation by combining RSSI-based coarse ranging with Phase-Based Ranging (PBR) and Round-Trip Time (RTT) methods. Innovations include transmit power randomization, bi-directional distance measurement, and automatic switch-over from connectionless to connection-oriented BLE-CS ranging. Dual-antenna setups provide precise Angle of Arrival (AoA), enabling high-accuracy localization for automotive access.

The WCC 3.0 Single-Anchor UWB digital key reduces cost and complexity by replacing multiple anchors with one, integrating UWB ranging, BLE proximity, IMU sensors, and multipath fingerprinting to achieve precise vehicle localization, door-specific unlocking, and in-cabin verification, maintaining security and performance.

The Approach

The technical approach focuses on combining a single UWB anchor with advanced software algorithms and sensor fusion. Time-of-flight ranging provides secure distance estimation, while smartphone IMU data and BLE signals are integrated through Extended Kalman Filters or particle filters to derive relative movement and position. Multipath characteristics of the vehicle cabin are modeled to distinguish between exterior and interior locations.

The Benefits

The single-anchor UWB digital key offers significant advantages over conventional multi-anchor systems. Cost reduction is immediate, with lower hardware bill of materials, simplified wiring, and shorter assembly times. For retrofit deployments, the single-unit design offers simplicity, enabling widespread adoption in fleet, mid-tier, and budget vehicle segments. Security is not compromised, as secure distance-bounding protocols remain intact, while user convenience is preserved through passive entry and reliable in-cabin detection.

Netlink's Innovations

About the Company

Netlink, headquartered in Detroit, Michigan, with offices in Canada, UAE, and India, delivers global IT solutions through a 2700+ team with 27+ years of expertise. Its flagship product, Lumenore AI, has transformed decision-making across industries. Netlink's AI-powered digital transformation solutions span across BI & Analytics, App Modernization, Low Code, Automation, ERP, Industry 4.0, Cloud Services, Mobility, GCC, and ESG Management. With a unique "Software Factory as a Service" delivery model, top certifications, and seasoned professionals, Netlink offers unmatched cost and productivity benefits. World's leading brands rely on Netlink for effective, innovative IT solutions and proven expertise.

The Innovation - I

Recidivism Reduction Tool

A leading public health network serving over 75,000 individuals across Michigan (US) faced recurring hospital readmissions among mental health and substance-use patients due to fragmented data and limited clinical visibility.

Netlink addressed this by developing an AI-powered predictive platform using Lumenore to forecast rehospitalization risks. The system unified clinical, behavioral, and social datasets to create holistic patient profiles and generate dynamic recidivism risk scores. Real-time dashboards empowered case managers with actionable insights, enabling early outreach and personalized interventions. This innovation transformed a reactive care model into a proactive, data-driven system, reducing preventable readmissions and improving public health resource utilization.

The Approach

Netlink adopted a data-driven, hybrid-cloud approach integrating Lumenore's AI engine with the client's case management systems. Predictive models, risk scoring, and closed-loop feedback workflows enabled proactive monitoring, early outreach, and precision-driven intervention for high-risk mental health patients.

The Benefits

The initiative achieved a marked reduction in readmissions within six months, enabled faster identification of high-risk individuals, and improved care coordination efficiency. It also optimized public health resource utilization, reduced emergency admissions, and enhanced confidence in treatment decisions through a unified, intelligent patient care view.

Sharadha Terry Products Private Limited

Micro Cotton
Crafting Comfort since 1932

About the Company

The company stands as a beacon of excellence and innovation in the textile industry, specializing in the production of premium terry towels. With multiple national/International awards and a legacy built on craftsmanship, quality, and a dedication to customer satisfaction, the company has established itself as a trusted name around the world.

The Innovation

Innovation 01

Cloud Towel

Traditional terry towels are limited to pile loop heights of 5–6 mm due to weaving constraints. While increasing pile height can significantly boost absorbency, conventional attempts have faced key drawbacks—uneven surface, excessive linting, and longer drying times.

We have pioneered the world's first ultra-long pile loops of 11–16 mm—achieved at the same manufacturing cost as standard towels.

Recognized globally, the patented Cloud Towel received the "Best New Product" award by Newsweek (USA, 2024). Production is entirely sustainable, using Indian cotton blended with pre-consumer textile waste.

The Approach

This breakthrough was enabled through our patented proprietary combination of yarn manufacturing, weaving, and wet processing technologies. The design forms extended pile loops that create inter and intra-loop air pockets and is unique only to our company; Patents have been filed in customer-specific countries.

The Benefits

Loop length increased by 70–100% (9–16 mm vs. 5–7 mm) with zero/low-twist yarn, expanding surface area for moisture interaction.

100% higher water absorption versus comparable products in same weight range. 65% greater bulk without additional weight. 30% faster drying despite higher bulk, due to large air pockets.

OmniActive Health Technologies Ltd.

About the Company

By empowering people to thrive, we aim to shape the future of wellness in natural health solutions. With offices located globally, OmniActive is well positioned to understand the unique needs and regulatory landscapes of key markets. Our sales and distribution-networks are committed to developing and growing our customer's business worldwide.

The Innovation

Innovation is in our nature. Our global R&D and innovation center sets the standard for product excellence. Dedicated to developing new ingredients and delivery methods we focus on customization and speed to market.

OmniActive Health Technologies is an innovation-led company focused on developing advanced nutraceutical products through cutting-edge platforms in extraction science and formulation technologies. This approach enables the creation of proprietary intellectual property (IP) and differentiated solutions that address evolving consumer health needs.

Our product development journey begins with early-stage ideation within our R&D teams, where scientific exploration is paired with strategic marketing insights. This collaborative process helps define product behavior, identify market gaps, and ensure our offerings are superior to existing alternatives. By integrating science and market intelligence from the outset, we create unique selling propositions and commercially viable innovations that stand out in the competitive nutraceutical landscape.

Scientific teams play a central role in early discovery programs, identifying promising leads for specific health benefits. These leads undergo a rigorous stage-gate development process, which includes validation of extraction methods, chemical profiling of active compounds, and mechanism-of-action studies using cell lines and animal models. This ensures that each product is backed by robust scientific evidence and delivers measurable health outcomes.

The Approach

Solving challenges through novel technologies. Our revolutionary technologies allow manufacturers to add beneficial amounts of an ingredient or active without compromising the product's integrity and potency, while also making sure we are using the cleanest processes. Our patented technologies include: OmniBead Tech, Ultrasol Tech, Versabead tech, and Integrated actives Technology.

The Benefits

Our strengths lie in our ability to leverage science and technology to meet the demands of consumers and the rigorous scientific and quality standards for today's dietary supplement market. Our R&D centers in India are focused on developing innovative extracts and pioneering delivery forms. We work diligently with regulatory agencies for global approvals and actively sponsor research and human clinical trials.

Parijat Industries (India) Limited

About the Company

The Company is an India-headquartered agrochemical company with a multinational presence and a focus on innovation, product development and distribution of branded products.

As of March 31, 2025, its global presence spanned 65 countries (excluding India) across the continents of Asia, West Africa, Europe, and North America.

The Innovation

When Fall Armyworm (FAW) struck maize in Shivamogga, Karnataka, with no registered solution in India, Parijat's R&D team developed Velektin, a patented Wettable Granule (WG) formulation of Emamectin Benzoate + Profenofos—India's first WG and first insecticide permanently registered for FAW control. Combining a chloride channel activator and an acetylcholinesterase inhibitor, Velektin offers dual-action efficacy, resistance management, and broad-spectrum protection across maize, cotton, soybean, chili, and vegetables. Its stable, non-flammable WG form ensures safety, easy handling, and superior coverage. Validated in the field and patented in Ethiopia, Velektin safeguards livelihoods and sets new standards in formulation technology.

The Approach

Our agile, farmer-first approach united R&D, regulatory, and manufacturing teams to overcome the complex WG formulation of Emamectin and Profenofos. Fast-tracked field trials with farmers validated results, while advanced formulation science resolved stability, suspensibility, and safety—delivering India's first WG-based FAW solution swiftly and effectively.

The Benefits

For farmers, Velektin means confidence and security—the first registered FAW solution safeguarding maize yields and livelihoods. Its safe, spill-free WG form, superior efficacy, longer control, and resistance management reduce sprays and costs while boosting yields. Beyond maize, it protects multiple crops, reinforcing Parijat's farmer-first, next-generation innovation commitment.

Psychotropics India Limited

About the Company

M/s PSYCHOTROPICS INDIA LIMITED was born out of the vision to create a healthcare company that would address to the compassionate healthcare needs. Psychotropics is derived from our initial focus on psychiatry and Topical products, which over the years have grown into various therapeutic segments like cardiovascular, gynecology, dermatology, anti diabetic, antibiotics & anti-infectives, anti histamines, analgesics, acute pain killers, OTC/ FMCG products, pet care products & medicated soaps.

Some main objects are :

To develop affordable generic drugs in different categories like anti hyper tension, anti diabetic , drugs for pain management & dermatology. Our formulation research & development centre with 14 scientist continuously develops new & effective formulations as per the need of our customers both for india market & exports

The Innovation

It is driven by Scientific, regulatory & technological factors to accelerate the discovery, enhance efficiency and deliver more targeted treatments to the patients, It is includes the drug discovery, Formulation development, Analytical method development, Stability studies, Clinical trials, Bioequivalence study, registration and manufacturing along with patient compliance, there are multiple dosage forms in our R&D for innovation i.e. formulation development like Oral solid dosage forms, Liquid oral dosage forms, Parenteral dosage forms, Topical dosage forms, pelletization process and cosmeceuticals products.

The Approach

It is transformative approach to pharmaceutical development or innovation, many approaches are there i.e. Design space, Understanding the process, Risk assessment & management, Process control strategy, design of experiment and our key approach for any kind of innovation is patient centric.

The Benefits

Reduce the risk of market failure by keeping the customer at the center of the innovation process. 2. speeds up the time to market and minimizes the wasted resources on unproven thoughts. 3. increased productivity and profitability. 4. Increased customer satisfaction and loyalty. 5. Better patient experience.

PLUSS Advanced Technologies Ltd.

About the Company

A subsidiary of Carborundum Universal Limited (CUMI), part of the Murugappa Group, Pluss Advanced Technologies Ltd, headquartered in Gurugram, India, is a global leader specializing in phase change materials (PCMs) and specialty polymer solutions for creating impactful innovations. Since its inception in 1994, Pluss has pioneered innovations in materials science, focusing on sustainable and efficient technologies for sectors including cold chain logistics, healthcare, automotive, packaging, and HVAC.

Pluss is an Indian company with a global presence, catering to the European market through a subsidiary in the Netherlands. It also caters to other geographies with branch offices in US & Africa, reflecting our commitment to providing solutions worldwide.

Pluss' laboratories are DSIR recognized and company's efforts have garnered numerous accolades, including the prestigious CII Innovation Award and recognition from MIT's Innovators Under 35 in 2014 & 2017. Pluss is also a recipient of the National Technology Day award for its breakthrough in Polymers(2003), neonatal healthcare with 'MiraCradle'(2017) and Celsure for vaccine transport(2021).

The Innovation

Pluss leads innovation in the field of material science by developing specialized additives for plastics recycling and advanced phase change materials (PCMs) for storing thermal energy. The key innovations enabled by Phase Change Materials are;

Thermal shippers for pharmaceutical products with up to 150 hours of precise temperature maintenance, revolutionizing pharmaceutical cold chain logistics by offering unmatched thermal stability, reduced size, weight, and environmental impact.

The Approach

Pluss approaches by identifying opportunities of energy efficiency, energy conservation and energy storage in diverse domains to enable sustainable cooling & heating. As India transitions into a developed economy the energy demands are increasing. Pluss identifies areas for material development as well as solution/product development to cater to this demand.

The Benefits

The key benefits of the innovations by Pluss are;

- Sustained precise temperature control for perishable and life-saving pharma logistics
- Energy efficiency and cost reduction for cooling and heating applications in building HVAC and refrigeration.
- Decarbonization by replacing fossil fuel-based systems with clean backup medium using thermal energy storage.
- Enable uninterrupted cooling/ heating in applications dependent on renewable energy which presents the challenge of intermittency.

Poly Medicure Limited

About the Company

We touch millions of patients daily around the world with the products manufactured in our facilities. We have been serving the patients and healthcare providers for over two decades. We are one of the leading Medical Devices company and exporter in India. We have been recognized as the "Medical Devices Leader of the Year 2021" by the Department of Pharmaceuticals Ministry of Chemicals & Fertilizers, Government of India. We have been also recognized as the Largest Exporter of Medical Devices from India for Ten years in a row.

We, at Polymed have a strong track record of manufacturing high quality medical devices (more than 200+ products) in 12 state-of-the-art manufacturing facilities across the world. We stand for Innovation, Safety and Quality.

We believe in making high quality, safe and innovative medical devices that not only believe in empowering the medical fraternity in being effective and efficient in their work but also provide the highest quality of healthcare to the patients.

The Innovation

To keep pace with the ever-changing market requirements, Polymed has a fully staffed and highly equipped R&D / Innovation section approved by Ministry of Science & Technology, Government of India to design & develop new and innovative products. We have developed several Innovative products since inception, and the zeal will continue to serve mankind in all possible ways.

The Approach

A lot of research and data collection was done to begin with to understand the need of product precisely. Following steps ensured rest of the proceedings goes as needed and planned:

- Collecting appropriate data / inputs and selection of core team
- Selecting right partners / suppliers and providing them right inputs / insight
- Design conceptualization and review with Cross Functional Team
- Simple yet concise project planning and scheduling

The Benefits

Innovation culture leads to numerous benefits like:

- Existing processes like Quality, Production gets improved significantly
- Innovation created new knowledge about filling and capping of intricate devices demanding high level of accuracy
- Overall market share increased

The Future

Prime focus is to upscale R&D and Operations thereby accelerating growth in developed countries. Aim is to become a Globally recognized solution provider of infection reduction technologies and fluid management products.

Praj
Industries Ltd.

About the Company

Praj is India's leading industrial biotech company with four decades of innovation in environment, energy, and agri-process industries. Its Bio-Mobility® and Bio-Prism® platforms offer renewable solutions for fuels, chemicals, and materials, driving decarbonization and the circular bioeconomy. Powered by Praj Matrix, its world-class R&D center, and guided by responsible leadership, Praj is listed on the Bombay and National Stock Exchanges.

The Innovation

Praj's innovation journey in last 3-5 years focused on developing multiple biorefinery solutions leveraging Praj's expertise in Agri- processing backed by strong innovation capabilities in industrial biotechnology. In line with the vision of delivering environment friendly and sustainable solutions, Praj pursued innovation led high risk initiatives for decarbonization like development of indigenous technologies for Sustainable Aviation Fuels (SAF), Compressed Biogas (CBG) & Biobitumen as well as circular bioeconomy-based solution for bioplastics like polylactic acid. Each of the innovation aligns with government of India's initiatives like technology self-reliance, make-in India, Swatch Bharat and supports India's Panchamrit goals to achieve a sustainable future.

The Approach

The innovation approach included early-stage investments in R&D and technology development, scaling up technologies through demonstration plants and creation of ecosystems by working with multiple partners to advance sustainable development. The innovation strategy revolved around Feedstock-Technology-Product (F-T-P) approach to align innovation journey with Praj's vision and capabilities in the area of advanced bioeconomy.

The Benefits

Praj's innovations have delivered major economic, social, and environmental benefits—pioneering India's first SAF-blended flight, advancing waste-to-energy through CBG, developing bio-bitumen for sustainable construction, and offering bioplastics as an eco-friendly alternative to single-use plastics—driving India's decarbonization and circular bioeconomy goals.One photograph (Product)


Praj CBG Plant


Praj Demo Facility for Biopolymers


Praj SAF Demo Plant

Bio-Bitumen Road Inauguration

Pricol Limited

About the Company

Pricol Limited is one of India's leading automotive technology and precision engineered solutions company, headquartered in Coimbatore, India. Commencing operations in the year 1975 and being committed to attain leadership and excellence, the company has evolved into a reputed brand in the global automotive industry.

More than 2,000+ product variants are supplied to leading automotive OEMs in the Two-/Three-Wheelers, Passenger, Commercial & Off Highway Vehicles space across worldwide. Today, the Company has 8 manufacturing plants globally, and 5 international offices.

The Innovation

1) DIS with advanced features like Smart helmet connectivity, Voice assistance, Cruise control, Go Pro Camera connectivity, Dynamic head lamp brightness control, etc. for Premium segment Bikes,

- Smart Connectivity with latest Bluetooth Low Energy 5.2
  - Smart Helmet Connectivity
  - Go-Pro Camera
  - TPMS [Tire Pressure Monitoring System]
  - Voice Assistance
  - Smartphone Connectivity
  - Music Playback [Android & iOS]
- True 32bit Colour 5" TFT with higher resolution(800x480)
- 2.5 D perspective Graphics theme

The Approach

New Technology Development:

1. Ideation & Concept Generation (Internal & External):
   a. Technical discussions and decisions with Internal & External Stakeholders
2. System Engineering, Design and Development:
   a. Requirement Elicitation / Documentation
   b. Project Planning and Tracking
   c. Software Architecture & Design

The Benefits

The organization's innovation initiatives have led to breakthrough technologies and valuable knowledge, boosting product performance and operational efficiency while elevating customer satisfaction. By nurturing creativity and embedding continuous improvement in its culture, the organization stays agile and resilient. This adaptability strengthens competitiveness, drives consistent value creation, and ensures long-term, sustainable growth in an ever-evolving market landscape.

Post Tension Gujarat LLP

PTSI
Trusted since 2006

About the Company

PTSI®, has been a trusted name since 2006, providing specialized pre-stressed concrete & engineering solutions for construction industry globally. Known for solving challenges differently and focusing on customer needs, PTSI earns the loyalty of over 80% repeat clients, helping architects and engineers create efficient, sustainable, and standout structures.

Encapsulated PT Cable System

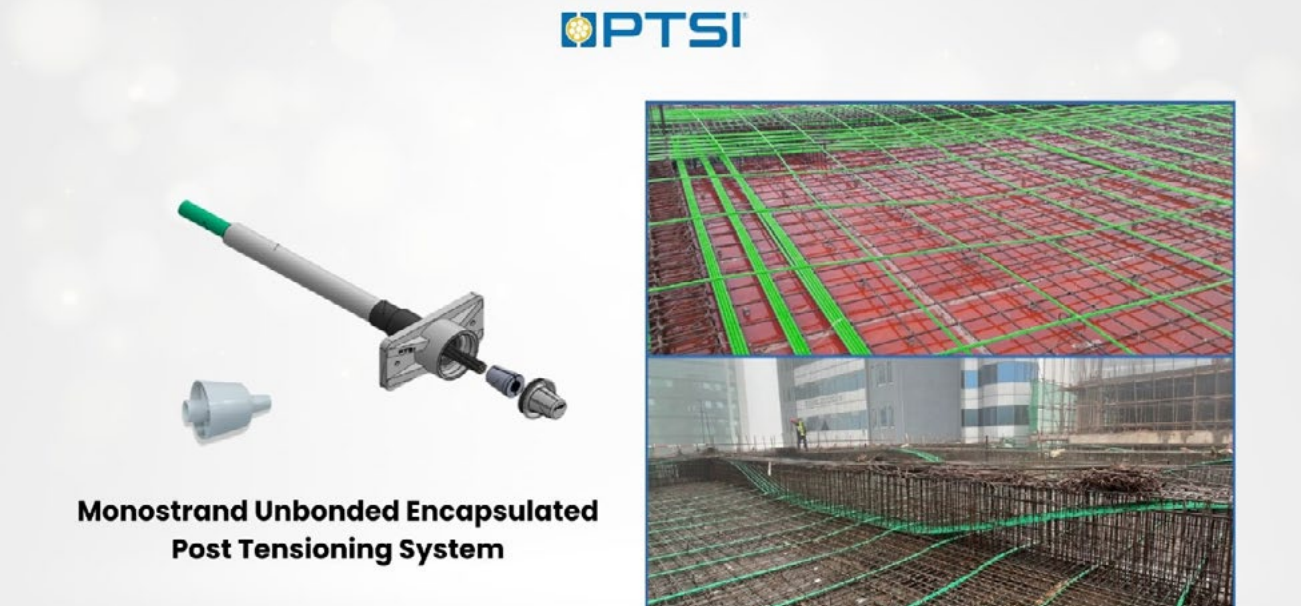
PTSI's next-generation encapsulated Post Tension (PT) Cable systems redefine durability and efficiency in construction. With corrosion-resistant tendons and lighter, high-performance materials, these systems extend structural lifespan & enabling faster installation. Enhanced anchorage ensures uniform stress distribution, enabling thinner slabs, longer spans, and lower material usage—all without raising costs. This breakthrough technology supports flexible design layouts, accelerates build speed, and offers a sustainable, cost-effective solution for modern projects.

The Approach

PTSI's innovation focuses on structural longevity by encapsulating tendons, minimizing dead load with lightweight components, and improving stress distribution for reliable, economical results—setting a new standard in concrete reinforcement.

The Benefits

PTSI's PT Cable systems deliver longer spans, thinner slabs, and reduced project costs. We ensure superior durability, minimize cracking, and enable architectural flexibility, making construction faster, more reliable, and environmentally sustainable.



Putzmeister Concrete Machines Private Limited

About the Company

Putzmeister is a worldwide leading solution provider for pumping, mixing, placing concrete, mortar and industrial solids. We are well known for quality, durability, and innovation of our products and services. Putzmeister Concrete Machines serves the needs of the Indian subcontinent, apart from exporting to Latin American, African and APAC countries.

The Innovation

1. Ergonic Output Control: Maximum Efficiency. Minimal Fuel.

This innovation introduces automatic engine RPM control based on real-time concrete pumping requirements. By intelligently adjusting the engine speed to match the torque needed, it ensures smoother operation, reduced wear, and significantly improved fuel efficiency. Traditionally, engines ran at maximum RPM regardless of demand, but this system optimizes usage—shifting the high-to-low RPM ratio from 3:1, resulting in substantial fuel savings and enhanced machine longevity.

2. Full flex technology: Stability Without Limits

This breakthrough innovation enhances the stability of mobile concrete pumps, significantly improving operator safety and machine versatility. Traditionally, these pumps required a wide base for safe operation—limiting their use in tight, space-constrained job sites. With Full Flex technology, the machine intelligently adapts to restricted spaces while maintaining full operational safety. The advanced control system dynamically monitors boom movement to ensure it stays within safe limits. This opens up new possibilities for urban and congested site applications, delivering greater flexibility without compromising on safety.

3. iONTRON BSF: Silent Power. Clean Performance. Total Control.

The iONTRON hybrid is a world first that allows concrete pumps to run in either electric or diesel mode based on power availability at the site. With a single push of a button, operators can switch between modes instantly. In electric mode, the machine delivers up to 50 percent lower noise, reduced CO2 emissions, and simple plug and pump operation. This innovation brings flexibility, sustainability, and performance together like never before.

Pidilite Industries Limited

About the Company

Pioneers in Adhesives, Waterproofing, Pigments and more

Pidilite Industries Limited, founded in 1959 by late Balvant Parekh, is India's leading manufacturer of adhesives, sealants, and specialty chemical. Our flagship brand, Fevicol, is synonymous with adhesives in India, while products like FeviKwik, Dr. Fixit, and M-Seal cater to diverse consumer and industrial needs. PIL operates in segments such as consumer goods, construction chemicals, and industrial products, and holds over sixty percent market share in adhesives. As a customer-centric company, we listen to our consumers and thus have been able to bring quality and innovation to your life. Our reach has expanded across borders and shores, making Pidilite products accessible to various markets, demographics, geographies, and people from all walks of life. Pidilite invests significantly in R&D, promoting innovation and our ideas are powered by Three fully equipped Pidilite R&D centres in India, two Pidilite Subsidiary R&D centres in Baroda (R&D ICA) and Kishangarh (R&D Groupopuma) and a cutting edge technical and research centre in Singapore.

The Innovation

Pidilite's Pengroove® machine is latest innovation in this technology, which is a crucial tool in industries where precise mixing of reactive materials determines product performance and durability. By automating the blending process, it improves reliability, reduces manual errors and ensures high quality output. This machine is currently being used by Joineries who are using 2-component D4 adhesive system based on BWP (boiling waterproof) technology.

The Approach

Handling, mixing and dispensing of two components D4 adhesive system on the shopfloor was challenging for wood joineries. Shopfloor personals are exposed to harmful and reactive isocyanate component. There was a need for customised two-component volumetric mixing machine, which can help for the accurately meter, mix and dispense two reactive materials in precise proportions.

The Benefits

Automated metering as per required ratios, homogeneous dynamic mixing, closed system (not exposed to workers), dispensing to required quantity and ready to use glue for final application are key benefits of Pengroove machine. Its compact & elegant design takes minimum space on shop-floor, enhanced safety and offering customizable calibration features.

Pureplay Skin Sciences (India) Private Limited

About the Company

Chemistry, done with heart" best describes Plum. Its award-winning skincare, haircare, and bodycare formulas delight Plumsters with clinically proven results. Founded in 2014 by hands-on formulator and chemical engineer Shankar Prasad, Plum is one of India's most admired new-age beauty brands blending science, nature, and heartfelt care.

The Innovation

Plum pioneers In-Mould Labelling (IML) in PET body wash bottles—first in India's D2C space and second in FMCG. In collaboration with YUPO and Indian partners, this MAKE IN INDIA initiative blends material and technology to advance sustainability—cutting waste, reducing CO_2, enhancing aesthetics, and achieving 25% cost efficiency.

The Approach

It centred on aligning technology with sustainability goals. Plum evaluated every stage—from label sourcing to manufacturing—to minimize waste and energy use. By integrating IML technology, optimizing supply chains, and localizing production, the team ensured long-term environmental, operational, and aesthetic gains while staying true to the MAKE IN INDIA vision.

The Benefits

The IML innovation delivers multi-dimensional benefits—65% reduction in label material, 62% elimination of silicone waste, and 2.9 tonnes of annual CO_2 savings. It improves aesthetics with wrinkle-free labels, enables faster factory operations, enhances supply chain flexibility, reduces freight weight by 52%, and achieves a minimum 25% overall cost efficiency.

QMS
India Limited

About the Company

QMS India Limited is a leading multidisciplinary consulting organization offering 300+ technical and management services across automotive, mining, engineering sectors. Recognized for safety, quality, environment, NDT and related services, QMSIL has executed 2,500+ projects nationwide and holds multiple statutory, QCI approvals, delivering value through innovation, professionalism, and integrity.

The Innovation

QMS India Limited (QMSIL) is a fast-growing, multidisciplinary organization present in 6 states at the forefront of innovation and industry advancement. With 2,500+ projects and 200+ experts, QMSIL integrates technology, research, and diverse expertise to deliver high-quality, sustainable solutions. Our services span management systems, safety, quality, auditing, and digital solutions. Backed by approvals from BEE, PESO, AERB, QCI, and NABL, and vendor ties with 3,000+ industries, QMSIL drives excellence through R&D in robotics, ERP–EHS integration, and advanced inspection technologies. With a Pan-India presence, we remain committed to innovation, compliance, and value-driven growth across sectors.

The Approach

QMSIL follows a holistic, client-focused approach integrating safety, quality, environment, and sustainability. Guided by innovation, integrity, and professionalism, we deliver risk-based, technology-driven solutions with timely execution. Our agile, value-driven model ensures continual improvement, stakeholder well-being, and long-term partnerships that foster sustainable growth and operational excellence.

The Benefits

QMSIL integrates services to enhance industrial efficiency, sustainability, and employee growth. Through 2,500+ projects, we optimize processes, ensure compliance, and drive innovation. Our initiatives in audits, biodiversity, CSR, and safety promote social and environmental responsibility. By fostering skills, leadership, and local employment, we create lasting value nationwide.

Quess Corp Limited

About the Company

Quess Corp Limited is India's largest staffing and workforce solutions company, with 460,000+ employees across 8 countries serving 3,300+ clients. Established in 2007 and headquartered in Bengaluru, Quess delivers technology-driven staffing and outsourcing services across sectors, combining AI-enabled platforms, domain expertise, and scale to enhance workforce productivity globally.

The Innovation

Quess has developed the Hamara Suite, which is a unified "hire-to-retire" platform integrating HRMS, recruitment, benefits, and upskilling into one super-app. Hamara HR uses computer vision for selfie-based attendance, uniform compliance, and route tracking, along with paperless onboarding for distributed workforces. Hamara Jobs powers India's first ONDC-integrated employment marketplace, standardising job and candidate taxonomies through NLP and enabling AI-driven job–candidate matching. Its agent-led Rozgaar Mitra model expands access to Tier 2/3/4 jobseekers. Together, these innovations advance India's Digital Public Infrastructure, combining automation, inclusion, and scalability across formal and informal employment segments.

The Approach

Innovation is institutionalised through Demo Fridays, yearly hackathons, and collaborations with academia, foundations, ONDC, and industry partners. Cross-functional teams prototype rapidly, share outcomes in open forums, and participate in national tech and policy events to align with evolving DPI frameworks, ensuring every product iteration drives measurable social and economic impact.

The Benefits

Hamara Suite delivers measurable impact, improving retention, reducing attrition, and achieving 95% project success rates through faster onboarding, transparent HR processes, and compliant workforce management. Nationally, it contributes to job formalisation, enhances women's participation, and enables inclusive access to verified work, benefits, and upskilling, bridging India's employment and digital divide.

Orione Hydraulics Pvt. Ltd.

About the Company

Orione, founded in 1992 by Mr. Keith Machado and Mr. S. Hariharan, pioneered high-pressure hydraulic jacks, tools, and systems. Starting with repairs, on-site services, and maintenance contracts, it quickly evolved to develop customized solutions for shipyards, railways, and process plants. The 2000 infrastructure boom accelerated growth with hydraulic systems for expressways, stay-cable bridges, and metro projects. Today, Orione is a trusted premium brand, contributing to national infrastructure while reducing imports and saving millions.

The Innovation

In the early years hydraulic jacks were manufactured from castings & low carbon steel. Working pressure 250 to 400bar and were heavy. Most of the jacks were integral type (in-built pump) max. capacity 200ton. We understood the gaps & as a differentiator manufacturing lightweight, spring assisted ram return jacks from Alloy steel forgings duly heat treated with Imported polyurethane seals for Working pressure 700bar, Capacity 200ton to 600ton. Orione is the only company in the world that manufactures 600ton capacity spring assisted ram retraction jacks up to 6inch stroke. Import substitute (present day - Make in India & Atmanirbhar Bharat)

1st set of 200t capacity x 300mm stroke, 700bar 4 jacks with 1 PPU

600t Rubber moulding Press, Naval Dockyard – Submarine Division

The Approach

Orione is a professionally managed, ISO- and CE-accredited company with integrated ERP systems, offering in-house design, fabrication, manufacturing, and testing up to 2,000 tons. Customer-centric with robust after-sales support, a skilled technical team, and sustainable green practices, Orione is recognized as a leading hydraulic solutions brand domestically and internationally.ent waste disposal systems.

The Benefits

Our products are proven, accepted and widely used in

- Construction & Infrastructure
- Railways
- Process Plants
- Mining
- Shipyards & Ports
- Heavy Engineering
- R&D Organizations
- OEM's
- Oil & Gas
- Aerospace

Reliance Industries Limited

Jio PLATFORMS

About the Company

Jio Platforms Ltd. (JPL) is an Indian multinational technology company and a subsidiary of Reliance Industries Limited, headquartered in Mumbai, India. Jio Platforms' 5G solutions enable operators to evolve to new 5G/6G and AI capabilities. Its end-to-end 5G portfolio spans radio, core, automation, OSS/BSS, and AI/ML platforms along with network services. The 5G stack is also uniquely positioned to implement innovative 5G and AI use cases for enterprises and private networks, with deployment options at the edge as well in the public/private cloud. In addition, JPL is engaged in active research at its in-house Jio Labs facility to make 6G a reality.

The Innovation

The AI-Driven 5G Combo Core & Multi-User FWA (AirFiber) Platform is JPL's flagship innovation, integrating 4G, 5G, and FWA into one intelligent, cloud-native fabric. It powers 228Mn+ live users and 9.3Mn+ homes, making it the one of the world's largest operational 5G SA Core. Deployed across 8 core data centers, 110+ edge sites, and 8,000+ towns, it handles 180 EB annual traffic and 18Bn daily voice minutes, fully automated by AI.

The Approach

JPL's approach fused indigenous R&D, patent-driven architecture, and AI-native automation to deliver a future-ready core. The system was built entirely in-house, aligned with 3GPP standards, and deployed using a modular, cloud-agnostic design. By integrating JioBrain's AI intelligence, quantumsafe security, and multi-user FWA innovation, JPL achieved scale, efficiency, and resilience unmatched in telecom. This collaborative approach—spanning patents, 3GPP contributions, and industry certification—ensures India's leadership in global telecom transformation.

The Benefits

The AI-Driven Combo Core delivers inclusive, secure, and intelligent connectivity at population scale. Key benefits include:

- 228Mn+ users and 9.3Mn+ homes connected seamlessly.
- 60% cost savings in rural broadband rollout.
- 50% energy reduction, supporting green networks.
- 40% fewer outages and 30% OPEX savings via AI automation.
- Quantum-safe, future-proof security for national digital resilience.
- Zero-touch provisioning for disaster recovery, Wi-Fi hotspots, and smart city enablement.

By merging scale, intelligence, and security, this platform transforms India's connectivity landscape—making it sustainable, sovereign, and globally benchmarked.

Sakata Inx (India) Private Limited

About the Company

Sakata Inx (India), a subsidiary of Sakata Inx Corp, Japan engaged in the manufacturing of Technologically advanced printing inks and coatings. Sakata India had successfully established unique Polyurethane-based inks and their advantages for the Indian Packaging Industries. These include environmentally friendly inks which ensure significant increase in recyclability of flexible packaging laminates and quantum reduction of plastics waste.

The Innovation

Sakata Inx unveiled LSG NT, an epochal advancement in sustainable printing inks for flexible packaging. Historically, laminate recyclability was grievously impeded by pernicious PVC-based inks, notorious for corroding extruders, whilst conventional formulations emitted deleterious volatile organic compounds, including toluene and ketones, with carcinogenic human and environmental ramifications. In a market exceeding US$20 billion, India's lamentably meagre recycling rate of less than five per cent underscored the exigency for innovation. LSG NT proffers a PVC-free, VOC-free paradigm that eradicates dioxins, safeguards food applications, and accords with stringent international regulations. Universally compatible and operational at formidable machine speeds, it fortifies sustainability and plastic recyclability, whilst optimising efficiency.

The Approach

The LSG NT system stands as a pioneering triumph, embodying an unprecedented synthesis of PVC-free, VOC-free, and food-safe attributes with universal substrate application versatility. Unique combination of new formulation with environmentally friendly Raw materials which are abundantly available and can be economically sourced and manufactured on existing equipment. With August adoption by Nestlé and eminent FMCGs, it propels recyclability to a formidable 10,000 MT per month. Its dual efficacy preserves ecological integrity and operator well-being alike, whilst the obliteration of dioxins fortifies ozone sanctity. By vastly extending the recyclability of flexible laminates, it heralds a resounding paradigm shift towards a safer, enduringly sustainable epoch in global packaging.

The Benefits

Through the LSG NT ink system, a commendable 6–7% diminution in waste has been realised via enhanced recyclability. The workplace is rendered markedly safer, with operators no longer imperilled by VOC exposure, thereby mitigating grievous health risks. Simultaneously, the carbon footprint is curtailed, and pernicious dioxin emissions are abolished. Its resounding commercial triumph is evidenced by adoption from illustrious FMCG houses such as Nestlé and endorsement by pre-eminent converters. This innovation epitomises chemistry in the noble service of the circular economy, forging a decisive stride towards sustainable growth and an elevated future for the global printing ink fraternity.

Shaily Engineering Plastics Ltd.

About the Company

Shaily Engineering Plastics is a leading global manufacturer for complex drug delivery devices. We provide end-to-end support for pharmaceutical leaders, moving from crafted concepts to confident, large-scale commercialization. With R&D in the UK and manufacturing in India, we ensure precision, regulatory compliance (ISO 13485, MDSAP), and scalable solutions.

The Innovation

Our primary innovation is a large portfolio of IP-led drug delivery platforms, including pen injectors, auto-injectors, and wearables. These devices are our own intellectual property, developed in-house to address the massive global demand for self-administered injectable therapies for chronic diseases like diabetes (GLP-1) and osteoporosis. This innovation transforms us from a component supplier into a critical, research-led solutions partner for the world's largest pharmaceutical companies, creating a defensible, high-margin business vertical.

One of the key product innovations is our next-generation fixed-dose pen injector ShailyPen Axiom, engineered specifically to solve common patient usability issues. Through extensive research, we designed a simple, non-priming, "pull-and-push" device that eliminates dose-dialling errors—a frequent problem for patients new to self-injection. It features an integrated dose counter, removing guesswork for medication refills. This patient-centric design directly enhances therapy adherence and safety, making it a highly attractive, sustainable, and reusable platform for our global pharmaceutical partners.

Targeting the high-growth GLP-1 market for diabetes and obesity, we developed a suite of advanced auto-injectors. Our innovations include the Shaily AI Toby, a 2-step auto-injector for Semaglutide, and the Shaily AI Tristan, a 3-step auto-injector for Tirzepatide. These devices offer simple, reliable, and automatic needle insertion, providing a seamless patient experience for some of the world's most critical therapies, positioning us as a key strategic partner in the pharmaceutical sector.

The Approach

Our approach is a disciplined model of Co-Creation and End-to-End Execution. We actively partner with customers from initial design to full-scale, regulated manufacturing. By managing the entire process in-house, we ensure IP protection, rigorous compliance, user-centric design, and a platform engineered for rapid, cost-effective scalability.

The Benefits

Our innovation drives significant value. For customers, it means accelerated speed-to-market and proven Zero PPM quality. For Shaily, it has fueled exceptional growth (22% Revenue, 45% EBITDA in FY25), pivoting our business towards the high-margin healthcare sector and substantially increasing shareholder value.

Shogun Organics Ltd.

About the Company

Shogun Organics Ltd is a solution-driven company leveraging cutting-edge research, expertise, and infrastructure to develop active ingredients for household pest control and crop protection formulations. With a legacy since Goodknight (1984), we remain committed to creating revolutionary and sustainable products that enhance human life.

The Innovation

Shogun pioneered mosquito control through Goodknight (1984) and Hit (1988), establishing itself as an innovative leader. Shogun is the first Indian company to invent, patent, register, and commercialize a new active ingredient—Renofluthrin. This novel pyrethroid molecule, developed indigenously, offers superior efficacy, safety, and sustainability, is twice as effective as existing household pest control products. Renofluthrin is approved by regulators in India, Indonesia, and Bangladesh - exclusively powering Goodknight flash with GCPL. It has been listed in the globally recognized Pesticide Manual published by the British Crop Protection Council. Shogun has won the PMFAI 2025 Outstanding Innovation Award.

The Approach

Addressing Innovation gap in controlling problems persistent in tropical countries and no innovation from western world, Shogun leveraged its research, advanced formulation, and regulatory knowledge to develop Renofluthrin, positioning it as a high-impact solution in India's and similarly affected nations fight against mosquito-borne diseases.

The Benefits

Malaria, Dengue, Zika, Ebola and many more mosquito vectored diseases cause about one million deaths annually. These can be more effectively addressed by Renofluthrin. Thus, Renofluthrin offers a very significant breakthrough.

Shree Jagannathji Sterling Products Pvt. Ltd.

About the Company

Founded in 2009, SJSPPL pioneers Pure Silver and Gold leaf manufacturing. Based in NCR, it serves India and abroad with a strong delivery network. Backed by expert engineers, SJSPPL delivers world-class quality, revolutionizing silver leaf production and customised application solutions, trusted by top Indian mithai brands for excellence and customer satisfaction.

The Innovation

Our patented innovation is the world's first automated Silver Varakh application solution. Traditionally Varakh has been applied manually to Indian sweets making them prone to cross contamination and compromising on hygiene

Our technology replaces this manual process by a fully automated, precision-controlled process that not only ensures hygiene but also reduces costs while increasing productivity

It significantly reduces silver wastage and enhances productivity aligning with global food safety standards putting Indian sweets on the global map.

The Approach

Our approach combined deep research, engineering design and client collaboration. We studied traditional practices, identified inefficiencies and co-created a fully automated patented solution for our clients. By integrating client feedback and continuous testing we have developed a scalable automated system that integrates seamlessly with the production line

The Benefits

Our innovation guarantees the following benefits

1. Productivity increased by reducing cycle time from 120 seconds to 30 second and by increasing output by 9%
2. Silver leaf wastage reduced by nearly 12%
4. Raw Material utilisation increased from 55% to 90%
5. Labour cost reduced by 50%

Shriram Pistons & Rings Ltd.

SHRIRAM PISTONS & RINGS

About the Company

SPRL is the largest Manufacturer of Piston, Rings, Piston Pin and Engine Valves in India with dominant Market Share in all Product Categories.

Being established in 1972, SPRL is now celebrating 50 years of excellence in manufacturing.

SPRL has KS Germany & HF Japan for Piston, Riken for Rings and Fuji Oozx for Engine valves as collaborators with equity participation of Riken.

Manufacturing locations are spread over 4 locations (In UP, MP & Rajasthan).

Turnover target for the year 2025-26 is Rs 3500 Crore (with growth of 10% over 2024-25) with workforce is 5700+.

The Company Sales has grown at 2.5 times CAGR in the recent decade compared to Auto industry growth.

The company has a State-Of-Art Tech Centre to Support this Growth.

The Innovation

Innovation 1- Product Innovation

Innovation – Reduction in weight & efficiency improvement for Trem V

Breakthrough design optimization was achieved in the Trem V component used in tractor applications, reducing its weight from 680 gms to 583 gms—a 14% reduction—without compromising strength or performance. Through advanced 3D modeling, structural simulation, and material re-engineering, redundant mass was eliminated while maintaining functional integrity. This innovation reflects our focus on lightweighting and cost-effective solutions for improved efficiency in agricultural machinery.

Innovation Approach

A cross-functional team employed design optimization, finite element analysis, and process validation to identify non-critical areas for material reduction. Controlled trials and iterative prototyping ensured strength, durability, and manufacturability remained uncompromised.

The Benefits

Achieved significant weight reduction, leading to improved fuel efficiency, lower material costs, and enhanced overall performance of the tractor. The optimized design also contributes to sustainability through reduced raw material usage and lower carbon footprint in production.

Sona BLW Precision Forgings Limited

(Sona Comstar)

About the Company

Sona Comstar is one of the world's leading mobility technology companies. From its 12 manufacturing plants and 5 R&D centres across India, USA, Mexico, China and Serbia, it designs, manufactures, and supplies mission-critical, complex and bespoke systems and components to global OEMs in electrified, personalized, intelligent and connected mobility.

The Innovation

We have commercialized over 10 products in the last 5 years. Out of which, three notable innovations are mentioned below.

1. Electronically Locking Differential (EDL): In 2022, we commercialized EDL for the high-end electric SUV for the North American market. This was perhaps the first EDL for an electric vehicle. EDL is an advanced technology used in high-performance and off-road vehicles to enhance stability, traction and safety. It is a type of differential that uses electronic actuators to lock the wheels on the left and right sides of the vehicle together. This allows the wheels to rotate at the same speed, providing maximum traction and stability.

2. Integrated Motor Controller: In 2023, we commercialized the Integrated Motor Controller, which integrates the traction motor and motor control unit into a single assembly. This all-in-one assembly simplifies installation, reduces wiring, and enhances performance, making it a unique solution with ASIL B functional safety compliance. With this development, we have also taken a step closer to developing an integrated electric drive unit, or EDU.

3. In-cabin Sensors: In 2024, we commercialized the in-cabin sensor, also known as ACAM, for an Asian new age OEM. ACAM sensor is a critical safety feature designed to detect the presence of a child in the vehicle, preventing tragic accidents and ensuring peace of mind for car owners. This product aligns with our vision of integrating advanced safety features into modern electric vehicles.

The Approach

Our 4-step innovation cycle – SEARCH, SELECT, IMPLEMENT, LEARN – starts with scanning technology evolution via customers, expos, forums, startups, and reports. Subsequently, a 5-year technology roadmap is finalized, and these R&D projects are tracked monthly. Marketing teams pitch these products to OEMs for co-development, ensuring timely market delivery of new iterations.

The Benefits

Our strong innovation has positioned us to thrive in the fast-evolving mobility sector. We now offer a diverse range of solutions across mobility segments, enhancing risk diversification and driving future growth. Our innovation-led strategy and multiple product launches have resulted in over 3x revenue growth in the last five years.

Spray Engineering Devices Limited

SPRAY ENGINEERING DEVICES LIMITED

About the Company

Spray Engineering Devices Limited (SEDL), founded in 1992, registered in 2004 and headquartered at Mohali, Punjab, India, specializes in innovative and sustainable technological solutions for energy-efficiency and thermal heat recycling in sugar, jaggery, biofuel, distillery, ethanol, chemicals, pharmaceuticals and water sectors without fuel burning to achieve net zero emission.

The Innovation

Mechanical Vapour Recompression based Low Temperature Evaporation Technology is an energy-efficient evaporation and concentration system that compresses low-temperature vapour to higher pressures under vacuum during evaporation, reusing it as a heat source and eliminate the internal heat sources like Boiler & Turbines as well as external heat sources like Condensers & Cooling Tower for sustainability. This reduces external steam demands, cutting energy consumption by up to 95%. Widely used in wastewater, sugarcane processing, 2G ethanol production, biofuels, distillery, foods, pharmaceuticals, textiles, chemical sectors. This system enables to recover and recycles almost 100% clean water from wastewater, saves 100% bagasse in sugarcane processing, 100% nutrient recycling and recycles 100% thermal heat in the plant.

The Approach

This approach is based on taking small-small, incremental actions at ground level to reduce emissions and SEDL is eliminating the fuel/biomass burning in our any plant, thereby supporting sustainable development goal of net-zero emission and contributing to the growth of our Nation.

The Benefits

- **Energy Efficiency:** Reduces external steam consumption by up to 90–95% through vapour recycling.
- **Cost Savings:** Minimizes fuel burning and utility costs by eliminating boilers, turbines, condensers and cooling towers.
- **100% Water Recovery:** Enables near-complete clean water recovery and reuse of clean water from wastewater streams.
- **Complete Thermal Energy Recycling:** Allows full recovery and reuse of process heat.
- **Sustainability:** No carbon footprint, supporting net-zero and environmental compliance goals.
- **Enhanced Product Quality:** Low-temperature operation preserves heat-sensitive compounds in food, pharmaceuticals, and chemicals.
- **Compact Design:** Requires smaller equipment footprint compared to conventional evaporation systems.
- **Rapid Start-up and Shutdown:** Offers operational flexibility for batch or continuous processes.
- **Reduced Water Pollution:** Minimizes effluent volume and pollutant load in discharged wastewater.
- **Scalability:** Can be adapted for small, medium, and large industrial operations.

Sahajanand Technologies Pvt. Ltd.

About the Company

Sahajanand Technologies Pvt. Ltd. (STPL), founded in 1993 and headquartered in Surat, India, is a cutting-edge laser technology firm driving innovation across multiple sectors. STPL aligns with Aatmanirbhar Bharat and Make in India, emphasizing self-reliance and local manufacturing. With over 700 employees, including 350+ engineers, STPL excels in diamond processing, 3D printing, medical lasers, and industrial lasers. STPL offers end-to-end solutions for both natural and lab-grown diamonds in diamond processing.

The Innovation

Lazer Smile is India's first indigenously developed CO_2 laser system designed for precision soft-tissue applications in dentistry and oral surgery. It addresses the limitations of conventional scalpels - longer treatment and recovery times, higher anaesthesia use, and greater infection risk - by offering a minimally invasive, patient-friendly alternative. With a <150 µm spot size, Lazer Smile ensures unmatched precision, enabling bloodless surgeries, minimal discomfort, faster healing, and reduced chair time. Lazer Smile features a green aiming beam, customizable modes, air-blow assistance, and safety measures for ease of use and patient safety. Fully compliant with international standards, it offers advanced performance and intuitive operation. With less than 10% of Indian dentists currently using lasers, Lazer Smile is making advanced technology accessible and affordable, transforming the scalpel-driven methods in the market. As a Made-in-India, for-the-world innovation, Lazer Smile aims to reduce dependency on imports and open doors for global competitiveness. It sets a new benchmark in affordable advanced care-bringing precision, safety, and comfort together in one device

The Approach

At STPL, we believe in continuous learning and process-driven innovation. By engaging with subject matter experts and end users, we consistently refine our products to deliver manufacturing excellence, cost efficiency, and cutting-edge technology integration. Our focus spans advanced development techniques, user-centric design, operator safety, and strong after-sales support - ensuring every product is both sustainable and reliable. With innovations like Lazer Smile and INSL600/INSL800, we are committed to addressing both Indian and global markets, offering affordable, safe, and high-performance solutions for 3D printing and soft-tissue surgeries. The defined new product or idea development process with rigorous validation, ensures Product's performance & reliability.

The Benefits

Lazer Smile: Lazer Smile features a highly precise <150 µm spot size with excellent water absorption, enabling accurate, minimally invasive procedures with minimal thermal damage and reduced scarring. It performs virtually bloodless surgeries, providing a safer, more comfortable alternative to scalpels. The Green Guide Laser enhances accuracy on bleeding tissues, while an intuitive, customizable interface simplifies use. Clinically proven CO_2 technology reduces the need for anesthesia, and the system meets IEC international safety standards for reliable performance.

Strategi Automation Solutions Pvt. Ltd.

About the Company

Strategi Automation Solutions Pvt.Ltd. was established in the year 1996 and is in the business of Factory Automation. The vision of our company is to eliminate monotony and drudgery in our manufacturing shopfloors. In order to fulfil our vision, we have indigenously designed, manufactured, sold and installed Gantry Machine Tending Robots (MTRs) with our brand name of GRIPX25, GRIPX35, GRIPX12 and GRIPX22 and Front load Machine Tending Robots with our brand name of GRIPX25 all over India. We are committed to continuous improvement and we have several innovative products to our credit including Semi-Automatic Cartoners and Case Packers.

The Innovation

Introducing the Press Tending Robot (PTR)—a next-gen automation solution for press shops. Designed for high-speed loading and unloading (up to 40 components/minute), PTR seamlessly integrates with existing machines with minimal setup changes.

Key Features:

- Fastest loading and unloading time
- Dual Component feeding: Bowl Feeder or Step Feeder
- Positive gripping for safe, reliable handling
- Compact footprint for space efficiency
- Optional unloading system
- Adjustable speed for flexible operations

PTR enhances throughput, reduces operator fatigue, and improves consistency. Built for efficiency, precision, and easy integration, it's a smart fit for modern manufacturing.

The Approach

Customer needs are translated into better products in our company through innovative "Design Thinking". We involve customers in the co-creation of our products so that customer wants and needs are met. We form cross functional teams that meet regularly to discuss customer feedback that can be incorporated into new products. We invest in new technologies and employee training to so that we can engage in New Product Development to stay ahead of our competition.

The Benefits

PTR drives productivity with rapid load/unload cycles and supports longer unmanned operation using high-capacity feeders. By automating repetitive tasks, it boosts employee morale and reduces physical strain. Smart prompts ensure timely lubrication for longer machine life. With optimized performance and ergonomic design, PTR is efficient, sustainable, and built for real-world shopfloors.

Syngene International Limited

About the Company

Syngene International Limited is a drug development partnership company headquartered in Bengaluru, and is India's largest integrated Contract Research, Development and Manufacturing Organization (CRDMO). Syngene continuously develops several innovative and proprietary technology platforms in order to differentiate from our competitors and for faster and more informed drug discovery, and Syngene scientists are co-authors on >400 client patents.

The Innovation

In the last two years, Syngene has developed several proprietary AI platforms to expedite drug discovery like Syn-AITM, SYNTIPS TM, SARchitectTM. Our proprietary expert-led drug discovery engine called SynVentTM has yield 6 novel clinical candidates in record time for our clients. During COVID, we built an antibody detection kit called ELISAFETM which then partnered with Himedia for commercialization. Novel neutralizing antibodies against COVID were discovered to use as tools for clinical trials, along with high purity antigens. Bharat Biotech's Covishield vaccine trial used Syngene discovered reagents to evaluate immune response in patients. Taken together, innovation is at the heart of everything we do.

The Approach

Syngene's innovation is led by the CSO and CTO. New ideas are encouraged as part of monthly Innovation Hub meetings and creative ideas are funded internally, and governance processes ensure timely progress and implementation. With the AI revolution, several of our innovative platforms offer solutions to our clients to expedite drug discovery.

The Benefits

In a world where intellectual property is driven by speed, efficiency and innovation, Syngene, by proactively building its own proprietary and novel technology platforms has greatly aided faster and affordable processes for doing drug discovery and development, thereby allowing new medicines to reach patients to cure devastating diseases like cancer, autoimmunity and neurological conditions.

- One photograph (Product): products are technology platforms. A photo of the ELISAFE kit is shown below.

Tata Consulting Engineers Limited (TCE)

TATA CONSULTING ENGINEERS
ENGINEERING A BETTER TOMORROW™

About the Company

Tata Consulting Engineers Limited (TCE) is India's largest private-sector engineering and project consultancy and is an emerging global leader in providing integrated engineering solutions. TCE has a presence in more than 60 countries and has completed over 11,000 projects.

The Company operates in three industry segments: Infrastructure (including Water, Wastewater & Sewage, Buildings & Facilities, Environment & Sustainable Infrastructure, Industrial & Manufacturing Facilities, Master Planning & Urban Development, Digital & Modelling, Ports & Harbours and Transportation), Resources (including Hydrocarbons and Chemicals, and Mining and Metallurgy), and Power (including Nuclear, Green Power (Solar, Wind, Hydro), Thermal and Transmission & Distribution).

TCE offers Design & Engineering, Sustainability Solutions, Digital & Advanced Technology and Project Management across all three industry verticals. The Company serves domestic and international markets and is known for several first-of-its-kind projects. TCE is a 100% subsidiary of Tata Sons Limited, part of Tata Group - India's most respected group.

The Innovation

As engineering consultants, our organisation is highly solution-oriented. We possess the ability to work on multiple alternate solutions. Planning, forecasting, and course correction are our standard ways of working. Regular reviews are conducted at every level, including top leadership, to help us remain focused and plan accordingly.

In the engineering services industry, we provide optimised designs that the customer did not originally envision. Based on first principles, our innovative solutions simplify the problem, reduce costs, improve quality and timelines, and comply with applicable statutory requirements and national and international standard design codes.

Each solution is unique to the given engineering problem for a specific project. Modern third-party and in-house developed tools for advanced analytics, intelligent modelling, use of 3D platforms, and several simulation programs are required and utilised.

The Approach

Projects are delivered by teams of functional experts, with industry experts and consultants often providing specialised inputs. The learnings and reusable practices, processes, and project innovations from the executed projects are collected as potential ideas and innovations for further development using the TCE innovation framework.

The Benefits

Our company aims to provide value-added differentiated services and innovative solutions in order to become a market leader and stay ahead of the competition. We believe in investing in the development of our people and providing them with opportunities to grow. We offer unique and interesting opportunities for engineers to work with cutting-edge technologies in fields such as defence, space, infrastructure, and plant engineering.

Tata Projects Limited

TATA PROJECTS
Simplify.Create

About the Company

Tata Projects Limited is one of India's leading technology-driven EPC companies, delivering complex infrastructure and industrial projects across sectors like transportation, energy, water, and urban development.

The Innovation

1. Strand Jack Technology - Strand Jack Technology, introduced in semiconductor infrastructure projects, enhances safety by minimizing height work and improves quality through precision lifting. It enables significant cost savings and operational efficiency. This new-to-firm innovation is now being scaled across similar large-span installations for faster execution and reduced risk.

2. Nanogence Catalyst Technology - Nanogence Catalyst is a new-to-market innovation applied to sustainable concrete at NIAL. It reduces cement consumption while maintaining strength, thereby lowering the carbon footprint. This green technology supports TPL's sustainability goals and sets a precedent for eco-friendly construction practices in large infrastructure projects.

3. Automated Paint Robots - Automated Paint Robots, revolutionize large-scale painting by reducing execution time by 68% and saving in paint usage. This innovation ensures uniform application, minimizes human error, and enhances safety by reducing manual intervention in hazardous environments.

4. LiDAR-Enhanced BIM - LiDAR-Enhanced BIM is a process innovation for accurate as-built documentation. It reduces errors by 90%, improves compliance, and saves 94% in manhours. This technology enables precise digital modeling and verification, streamlining project handovers and quality assurance.

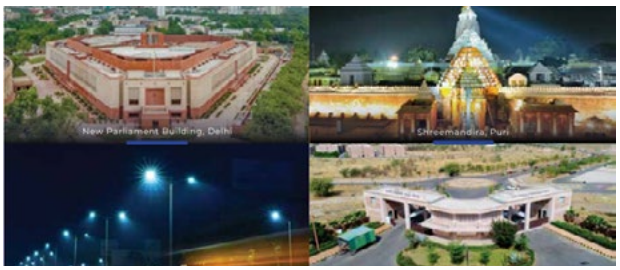
5. Transparent Window Shuttering - Transparent Window Shuttering is a crowdsourced innovation that allows real-time monitoring during concrete pouring. It reduces defects and rework by improving visibility and control. This simple yet effective idea enhances quality assurance and is now being adopted across multiple sites

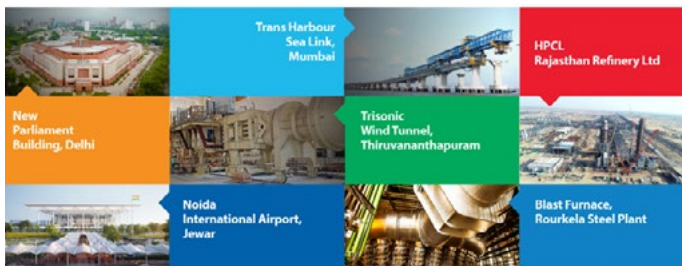
The Approach

TPL uses a structured innovation framework combining digital tools, engineering expertise, and collaborative platforms like TPL Innoways, Idea playbook, Kaizens to identify, validate, and scale impactful solutions.

The Benefits

Accelerated project delivery, enhanced safety and sustainability, monetizable engineering solutions, and scalable models for replication across projects.





Tata Chemicals Limited

About the Company

A part of over US$ 165 billion Tata Group, Tata Chemicals Limited, is a leading supplier of choice to Glass, Detergent, Industrial and Chemical sectors. The company has a strong position in the crop protection business through its subsidiary company, Rallis India Limited. Tata Chemicals has worldclass R&D facilities in Pune and Bengaluru.

High Dispersible Silica

Tata Chemicals' Specialty Silica products reflect our leadership in technology and innovation. We have innovated a novel method of synthesis and customisation of structure, morphology, particle size, surface area and particle porosity, which gives our silica greater advantage in industrial applications. We have pioneered the use of rice husk ash-based highly dispersible silica (HDS) for sustainable tyre manufacturing in the country. Our products deliver low rolling resistance, improved grip, and noise reduction. These solutions meet the stringent requirements of tyre manufacturers while contributing to their sustainability goals.

The prebiotics and dietary fiber

Tata Chemicals has pioneered multiple sustainable and health-focused innovations. FOSSENCE® (Fructo-oligosaccharides) is a 100% soluble prebiotic dietary fiber derived from fermented cane sugar, clinically studied to support gut microbiome health, immunity, nutrient absorption, lipid transport, and digestive well-being.

The bio-based surfactant replaces conventional petroleum-based surfactants, offering biodegradability, skin safety, and enhanced water solubility, ideal for home care applications. In sustainability, Tata Chemicals has established the UK's first industrial-scale Carbon Capture & Utilization (CCU) plant, producing liquid CO_2-based bicarbonates for food and pharma export to 80 countries.

Harnessing green chemistry, Tata Chemicals' Innovation Centre developed a solvent-free process for tyre-grade organo silanes, enhancing product yield, enabling effluent recycling, and attracting leading tyre and rubber customers.

Dr. Richard Lobo, AVP – Innovation & Business Excellence, emphasizes Tata Chemicals' commitment to science-differentiated, sustainable innovations, guided by CII Innovation Maturity Frameworks and active Industry-Academia and Open Innovation collaborations, reinforcing the mission of "Serving Society through Science."

Testpan India Private Limited

About the Company

Founded in 2016, TESTPAN India is redefining the examination ecosystem by integrating advanced technology with secure and scalable operations. Its flagship solution—the "Book My Test Center" application—digitizes an entire domain traditionally dependent on manual coordination. The platform enables real-time discovery, booking, monitoring, and management of exam venues, significantly reducing human error while streamlining logistics for large-scale examinations. TESTPAN's integrated digital ecosystem brings together biometric authentication, CCTV connectivity, and intelligent proctoring, ensuring the highest standards of transparency and exam integrity

With operations across 17 countries and a robust network of over 3,500 centers, TESTPAN combines cloud-based platforms with strong on-ground infrastructure to support government bodies, corporates, and academic institutions. By continuously enhancing digital workflows, strengthening security protocols, and improving accessibility, the company is setting new benchmarks for secure, transparent, and equitable test delivery. Its innovations are transforming how institutions utilize infrastructure and manpower for high-stakes assessments.

The Innovation

TESTPAN's patented solution introduces a revolutionary method for selecting and booking institutions as test centers. Earlier systems relied on opaque processes, subjective decision-making, and operational inefficiencies that often created disparities in allocation and compromised exam integrity. This innovation eliminates such challenges by offering a secure, automated digital platform that aligns exam requirements with real-time institutional capabilities.

The Approach

Taking a technology-first approach, TESTPAN replaced manual allocation models with an AI-powered, cloud-enabled platform that automates every stage of test center booking. Integrated biometric readiness checks, CCTV validation, and compliance audits ensure fairness and security from the outset. Real-time dashboards and automated feedback loops enhance transparency, cutting administrative effort by nearly 70% and reducing decision cycles from weeks to mere hours. Built for scalability, the system now supports thousands of centers across multiple countries.

The Benefits

The innovation transforms the examination ecosystem by accelerating booking cycles, ensuring compliance, and enhancing transparency. Institutions gain equitable opportunities and greater visibility, while candidates benefit from standardized, secure, and well-audited test centers. Automated audits, biometric integration, and CCTV monitoring drastically reduce malpractice risks. With administrative overheads lowered by up to 70%, resources can be redirected to strategic improvement. Scalable across geographies, the solution strengthens fairness, accessibility, and trust in high-stakes examinations worldwide.

Trio Enterprises

About the Company

“TRIO ENTERPRISES” was established in the Year 1970. Today Trio is recognized as “Precision Components Manufacturer” and exports to esteemed OEM’S in India and abroad. Trio has won many times Various Awards from its customers and other recognized organizations like CII etc.

The Innovations

As per the customers uncertain flexible machining models requirements, there is necessity to change the fixture setup on machine every time. For changing the fixtures there was wastage of more setup time. So, we have decided to reduce the fixture setup time.

The Approach

We have taken the task to reduce the above setup time and motivated to machine operators to think and get ideas how to reduce the fixture setup time. After getting some innovation ideas by machine operators/supervisors we decided to replace the customer provided existing fixtures and introduce new designed fixtures where we can machine multiple models in single setup.

The Benefits

The benefits are - 1. Model change setting time reduced by 44.25 minutes, 2. Line Balanced, 3. Operators fatigue reduced while setup of heavy fixture, 4. Improved on time delivery. 5. Increased productivity and quality.

Tvarana India

About the Company

We help enterprises transform digital operations through scalable ERP, Integration, Data, and Commerce solutions across retail, media, mining, construction, education, high-tech, and professional services sectors. With 18+ years of experience and hundreds of clients worldwide, Tvarana combines innovation, agility, and deep platform expertise to deliver measurable business impact.

The Innovation

Tvarana's PortalsPro Suite revolutionizes external stakeholder collaboration by enabling real-time, self-service access to NetSuite ERP without requiring full licenses, which can be cost prohibitive for many businesses, especially small and medium sized ones. The suite provides purpose-built portals for customers, vendors, employees, and partners, eliminating disconnected workflows. Our NetSuite Data Exit Tool (DataVault) addresses data portability and compliance needs with structured, audit-ready extraction capabilities. These innovations reduce platform access costs by 70%, accelerate workflows by 50%, and cut data extraction time by 90%, transforming how enterprises manage their extended ecosystem while ensuring regulatory compliance.

The Approach

We co-develop solutions alongside clients, identifying business gaps through direct engagement. Each innovation uses native platform architecture, validated through pilot deployments and market testing. Our approach emphasizes systematic compliance readiness and measurable ROI. Products like PortalsPro emerge from genuine customer needs, ensuring practical applicability and continuous improvement through agile development.

The Benefits

Organizations achieve 70% reduction in stakeholder access costs, 50% faster workflow completion, and 90% less time on compliance reporting. Our solutions enhance transparency, accelerate decision-making, and ensure audit-readiness. Clients report 95%+ renewal rates, validating sustained value. These innovations unlock ROI from existing platforms while enabling scalable growth.

Tvasta Manufacturing Solutions Pvt. Ltd.

About the Company

Tvasta pioneers automation in the construction industry through concrete 3D printing technology. With an integrated ecosystem of machines, materials, software, and processes, Tvasta aims to make construction faster, sustainable, and cost-efficient, delivering reliable solutions across residential, commercial, and infrastructure segments globally.

The Innovations

Tvasta's innovation lies in its advanced 3D concrete printing technology that automates the construction process. The system includes both robotic arm–based (Tvasta SIRA series) and gantry–based (Tvasta NIRMAAN series) 3D printers, supported by a patented material delivery mechanism for rapid, precise deposition. Tvasta also enables end-to-end adoption through sustainable material supply, software integration, and training. Its technology has been deployed in India, the UAE, and the US, driving innovation in both research (new materials and design methods) and commercial construction (affordable, scalable structures).

The Approach

Tvasta follows a design-led, technology-driven approach-developing in-house construction 3D printers and materials while collaborating with partners for implementation. By integrating sustainability, scalability, and automation, Tvasta transforms traditional construction into a streamlined, data-driven process adaptable to diverse project requirements.

The Benefits

Tvasta's construction 3D printing offers rapid project delivery, completing a ground-floor structure within seven days(*depends on the design). It enables remote-site deployment, design flexibility, and cost-effective execution for both functional and aesthetic builds. The technology ensures sustainable material usage and minimal manual dependency, redefining construction efficiency.

Robotic Arm 3D Printer

Gantry 3D printer

TVS
Motor Company Ltd.

About the Company

TVS is one of the world's most respected manufacturers of two- and three-wheelers, known for its unwavering commitment to sustainable mobility and advanced engineering. With a presence in over 80 countries, the company continues to strengthen its global reach through products that deliver reliability, innovation, and environmental responsibility. TVS operates four cutting-edge manufacturing facilities across India and Indonesia, each reflecting the brand's century-long heritage built on Trust, Value, and Service.

Renowned for setting new industry benchmarks, TVS is the only two-wheeler manufacturer to receive the prestigious Deming Prize for Total Quality Management. Its strong customer-centric philosophy has earned the company the No. 1 ranking in the J.D. Power Customer Service Satisfaction Survey for four consecutive years. As TVS expands across both developed and emerging markets, it remains dedicated to enhancing mobility through technology-led, eco-friendly solutions that offer superior value to customers worldwide.

The Innovation

Launched in August 2024, the TVS Jupiter 110 sets a new standard in its segment with multiple first-in-class features. Among its standout innovations, the most significant is the next-generation Infinity Lamps, designed to redefine visual appeal, safety, and lighting performance.

Infinity Lamps

The TVS Jupiter's Infinity Lamps introduce an advanced design using continuous infinite-loop LED light bars on both the front and rear. This innovation integrates:

- **Infinity Light Bar Technology:**
  A compact, lightweight setup powered by precision-engineered optics ensures uniform, gap-free illumination. The slim, continuous LED signature delivers a modern, futuristic look.
- **Smart Sequential Turn Indicators:**
  The outer sections of the Infinity light bar seamlessly transition into turn signals when activated. Intelligent transition control ensures a smooth shift from position lamp to indicator, maintaining consistent visibility and eliminating dark zones.

Concept & Benefits

Inspired by contemporary automotive lighting trends, TVS pioneered the adaptation of coast-to-coast signalling lamps for two-wheelers. Through advanced optical modelling, the light bar achieves maximum brightness using minimal LEDs—improving energy efficiency without compromising clarity.

The result is a premium, distinctive lighting system that enhances safety through brighter, more visible front and rear illumination. The continuous LED bar not only elevates road presence but also blends style with functionality, distinguishing the Jupiter 110 from conventional designs.

Uniphos Envirotronic Private Limited

About the Company

Uniphos Envirotronic Pvt. Ltd. (UEPL), founded in 1993, is India's leading manufacturer of gas detection and environmental monitoring instruments. With ISO and international certifications, UEPL exports to over 55 countries. Its award-winning R&D develops advanced detectors, sensors, chemical detector tubes, and analyzers, recognized globally for innovation and reliability in industrial safety solutions

The Innovations

The Breathing Air Quality Monitoring Kit is a precision-engineered system that ensures the purity of compressed air used in hazardous environments. It detects key contaminants such as water vapor, oil mist, carbon monoxide, carbon dioxide, oxygen, and nitrous fumes, complying with EN 12021 standards for safe breathing air. The kit includes a pressure reducer, manifold, and specialized detector tubes for accurate measurement. Its durable design, quick-release couplings, and protective enclosure enable reliable field performance. A unique auto cut-off valve minimizes air loss and speeds up testing, making the system efficient, robust, and ideal for industrial applications.

The Electrochemical Hydrogen Sulphide (H_2S) Gas Sensor is engineered for reliable performance under extreme temperature and humidity fluctuations, detecting toxic H_2S gas in demanding industrial environments. Designed for industries such as oil and gas, petrochemicals, refining, and wastewater treatment, it ensures worker safety and operational integrity. Unlike conventional sensors that fail above 50°C, this advanced device maintains high accuracy up to 65°C. Its electrochemical sensing element delivers superior sensitivity, selectivity, and fast response with low power consumption. Compact and durable, it integrates easily into fixed or portable detection systems, making it ideal for offshore platforms, pipelines, and desert refineries.

The Approach

We identify customers' key challenges and define precise problem statements. Leveraging our expertise, we develop cost-effective solutions, engineer and design prototypes, and validate them through lab tests, field trials, and third-party verification, ensuring reliable, efficient, and certified outcomes that meet practical and industry standards.

The Benefits

Continuous customer engagement enhances our knowledge and drives process improvements. We develop niche products meeting international standards, fostering innovation, import substitution, and earning valuable foreign exchange for the country, thereby contributing to sustainable growth, global competitiveness, and long-term customer satisfaction.

UNO
Minda Limited

About the Company

Uno Minda is a global Tier-1 automotive manufacturer and trusted supplier of advanced components and systems to leading OEMs. Since its establishment in 1958, the company has expanded its expertise across more than 28 automotive product lines, catering to passenger cars, commercial vehicles, and two- and three-wheelers. Its portfolio serves both traditional internal combustion engine (ICE) platforms and the rapidly growing electric and hybrid vehicle segments. Uno Minda is widely recognized for its leadership in automotive switching systems, lighting systems, acoustic solutions, seating systems, and alloy wheels.

As a strong global player, the Group operates 78 modern manufacturing facilities across India, Indonesia, Vietnam, Germany, Spain, and Mexico. Supported by a diverse workforce of over 37,000 employees, Uno Minda continues to deliver innovation, quality, and customer-centric solutions that enable the future of mobility.

The Innovation

With the rise of connected vehicles and the increasing dependence on smartphones, traditional charging cables and physical car keys have become sources of inconvenience, clutter, wear, and security risks. Recognizing these evolving challenges, Uno Minda developed the Automotive Wireless Charger (AWC) with integrated Near Field Communication (NFC)—India's first automotive-grade wireless charging solution featuring built-in NFC technology. This innovation enables smartphones to function as secure digital car keys through the charger interface.

Since 2018, Uno Minda has pioneered wireless charging technology in India as the first indigenous Tier-1 supplier in this domain. A dedicated engineering team continues to drive innovation and localization, ensuring the solution meets global standards while addressing OEM requirements.

The Approach

The AWC is designed as a modular, scalable, and globally interoperable platform reflecting Uno Minda's "Made in India for the World" philosophy. Developed through a rigorous process combining Design Thinking, APQP, DFMEA, and Agile Prototyping, it aligns with evolving Qi and NFC standards. Advanced tools—CAD, FEA, PCB design, mathematical modelling, and software simulation—support hardware and software validation. The product follows the V-model development lifecycle, supported by in-house EMI/EMC labs. Manufacturing excellence is achieved through IATF 16949-certified SMT lines, robotic soldering, and stringent end-of-line testing.

The Benefits

Certified for Qi 1.2.4 through Qi 2.2 MPP and over 150 global certifications, the AWC ensures OEM-grade safety and robust cybersecurity features such as secure boot, secure flash, and secure Qi key exchange. The platform supports continuous upgrades for next-generation smartphones, offers a 10+ year lifecycle, and is roadmap-ready for 50W+ ultra-fast charging. Uno Minda's AWC empowers OEMs to enhance user experience, accelerate innovation, and strengthen India's position as a global centre for advanced in-vehicle technologies.

Uttam Bharat Electricals Pvt. Ltd.

UTTAM®
POWER AND DISTRIBUTION TRANSFORMERS

About the Company

Uttam Bharat Electricals Pvt. Ltd. is a leading Indian manufacturer of power and distribution transformers with a focus on innovation, quality, and global standards. The company designs and supplies transformers up to 33 kV for utilities, industries, and renewable projects across the Globe.

The Innovation

Uttam Bharat became India's first manufacturer to supply single-phase pad-mounted transformers to the United States, marking a milestone in the country's electrical equipment exports. The company has successfully developed IEEE/ANSI-compliant single-phase pad, single-phase pole, and three-phase pad-mounted transformers tailored for U.S. utility requirements. These products meet stringent DOE efficiency and IEEE standards for safety, reliability, and performance - demonstrating India's engineering capability in manufacturing high-efficiency, export-grade transformers for global markets.

The Approach

A cross-functional innovation team redesigned conventional transformer architecture to meet IEEE/ANSI specifications. Leveraging in-house design expertise, third-party testing, and close utility collaboration, Uttam Bharat integrated advanced materials, compact construction, and enhanced thermal design to achieve full compliance with U.S. standards and accelerate time-to-market.

The Benefits

- First Indian manufacturer to export IEEE-compliant transformers to U.S. utilities.
- Achieved 10-15% lower losses and longer service life through design optimization.
- Opened a new international revenue stream for Indian-made electrical equipment.

VE Commercial Vehicles Ltd.

VE COMMERCIAL VEHICLES
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE

About the Company

VE Commercial Vehicles is a commercial vehicle manufacturer with vision of driving modernization in commercial transportation in India and developing world. Commercial vehicles space is always on the move with new policies and customer aspirations. VECV is always ahead with a progressive thinking-based ecosystem.

VECV is leading solution provider for sustainable transportation including EV, CNG/LNG and fuel-efficient Diesel vehicles. VECV offers a range of ultra-modern trucks in 3.5-55 Ton GVW, a range of safe, efficient buses with seating capacity of 12-72 and provides engines for Non-Automotive applications; globally supplies Euro 6 Engines to Volvo group for Europe; South America, Japan.

Innovations and Benefits

Global first patented 7 Speed Transmission for fuel efficiency Auto mode shift Software feature for reduced CO2 emissions Unique Virtual sensors for value enhancement Worldwide first Intelligent driver mistake resistance system to protect engine for overrun Driver safety: In-house developed Sleep detection, Intruder alert Kavach: Bus Fire protection Digital twin for Augmented diagnostic Low cost remote diagnostics Slider suspension for better Ride comfort M Booster+: load dependent Fuel Efficiency

Innovation Approach

VECV believes in continuous improvement and offers Innovative, knowledge sharing atmosphere through:

- Dedicated Innovation Cell for Idea generation, IPR generation.
- Partnership with IIT Indore for dedicated Industry focused program for talent development.
- IDM based online platform for Innovation idea registration with access to all Ideology.
- SOIL (Synergy for Open Innovation Leadership) platform for innovative ideas development through Collaboration with Academia/Suppliers/Start-ups.
- Knowledge sharing sessions within/across functions.
- Dedicated projects through CFT approach.
- Forums like I-Window, Ingenium for Innovation work presentation.
- Recognition from function-head to CEO level.
- Gendar diversity upto Vehicle Manufacturing line.

Veedol Corporation Limited

About the Company

Veedol Corporation Limited, a pioneer in lubricants with over a century of legacy, operates across five Indian plants and 70+ global markets. Known for innovation, sustainability, and OEM partnerships, Veedol continues to redefine lubrication science with bio-based technology and next-generation performance solutions.

The Innovation

Veedol's NextGEN Fully Synthetic Engine Oil Range, powered by EstoBioLides™ molecules, is a global first developed in India. It addresses the fundamental challenge of engine power loss over time and delivers the world's first validated Engine Power Retention (EPR™) claim — >95% power retained at 20,000 km. Derived from non-edible renewable feedstocks, EstoBioLides™ molecules offer superior oxidative stability, cleaning action, and >80% biodegradability. This breakthrough delivers 4.5–6% fuel economy improvement, halves used oil generation, and reduces GHG emissions, setting a new benchmark for sustainable high-performance lubricants.

The Approach

Inspired by biomimicry, Veedol co-developed EstoBioLides™ molecules with ICT Mumbai, evaluated 30+ molecular variants, and validated EPR™ at AVL's global test labs. A unique synergy of bio-based esters, synthetics, and advanced VMs ensures durability, performance, and sustainability — aligning with India's Amrit Kaal and Viksit Bharat 2047 vision.

The Benefits

Consumers enjoy like-new power for 20,000 km, smoother rides, quicker acceleration, and fuel savings. OEMs gain a future-ready sustainable lubricant. Engine Power Retaition – Key challenge addressed. Society benefits from 50% less used oil, reduced emissions, and circularity compliance. This innovation combines performance, cost efficiency, and environmental stewardship — making it a transformative advancement in global lubricants.

Velox
Automation Pvt. Ltd.

About the Company

Founded in 1997, Velox Automation Pvt. Ltd. is one of India's leading industrial automation companies, delivering 27+ years of expertise in automation, electrical engineering, and digitalization solutions. We serve a wide spectrum of industries, including Metals, Glass, Chemicals, Dairy & Food Processing, Power, Oil & Gas, Pharmaceuticals, Textiles, and Water Treatment. Our core strength lies in our ability to build long-term partnerships with clients, powered by a team of 200+ highly skilled professionals with deep process knowledge and cross-industry experience.

Velox operates state-of-the-art manufacturing facilities in Surat, Gujarat, spread across more than 1 lakh sq. ft., enabling us to deliver engineered, customized, and globally deployable solutions. With headquarters in Surat and regional operations in Ahmedabad and Gurugram, along with an international presence in Canada, we are well positioned to serve customers across India and international markets.

As an ISO 9001:2015 certified company by DNV-GL, we maintain the highest quality standards across every project we undertake. Our philosophy revolves around partnering with clients to deliver measurable value through innovative, reliable, and cost-efficient automation solutions that elevate productivity and optimize business performance.

The Innovations

At Banas Dairy – Diyodar, Velox Automation has implemented a comprehensive, plant-wide Energy Management System (EMS) that revolutionizes how the facility monitors, analyzes, and controls its energy consumption. The integrated EMS brings all major electrical assets onto a unified digital platform, covering critical operations such as the Khoa Plant, Milk Reception CIP, Process CIP, Air Compressor Station, Cream Store, Tanker Dispatch, Ice Cream Plant, Refrigeration Plants 1–3, Diesel Generators, Sweet Plant, Butter Plant, Water Treatment and Effluent Treatment Plants, Fire Hydrant System, Potato Processing Plant, APFC Panels, and Lighting Load Centers.

The Approach

To modernize Banas Dairy's energy infrastructure, Velox deployed a unified Energy Management Solution integrating PLCs, SCADA, and a web-based MIS. The project followed detailed engineering design, FAT/SAT validation, phased commissioning, and installation of PLCs, SCADA systems, communication gateways, and MIS integration. Standardized protocols and redundant architecture ensured seamless connectivity and ISO 9001:2015 compliance.

The Benefits

The EMS has delivered transformative operational outcomes, providing real-time visibility, optimized plant-wise energy use, power factor improvement, reduced energy costs, and faster response to faults through instant alarms and event logs. Customizable reports enhance decision-making, while scalable architecture and web-based analytics ensure continuous optimization, reduced wastage, and long-term operational efficiency—empowering Banas Dairy with a smarter, more reliable energy ecosystem.

Veritas Finance Limited

About the Company

Veritas is a non-deposit taking,middle-layer NBFC registered with RBI, established in 2015, with an objective to ensure formal and affordable credit access to underserved/underbanked MSME/Self-employed customers. As of June30,2025, Our loan book stands at Rs.7477crores with 438 branches across 10 States & 1 union-territory, anchored by 7800employees.

The Innovation

Having decided to embrace the traditional NBFC business operating model, with a fin-touch approach, we also wanted to marry it with leveraged strengths from new age fin-tech lending models, that are steeped in innovative practices. We had tied up with innovative tech service providers to facilitate smooth and seamless transfer of services. Listed few impactful initiatives :

The Approach

Though we meet customers for a Subjective Credit Assessment, every other aspect of the lending journey is digital, where, we position technology in an easily-acceptable form. We train our customers on financial- literacy, repayment through bank and digital payment platforms usage to ensure formal credit-access at lower interest rates.

The Benefits

- Resource cost saving through Process-automation & Line balancing at CPC operations 68%
- Less-for-More initiative saved 90% of paper/print/packing/transporting & storage costs through e-documents process
- Collections resources cost reduced by 70% as 96% repayment through digital mode

Viraj Profiles Pvt. Ltd.

VIRAJ PROFILES PRIVATE LIMITED
Building A Sustainable Stainless World

About the Company

Viraj Profiles, is among the world's largest manufacturers and exporters of stainless steel long products, with an annual turnover of USD 1.5 billion. Serving over 1,300 customers across 96 countries, Viraj produces more than 50,000 SKUs of Wires, Wire Rods, Welding wires, Flanges, Fasteners, Bright bars, Pipes, and Profiles.

The Innovations

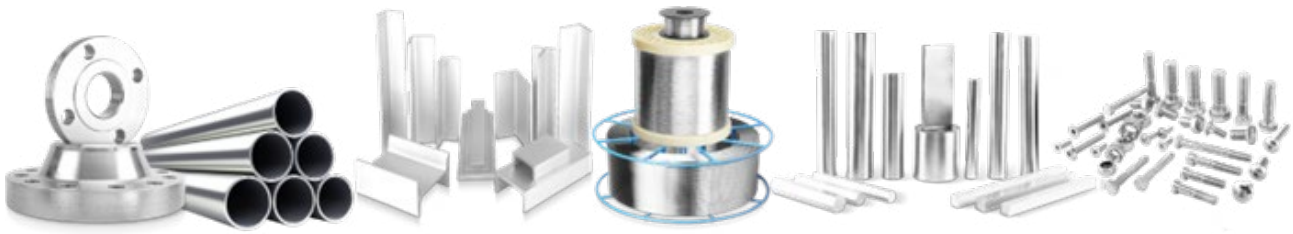
Established in 1992, Viraj Profiles pioneered stainless steel production using Induction Furnace technology—an unconventional and challenging method at that time. Operating with up to 90% recycled scrap, Viraj successfully developed multiple stainless steel grades and product categories including wires, wire rods, fasteners, flanges, and pipes. Through continuous R&D and technological advancements, the company has transformed this process into a globally recognized benchmark, positioning itself as one of the largest stainless steel manufacturers worldwide.

The Approach

At Viraj Profiles, we create products that define everyday applications. Our advanced melting technologies, stringent quality controls, and global certifications—over 100 approvals worldwide—enable us to meet the most demanding quality standards and ensure customer satisfaction across diverse industries.

The Benefits

Viraj's production process uses 90% recycled scrap and operates on renewable energy through Induction Furnace technology. This results in approximately 75% lower carbon emissions compared to conventional methods, reinforcing our commitment to sustainability and a greener, more responsible future.



Wellness Solutions Private Limited

About the Company

Launched in November 2002 in Cochin inaugurated by then health minister of Kerala Mr. K. T. Sankaran as an outpatient clinic to deliver personalized precision health at molecular level. Today we have 3 clinics, integrative hospital & illness to wellness palliative hospital and multiple centres in Trivandrum, Calicut, Bhubaneswar & Mumbai.

The Innovation

Health as an optimal state of mental, physical, social & spiritual health has been be delivered scientifically & evidence based manner.

Precision health is delivered at Molecular level by assessing cellular biochemistry, hormone, epigenetics & toxicity balance. Then epigenetic & metabolic rebalancing delivered through epigenetic diet, detoxification, nutraceuticals, pharmaceuticals, physical & mental empowering techniques. Scientifically it is Nutrigenomics & Pharmacogenomics.

Modern & ancient Indian system of medicine can be thus integrated with the latest in science & technology.

QALY – Quality Added Life in Years is designed as the personalized goal & monitoring standards.

The Approach

Comprehensive clinical & molecular analysis & awareness creation leading to metabolic & immunity modulating regime is the most innovative & scientific approach in health care. A perfect synchronisation of nutrigenomics, pharmacogenomics & exposomics is the most scientific & evidence based precision health & medicine – "Make in India Health" for all.

The Benefits

Personalized & precision prevention of lifestyle diseases & communicable diseases Precision Medicine treatment that can reverse disease and improve QALY in all Essential support for emergency medicine & innovative palliative care Precise & Proactive Health that can improve productivity, enjoy the benefits, less sufferings and induce happiness. Health care of today & future

Welspun Living Limited

About the Company

Welspun Living Limited, with over three decades of expertise, is global leader in home solutions. From innovative bed, bath, advance textiles, and flooring solutions to 47 patented technologies, our four advanced facilities in India and the US exemplify product excellence, smart manufacturing, and agile supply chains that redefine industry benchmarks.

The Innovations

Innovation is at core of our philosophy, guiding us to create solutions that meet global customer expectations. Our expanding product portfolio reflects this commitment, with a strong focus on sustainability through recycling, upcycling, and reducing carbon and water footprints. As the textile industry embraces smart fabrics, sustainable materials, and digital integration, our R&D investments keep us ahead of the curve. At Welspun, We aim to enrich lives worldwide with products that combine innovation and sustainability. This transformation positions us as a comprehensive solution provider and strategic partner for global retailers, emphasizing consumer-driven innovation and delivering excellence across every touch point.

The Approach

We are committed to driving continuous innovation by developing smarter products and processes while embracing efficient, sustainable practices. Our approach is rooted in comprehensive consumer research, ensuring product-development aligns with evolving needs, preferences, and pain-points. By actively listening and incorporating insights, we refine and enhance our offerings to stay ahead.

The Benefits

Awarded “Intexcon 2024” Innovation award. Among “Top 75 Innovative Companies” for 2024 by CII. “Highest ESG Rating” in Textile, Apparel & Luxury Goods Category in 2024, ranked #1 in India and #4 globally.

FY 24-25, crossed ₹10,000 crore revenue milestone, Up 8.9%YoY, delivered robust 10.8% growth in home textile exports.

About the Company

Zydex Industries Private Limited is a sustainability-driven specialty chemicals company offering over 200 eco-friendly solutions across Agriculture, Textiles, Paints & Waterproofing, and Roads. With a presence in 40+ countries and the trust of global institutions, Zydex has built a strong reputation for pioneering green chemistry. Supported by a workforce of over 1,100 professionals, the company blends advanced R&D, technical expertise, and world-class infrastructure to deliver breakthrough technologies designed to create long-term environmental and economic impact. Its innovations have earned prestigious recognitions from IRF, CII, FGI, Marico Foundation, and India Inc.

Guided by a 'People First' philosophy, Zydex considers human capital its greatest strength while fostering an inclusive, innovation-led culture. With chemical, polymer, material, and nano-technology at its core, the company continues to develop next-generation solutions that strengthen industries and support a greener planet.

The Innovations

Zydex follows a structured innovation process that begins with deeply understanding customer pain points and identifying outdated or inefficient products that require long-term replacement. The R&D team conducts extensive literature and patent research to map global knowledge, followed by intensive brainstorming and ideation to design an experimental roadmap for high-impact, scalable, and cost-effective solutions. Each idea undergoes techno-commercial feasibility checks, scalability assessment, supply chain evaluation, and life-cycle cost analysis before progressing to scale-up and semi-commercial trials. This rigorous approach has enabled multiple breakthrough innovations in recent years.

DuraTac – Tack-Free Nanotechnology for Bitumen Emulsions

A global-first technology, DuraTac reduces tack in bitumen emulsions used for bond coats, offering faster drying, near tack-free performance, and superior bonding. It minimizes tire pick-up, enhances pavement durability, and is already being exported to the United States.

Densiflex-P – High-Strength, Crack-Resistant Cement Technology

Densiflex-P improves workability while reducing water demand. Its sub-micron polymer technology strengthens cement matrices, minimizes thermal cracking, and delivers durable, low-maintenance construction finishes.

Zytonic Active – Microencapsulation for Herbicide Efficiency

Zytonic Active enhances herbicide retention, slow release, and field performance, reducing chemical load and supporting organic and sustainable farming.

Zydex's innovation excellence is reflected in its recognitions—Intexcon 2024 Innovation Award, CII's Top 75 Innovative Companies 2024, and the highest ESG rating in its category. In FY 24–25, the company crossed ₹10,000 crore in revenue, growing 8.9% YoY with strong export performance.

Academic/ Research Institutions

Northern India Textile Research Association

NORTHERN INDIA TEXTILE RESEARCH ASSOCIATION
(Linked to Ministry of Textiles, Government of India)

About the Company

Northern India Textile Research Association (NITRA) is a premier research and development organization under the Ministry of Textiles, Government of India. It provides innovative solutions, testing, consultancy, and training services to the textile and apparel industry, promoting sustainable technologies and product excellence.

The Innovation

- For the first time in India, the innovative fibre Milkweed was cultivated by NITRA. This breakthrough was praised and encouraged by the Hon'ble Prime Minister of India, Shri Narendra Modi and Hon'ble Textile Minister Shri Giriraj Singh.
- India's first specialized firefighter suit was developed by NITRA and has been praised by the Government of India, Ministry of Textiles, and Hon'ble Textile Minister Shri Giriraj Singh. This innovation was recognized with awards from ITTA on 19th September 2025 and Intexcon 2025 under the Innovation category.

The Approach

The approach is to interact and collaborate with the Industry and plan innovations to fulfil their requirements. Research Advisory Committee consisting of experts from Industry and academia meets every year at NITRA with a view to assess the progress of NITRA's ongoing & future R&D projects.

The Benefits

- Research outcomes are utilized in providing the consultancy services to the industry.
- Research activities are also published/presented in national/international journals/on-line publications/ seminars/ conferences to benefit the industry. Many of Research outcomes have been implemented by the textile units.
- Once industry is benefitted society in general is also benefitted.

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Technology, Pune, Maharashtra

About the Company

Vishwakarma Institute of Technology (VIT), Pune, stands at the forefront of academic excellence and innovation, continually evolving to meet the demands of an ever-changing industrial landscape. With a vision to remain a leader in producing globally competent professionals, VIT is implementing unique practices and strategies to ensure students are equipped to excel in the industry over the next five years.

The Innovation

The institute encourages academic excellence with innovative, adaptable curricula and experiential, ICT-based teaching approaches. An excellent culture for research encourages collaboration that leads to a large number of funded projects, publications, and incubations as startups. Up-to-date infrastructure, such as technology-based libraries and digital resources, facilitates learning and innovation. Whole-person development of students is ensured through career guidance, scholarships, and co-curricular activities. Visionary leadership guides the institute with an emphasis on employability, ethical governance, and social responsibility. Best practices such as gender equity, sustainability efforts, and diversity indicate its dedication to building a progressive, research-based, and socially responsible learning environment that encourages innovation and lifelong learning.

The Approach

The institute maintains excellence through ongoing curriculum advancement, faculty enrichment, and implementation of technology-enriched pedagogy. Based on research, innovation, and industry engagement, it promotes lively learning and entrepreneurship. Strong governance in the institute, together with a commitment to quality assurance and inclusive practices, supports all dimensions of student development, service to society, and sustainability of intellectual and institutional excellence.

The Benefits

The Institute exhibits leadership in education and research by ensuring active student engagement, peer learning, and deliberate skill development. The institute's engagement promise includes a record of 98.28% academic pass rate, 98.35% placement rate, and highest salaries of 45 Lakh; the institute has also successfully promoted a culture of innovation with a record of 47 start-ups nurtured, 196 papers published in high impact journals and 98 granted patents during the past three-year period.

National Institute of Food Technology,

Entrepreneurship and Management,
Thanjavur (NIFTEM-T)

About the Company

NIFTEM-T is an academic cum research institution categorized as an Institute of National Importance (INI) under the Ministry of Food Processing Industries (MoFPI), Government of India, located in Thanjavur, Tamil Nadu. It has been ranked 13th among institutions in the Agriculture and Allied Sector category by the National Institutional Ranking Framework (NIRF2025).

The Innovation

Innovation at NIFTEM-T is propelled by its highly qualified research team, empowered by supportive policies, specialized schemes, advanced laboratory facilities and robust industry-academia partnerships. The institute actively pursues government-sponsored projects, industry-driven research, and student-led initiatives to foster new ideas and solutions in food processing. NIFTEM-T emphasizes sustainable advanced food processing technologies to enhance food safety, quality, and nutrition. It houses state-of-the-art research labs, Centres of Excellence, pilot plants, and incubation centres, creating a dynamic innovation ecosystem that bridges academic expertise with industry needs and advances both food security and economic growth.

The Approach

NIFTEM-T approaches innovation through a systematic and participatory process consisting of problem identification, ideation, proof of concept experimentation, prototyping, and field testing. Problems are first identified through regular engagement with students, research scholars, MSMEs, entrepreneurs, startups, and consultancy assignments, as well as testing services, ensuring real-world relevance and need-based solutions. The expert research team then develops creative solutions during the ideation stage, drawing on diverse academic and industry insights. Experiments are carefully designed and executed to validate the proof of concept. Once the PoC is established, prototypes are developed and undergo optimization and stringent quality testing through repeated trials. The final solutions, products, or services are then tested under actual field conditions to ensure effectiveness and scalability before moving to commercialization, supporting both industry and community needs.

The Benefits

NIFTEM-T's innovation brings several important benefits to the food processing sector, entrepreneurs, and society. It enables the development of safer, higher-quality, and more nutritious foods through advanced processing and value addition. Farmers, startups, and MSMEs benefit from reduced post-harvest losses, increased incomes, and improved market access, all driven by technology transfer and incubation support.

JNARDDC

(Jawaharlal Nehru Aluminium Research Development And Design Centre), Nagpur.

About the Company

JNARDDC, Nagpur—an autonomous R&D centre under the Ministry of Mines—is a premier institution advancing innovation across the aluminium value chain and critical mineral recycling. Accredited as a Centre of Excellence, it drives resource efficiency, sustainable technologies, and circular economy solutions, empowering India non-ferrous sector towards a greener, aatmanirbhar future.

The Innovation

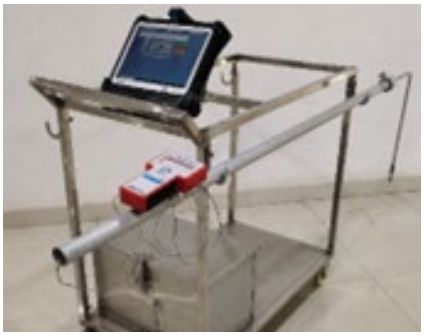
JNARDDC's innovation ecosystem stands out for its measurable impact, sustainability, and industry integration across aluminium and critical mineral recycling. Its demand-driven R&D focuses on real-world applications—improving recycled alloy quality, recovering critical minerals, and developing eco-safe materials. With higher resource recovery efficiency, reduced energy use, and zero-waste processes, JNARDDC leads in green metallurgy. Its translational research model ensures rapid technology transfer, empowering startups, MSMEs, and major industries through commercialization and deployment. By uniting scientific excellence with practical scalability, JNARDDC drives India's transition to a circular, resource-efficient economy while redefining innovation benchmarks in the non-ferrous metal sector.

The Approach

JNARDDC's innovation approach is industry driven identifying real challenges through stakeholder consultations, conferences, and workshops. These insights guide proof-of-concept development, which evolves into full-scale projects executed directly or supported through the Ministry and national R&D funding platforms, ensuring solutions are impactful, scalable, and aligned with industry and national priorities.

The Benefits

Benefits include transformation across the aluminium industry and emerging non-ferrous sectors such as critical mineral recycling. The approach enhances resource efficiency, accelerates commercialization, strengthens technological self-reliance, and positions India as a global leader in sustainable, circular, and innovation-driven growth within the non-ferrous metal's ecosystem.



Biotechnology Research Innovation Council – National Institute of Animal Biotechnology (BRIC-NIAB)

About the Company

BRIC-NIAB is an institute of the Department of Biotechnology dedicated to R&D in animal biotechnology. NIAB leverages cutting-edge research to enhance the health, productivity, and sustainability of livestock, with a focus on translating scientific discoveries into practical applications that benefit both public and private stakeholders, thereby improving human welfare.

The Innovation

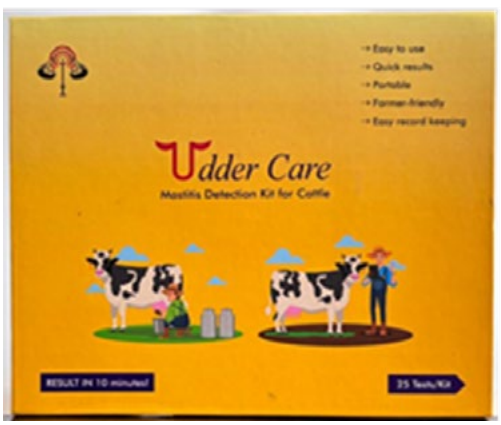
BRIC-NIAB's innovation lies in a combination of fundamental and applied science, with short-term or long-term goals to develop solutions for issues plaguing livestock productivity. The institute employs diverse approaches, including genetic engineering, molecular & cellular biology, bioinformatics, nanotechnology, and regenerative medicine, to understand a multitude of pathophysiological conditions, such as infectious diseases, reproductive, metabolic, and nutritional disorders, as well as the overall productivity of animals. Through collaboration, knowledge generation, and intellectual property development, NIAB provides a conducive environment for the development and transfer of technology. The overall focus is to enhance animal health and productivity, benefiting human welfare.

The Approach

BRIC-NIAB's strategy for innovation is multi-pronged. Scientists are supported to investigate their chosen areas of research and encouraged to generate intellectual property and transfer technologies. Research personnel are exposed to the latest research and innovation through training and workshops. These encourage ideation, creativity and translation.

The Benefits

The outcome of R&D at BRIC-NIAB is expected to improve livestock health and productivity, ultimately benefiting human welfare. The R&D is likely to not only enhance our understanding of the physiopathology of conditions affecting animal health and production, but also provide solutions to address the issues related to such conditions.



CSIR-National Engineering Environmental Research Institute, Nagpur

About the Company

CSIR-NEERI, established in 1958, is a premier environmental research institute under CSIR, India. With zonal centers nationwide, it offers R&D, consultancy, and policy support in pollution control and sustainability. NEERI's innovations aid major national missions, supporting industries and governance through impactful scientific and technological solutions for environmental protection.

The Innovation

Sr. No.	Name of Technology	Benefits/Advantages
1.	Low Temperature Adapted Methanogenesis (LTAM) process know-how for biological treatment of wastewater in cold climates	This innovative wastewater treatment process enhances performance at low temperatures (1–20 °C) using a cost-effective LTAM mix-an easily soluble blend of organic and inorganic inducers that promotes growth of low-temperature resistant microbes (LTRM). It eliminates the need for costly bioengineering, regular bio-augmentation, or psychrophilic microbial screening. Operating without external heating or aeration, the system dramatically reduces energy and operational costs. Its compact granulation design removes the need for a secondary clarifier, and any anaerobic biomass can serve as inoculum, making it a highly efficient and scalable solution for cold climate wastewater treatment.
2.	A compact, decentralized Himalayan Sewage Treatment Plant (Him-STP) for sewage treatment in cold climates	Him-STP offers a sustainable, decentralized, and low-cost wastewater treatment solution for cold, hilly regions. Its compact, modular design minimizes footprint and power requirements, making it ideal for rural areas. The LTAM-based process enhances native low-temperature resilient methanogenic (LTRM) populations, avoiding the need for external microbial dosing, aeration, or heating. This ensures stable, efficient treatment even in cold climates. The integrated up-flow constructed wetland (UCW) provides effective tertiary treatment, removing nutrients and polishing the effluent for safe reuse in irrigation.

The Approach & Benefits

LTAM and Him-STP are decentralized, cold-climate wastewater treatment systems using cold-adapted up-flow wetlands for effective winter operation in the Himalayas. DToi-FUrST is a waterless, on-site sanitation solution for cold, arid areas, enabling faeces and urine containment, treatment, and nutrient recovery without water use. CSIR-NEERI develops scalable, energy-efficient wastewater solutions for cold climates. LTAM enhances native low-temp microbes without heating or aeration. Him-STP enables water reuse via tertiary treatment. DToi-FUrST provides waterless, odour-free sanitation with nutrient recovery, ideal for remote, cold, and arid regions.

Kumaraguru College of Technology

KUMARAGURU COLLEGE OF TECHNOLOGY
character is life

About the Company

Kumaraguru College of Technology (KCT), Coimbatore, established in 1984 under the Ramanandha Adigalar Foundation, is an autonomous institution approved by AICTE and affiliated with Anna University. Spread across a 156-acre campus, KCT holds NAAC A++ accreditation with a CGPA of 3.62 and NBA accreditation for all eligible undergraduate programmes.

The Innovation

a) New Knowledge or Technology

A total of 70 innovations introduce breakthrough technologies and materials, setting new benchmarks in energy efficiency, propulsion, AI-enabled sensing, sustainable manufacturing, and environmental remediation. These initiatives generate original knowledge through novel designs, advanced materials, and integrated clean energy, AI, and robotics solutions—driving industrial transformation, environmental conservation, and societal advancement.

b) Use of Existing Knowledge or Technology in a New Way

Fifty innovative solutions creatively repurpose existing technologies to address emerging challenges in sustainability, automation, inclusivity, and smart living. By reimagining established tools, materials, and processes, they deliver cost-effective and scalable solutions that improve efficiency, enhance user experience, reduce environmental impact, and extend the reach of proven knowledge to new industrial and societal applications.

The Approach

Innovation at KCT is nurtured through specialized resources such as industry-grade software, Centres of Excellence, Student-led innovation centres (Re, iQube, Garage),Kumaraguru Centre for Industrial Research and Innovation (KCIRI), IPR Cell, FORGE Incubator, and the Entrepreneurship Development Cell. Processes such as Project-Based Learning(PBL), Problem-Based-Learning (PrBL),, Innovation Practicum, and Protosem ensure novelty, quality, societal relevance, and economic viability, supported by 92 industry MoUs.

The Benefits

Innovations in clean energy, sustainable materials, and pollution control foster green manufacturing and environmental sustainability. UAVs, AI, and robotics enhance safety and operational efficiency across industries. Advanced mobility, assistive, and IoT technologies promote inclusivity, smart resource management, and sustainable growth, strengthening national technological capabilities and economic resilience.

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Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organisation, with around 9,700 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 365,000 enterprises from 318 national and regional sectoral industry bodies.

For 130 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. CII charts change by working closely with the Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness, and business opportunities for industry through a range of specialised services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Through its dedicated Centres of Excellence and Industry competitiveness initiatives, promotion of innovation and technology adoption, and partnerships for sustainability, CII plays a transformative part in shaping the future of the nation. Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes across diverse domains, including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

For 2025-26, CII has identified "Accelerating Competitiveness: Globalisation, Inclusivity, Sustainability, Trust" as its theme, prioritising five key pillars. During the year, CII will align its initiatives to drive strategic action aimed at enhancing India's competitiveness by promoting global engagement, inclusive growth, sustainable practices, and a foundation of trust.

With 70 offices, including 12 Centres of Excellence, in India, and 9 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with about 250 counterpart organisations in almost 100 countries, CII serves as a reference point for Indian industry and the international business community.

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