



Confederation of Indian Industry
125 Years • Since 1895



FCT
Fundação
para a Ciência
e a Tecnologia



REPÚBLICA
PORTUGUESA
CIÊNCIA, TECNOLOGIA
E ENSINO SUPERIOR

PORTUGAL
SPACE



AGÊNCIA NACIONAL
DE INOVAÇÃO

DST - CII
INDIA   PORTUGAL
TECHNOLOGY
7-9 December 2020 **SUMMIT**

Partners' Profiles

Co-Organisers





Department of Science & Technology (DST) was established in May 1971, with the objective of promoting new areas of Science & Technology and to play the role of a nodal department for organising, coordinating and promoting S&T activities in the country. The Department has major responsibilities for specific projects and programmes as listed below:

- 1 Formulation of policies relating to Science and Technology.
- 2 Matters relating to the Scientific Advisory Committee of the Cabinet (SACC).
- 3 Promotion of new areas of Science and Technology with special emphasis on emerging areas.
 1. Research and Development through its research institutions or laboratories for development of indigenous technologies concerning bio-fuel production, processing, standardization and applications, in co-ordination with the concerned Ministry or Department;
 2. Research and Development activities to promote utilization of by-products to development value added chemicals.
- 4 Futurology.
- 5 Coordination and integration of areas of Science & Technology having cross-sectoral linkages in which a number of institutions and departments have interest and capabilities.
- 6 Undertaking or financially sponsoring scientific and technological surveys, research design and development, where necessary.
- 7 Support and Grants-in-aid to Scientific Research Institutions, Scientific Associations and Bodies.
- 8 All matters concerning:
 1. Science and Engineering Research Council;
 2. Technology Development Board and related Acts such as the Research and Development Cess Act, 1986 (32 of 1986) and the Technology Development Board Act, 1995 (44 of 1995);

3. National Council for Science and Technology Communication;
4. National Science and Technology Entrepreneurship Development Board;
5. International Science and Technology Cooperation including appointment of scientific attaches abroad (These functions shall be exercised in close cooperation with the Ministry of External Affairs);
6. Autonomous Science and Technology Institutions relating to the subject under the Department of Science and Technology including Institute of Astro-physics, and Institute of Geo-magnetism;
7. Professional Science Academies promoted and funded by Department of Science and Technology;
8. The Survey of India, and National Atlas and Thematic Mapping Organisation;
9. National Spatial Data Infrastructure and promotion of G.I.S;
10. The National Innovation Foundation, Ahmedabad.
9. Matters commonly affecting Scientific and technological departments/ organisations/ institutions e.g. financial, personnel, purchase and import policies and practices.
10. Management Information Systems for Science and Technology and coordination thereof.
11. Matters regarding Inter-Agency/Inter-Departmental coordination for evolving science and technology missions.
12. Matters concerning domestic technology particularly the promotion of ventures involving the commercialization of such technology other than those under the Department of Scientific and Industrial Research.
13. All other measures needed for the promotion of science and technology and their application to the development and security of the nation.
14. Matters relating to institutional Science and Technology capacity building including setting up of new institutions and institutional infrastructure.
15. Promotion of Science and Technology at the State, District, and Village levels for grass- roots development through State Science and Technology Councils and other mechanisms.
16. Application of Science and Technology for weaker sections, women and other disadvantaged sections of Society.



Confederation of Indian Industry
125 Years - Since 1895

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.

For 125 years, CII has been working on shaping India's development journey and, this year, more than ever before, it will continue to proactively transform Indian industry's engagement in national development.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, with about 9100 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 300,000 enterprises from 288 national and regional sectoral industry bodies.

CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes. Partnerships with civil society organizations carry forward corporate initiatives for integrated and inclusive development across diverse domains including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

With the Theme for 2020-21 as Building India for a New World: Lives, Livelihood, Growth, CII will work with Government and industry to bring back growth to the economy and mitigate the enormous human cost of the pandemic by protecting jobs and livelihoods.

With 68 offices, including 10 Centres of Excellence, in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with 394 counterpart organizations in 133 countries, CII serves as a reference point for Indian industry and the international business community.

Confederation of Indian Industry

The Mantosh Sondhi Centre
 23, Institutional Area, Lodi Road, New Delhi - 110 003 (India)
 T: 91 11 45771000 / 24629994-7
 E: info@cii.in • W: www.cii.in



[cii.in/facebook](https://www.cii.in/facebook)



[cii.in/twitter](https://www.cii.in/twitter)



[cii.in/linkedin](https://www.cii.in/linkedin)



[cii.in/youtube](https://www.cii.in/youtube)

Portugal Partners





AIRCENTRE



AGÊNCIA NACIONAL
DE INOVAÇÃO



सत्यमेव जयते
EMBASSY OF INDIA
LISBON



EMBASSY OF PORTUGAL
NEW DELHI

FCT
Fundação
para a Ciência
e a Tecnologia

 **PORTUGAL
SPACE**



**REPÚBLICA
PORTUGUESA**

CIÊNCIA, TECNOLOGIA
E ENSINO SUPERIOR



AIR Centre – Atlantic International Research Centre (<https://www.aircentre.org/>) is an international distributed scientific network to share science and technology responding to the Global Atlantic scale challenges, enhancing the sharing of scientific & technical resources, as an integrated S&T platform in the fields of space, atmosphere, ocean, climate, energy and data science, to tackle the global challenges and creating sustainable local value.

AIR Center fosters the 2030 Agenda for Sustainable Development through innovation, capacity building and new sustainable business development using an interdisciplinary and holistic approach, to deliver value, benefits and sustainable development to the marine and coastal ecosystem and people.

AIR Centre mission is to identify, provide and promote activities, projects and programs to look beyond their internal resources to develop new products, services and financial frameworks in alignment with the Sustainable Development Goals (SDGs).



ANI is the Portuguese National Innovation Agency (www.ani.pt/en/), with the mission of developing actions to support technological and business innovation in Portugal, contributing to the consolidation of the National Innovation System and strengthening the competitiveness of the national economy in global markets. In particular, its remit includes stimulating private investment in R&D, promoting partnerships between science & technology system and business entities, and increasing international programme participation by the national science & technology system's companies and entities, specifically Higher Education Institutions and Interface Centres. Within the PERIN network (Portugal in Europe Research & Innovation network), recently created to strengthen the support to R&I activities in Portugal in the context of the EU's next multiannual financial framework through the Horizon Europe programme, the International Promotion Directorate of ANI (DPI) has been responsible for supporting the Portuguese involvement in Horizon 2020 and the upcoming Horizon Europe, and related relevant initiatives and strategies. With a group of experienced and specialized people appointed as National Delegates and Contact Points in the fields, the Agency provides support to all Pillars under Horizon 2020 and Pillars 2 and 3 under Horizon Europe. DPI also develops different strategic collaboration initiatives with different countries, in Europe and beyond, targeting specific thematic areas.



Embassy of India Lisbon

Embassy of India, Lisbon is headed by Ambassador and has following Wings: (i) Administration & Establishment Wing (ii) Consular Wing (iii) Economic & Commerce Wing (iv) Political Wing (v) Press, Information & Cultural Wing. These wings are under the supervision of the First Secretary (Head of Chancery) under the guidance of the Ambassador. The functions of the Embassy inter alia, include political and economic cooperation, trade and investment promotion, cultural interaction, press and media liaison, other bilateral and multi-lateral issues and rendering Consular services including Passport, Visa and PIO and OCI cards. The Embassy functions within the purview of business allocated to the Ministry of External Affairs under the Government of India's Allocation of Business Rules and Transaction of Business Rules.



Embassy of Portugal in New Delhi – The Embassy of Portugal in New Delhi is a Portuguese governmental organization opened in 1975 after the establishment of diplomatic relationship between Portugal and India. It promotes political, economic and cultural relations between Portugal and India, Bangladesh, Bhutan, Maldives, Nepal and Sri Lanka. Provides consular assistance and advice to the Portuguese citizens residing or travelling to these countries.

4, Panchsheel Marg, Chanakyapuri New Delhi -110021
Tel: +911146071005/6



Fundação para a Ciência e a Tecnologia (FCT) (<https://www.fct.pt/index.phtml.en>) is the Portuguese national agency that supports science, technology and innovation, in all scientific domains, under the aegis of the Ministry for Science, Technology and Higher Education (MCTES). FCT's mission is to continuously promote the advancement of knowledge in science and technology in Portugal, attain the highest international standards in quality and competitiveness, in all scientific and technological domains, and encourage its dissemination and active role in society, ensuring that knowledge generated by scientific research is fully used for economic growth and for the well-being of all citizens.

FCT pursues its mission by funding fellowships, studentships and research contracts for scientists, research projects, internationally competitive research centres and state-of-the-art infrastructures, via competitive calls with international peer-review. FCT ensures Portugal's participation in international scientific organisations, fosters the participation of the scientific community in international projects and promotes knowledge transfer between R&D centres and the industry. Working closely with international organisations, FCT also co-ordinates public policy for the Information and Knowledge Society in Portugal and ensures the development of national scientific computing resources.



The **Portuguese Space Agency, Portugal Space** (<https://ptspace.pt/>) is an organization created by the Portuguese government to implement the National Strategy for Space (Portugal Space 2030). The Agency's primary purpose is to promote and strengthen Space in Portugal, its ecosystem and value chain, for the benefit of society and economy in the country and worldwide, acting as a business and development unit for research entities and companies.

Portugal Space coordinates the Portuguese participation in several international organizations such the European Space Agency (ESA) and advises the Portuguese government on the contributions and subscriptions made to ESA. Portugal Space also coordinates the Portuguese participation in European Southern Observatory (ESO), in the European Solar Telescope (EST) and in the recent SKAO (Square Kilometer Array Organization) as a founder member. Portugal Space is also the national representative for Portugal to the European Commission for matters related to Space, namely the European Union Space Program (Copernicus, Galileo, GOVSATCOM, SSA) and Horizon Europe and has a seat in the Board of the GSA (future EUSPA).



REPÚBLICA
PORTUGUESA

CIÊNCIA, TECNOLOGIA
E ENSINO SUPERIOR

Indian Partners



- Premium Partner -



- Platinum Partners -



- Principal Partner -



- Associate Partner -



- Corporate Partners -



- Contributors -





GE Technology Centres in India are situated in Bengaluru, Hyderabad, Mumbai, Chennai and Noida. GE India Industrial Private Limited - John F. Welch Technology Centre (JFWTC) in Bengaluru is a 50-acre site that represents \$220 million in investments is the largest integrated multidisciplinary research and development centre outside the US.

It also houses a GE Global Research Centre, one of the world's most diversified industrial research organization that is at the forefront of designing innovative technology solutions shaping our future. GRC's Innovations have helped push the boundaries of science and technology to solve some of the toughest problems for our customers. Today, the Global Research Centre is unleashing its innovation capabilities to accelerate businesses into the future and turn Research into Reality.

More than 5300 technologists and engineers at the GE India Technology centres are developing multidisciplinary innovations that help GE redefine what is possible in the future of Power, Aviation, Renewable and Healthcare technologies. GE technologists in India have contributed to over 3500 patent applications filed by the parent General Electric Company.



Ashok Leyland, flagship of the Hinduja group, is the 2nd largest manufacturer of commercial vehicles in India, the 3rd largest manufacturer of buses in the world, and the 10th largest manufacturers of trucks. Headquartered in Chennai, 9 manufacturing plants gives an international footprint - 7 in India, a bus manufacturing facility in Ras Al Khaimah (UAE), one at Leeds, United Kingdom and a joint venture with the Alteams Group for the manufacture of high-pressure die-casting extruded aluminum components for the automotive and telecommunications sectors, Ashok Leyland has a well-diversified portfolio across the automobile industry. Ashok Leyland has recently been ranked as 34th best brand in India.

A US \$ 2.30 billion company, and a footprint that extends across 50 countries, we are one of the most fully-integrated manufacturing companies this side of the globe. Ashok Leyland has a product range from 1T GVW (Gross Vehicle Weight) to 55T GTW (Gross Trailer Weight) in trucks, 9 to 80 seater buses, vehicles for defence and special applications, and diesel engines for industrial, genset and marine applications. Ashok Leyland launched India's first electric bus and Euro 6 compliant truck in 2016. Over 70 million passengers use Ashok Leyland buses to get to their destinations every day and our trucks keep the wheels of the economy moving. With the largest fleet of logistics vehicles deployed in the Indian Army and significant partnerships with armed forces across the globe, Ashok Leyland helps keep borders secure.

Pioneers in the Commercial Vehicle (CV) space, many product concepts have become industry benchmarks and norms. Ashok Leyland has ISO/TS 16949 Corporate Certification and is also the first CV manufacturer in India to receive the OBD-II (on board diagnostic) certification for BS IV-compliant commercial vehicle engines, SCR (selective catalytic reduction), iEGR (intelligent exhaust gas recirculation) and CNG technologies. We are the first truck and bus manufacturer outside of Japan to win the Deming prize for our Pantnagar plant in 2016 and the Hosur Unit II being awarded the Deming Prize in 2017. Driven by innovative products suitable for a wide range of applications and an excellent understanding of the customers and local market conditions, Ashok Leyland has been at the fore-front of the commercial vehicle industry for decades.

The Company's wide-spread customer base is served through an all-India sales and service network, supplemented by close to 3000 touch points. A global network of over 550 touch points that facilitate on-road service for millions of vehicles. With technology-enabled customer engagement processes and knowledge on the specific applications of the product range, Ashok Leyland sales team are well equipped

to fulfil customer's needs. Ashok Leyland manages driver training institutes across India and has trained over 8,00,000 drivers since inception. On-site service training for technicians are provided by Ashok Leyland's service training institutes located in 9 locations across India.

People, Planet and Profit for all stakeholders especially our customers is at the core of Ashok Leyland which resonates with our Philosophy of '**AAPKI JEET, HAMARI JEET**'.

TATA STEEL



Jamna Auto Industries Limited is the largest manufacturer of Tapered Leaf and Parabolic Springs for Commercial Vehicles (CVs) in India. It has been a trusted and preferred supplier of Leaf and Parabolic Springs to all major CV manufacturers for over 50 years. The Company is fast expanding its presence in new-generation products, like air suspension and lift axle.

Jamna has been a pioneer in leaf and parabolic springs in India. The company has tied up with Ridewell Corporation of USA to bring the latest technology in Air Suspension system to provide world class ride comfort for buses.

Jamna has built up a strong dealer network, through its subsidiary - Jai Suspension Systems LLP (JSS LLP), all over the country to support growing domestic After Market demand. The company sells springs under the "JAI" brand in the After Market and its products command premium.

Suspension system is a highly critical component in commercial vehicles. And it is because of this reason Jamna places high reliance on constant technological innovation and adoption of the best practices in world class manufacturing in all its Plants.



Applied Materials, Inc. is the leader in materials engineering solutions used to produce virtually every new chip and advanced display in the world. Our expertise in modifying materials at atomic levels and on an industrial scale enables customers to transform possibilities into reality. At Applied Materials, our innovations make possible the technology shaping the future. Learn more at www.appliedmaterials.com.



Bosch is a leading supplier of technology and services in the areas of Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. Additionally, Bosch has, in India, the largest development center outside Germany, for end to end engineering and technology solutions.

The Bosch Group operates in India through thirteen companies, viz, Bosch Limited, Bosch Chassis Systems India Private Limited, Bosch Rexroth (India) Private Limited, Robert Bosch Engineering and Business Solutions Private Limited, Bosch Automotive Electronics India Private Limited, Bosch Electrical Drives India Private Limited, BSH Home Appliances Private Limited, ETAS Automotive India Private Limited, Robert Bosch Automotive Steering Private Limited, Automobility Services and Solutions Private Limited, Newtech Filter India Private Limited and Mivin Engg. Technologies Private Limited and Precision Seals Manufacturing Limited. In India, Bosch set-up its manufacturing operation in 1951, which has grown over the years to include 18 manufacturing sites, and seven development and application centers.



Centum Electronics Ltd is a leading Electronics System Design and Manufacturing company head quartered in Bangalore, India offering design, development & manufacturing of customized system and subsystem solutions for high reliability applications. Established in 1994, Centum has rapidly grown into a diversified company operating in Defense, Aerospace, Space, Industrial, Medical and Transport industries. Centum has steadily increased its product and service range in these chosen segments. With exports contributing to 80% of the annual revenue and customers that include the most reputed international and domestic organizations, Centum has demonstrated its ability to combine product reliability, performance and competitive pricing with a strong customer-focused approach. Centum has also established a strong global presence with design, engineering & sales offices in the USA, Canada and France. Centum has 2100 employees including 700 Design engineers.

The company is comprised of Three operational business units – Design & Engineering services, Strategic Electronic Products and Electronic Manufacturing Services.

Centum's Strategic Electronic Products division, designs and develops customized electronic systems and modules for Defence, Aerospace and Space applications. Design engineers specialized in analog, digital, RF, Power and mechanical domains work together in multidisciplinary teams to realize complex products. These include guidance systems for Missiles, High Power RF Amplifiers and Transmitters for radars, ELINT system for Electronic warfare, Power subsystems and electro-optic sensors, digital systems for satellites & aircrafts, communication modules for military radios, Proximity Fuzes for artillery guns, Bombs and many more.

Centum EMS division offers a wide-range of manufacturing and product life-cycle services enabling customers to supply competitive products to end users. These include Electronic warfare suites, Engine control and cockpit electronics for aerospace applications, RF & seeker subsystems for missiles, power systems products, process automation products, measurement systems for power generation, oil & gas and other large industrial applications as well as control and power subsystems for MRI and X-ray imaging equipment. The manufacturing services are 100% exported and serves international customers like Thales, Rafael, L3Harris, Airbus, ABB, Hitachi, Alstom.

Centum Engineering group is a design and engineering firm specialized in the design of critical electronic systems for power electronics, control systems and

energy storage applications in the railway, aeronautics, defense and medical industries. Apart from main design center in France, it has other design centers in India, USA, Canada & Germany to support its worldwide customers.

The quality systems at Centum are certified for international standards, besides customer-specific line and product certifications. Centum is certified by CEMILAC for its design capabilities and is recognized by DST-GOI as an approved R&D house.

Centum has been the recipient of many awards and accolades from the Customers, Government of India and Industry bodies for Technology development, quality, Manufacturing, etc. Some of the recent awards are, Centum has the honour of being identified by World Economic Forum as “Global Growth Company”, Centum is listed by Forbes magazine in Asia’s 200 Best Under Billion List.



College of Engineering, Pune (CoEP), chartered in 1854 is a nationally respected leader in technical education. The institute is distinguished by its commitment to finding solutions to the great predicaments of the day through advanced technology. The institute has a rich history and dedication to the pursuit of excellence. CoEP offers a unique learning experience across a spectrum of academic and social experiences. With a firm footing in truth and humanity, the institute gives you an understanding of both technical developments and the ethics that go with it. The curriculum is designed to enhance your academic experience through opportunities like internships, study abroad programmes and research facilities. The hallmark of CoEP education is its strong and widespread alumni network, support of the industry and the camaraderie that the institute shares with several foreign universities. The institute is consistently ranked amongst the top 20 technical colleges in India and its alumni have contributed a lion's share in development of national infrastructure.



Cummins India

Cummins in India, a power leader, is a group of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, air handling, filtration, emission solutions and electrical power generation systems. Its technology and pioneering initiatives are bringing innovative solutions and dependable services at the best possible value to users across the country. Its high performance outlook is based on customer focus, integrity and capability of its people. Part of the US \$23.8 billion Cummins Inc., Cummins in India is a Group of seven legal entities across 200 locations in the country with a combined turnover of over Rs. 13,000 Crores in 2019 and employing more than 10,000 individuals. Collectively, the Group operates 21 manufacturing facilities across India.



Many companies are challenged to deliver differentiated solutions on existing/new Products or Process, Physical or Digital with many constraints in quick time. Bringing predictability with patent portfolios demands two important skills: Questioning status-quo and out of box thinking.

To develop above skills in their organizations, some of the market leaders embraced “inventive thinking, TRIZ”, which evolved by decoding the smart moves of the best innovators around the world from the patent databases and accelerated their innovation leadership.

With over 6 years of innovation leadership, PROINN® demonstrated mastery in imparting and applying “TRIZ deployment” on real problems to our clients and enabled their teams to solve any complex problems in just 48 hours with our structured innovation workshops and follow-up mentoring sessions by scoping tangible problems along RISIR®.

So far, we enabled 100+ inventions (Invent in India® and then make in India) with millions of USD savings to our clients. As innovation partners to large corporations, we are accelerating their innovation culture using *Ichha Jnana Kriya Sakthi*® framework. Check out our client testimonials.



Spray Engineering Devices Limited (SED), a public limited company having Head Office at Mohali, Punjab, India is pioneer in the fields of Evaporation, Heat Exchange, Condensation and Crystallization. Established in 1992 from a modest start of manufacturing of spray nozzles, SED today has established its presence in more than 40 countries by providing innovative technological and cost effective solutions to sugar and allied industries.

SED has an in-house R & D recognition granted by DSIR, Government of India in 2007 and has three modern manufacturing and automation units at Baddi, Solan, Himachal Pradesh, India. For various innovations, more than 35 granted innovation patents, 49 registered design patents, 15 trademarks and 14 copyrights have been approved by various Patents Organisation across the globe.

SED has revolutionized the Water Sector by providing Low Temperature Evaporation Technology based on Mechanical Vapour Compression system for upto 99% high quality clean water recovery from wastewater without use of heat generation & rejection units with lowest water recovery cost. This Low Temperature Evaporation Technology has been awarded as "National Awards for Excellence in Water Management 2019" under Innovative Water Saving Product Category by CII-Triveni Water Institute and registered under Amended Technology Upgradation Fund Scheme (ATUFS) by Ministry of Textiles, Government of India.



UPL Limited is an Indian multinational company that manufactures and markets agrochemicals, industrial chemicals, chemical intermediates, and specialty chemicals, and also offers total crop solutions. Headquartered in Mumbai, Maharashtra, the company engages in both agro and non - agro activities. The agro business is the company's primary source of revenue and includes the manufacture and marketing of agrochemical products, seeds and other agricultural related products. The non - agro segment includes the manufacture and marketing of industrial chemicals and specialty chemicals. UPL products are sold in 140+ countries.

UPL Limited was established on 29 May 1969. It is currently the fifth largest generic agrochemical company in the world.

At UPL, we put the Farmer First in all our initiatives. As a global Indian company, we are engaged in total crop solutions to the farming community across the world. From seeds, crop protection, plant health and post-harvest solutions, we are involved in designing pre-sowing to post-harvest crop-care technologies.

Advanta seeds help deliver high value germplasm & traits. ZEBA, our drought-mitigation technology helps manage soil water through the crop life cycle. DECCO range of speciality products for fruit coating and storage reduce post-harvest losses.

UPL is engaged in providing crop protection solutions for a wide range of crops like soybean, corn, rice, wheat, pulses, fruits & vegetables and also plantation crops like banana, oil palm & sugarcane.

Our key technologies ensure better farmer success. We also take pride in working towards reducing food losses with our comprehensive technologies for food grain storage and potato storage.

With over 28 units in multiple manufacturing locations in 15 countries like Brazil, South Africa, France, Argentina, Netherlands, USA, Vietnam, Columbia, Italy, Spain, UK, Turkey, Israel, India, China we attempt to facilitate the farmer with our products. Our 50 global subsidiaries manage the distribution of products to all corners of the globe.

At UPL, we have also invested in Farmer engagement initiatives that aim to educate, assist and address issues of the farmer. Adarsh Kisan Centre (AKC) is a toll-free call centre help, Trust++ and Adarsh Farm Services reaches out to help in aerial spraying & labour-related issues, while UNIMART provides farmers with farm products and technical guidance.



ARCI- Hyderabad is an autonomous R&D centre of Department of Science and Technology (DST), Government of India. Operational since 1996, ARCI has been setup with a mission to develop unique, novel and techno-commercially viable technologies in the area of advanced materials and subsequently transfer them to Indian industries. ARCI is required to develop and demonstrate technologies on a sufficiently large scale, not only to prove the reliability/consistency of the technology but also to carry out effective market sensitization, so that the subsequent transfer of technology to the industry has a greater chance of success. ARCI has formed Centres of Excellence (COEs) in many thrust areas related to materials and materials processing, like nanomaterials, ceramics, engineered coatings, fuel cells, carbon materials, sol-gel coatings, laser materials processing, solar energy and automotive energy materials. Each of these COEs has been involved in the development of advanced materials-based technologies pertaining to their core expertise.



'Central Manufacturing Technology Institute' (CMTI), is a Research & Development organisation focusing on providing 'Technology Solutions' to the manufacturing sector and assisting technological growth in the country. CMTI plays a key role in applied research, design and development (RD&D), technology forecasting, assimilation and dissemination of manufacturing technology to Indian industries.

CMTI over the last five decades developed Special Purpose Machines, Inspection Systems, Test Rigs for Qualification testing of products, Tooling, complex machined parts for public and private sectors. CMTI has continuously aligned its facilities and expertise with the fast changing technology in thrust areas of manufacturing to support and serve the manufacturing sector. Nanotechnology, Precision engineering, Metrology (Micro and Nano), Additive Manufacturing, Mechatronics, Vision and Image processing, Digital Design, Product Lifecycle Management (PLM) and Human Resource Development(creating 'Industry Ready' engineers) are the current areas of focus of the Institute.



Jubilant Biosys Ltd is a part of the Jubilant Life Sciences family of companies with R&D centers in India and business offices in Asia and North America. With our global reach, Jubilant Biosys provides comprehensive **drug discovery services** and contract research services—from target discovery to candidate selection and with flexible business models (FFS, FTE and risk shared)—in partnership with leading worldwide healthcare companies.



Panacea Biotec is an Innovation driven Biotechnology company doing Research and Development, Manufacturing, Sales, Distribution and Marketing of Pharmaceuticals, Vaccines and Biosimilars.

Panacea Biotec was set up in the year 1984, under the name of Panacea Drugs Private Limited with a commitment to make Innovative Products Affordable and Accessible to the masses. It got publically listed on Indian National Stock Exchanges in September 1995 as Panacea Biotec Ltd.

Panacea Biotec is witnessing a period of expansion across every aspect of our business from innovative products to customers in market, from manufacturing to regulatory approvals and thereby laying the foundation for translation of our vision in becoming greatest, largest and most admired biotechnology company in the World by 2020.



Syngenta Biosciences Pvt Ltd Syngenta Biosciences Pvt Ltd is one of the largest Agrochemical R & D organization in India. It is part of the Syngenta Group of companies and is one of the largest global sites for chemical and Analytical innovation and development for Syngenta Crop protection outside Europe. The company is located in Goa and plays an active role in the innovation and development of novel and new active ingredients for Agrochemical use. There are more than 150 scientists working in different areas of Chemical and Analytical Science providing innovative and breakthrough solutions. The organization was established in 2006 in a 3000 sq. mts laboratory which has grown over the last 15 years to occupy about 20000 sq. mt of laboratory space. The scientific contribution of the staff is acknowledged with more than 100 patents being filed globally with number of inventors contributing from the centre.



Valluri Technology Accelerators is a technology organization that focuses on combining scientific expertise with advanced technology to deliver data-driven solutions that address our Environmental and Climate Change problems.

VTA Company is specifically engaged in building solutions which leverage advanced AI-driven environmental models to tackle problems in the areas of Air, Water, Soil and Public Health.

The Company engages closely with Government, Scientific and Global Technology organizations to deliver converged, cost-effective and scalable solutions to address environmental and societal problems.

At this year's DST-CII Technology Summit, VTA will be launching two innovative technologies to address Air Pollution and Climate Change. Visit VTA's stall to experience the first Automated Emission Inventory Builder as well as VTA's new Predictive Emission Planning Simulator.

EMPOWERING YOUR GROWTH AND SUCCESS FOR OVER SEVEN DECADES



CIN: L3410TN1948PLC000105

Registered Office - Ashok Leyland Limited, No. 1, Sardar Patel Road, Guindy, Chennai - 600032, **Tel.** - 91 44 2220 6000
E-mail - reachus@ashokleyland.com | **Website** - www.ashokleyland.com | **Helpline Number** - 1800 266 3340



