



KERALA SPACEPARK (KSPACE)



KERALA AEROSPACE INDUSTRIAL POLICY 2025

(DRAFT)



Department of Electronics & Information Technology
Government of Kerala

Contents

Chapter	Page No.
I. INTRODUCTION	3
II. VISION & MISSION	5
III. SCOPE OF POLICY	6
IV. ADVANTAGE – KERALA	7
V. KERALA INDUSTRIAL ECOSYSTEM	9
VI. FOCUS AREAS	12
1. Space	12
2. Aviation	13
3. Defense	13
4. Missile systems	14
5. Drones	15
VII. Government Initiatives	16
VIII. Incentives for Aerospace & defense manufacturing sector	28
IX. Policy Implementation	33
X. Annexures	34

I. INTRODUCTION

1. Kerala ranks among the developed nations in terms of human development indices. Outstanding achievements have been made by the State in the fields of education, health, and social welfare. Government of Kerala is determined to further accelerate the sustainable industrialization of the State and focus on the Hi-Tech sectors like aerospace and defence manufacturing.
2. The Indian Aerospace & Defence (A&D) industry sector is seeing rapid growth. This amazing growth is stimulated by (i) opening up of the space technology and defence sectors for private investments (ii) **Atmanirbhar Bharath** and **Make in India** initiatives, (iii) mandatory offset clauses in defence imports, (iv) promotion of defence exports, (v) booming civil aviation industry, (vi) The overall economic prosperity of the country and the mission to become the third largest economy in the world by 2030 and many more. The strong business prospects of the Indian Aerospace & Defence sectors are attracting many global players to India to setup their manufacturing and services hubs.
3. Kerala is the cradle of the spectacular Indian Space odyssey. The amazing journey of the Indian Space program was initiated with the launching of the first rocket (Nike-Apache) from the Thumba Equatorial Rocket Launching Station (TERLS) in Thiruvananthapuram on 21st November 1963.
4. Presence of major ISRO centres of Vikram Sarabhai Space Centre (VSSC), Liquid Propulsions System Centre (LPSC) and ISRO Inertial Systems Unit (IISU) offers Kerala, particularly Thiruvananthapuram, a great opportunity and potential. The unique, Indian Institute of Space Science and Technology (IIST), Asia's first Space University, is also within Thiruvananthapuram. The presence of these vital space institutions qualifies Kerala as the **Space Capitol of India**, a unique distinction which no other state can claim.
5. Kerala's own baby, the **BrahMos Aerospace Thiruvananthapuram Ltd (BATL)**, now under DRDO, is another major aerospace company in Thiruvananthapuram supporting many major projects of ISRO and Defence.
6. Kerala can also be proud on having many major educational and research institutions. The Digital University of Kerala (DUK) and the upcoming Digital Science Park are unique institutions engaged in the academic, research and innovation activities in the digital domain and high-end electronics. The Sree Chitra Tirunal Institute of Medical Science & Technology is not only offering speciality treatments related to Heart and Neuro ailments but also engaged in the High-end research activities related to medicine, medical implants, accessories and medical equipment.

7. Other major academic and research institutions related to aerospace and defence include NIIST, IISER, Rajiv Gandhi Centre for Biotechnology, NIT Calicut, IIT Palakkad etc
8. Kerala Spacepark (KSPACE), promoted by the Government of Kerala, is the first of its kind in India and is mandated to promote industries in Space technology sector and the associated domains in Aviation and Defence.
9. The Kerala Startup Mission (KSUM) is the primary institution, promoted by the Government of Kerala, engaged in the promotion of Start-ups across all domains. With 2500+ start-ups, Kerala stands tall in the in the Start-up ecosystem in India and is holding number Uno position among all the states for the past three years.
- 10 The Emerging Technology Hub (EMTH) being initiated by KSUM will further boost the innovation and start-up activities in various critical emerging technologies.
11. The just concluded strategic MoU between KSUM, Technopark and Defence to establish the Kerala Defence Innovation Zone(K-DIZ) will further boost our potential opportunities in the sector.
12. Kerala is just adjudged as rank 1 in “Ease of Doing Business Reforms” as per the ranking of the Union Ministry of Commerce and Industry. It is a great recognition for the path breaking initiatives of the Government of Kerala. The State Industry Policy 2023 is providing excellent support to the business community and administration is extremely proactive and responsive.
13. Kerala is all set to emerge as one of the key destinations for the global Aerospace and Defence industry. **Kerala Aerospace and Defence industry policy 2025** is formulated to boost the Industrial ecosystem in these High Tech, High value and Strategic domains towards supporting the **Kerala Knowledge Economy Mission**.

II. **VISION & MISSION**

1. **Vision**

To make Kerala a preferred destination to invest, develop and manufacture products and services in the Space, Aviation and Defence sectors.

2. **Mission**

- a) Creating an Ecosystem for manufacturing of robust, technologically advanced, high-quality, world-class Aerospace & Defence components and services

- b) Attracting global OEMs and Indian majors in Aerospace & Defence sectors to Kerala by providing necessary facilitation and support
- c) Fostering growth of existing Aerospace & Defence sector companies in Kerala
- d) Making Kerala a thriving Aerospace & Defence Innovation and Start-up destination in India
- e) Creating Kerala brand globally and establish leadership in Aerospace & Defence sectors
- f) Enhancing Research & Development capabilities in Aerospace & Defence sectors
- g) Exploring the possibilities of integration of Central and State schemes towards promoting entrepreneurship and extending the best possible support to the industry.

III. SCOPE OF POLICY

This policy is applicable to all enterprises engaged in the following classifications as defined in the National Industrial Classification (NIC):

- 1) Manufacturing of goods under Section C – Groups 252, 303 and 304
- 2) Manufacturing of goods of all other groups of section C pertaining to Aerospace and Defence sector
- 3) Research & Development on Natural science and Engineering (Section M, Group 721 and 741) pertaining to Aerospace and Defence sector
- 4) Activities under Section J, Division 61
 - 613 – Satellite telecommunications activities
 - 619 – Other Telecommunication activities
- 5) Section C – Division 22 – 22111 – Manufacture of rubber products for space, aviation and defence
- 6) Section C – 2651 (Manufacture of measuring, testing, navigating and control equipment) – 26515 – Manufacture of radar equipment, GPS devices, search, detection, navigation, aeronautical and nautical equipment

- 7) Any other activities under NIC as notified from time to time by Government of Kerala

This policy is to be read in conjunction with the **Kerala State Industrial Policy 2023**.

IV. ADVANTAGE - KERALA

1. Home to VSSC, LPSC, IISU, BATL, IIST etc. those make significant contribution to Space and Defence sectors.

Major centres of ISRO, viz. Vikram Sarabhai Space Centre (VSSC), Liquid Propulsion Systems Centre (LPSC), ISRO Inertial Systems Unit (IISU) as well as Indian Institute of Space Science and Technology (IIST) are located in Thiruvananthapuram. M/s BrahMos Aerospace Thiruvananthapuram Ltd is another key player in Aerospace and Defence sector. The manufacturing ecosystem and technology talent pool created by these institutions are of great support for the growth of Aerospace and Defence industries in the region.

2. Kochi and Thiruvananthapuram -Most preferred places to work

According to India Skills Report 2024, Kochi and Thiruvananthapuram are the most preferred workplaces in India

3. Ranked 1st in Asia and 4th globally in Start Ups

Kerala ranks 1st in Asia and 4th globally in Startups. Kerala's startup ecosystem valued five times more than the global average, according to the 2024 Global Startup Ecosystem Report (GSER)

4. First digital state in India

Kerala achieved the distinction of being the first digital state in the country having linked all villages in the state with broadband connectivity under the Kerala Fibre Optic Network (KFON) project

5. Great pool of experts

Kerala hosts large number of experts in the space, aviation and defence technologies, making it the resource capitol of India in the Aerospace domain.

6. Abundant skilled manpower

Kerala is rich in high quality skilled workforce due to its traditional investments in higher education and health care. The skilled manpower has been contributed by the prevailing aerospace ecosystem in the state.

7. Excellent logistic connectivity by road, rail, sea, inland waterways and air

Kerala is well connected with 8 National highways, 72 state highways and well over 3 lakh kilometres of road network. The upcoming Thiruvananthapuram Outer Ring green-field highway provides connectivity for the Vizhinjam International Seaport with the National Highways network for hassle free movement of cargo. Kerala

hosts 4 International Airports, 2 Major and 8 Minor Seaports. The just commissioned Vizhinjam International Seaport Ltd, Thiruvananthapuram, the deepest transshipment port in India, is the Gateway to India for the International shipping. The Western Inland Waterway provides a cost-effective and environment-friendly mode of transport from the south to north of Kerala. The rail network in the state spans over 1054 kms and well connects the state. Upcoming Angamali- Sabarimala railway line, proposed to be extended to the Vizhinjam International Seaport, will provide a third parallel rail route connectivity from the North to the South of the state.

V. KERALA AEROSPACE & DEFENCE INDUSTRIAL ECOSYSTEM

1. Kerala Spacepark (KSPACE)

Kerala Spacepark (KSPACE) is a visionary initiative of Government of Kerala to promote industries in Space technology sector and the associated domains in Aviation and Defence.

a. Technocity campus

Currently KSPACE has around 20 acres of land in Technocity, Pallipuram in Thiruvananthapuram district for developing Space Tech industrial Hub. A Common Facilities Centre (CFC) and R&D Centre (RDC) are being constructed in 3.5 acre of land. The built-up space is planned to be offered on rent to set up certain common facilities, design, startups and R&D units. The remaining land is being offered on long term lease for private investments.

b. Valiamala Campus

Acquisition of 13.5 acres of land in Valiamala, near the LPSC and IIST campuses, is in an advanced stage. A centre of excellence in Liquid Propulsion Systems, Research to product development Centre and Drone research and testing centre are planned at the location.

c. Veli Campus

Acquisition of another 60 acres of land in Veli, Thiruvananthapuram is also in an advanced stage and scheduled to be completed by the end of 2025. It is planned to have the following major focus areas of development:

- (i) Aerospace Control Systems Complex
- (ii) Aerospace Inertial Navigation & Guidance Complex
- (iii) Aerospace Avionics complex
- (iv) Precision and Micro Manufacturing Complex
- (v) Common facilities for the above

These focus areas are having exceptionally high prospects in Space Technology, Aviation, Defence, Drone, robotics, automation, autonomous vehicles and several other disciplines.

d. Aerospace Composites Centre, Thonnakkal

Acquisition of 28.5 acres of land in Thonnakkal, Thiruvananthapuram is in the advanced stage of completion. A Centre of Excellence in Aerospace Composites is planned to developed at the site. The projects planned at the location are:

- i. Pressure Vessels
- ii. Structural Composites
- iii. Metal Matrix Composites
- iv. Aluminium Matrix Composites
- v. Aramid Matrix Composites
- vi. Ceramic Matrix Composites

e. Integrated Defence Industrial Park (IDIP)

Acquisition 100 acres of land is planned to establish an Integrated defence Industrial Park. The park will target for investments in most decorative defence segment.

f. KSPACE projects in Ernakulam and Kozhikode

Apart from current and upcoming projects at Thiruvananthapuram, KSPACE is also planning to establish similar centres at **Ernakulam** and **Kozhikode/Kannur** to support Aerospace and defence related industries in Central and North regions of Kerala

2. KINFRA Defence Park, Palakkad

The project is intended to create a Defence industrial Park with all modern facilities exclusively for Defence equipment manufacturers with Assistance from Government of India under 'Modified Industrial Infrastructure Upgradation (MIIU)' Scheme. This scheme is implemented by the Department of Industrial Policy and Promotion, Govt. of India. KINFRA is in possession of 60 acres of land having good logistic connectivity.

3. Kochi – Bengaluru Industrial Corridor (KBIC)

The Kochi-Bengaluru Industrial Corridor (KBIC) is an extension of the Chennai-Bengaluru Industrial Corridor (CBIC) that aims to boost the manufacturing sector in the southern region of India. The KBIC aims to integrate Kerala and western Tamil Nadu into the country's industrial and economic corridors, increase manufacturing and promote balanced regional growth. The KBIC will develop industrial clusters in Palakkad and Kochi

The first node of KBIC, **Palakkad Node**, is set to cover an area of approximately 1,710 acres in three land agglomerations that have been demarcated for the development of the Integrated Manufacturing Clusters (IMCs).

4. Outer Ring Road (ORR) project under Capital Region Development Programme (CRDP)

The Outer Area Growth Corridor (OAGC) project in Thiruvananthapuram is a proposed 80 km ring road that will connect the city's outer areas with the Vizhinjam International Seaport and the National Highway 66. The road is part of the Capital Region Development Programme-II (CRDP-II) and is also known as the Thiruvananthapuram Outer Ring Road. Industrial townships with all the modern amenities are planned along this Greenfield Road.

5. Kerala State Industrial Development Corporation (KSIDC)

Kerala State Industrial Development Corporation (KSIDC) is the principal agency of the Government of Kerala, mandated for industrial promotion and investment. Formed in 1961, KSIDC's primary objective is to promote, facilitate and finance large and medium-scale industries and catalyse the development of physical and social infrastructure required for industrial growth in the state. The one-stop-shop for any investment in Kerala, KSIDC offers a comprehensive set of services that an investor needs to set up an enterprise in the State.

To foster an inclusive and sustainable industrial ecosystem that ushers in Industry 4.0 and promotes investment and innovation, an incentive structure has been designed to cater to the needs of the industrial enterprises in the 22 Priority Sectors.

VI. FOCUS AREAS

Kerala has been an integral part of the Aerospace & Defence industrial ecosystem with several institutions and industries running their operations in the state. The State based industries have partnered with ISRO, DRDO and other Aerospace and Defence agencies. Kerala hosts large vendor network for projects and operations of these agencies. Based on Kerala's industrial development and strength, certain sub-sectors have been identified for fuelling the growth of Aerospace and Defence sector in the state. Major potential subsectors in the Aerospace and Defence industrial domain that can stimulate growth of the sector are:

1. Space

Vikram Sarabhai Space Centre (VSSC), under the Indian Space Research Organization (ISRO), is a lead centre of ISRO responsible for the design and development of launch vehicle technology. In addition to its main campus located at Thumba and Veli, VSSC has the Integration and Checkout facilities located at Valiamala. Facilities for development of reinforced plastics and composites are located at Vattiyoorkavu in Thiruvananthapuram City. Ammonium Perchlorate Experimental

Plant (APEP) located in Aluva caters to the entire requirement of Ammonium Perchlorate required for ISRO projects.

VSSC pursues research and development in the fields of aeronautics, avionics, composites, computer and information technology, control guidance and simulation, launch vehicle design, mechanical engineering, mechanisms, vehicle integration, testing, propellants, polymers, materials, space ordnance systems and systems reliability.

The Space Physics Laboratory (SPL) is also within the VSSC campus. SPL focuses on research activities in disciplines such as atmospheric boundary layer physics, numerical atmospheric modelling, atmospheric aerosols, atmospheric chemistry, trace gases, atmospheric dynamics, thermosphere-ionosphere physics, planetary sciences, etc.

The Liquid Propulsion Systems Centre (LPSC) located at Valiamala, Thiruvananthapuram is another major centre of ISRO specialising in the design, development and qualification of all the liquid propulsion systems for launch vehicles and satellites. LPSC is also involved in the research and development of advanced propulsion systems and high precision sensors and flow control devices.

The ISRO Inertial Systems Unit (IISU) situated at Vattiyoorkavu, Thiruvananthapuram is a unique institution specialised in inertial navigation and guidance control systems for launch vehicles and satellites. The centre is also involved in the development of various robotic systems and automation.

Indian Institute of Space Science and Technology (IIST) is a government-aided institute and deemed university for the study and research in space science, located at Valiamala near Thiruvananthapuram city. IIST was set up in 2007 by the Indian Space Research Organisation (ISRO) under the Department of Space, Government of India and it is the only institute of its kind in India, which offers specialised graduate, post graduate courses and research programmes related to Space Technology. The institute is also involved in the high-end R&D related to space systems and applications.

2. Aviation

Kerala's strategic location and favourable policies are driving its emergence as a promising destination for investments in the aviation sector. Supported by a robust infrastructure, including four international airports and the fifth one in making, provides excellent connectivity and favourable environment for the growth of aviation industry sector.

Kerala's strategic location, at the southern tip of India, provides an advantageous position for businesses, facilitating trade and collaboration with markets in Asia, Africa and the west.

With the aviation sector expected to grow both for military and civilian sectors, the special impetus by the government will facilitate more companies and startups attracted to Kerala. Aircrafts maintenance and servicing, components and systems

manufacturing, robotics and automation, navigation and guidance control, logistic management are the key areas in which Kerala can make significant contributions.

3. Defence

Defence has been identified as one of the key sectors under “**Make in India**” initiative of Government of India for providing a major thrust to the indigenous manufacturing of equipments and systems to meet most of the varied requirements of defence. Start-ups in the aerospace and defence technology sectors are playing an important role in Kerala’s industrial growth. Start-ups providing technological support for the development of missiles, manufacturing, propulsion systems, drones, research and development shall be encouraged. The strong connectivity between space and defence makes most of capabilities in these sectors are inter-adaptable with appropriate minor customization.

Defence Industrial Park, Palakkad promoted by KINFRA, is one of the most important initiatives of Kerala towards defence manufacturing. The Defence Park can be utilised in the manufacturing of Missile Systems and sub-systems, Radar Systems and sub-systems, Command & Control Systems, Aerospace & Aero-Structures, Unmanned Aerial Systems, Optronic Systems, Homeland Security Solutions

4. Missile systems

The **Integrated Guided Missile Development Program (IGMDP)** initiated by our legendary leader, Dr APJ Abdul Kalam, has helped India to achieve self-reliance to a large extent in this most strategic sector and attain the current respectful status for the country. With the Government of India’s initiative in opening the defence sector to private industry, licenses for production of several defence systems and components have been issued to private industries including firms based out of Kerala. Several components for missile production are being sourced from the private industries to meet the needs of DRDO labs and DPSUs.

Presence of big players like M/s BrahMos Aerospace Thiruvananthapuram Ltd (BATL) has boosted the defence industrial ecosystem in Kerala. BATL has been established with the aim of achieving self-reliance in manufacturing and system integration for the strategic sectors of defence and space.

Naval Physical and Oceanographic Laboratory(NPOL), Kochi is another prime agency involved in high end research and development of critical systems for the naval application. The prestigious Cochin Shipyard Limited made history by developing the first indigenous aircraft carrier, INS Vikrant.

Presence of the Southern Naval Command in Kochi, Southern Air Command in Thiruvananthapuram and the Pangode Military station provides excellent opportunities for collaboration in the Defence domain.

The policy aims to improve the manufacturing output of these sectors and attract larger orders and OEMs into the State.

5. Drones

The fast-developing drone applications provides another major opportunity for Kerala. The diverse utility of Drones in the domains of agriculture, construction, defence, food industry, cinematography, photography, aerial survey, surveillance etc shows the economic potential of the new entrant. Kerala's unique strengths in the fields of aerodynamics, structural design, composite manufacturing, electronics and software throws up a unique advantage.

Realising the capabilities of drone technology more companies and start-ups are being attracted towards drones and components manufacturing. Combined with Artificial Intelligence, drone technology is having a wide variety of uses and applications.

Kerala is already seeing a boom in start-ups related to drone technology. The policy aims to improve manufacturing of drones and subsystems and to attract Research and Development in drone technology.

VII. Government Initiatives

1. Technical Enablers

a) Common Facilities Centre (CFC) and Research and Development Centre (RDC) in Technocity, Pallipuram

KSPACE will set up state of the art, Aerospace and Defence industry oriented Common Facilities Centre (CFC) and Research and Development Centre (RDC) in around 2 lakh sq. ft built up space at Pallipuram, Thiruvananthapuram. Investors can setup the equipments and operate the facilities and offer services to industrial units within KSPACE premises and other outside customers.

The RDC will be dedicated to house (i) design & analysis units, (ii) software units, (iii) innovation and start-up units and (iv) R&D units.

Investors will be given the required built-up space on long term lease or rent to setup their units and operate.

b) MSME Advanced Manufacturing Technological Centre, Pallipuram

Towards supporting the industries in the advanced manufacturing sector, MSME, Government of India is setting up an Advanced Manufacturing Technology Centre (TC) in 9.5 acres land given on long term lease from Technocity, adjacent to KSPACE campus. The facility is being built on BoT mode. EoI is floated to identify the development partner. The developer will build the facility within 2 years and operate it for 28 years and transfer to MSME. The facility will be equipped with most of the advanced manufacturing equipments and accessories. The Technology centre will extent support for (i) proto manufacturing for local industries, (ii) short term skill up

training to youngsters on relevant disciplines and (iii) consultancy for new entrepreneurs.

c) Land for long lease in Technocity, Pallipuram

KSPACE is developing around 16 acres of land in Technocity, Pallipuram, Thiruvananthapuram for leasing out to prospective investors. This land will be ready by the end of 2025.

d) Centre of Excellence in Liquid Propulsion and Allied Systems

Government is in the process of acquiring 13.5 acres of land in Valiamala, Thiruvananthapuram, close to LPSC and IIST for KSPACE.

“Centre of Excellence in Liquid Propulsion and Allied Systems” is planned to be developed at the site.

e) Innovation & Product Development Centre

Along with the CoE in Liquid Propulsion and Allied Systems, an Innovation & Product Development Centre will also be developed in Valiamala, Thiruvananthapuram. This facility will catalyse innovation and empower industries through cutting-edge technologies.

f) Centre of Excellence in Drone Technology

A Centre of Excellence in Drone Technology is also proposed at the Valiamala site considering the remote location. The CoE will focus on drone research, design, development, realisation, testing and certification. A drone pilot training institute is also planned.

According to a PWC analysis published in January 2020, India is the world's fastest-growing drone market and is predicted to reach \$1,810 million by FY 2026.

The above CoE intends to develop a comprehensive state-of-the-art research, innovation, knowledge dissemination and support centre for analytics and research using UAVs and drones.

g) Aerospace complex at Veli

KSPACE is in the final stages of acquiring 60 acres of land in Veli, Thiruvananthapuram. On completion of acquisition, KSPACE will be developing the following Centres of Excellence:

- (i) Centre of Excellence in Aerospace Control Systems
- (ii) Centre of Excellence in Aerospace Navigation Guidance and Control
- (iii) Aerospace Avionics complex
- (iv) Precision and Micro Manufacturing Complex
- (v) Common facilities for the above

h) Aerospace Composites Centre, Thonnakkal

Acquisition of 28.5 acres of land in Thonnakkal, Thiruvananthapuram is in the advanced stage of completion. A Centre of Excellence in Aerospace Composites is planned to developed at the site. The projects planned at the location are:

- i. Pressure Vessels
- ii. Structural Composites
- iii. Metal Matrix Composites
- iv. Aluminium Matrix Composites
- v. Aramid Matrix Composites
- vi. Ceramic Matrix Composites

The Centre of Excellence in Composites will be developed into world class design and manufacturing centre to support the space, aviation and defence related industries. This centre will also support the local industries engaged in medical devices manufacturing and other critical domains.

i. Integrated Defence Industrial Park

Acquisition 100 acres of land is planned to establish an Integrated defence Industrial Park. The park will target for investments in most decorative defence segment. The project is a big initiative by the government to enter into the most strategic defence production. Industries engaged in the defense production, especially missiles and ordnance systems, are invited to set up units at the campus.

j. KSPACE projects in Ernakulam and Kozhikode

Apart from current and upcoming projects at Thiruvananthapuram, KSPACE is also planning to establish similar centres at Ernakulam and Kozhikode/Kannur to support Aerospace and defence related industries in Central and North region of Kerala

2. Skill enablers

a) ICT Academy of Kerala

ICT Academy of Kerala (ICTAK) is a Social Enterprise created in a Public Private Partnership model (PPP) for imparting ICT skills to the youths of Kerala and improving their employability in the industry in the sector. The Company is supported by Govt. of India, partnered by Govt. of Kerala and the IT industry.

ICTAK Academy of Kerala does research and offers training programs on diverse streams, ranging from emerging technologies to life skills. It strives to enhance the technological skills of the youth thereby imbibing industry relevant skills to them. ICTAK is also planning for training courses on Drone Technology.

KSPACE is having collaboration agreement with ICTAK

b) ASAP Kerala

Additional Skill Acquisition Programme Kerala (ASAP) is a Government of Kerala company focused on improving the employability quotient of the students and facilitating their placement. ASAP serves as a bridge between industry and academia.

ASAP provides demand-based, industry-led and industry-curated higher-order skill courses online and through its skill development centres in colleges, schools and Community Skill Parks. It seeks to promote the inculcation of a culture of product innovation and a mind-set of problem-solving through student engagement initiatives like hackathons and gamification. ASAP assists students in making their dreams and aspirations a reality.

ASAP Kerala, through its Community Skill Parks, operates Remote Pilot Training Organisations (RPTOs), including the Drone RPTO at CSP Kazhakuttam, which can be integrated with the proposed Centre of Excellence to support drone training, maintenance, and servicing needs of KSPACE registered companies. Leveraging its collaboration with the Centre for Aerospace Research, Anna University, ASAP can play a vital role in faculty training, workshops, curriculum development, internships, and CoE initiatives, while also enabling collaborations with airports and industry stakeholders to strengthen talent development in aerospace and MRO operations.

KSPACE is having a collaboration agreement with ASAP.

c) Digital University of Kerala (DUK)

Digital University of Kerala (DUK) is engaged in unique academic and research activities in the areas of digital domain, high end electronics, chip design and Graphene research etc. DUK is also setting up a Digital Science Park to promote Innovation and Start-ups in these domains. DUK is another sister institution under E&IT department and operating in the Technocity campus.

KSPACE is having collaboration agreement with DUK

d) Software Technology Park India (STPI)

Software Technology Parks of India (STPI), an autonomous society under Ministry of Electronics and Information Technology, Govt. of India has been set up with distinct focus to boost up Software export from the country.

STPI-Thiruvananthapuram, one of the 11 STPI jurisdictions, was set up in 1992. STPI-Thiruvananthapuram has been the backbone for the growth of software and hardware industry in Kerala and Lakshadweep since last three decades and has enabled Thiruvananthapuram to emerge as one of the leading IT clusters in India. In FY 2022-23, STPI-registered units in Thiruvananthapuram jurisdiction have contributed Rs. 5,702.46 crore software exports.

KSPACE is having a collaboration agreement with STPI

e) C-DAC

The Centre for Development of Advanced Computing(C-DAC) unit in Thiruvananthapuram has been working in application-oriented research, design and development for various industrial and customer requirements. Over the years, Centre has acquired competency, expertise and extensive experience in the areas of Broadcast & Communications, Control & Instrumentation, Networking, Power Electronics, ASIC Design and Underwater Electronics.

The centre houses National Resource center for computing in Malayalam, Resource Centre for Cyber Forensics, National Mission on Power Electronics Technology (NaMPET), Automation Systems Technology Centre (ASTeC), and Intelligent Transportation System (ITS). The Centre has a VLSI/ASIC design center, PCB-CAD facility, DSP lab, Industrial design facility and Pilot production facility. The Centre through its diversified R&D activities in the core areas, has gained multi-disciplinary in-house expertise and so could take up and successfully complete many challenging mission mode products/projects.

KSPACE is in the process of finalizing a collaboration agreement with C-DAC.

f) KELTRON

KELTRON, Kerala's pioneering electronics enterprise, plays a crucial role as a skill enabler in the state's aerospace and defense sectors. With over four decades of experience in supporting ISRO and DRDO missions, KELTRON has developed a highly skilled, ISRO-certified workforce proficient in high-reliability electronics manufacturing and testing. Through hands-on training, advanced fabrication facilities, and continuous collaboration with national aerospace programs, KELTRON not only delivers mission-critical systems but also fosters technical expertise within the state. Its role in developing and sustaining a talent pool equipped for precision aerospace engineering makes KELTRON a vital contributor to Kerala's vision of becoming a leading hub for aerospace innovation and manufacturing

KSPACE is in the process of finalizing a collaboration agreement with KELTRON.

g) IIST

Indian Institute of Space Science and Technology (IIST), situated at Thiruvananthapuram is a Deemed to be University under Section 3 of the UGC Act 1956. IIST functions as an autonomous body under the Department of Space, Government of India. The idea of such an institute was mooted keeping in mind the need for high quality manpower for the Indian Space Research Organization, one of world's leading scientific organizations engaged in space research and space applications. The institute is the first of its kind in the country, to offer high quality education at the undergraduate, graduate, doctoral and post-doctoral levels on areas with special focus to space sciences, space technology and space applications.

KSPACE is having collaboration agreement with IIST

h) Kerala University

University of Kerala is a state-run public university in Thiruvananthapuram. It was the first university in Kerala, and among the leading universities in the country. It is accredited by NAAC with highest grade of 'A++' and scored 3.67 points out of 4.

The university has over 150 affiliated colleges and has sixteen faculties and 43 Departments of teaching and research. It was ranked 21st among universities and 38th overall by the National Institutional Ranking Framework (NIRF) in 2024

KSPACE is having collaboration agreement with Kerala University.

i) APJ Abdul Kalam Technological University

APJ Abdul Kalam Technological University (KTU) is a state public technological university headquartered at Thiruvananthapuram, Kerala, India.

KTU is an AICTE and UGC approved university that offers undergraduate, postgraduate and doctoral degrees in engineering, technology, and management-related streams.

KSPACE is in the process of finalizing a collaboration agreement with KTU.

j) Kerala Academy for Skills Excellence (KASE)

The Kerala Academy for Skills Excellence (KASE), the state's nodal agency for skill development, plays a pivotal role in building a future-ready workforce to support Kerala's growing aerospace industry. By facilitating industry-linked training programs, establishing Centres of Excellence, and promoting demand-driven skill development initiatives, KASE ensures that youth are equipped with the technical competencies and certifications required by aerospace and defense sectors. Its focus on advanced manufacturing, electronics, avionics, and mechatronics training aligns closely with the needs of aerospace enterprises. Through strategic partnerships with industry and academia, KASE acts as a critical enabler in bridging the skill gap and empowering Kerala to become a competitive player in the national and global aerospace landscape.

3. Technology partners

a) ISRO Centres

i. Vikram Sarabhai Space Centre (VSSC)

Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram, is the lead centre of ISRO responsible for the design and development of launch vehicle technology. The Centre pursues active research and development in the fields of aeronautics, avionics, materials, mechanisms, vehicle integration, chemicals, propulsion, space ordnance, structures, space physics and systems reliability. The Centre undertakes crucial responsibilities of design, manufacturing, analysis, development and testing related to the realisation of subsystems for the different missions.

VSSC has extension Centres at Valiamala housing major facilities of mechanisms, vehicle integration and testing and at Vattiyoorkavu for the development of composites. The Ammonium Perchlorate Experimental Plant (APEP) has been set up by VSSC at Aluva near Kochi.

The major programmes at VSSC include development of launch vehicles, sounding rockets, Reusable launch vehicles, Air breathing propulsion systems etc. Realisation of the man rated MKIII vehicle for the GAGANYAAN program and development of the Next Generation launch Vehicle (NGLV) are two major programs currently in progress.

KSPACE is having collaboration agreement with VSSC

ii. ISRO Inertial Systems Unit (IISU)

ISRO Inertial Systems Unit (IISU), Thiruvananthapuram is responsible for the design and development of Inertial Systems for Launch Vehicles and Spacecraft programmes of ISRO. Major systems like Inertial Navigation Systems based on mechanical gyros and optical gyros, Attitude Reference Systems, Rate Gyro Packages and Accelerometer Packages are developed indigenously and used in various missions of ISRO. IISU also designs and develops Actuators and Mechanisms for spacecraft and allied applications.

IISU is engaged in continuous Research and Development too. The experience and knowledge gained over the years are used for perfecting the present class of sensors and systems and developing new technologies. Further IISU has also initiated advanced technology development programs in niche areas to adapt itself as a Centre of Excellence in Inertial Sensors and Systems. IISU strives to make the systems cost effective, reliable and realisable in tune with global trends.

KSPACE is having collaboration agreement with IISU

iii. Liquid Propulsion Systems Centre (LPSC)

Liquid Propulsion Systems Centre (LPSC) is the centre for design, development and realisation of liquid propulsion stages for ISRO's Launch Vehicles. Development of fluid control valves, transducers, propellant management devices for vacuum conditions and other key components of liquid propulsion systems are also under the purview of this centre. LPSC activities and facilities are spread across its two campuses namely, LPSC, Valiamala, Thiruvananthapuram and LPSC, Bengaluru, Karnataka.

LPSC, Valiamala is responsible for R&D, System Design, Engineering and Project Management functions. The Fluid Control Components Entity and the Materials and Manufacturing Entities are located here apart from the Earth Storable and Cryogenic Propulsion Entities, handling the core tasks of the Centre.

KSPACE is having collaboration agreement with LPSC

b) IN-SPACE

To facilitate private sector participation, the government has created the Indian National Space Promotion and Authorisation Centre (IN-SPACe), as a single-window, independent, nodal agency which functions as an autonomous agency in Department of Space (DOS). Established as a single window agency for all space sector activities of private entities, IN-SPACe plays an important role in boosting the private space sector economy in India.

IN-SPACe, is responsible to promote, enable authorize and supervise various space activities of the NGEs that include, among others, the building of launch vehicles & satellites and providing space-based services; sharing of space infrastructure and premises under the control of DOS/ISRO; and establishment of new space infrastructure and facilities.

KSPACE is in the process of finalizing a collaboration agreement with IN-SPACe

c) IITM Pravartak

IITM Pravartak Technologies Foundation is a section 08 company housing the Technology Innovation Hub on Sensors, Networking, Actuators, and Control Systems (SNACS). It is hosted by the Indian Institute of Technology, Madras and funded by the Department of Science and Technology, Government of India, under its National Mission on Interdisciplinary Cyber-Physical Systems.

The primary activities of IITM Pravartak include:

- Technology Development
- Entrepreneurship Development
- Human Resource Development
- International Collaboration

This provides an eco-system that enables fundamental research to translate to products, thus integrating academics, industry, government and international organizations.

KSPACE is in the process of finalizing a collaboration agreement with IITM Pravartak

d) Technopark

Nestled within a serene 768- acre oasis in Thiruvananthapuram, this premier high-tech hub not only boasts state-of-the-art IT infrastructure alongside collaborative co-working spaces, but has also set the bar high for sustainable development, IT breakthroughs and employee well-being. Technopark is not only the first IT Park in India but is also India's largest green technology park. Technopark had ignited Kerala's IT revolution and also set the tone for India's broader technological transformation and advancement.

e) Infopark

Infopark, Kerala's premier IT hub, serves as a strategic technology partner in the state's aerospace industrial ecosystem. By fostering a vibrant community of IT companies, startups, and R&D centers, Infopark provides a robust platform for the development of cutting-edge software solutions, data analytics, embedded systems, and AI applications essential to the aerospace and defense industries. Its strong focus on innovation, cybersecurity, and digital infrastructure enables collaboration between aerospace enterprises and technology providers. As a catalyst for digital transformation, Infopark plays a key role in integrating advanced IT capabilities into Kerala's aerospace value chain, supporting both operational excellence and indigenous technological advancement.

g) Cyberpark

Cyberpark, Kozhikode, is emerging as a key technology partner in Kerala's aerospace industrial ecosystem by nurturing a growing IT and innovation-driven environment in the Malabar region. With a focus on promoting software development, embedded systems, AI, and cybersecurity solutions, Cyberpark offers valuable technological support to aerospace and defense projects. The park fosters collaboration between tech startups, IT service providers, and research institutions, enabling the development of customized digital tools and mission-critical software for aerospace applications. By strengthening the state's digital backbone in northern Kerala, Cyberpark plays a strategic role in decentralizing aerospace innovation and supporting the sector's expansion through technology integration and skilled talent.

4. Financial Enablers

a) Kerala Responsible Industry Incentive Scheme (K-RIIS)

The Government of Kerala (GoK) has introduced many businesses reform action plans. Recent initiative of the Government of Kerala is the formulation of **K-RIIS (Kerala Responsible Industry Incentive Scheme)** which aims to incentivise Industries in the State that focuses on Responsible Investment (RI) & Responsible Industry (RI) concept.

The Incentive Schemes rolled out after multiple stakeholders' level meetings, offers certain support systems to investors / entrepreneurs in the State by way of subsidies, tax exemption and other incentives so as to attract Responsible Investments in the 22 priority sectors as identified by the Government through its industrial policy. The **K-RIIS** offers 18 incentive Schemes to industries in Kerala. Enterprises that make investments in the state in the above 22 priority sectors are eligible to apply.

b) Entrepreneur Support Scheme (ESS)

Entrepreneur Support Scheme (ESS) is the most popular and attractive scheme operated by the Directorate of Industries and Commerce, Kerala. The scheme aims to

provide financial assistance to Micro, Small and Medium Enterprises engaged in manufacturing activities in the State, proportional to the capital investment made. Depending upon the category of the investor, sector and the district of investment, the unit can avail subsidy from 15% to 45% of the fixed capital investment. For this scheme, loan from a financial institution is not mandatory.

c) Schemes in ESDM policy

Modified Electronics Manufacturing Clusters (EMC 2.0)' Scheme: Notified on 01st April 2020 by Ministry of Electronics and Information Technology, Govt. It supports creation of best-in-class infrastructure for attracting investments in the Electronics Systems Design and Manufacturing (ESDM) Sector. Applicable to Electronics System Design and Manufacturing (ESDM) verticals like Automotive electronics, Industrial electronics, Consumer electronics, medical electronics, Computer Hardware, Telecom Networking & Communications, E-mobility products etc.

Financial assistance: 50% of the project cost subject to a ceiling of Rs. 70 Cr for every 100 acres of land (Overall ceiling: Rs. 350 Cr per project)

d) Start-up Funding Policies

Seed Funding by Kerala State Industrial Development Corporation Ltd. (KSIDC): The Innovative finance scheme was launched as part of YES (Young Entrepreneur Summit 2014) initiative. Under the scheme, innovative ventures are given seed fund by way of soft loan up to 90% of the project cost or Rs.25 lakhs whichever is lower.

The seed fund assistance will be sanctioned as Soft Loan for a period of three year at the prevailing RBI bank rate as on the date of sanction of financial assistance. The company can either repay the loan or convert it to equity limited to 19% on mutual agreed terms within 3 years from the date of disbursement.

e) Kerala Startup Mission (KSUM)

The Kerala Startup Mission (KSUM) is the nodal agency of the government of Kerala, under E&IT department, for promoting entrepreneurship in the state. It is also the implementing body for the Kerala Technology Startup Policy that supports the state's startup ecosystem through the various schemes and support programs. The goal is to promote technology-based entrepreneurship activities and to create the infrastructure and ecosystem required to support high-end technology-based startup businesses.

f) Emerging Technology Hub (EMTH)

An Emerging-Technology hub is being set up by Kerala Startup Mission (KSUM) in Thiruvananthapuram with focus on five major growth areas for Kerala, namely food and agriculture, space, digital media and entertainment, health care and life sciences, and renewable energy. Deep-tech start-ups can leverage the immense possibilities of technology. The Emerging Technology Hub will be largely beneficial for start-ups from the domains of Artificial Intelligence (AI), machine learning, blockchain, computer

imaging, and other innovative applications needed for burgeoning technologies like virtual reality.

g) Defence Innovation Zone (K-DIZ)

Kerala–Defence Innovation Zone (K-DIZ), a pioneering initiative under Kerala IT , jointly undertaken by KSUM and Technopark was launched on 29th November 2024 with MoU exchanges. It is aimed to synergise various stakeholders who would enable and support the innovations and potential disruptive ideas from the state-grown smaller enterprises (startups/SMEs/innovators) for our armed forces. This ecosystem at the state level will give them opportunities to address challenges that affect national security, make our country Atmanirbhar (self-reliant), and offer collaboration prospects for them with the industry.

K-DIZ will be integral to the Centre of Excellence (CoE), focusing on Defence and Aerospace that is being planned under the Emerging Technology Hub of KSUM at Technopark Phase IV (Technocity).

K-DIZ will function under this CoE to develop market-making opportunities for startups/SMEs/Innovators, by building a connection with all stakeholders, to evolve a common picture for defence innovations. It will serve as an eco-system provider, where startups and innovators (potential defence and aerospace entrepreneurs) from Kerala can get information, develop connections, explore market opportunities, and collaborate with our Armed Forces (to understand their user perspective and challenges). IDEX/TDF (initiatives under MoD for innovation/indigenisation in defence and aerospace domain) offers great opportunities for the development of various critical technologies for defence.

h) Private Industrial Estate (PIE) Scheme

The initiative aims to stimulate employment opportunities through the strategic development of private lands for establishing industrial enterprises across the state, thereby fostering a conducive business environment.

The minimum land requirement for developing a Private Industrial Estate is set at 10 acres, while for establishing a Standard Design Factory, it stands at five acres. Entities /Family owning and possessing a minimum of 10 acres or holding lease rights for a minimum of 10 acres of land for a period 30 years or more and desirous of developing a Private Industrial Estate (PIE) and Entities/ Individuals / Family owning and possessing a minimum of 5 acres or holding lease rights for a minimum of 5 acres of land for a period 30 years or more and desirous of developing a Standard Design Factory (SDF) shall apply on-line to obtain the Private Industrial Estate developer permit.

The identified land shall not fall under environmentally sensitive areas, coastal regulation zones, paddy lands, or wetlands. Entities possessing a minimum of 10 acres of land can apply online to obtain the Private Industrial Estate Developer Permit.

For projects exceeding 15 acres, exemptions under the Kerala Land Reforms Act of 1963 will be granted by the Government.

The Directorate of Industries and Commerce will scrutinize applications, assessing site feasibility and project viability. Subsequently, a high-level committee, comprising representatives from various government departments, will review and approve applications within 30 days. Upon committee approval, the Industries Department will issue the Private Industrial Estate Developer Permit. Government financial assistance, capped at Rs. 30 lakhs per acre and not exceeding Rs. 3 crores, will support infrastructure development, including electricity, water, transportation, drainage, ETP and common facilities. Fund will be released by the Director of Industries & Commerce after scrutiny of the expenditure incurred based on bills and found to be eligible.

Land within the Private Industrial Estate will be exclusively allocated to industrial enterprises, barring vehicle showrooms, shopping complexes, malls, or retail outlets. An online portal has been established for streamlined application submission, ensuring efficient processing.

VIII. Incentives for Aerospace industries

1. Applicable as per the State Industrial Policy 2023

The main objectives of extending attractive incentives to investors are:

- a. To encourage large-scale investments in the Space Technology sector and related domains in Defence and Aerospace in the state to help further the growth of economy
- b. To generate large-scale employment opportunities for the youths of the state

The following operating models are promoted by KSPACE

1. Companies/units that operate within KSPACE-owned premises
2. Companies/units that operate within jointly promoted industrial parks supported by KSPACE
3. Companies/units that operate within other government/private industrial parks and are affiliated with KSPACE
4. Companies/units that operate within their own premises and are affiliated with KSPACE

Kerala Aerospace incentive policy is prepared in accordance with the state Industrial Policy 2023. All the incentives applicable as per the State industrial policy 2023 will be extended to KSPACE companies. Those incentives are listed below.

SI No.	Incentive Category	Project category	Description
--------	--------------------	------------------	-------------

1	Loans at low interest rates	MSME	Loans up to Rs 10.0 lakhs at 4% interest (through interest subvention up to 6%)
2	Capital subsidy incentive	MSME	• Micro: Up to 45%, subject to a maximum of Rs 40 lakhs • Small: up to 45%, subject to a maximum of Rs 1.0 Cr • Medium: up to 45%, subject to a maximum of Rs 2.0 Cr

3	Electricity duty exemption	MSME	100% exemption for 5 years
4	Fund raising through IPO	MSME	Reimbursement of 50% of cost incurred for IPO through SME platform of NSE and BSE; up to a maximum of Rs 1.0 Cr (Eligibility only if the funds thus raised are utilized for setting up new unit or expanding the existing unit in the state)
5	Investment subsidy	Large & Mega	10% subject to a maximum of Rs 10.0Cr
6	SGST reimbursement	Large & Mega	100% reimbursement on capital investment for 5 years
7	Incentive for employment generation	Large & Mega	8. If more than 50% of permanent jobs are filled from local population, 25% of the monthly wages of each additional job so created, subject to maximum of Rs 5000/person/month, for one year will be reimbursed to the employer 9. If more than 50% of the permanent employee are women, 25% of the monthly wages of each additional job so created, subject to maximum of Rs 5000/month/woman employee, for one year will be reimbursed to the employer 10. If permanent employment is provided to transgenders of the state, Rs 7500/month/transgender worker, for one year will be reimbursed to the employer
8	Exemption of Stamp duty &	All categories	11. Up to 100% on lease deed/purchase of land/building for setting up manufacturing (to be made applicable for all) unit in

	Registration charges for manufacturing units (to be made applicable for all)		government and notified private industrial parks 12. Up to 100% on lease/purchase of land/building for Women, SC/ST, differently abled and transgender entrepreneurs for setting up manufacturing units anywhere in the state
--	--	--	---

9	Private industrial estates	All categories	Up to Rs 3.0 crores for infrastructure development
10	Incentives to participate in trade fairs	All categories	Reimbursement of 100% of the amount incurred as stall charges in one domestic and one international fair/exhibition per year subject to a maximum of Rs 5.0 lakhs
11	Intellectual Property Rights (IPR)	All categories	Reimbursement of 50% of the cost of filing for patent, copyright, trademark, GI registration etc subject to a maximum of Rs 30.0 lakhs
12	Quality certification	All categories	50% refund of the amount spent for obtaining compulsory markings such as CE, FDA, ISO, BIS etc subject to a maximum of Rs 25 lakhs per unit per annum
13	Incentives for sustainability and responsible industrialisation	All categories	25% refund of the expenditure (excluding Civil costs) on plant & machinery/equipment for setting up ETP, off grid installations, rainwater harvesting, zero discharge technologies, recycling of e-waste, recycling of wastewater, energy & water conservation audit etc subject to a maximum of Rs 25 lakhs during the policy period
14	Industry 4.0 initiatives in the manufacturing sector (to be made applicable to all)	All categories	20% reimbursement of cost of software (big data analytic tools), machinery etc subject to a maximum of Rs 25 lakhs per enterprise during the policy period
15	Research & Development	All categories	Enterprises engaged in R&D with state universities/institutions(add) will get 20% refund of such expenditure, subject to a maximum of Rs 1 crore per enterprise/Annum
16	Scale-up incentives	All categories	Startups in the state to get scale up loans of up to Rs 1 crore through KSIDC

17	Made in Kerala (Branding & Marketing)	All categories	Reimbursement of 50% of the cost incurred for obtaining “Made in Kerala” certification
18	Special packages to attract investors who are entitled to PLI (Production Linked Incentive)	All categories	A one-time top-up incentive of 20% of the fixed capital investment, up to maximum of Rs 1.0 crore, will be provided to the industrial units of the state, shortlisted under the Central government’s PLI schemes. Such top-up incentive is in addition to other subsidies to the said enterprises

KSIDC is the nodal agency to extend all the above incentives as per the Kerala State Industrial Policy 2023.

Additional incentive that are offered beyond the above specifically for companies connected to KSPACE are detailed below:

19	Apprenticeship incentive (manufacturing sector)	Manufacturing Sector	PM’s Internship scheme announced in the Union Budget for 2024-25, the scheme kicked off with a pilot project for the financial year 2024-25, targeting 1.25 lakh internships The Pilot Project offers a 12-month internship program designed for youth aged 21 to 24 years, specifically for Indian nationals who are not employed full-time or engaged in full-time education. Candidates enrolled in online or distance learning programs are eligible to apply. Internships can be applied for through the PM Internship Portal. Interns will receive a monthly stipend of ₹5,000 throughout the internship duration. Additionally, a one-time grant of ₹6,000 will be disbursed after joining the internship
----	---	----------------------	---

20	Subsidy on land lease cost	All categories	• 50% subsidy on lease premium for land/building within KSPACE premises • Subsidy amount can be offered as government equity (KSPACE) in the project or by another suitable agreement • Will be recouped by government after a moratorium period of 10 years 50 % of the equity can be recouped in the 11th year of operation and the remaining as two equal instalments in the 12th and 13th year of operation. (KSPACE will be the implementing agency)
21	Subsidy on water charges	All categories	10% subsidy on water bills for the initial 5 years by the water distribution agency (TECHNOPARK/KWA). (Requires Govt approval)

22	Early bird subsidy	All categories	25% discount on initial upfront lease/rent payment for a period of 10 years (January 2026 to 2036) to the enterprises availing built-up space or land within KSPACE premises (Requires Govt approval . KSPACE will be the implementing agency)
----	--------------------	----------------	--

23	Technology Transfer	All categories	Approved service sector projects in the Aerospace and defence sector units shall be reimbursed 75% of the cost of acquisition of technology transfer towards the first 5 vendor units subject to a maximum of Rs 50 lakhs for each vendor and 50% towards the next 5 vendor units, subject to a maximum Rs. 50 lakhs towards each vendor within the policy period (Requires Govt approval & K-RIIS channel. To be implemented by KSIDC)
24	Product Testing & Prototyping incentive	All categories	25% of the Eligible Fixed Assets (EFA) on establishing product testing and prototyping facilities, subject to a ceiling of Rs. 1 crore (Requires Govt approval & K-RIIS channel. To be implemented by KSIDC)
25	Women Entrepreneurship	All categories	Direct loan of up to INR.10 Lakhs for women startups (Requires Govt approval & K-RIIS channel. To be implemented by KSIDC).

IX. Policy Implementation

1. Kerala State Industrial Development Corporation (KSIDC)

KSIDC is the nodal agency of the Government of Kerala that implements the state's industrial policy. KSIDC offers financial assistance and support to small, medium, and large-scale industries/businesses in the state, including service sectors infrastructure Projects, Food processing & Agro-based industry, Logistics, Biotechnology, Life sciences-based ventures, Electronic Hardware, Footwear & allied Industries, Tourism, Health care, Ayurveda products and services, Petrochemical downstream projects, Green Industry, Gas based industry, Marine manufacturing cluster / Shipbuilding, etc.

2. Single Window Clearance Mechanism

The online clearance mechanism aimed at facilitating clearances from departments / agencies concerned for setting up and running of an enterprise in the State

The Single Window Clearance Boards provide the speedy issuance (within 30 working days) of various licenses, clearances, permits, NOCs, etc., required for setting up, expansion, diversification, modernization of enterprises in the State, including renewals

- a. **Kerala State Single Window Clearance Board:** Primarily considers license applications pertaining to investments more than Rs. 15 Crore, in addition to being the Appellate Authority. The Apex body is chaired by the Chief Secretary,

with the Managing Director, KSIDC as Convenor, and Heads of various departments as members

- b. District Single Window Clearance Boards:** Constituted for considering license applications entailing investments up to Rs. 15 Crore. Chaired by the District Collector and convened by General Manager, the District Industries Centre of the district concerned
- c. Industrial Area Boards:** Constituted for Industrial Areas/ Industrial Parks/ Industrial Estates/ Industrial Growth Centres in the State, including notified Private Industrial Parks, for speedy issuance of statutory clearances to the units set up in such Parks/ Estates, etc. The District Collector of the district concerned shall be the Chairperson, and the Designated Authority of the Industrial Area concerned shall be the Convenor

CEO, KSPACE will be invited to the meetings of the above bodies while discussing proposals channelled through KSPACE.

X. ANNEXURES

1. Abbreviations

Sl No.	Abbreviation	Expansion
1	A&D	Aerospace and Defence
2	AI	Artificial Intelligence
3	APEP	Ammonium Perchlorate Experimental Plant
4	AICTE	All India Council for Technical Education
5	ASAP	Additional Skill Acquisition Programme
6	ASIC	Application-Specific Integrated Circuit
7	ASTeC	Automation Systems Technology Centre
8	BATL	BrahMos Aerospace Thiruvananthapuram Limited
9	BG	Bank Guarantee
10	BIS	Bureau of Indian Standards
11	BoT	Build-Operate-Transfer
12	BSE	Bombay Stock Exchange
13	CAD	Computer-Aided Design
14	CAGR	Compound Annual Growth Rate
15	CBIC	Chennai-Bengaluru Industrial Corridor
16	C-DAC	Centre for Development of Advanced Computing
17	CE	Conformité Européenne
18	CFC	Common Facilities Centre
19	CoE	Centre of Excellence
20	Cr	Crores
21	CRDP	Capital Region Development Programme
22	DOS	Department of Space
23	DPSU	Defence Public Sector Undertakings

24	DRDO	Defence Research & Development Organisation
25	DSP	Digital signal processing (DSP)
26	DUK	Digital University Kerala
27	E&IT	Electronics & Information Technology
28	EFA	Eligible Fixed Assets
29	EMC	Electronics Manufacturing Clusters
30	EMTH	Emerging Technology Hub
31	EoI	Expression of Interest
32	ESDM	Electronics Systems Design and Manufacturing
33	ESI	Employees' State Insurance
34	ESS	Entrepreneur Support Scheme
35	ETP	Effluent Treatment Plant
36	FDA	Food and Drug Administration
37	FY	Financial Year
38	GI	Geographical Indication
39	GoCo	Government Owned Company Operated
40	GoI	Government of India
41	GoK	Government of Kerala
42	GSER	Global Startup Ecosystem Report
43	GSLV	Geosynchronous Satellite Launch Vehicle
44	ICT	Information and Communication Technology
45	ICTAK	ICT Academy of Kerala
46	iDEX	Innovation for Defence Excellence
47	IISER	Indian Institute of Science Education and Research
48	IIST	Indian Institute of Space Science and Technology
49	IISU	ISRO Inertial Systems Unit
50	IIT	Indian Institutes of Technology
51	IITM	IIT Madras
52	IMC	Integrated Manufacturing Cluster
53	INR	Indian Rupee
54	IN-SPACe	Indian National Space Promotion and Authorisation Centre
55	IPO	Initial Public Offering
56	IPR	Intellectual Property Rights
57	ISO	International Organization for Standardization
58	ISRO	Indian Space Research Organisation
59	IT	Information Technology
60	ITS	Intelligent Transportation System
61	KBIC	Kochi – Bengaluru Industrial Corridor
62	K-DIZ	Kerala Defence Innovation Zone
63	KELTRON	Kerala State Electronics Development Corporation Limited
64	KFON	Kerala Fibre Optic Network
65	KINFRA	Kerala Industrial Infrastructure Development Corporation
66	km	Kilometre
67	KMML	The Kerala Minerals and Metals Limited
68	K-RIIS	Kerala Responsible Industry Incentive Scheme
69	KSIDC	Kerala State Industrial Development Corporation
70	KSPACE	Kerala Spacepark
71	KSUM	Kerala Startup Mission

72	KTU	APJ Abdul Kalam Technological University
73	KWA	Kerala Water Authority
74	LPSC	Liquid Propulsion Systems Centre
75	MIIU	Modified Industrial Infrastructure Upgradation
76	Mk III	Mark 3
77	MoD	Ministry of Defence
78	MoU	Memorandum of Understanding
79	MSME	Micro, Small and Medium Enterprises
80	NAAC	National Assessment and Accreditation Council
81	NaMPET	National Mission on Power Electronics Technology
82	NGE	Non-Governmental Entity
83	NIC	National Industrial Classification
84	NIIST	National Institute for Interdisciplinary Science and Technology
85	NIRF	National Institutional Ranking Framework (NIRF)
86	NIT	National Institute of Technology
87	NOC	No Objection Certificate
88	NOFN	National Optical Fibre Network
89	NSE	National Stock Exchange of India Limited
90	OAGC	Outer Area Growth Corridor
91	OEM	Original Equipment Manufacturer
92	ORR	Outer Ring Road
93	PCB	Printed Circuit Board
94	PF	Provident Fund
95	PLI	Production Linked Incentive
96	PIE	Private Industrial Estate
97	PM	Prime Minister
98	PPP	Public–Private Partnership
99	PSLV	Polar Satellite Launch Vehicle
100	PwC	PricewaterhouseCoopers
101	R&D	Research and Development
102	RBI	Reserve Bank of India
103	RDC	Research and Development Centre
104	RI	Responsible Industry
105	RI	Responsible Investment
106	Rs.	Rupees
107	SC	Scheduled Caste
108	SDF	Standard Design Factory
109	SGST	State Goods and Services Tax
110	SIFL	Steel and Industrial Forgings Limited
111	SME	Small and Medium Enterprises
112	SNACS	Sensors, Networking, Actuators, and Control Systems
113	SPL	Space Physics Laboratory
114	ST	Scheduled Tribe
115	STPI	Software Techno Parks of India
116	TC	Technology Centre
117	TCC	Travancore Cochin Chemicals
118	TCEC	Technology Centres and Extension Centres

119	TDF	Technology Development Fund
120	TERLS	Thumba Equatorial Rocket Launching Station
121	UGC	University Grants Commission
122	UAV	Unmanned Aerial Vehicle
123	VLSI	Very-large-scale integration
124	VSSC	Vikram Sarabhai Space Centre
125	YES	Young Entrepreneur Summit