



## GOVERNMENT OF KERALA

### Abstract

Industries Department- Kerala Graphene Policy -To promote a futuristic and Ideal Graphene Ecosystem in the State-Approved- Orders issued.

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### INDUSTRIES(J)DEPARTMENT

G.O.(Ms)No.17/2026/ID Dated,Thiruvananthapuram, 14-02-2026

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Read 1 Letter No. KSIDC/TVM/IP-3919(e-239)/2024/473 dated:10.05.2024  
from the Managing Director, KSIDC

2 Letter No:3084/KSIDC(T)/IP-3919/2026 dated:07.01.2026 from the  
Managing Director,KSIDC

### ORDER

The Kerala Graphene Policy aims to promote and support the research, development, and industrial application of Graphene and related materials in the state. The policy recognizes Graphene as a transformative material with the potential for revolutionary impacts on industries such as electronics, energy storage, composites, coatings, sensors, and advanced manufacturing. It seeks to attract investment, technology partnerships, and research collaborations that can place Kerala on the global Graphene map. Kerala is thus the first Indian state to adopt an official Graphene focused policy, setting a benchmark for industry development, innovation, and advanced materials research.

2) Accordingly, as per the letters read above, the Managing Director, Kerala State Industrial Development Corporation has submitted a detailed proposal on Kerala Graphene Policy incorporating suggestions from all relevant stakeholders

concerned for setting up units for manufacturing High-end Graphene sheets and other Graphene products.

3) The Government have examined the matter in detail and are pleased to accord sanction for the implementation of Kerala Graphene Policy in the State, appended as Annexure to this Order, as a sub sectoral policy under the Kerala Industrial Policy-2023, aimed at promoting and supporting the research, development, and industrial application of Graphene and related materials (GRM) in the State.

(By order of the Governor)

A P M MOHAMMED HANISH  
ADDITIONAL CHIEF SECRETARY

To:

- 1) All Additional Chief Secretaries/Principal Secretaries/Secretaries.
- 2) All Departments in Secretariat
- 3) The Member Secretary, Kerala State Planning Board , Pattom.
- 4) The Director, Industries and Commerce, Thiruvananthapuram
- 5) The Managing Director,KSIDC
- 6) The Managing Director, KINFRA
- 7) The General Administration (SC) Department. (vide item No.....)
- 8) Finance Dept (vide UO file No. 2914122/PU-D3/99/2024-Fin dtd 1.7.25)
- 9) The Principal Accountant General (Audit / A&E),  
Kerala,Thiruvananthapuram
- 10) Information & Public Relations (Web & New Media) Department  
(For publishing in the official website).
- 11) All Officers/Sections in Industries Department
- 12) Stock File/Office Copy

Forwarded /By order

Signed by

Hari G S

Date: 16-02-2026 11:48:11

Copy to:

- 1) Private Secretary to Hon'ble Chief Minister
- 2) Private Secretary to Hon'ble Minister, Industries
- 3) Staff Officer to Chief Secretary
- 4) PA to Principal Secretary, Industries
- 5) CA to Joint Secretary, Industries



# KERALA GRAPHENE POLICY

Powering the Future of **Advanced  
Materials & Deep Tech**

Government of Kerala



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## **Introduction**

### **1 About Kerala**

- 1.1 Kerala, known as "God's Own Country," is a coastal state located in the southern part of India. Nestled between the Western Ghats and the Arabian Sea, Kerala boasts breath-taking natural beauty, a rich cultural heritage, and a vibrant economy. With its strategic location, educated workforce, and favourable business environment, Kerala offers immense potential for graphene-oriented industries. Kerala is strategically located on the transnational trade corridor, with substantial contribution to India's economic output.
- 1.2 Kerala, the southernmost part of India, has always been scenic land blessed with lush greenery, tranquil backwaters, sprawling beaches, attractive golf courses etc. Kerala has provided its population with cosmopolitan quality of life through a process of living right close to nature thereby being the safest, healthiest & most environment-friendly aligning with the global Environmental, Social and Governance (ESG) framework.
- 1.3 Kerala has also been at the forefront of socio-economic development and reforms in the Country. From the Kudumbashree initiative to the health sector reforms, numerous initiatives pioneered by Kerala have been emulated at the National & Global levels. We have been a role model for the entire country with our social infrastructure such as literacy (96%), life expectancy (75.2 years), higher health indices, modernized social security, excellent law and order mechanism, ideal tourism infrastructure, recognized biodiversity by UN, one of the 50 ideal destinations globally and many more.
- 1.4 Kerala is also one of India's most progressive states in terms of support to human development; delivery of justice; social protection; essential infrastructure and connectivity viz., 4 airports, 2 major seaports, 17 mini seaports, 2 ICT Terminals, 11 national highways, railways, metros, "SEA-ME-WE-3" and "SAFE" submarine cable landings, higher road density, 100% digital telephone exchanges, 98% of telephone exchanges connected by OFC to the National Internet Backbone (NIB), 24\*7 power connectivity etc. 'Kerala Model' in many indicative parameters is arguably at par with some of the major global super powers.

- 1.5 The fascinating part of the Kerala story is that it has been able to replicate its social development in the economic & industrial sectors as well. Kerala is the ninth largest economy in India, with high GDP growing at about 12% y-o-y and excellent productivity figures. According to Public Affairs Index (PAI) 2022, Kerala ranked third best-Governed state in the Country among large States. Kerala has been placed in the 6th position in State Investment Potential Index of Government of India, with excellent performance in Governance, Societal Structure and growth & labour drivers in the NCAER 2018 ranking. Kerala's startup ecosystem has ranked top in Affordable Talent in Global Startup Ecosystem Report (GSER) in Asia in 2022. Kerala is also ranked 4th in the GSER global ranking, based on the research driven by Startup Genome, world's leading policy advisory and research firm.
- 1.6 The state's diverse economy encompasses a wide range of sectors, including agriculture, fisheries, textiles, spices, coir, tourism, IT and IT-enabled services, healthcare, and manufacturing. The state also boasts a large and effluent diaspora spread across the world.
- 1.7 One of Kerala's key strengths lies in its skilled workforce. The state boasts a high literacy rate and a well-educated populace, providing a strong foundation for knowledge-based industries. Kerala's human capital is known for its proficiency in English, adaptability, and entrepreneurial spirit, making it an ideal destination for graphene-oriented industries seeking a skilled workforce.

## **2 Graphene – The Introduction**

- 2.1 Graphene, a honeycomb-like layer of carbon atoms, is a revolutionary material with unmatched properties. High-frequency electronics, biological and magnetic sensors, ultra-wide bandwidth photodetectors, energy storage, and generation have advanced greatly since graphene was physically obtained.
- 2.2 Graphene is an allotrope of carbon that is made up of a single layer of atoms that are arranged in a honeycomb nanostructure that is two-dimensional. Its very high tensile strength, electrical conductivity, and transparency, in addition to the fact that it is the thinnest two-dimensional material in the world, have contributed to its development into a nanomaterial that is both valuable and helpful.

- 2.3 Carbon is the second most plentiful mass within the human body and the fourth most abundant element in the universe (by mass), following hydrogen, helium, and oxygen.
- 2.4 Carbon is also the fourth most prevalent element in the cosmos. Due to the fact that carbon is the chemical foundation for all known forms of life on earth, graphene has the potential to be an environmentally beneficial and sustainable solution for an almost infinite number of uses.
- 2.5 Graphene has attracted the attention of both researchers and industry due to its exceptional properties, including being the world's thinnest, strongest, and most conductive substance for electricity and heat. The unique nature of this material is causing research efforts to be undertaken all over the world in an effort to appreciate its enormous potential and its power to transform a variety of industries.
- 2.6 Because of its one-of-a-kind structure, graphene has an unusually high surface-area-to-volume ratio. This is because graphene is one million times thinner than a single hair. The fact that graphene possesses this unique property makes it an excellent candidate for use in applications involving batteries and supercapacitors particularly. It is possible to say that graphene is a perfect contender for a wide variety of applications across a variety of industries due to the extensive list of superlatives that describes it.
- 2.7 Graphene is a futuristic technology that could generate new markets and replace existing technologies or materials. Its adaptability enables modest material enhancements and revolutionary adjustments that show its true potential.
- 2.8 Within the graphene market, the bulk graphene segment plays a significant role, encompassing various types such as graphene nanoplatelets (GNPs), graphene oxide, reduced graphene oxide, and other forms. Bulk graphene finds extensive use in composite applications, contributing to its increasing demand. The versatility of graphene in these applications adds to its appeal, making it a sought-after material for industries exploring enhanced performance and novel functionalities.
- 2.9 In the Indian market, the usage of graphene is currently limited to specific sectors due to material costs. Industries such as batteries, rubber, paint, lubricants, polymers, and other energy storage devices have embraced graphene for its unique properties, albeit with certain limitations.



- 2.10 In conclusion, graphene stands at the forefront of materials science, holding the potential to transform industries and redefine technological landscapes. While challenges in mass production persist, ongoing research and technological advancements are gradually overcoming these obstacles, paving the way for graphene to realize its promise in diverse applications across the global market. As scientists and engineers continue to unlock the secrets of this remarkable material, the impact of graphene on various industries is poised to be nothing short of revolutionary.

### **3 Graphene – The Application**

- 3.1 Graphene and related materials are considered to be enabling materials for a wide variety of novel applications in virtually every field of technology. This is because graphene possesses remarkable physical and chemical properties. The early commercial applications of graphene materials have been found to be as an additive in bulk composites, inks, coatings, or electrode materials and have been successful so far.
- 3.2 In situations like these, it is frequently prized not just for its high electrical conductivity and/or its mechanical strength, but also for its chemical inertness, anti-microbial capabilities, flame-retarding properties, and other similar qualities. Composites, paints, coatings, and inks, energy storage and harvesting, electronics, catalysts, water treatment, lithium-ion batteries, DNA sequencing, and other applications are among the most prominent applications of this material. Applications of graphene in industry can be found in a wide variety of fields, including biomedicine, building materials, aerospace and defence, and others.

### **4 Graphene – The Kerala Scenario**

- 4.1 The Kerala Budget 2022 - 2023 announced that a suitable ecosystem for the development of R&D institutions and industries related to graphene would be set up in the State.
- 4.2 Graphene ecosystem development in Kerala is envisioned to be accomplished by the implementation of a three-tiered development plan. An idea-to-prototype facility that will be known as the India Innovation Centre for Graphene will be established during the first stage of the project.

- 4.3 Additionally, a Graphene Pilot Plant Facility and an associated commercialization campaign known as the Graphene Aurora initiative will be established during the second stage of the project. Graphene Industrial Park will be formed with the establishment of a large-scale volume production facility during the third stage of the process.
- 4.4 Graphene-Aurora Program is initiative in the State launched by the Ministry of Electronics & Information Technology (MeitY) in association with the State Government to promote graphene technology and innovation. The program is aimed at bridging the gap between graphene research and commercialization and is implemented by Digital University Kerala. It is funded by MeitY, the Government of India, the Government of Kerala, and industry partners. The establishment of the India Graphene Engineering and Innovation Centre (I-GEIC), as a part of the initiative, in the State will play a pivotal role in this effort. Carborundum Universal which has already a production facility in Kochi is one of the industrial partners to this program.
- 4.5 Kerala Government has also earmarked Rs. 237 crores for setting up an intermediary graphene production park with Kerala Digital University designated as Nodal agency and KINFRA is designated as SPV for infrastructure development for the park.
- 4.6 Kerala is also aiming to set up a graphene industrial park to tap the opportunities of the nanomaterial as a range of vistas are opening up across multiple sectors. The Graphene Industrial Park in Kerala will be singularly focused on the mass production of large area, low-cost graphene using a process known as chemical vapor deposition (CVD). Once an industrial scale graphene production facility is established, the material will be used to foster the development of graphene-based applications, and ultimately, commercial products. This could allow Kerala to become the epicentre of 21<sup>st</sup> century technological innovation in India and assume the leading role in the development of high-end products and applications, creating a multitude of job opportunities in the process.
- 4.7 While graphene has long been regarded as one of the most promising technologies the key focus element to stimulate the graphene/GRM industry is by promoting diversification of nano carbon technology and advance its industrialization and marketization.

- 4.8 The India Innovation Centre for Graphene (IICG) will be developed as a centre of knowledge conducting researches on the new technology. It is a project jointly implemented by the Kerala government and the Ministry of Electronics and Information Technology (MeitY) with Tata Steel Limited as an industrial partner and C-MET and Digital University as implementing agencies.
- 4.9 Kerala has identified companies such as General Graphene, a subsidiary of Graphite India Ltd., to build and operate the pilot graphene production facility that lies at the heart of the Graphene Industrial Park. General Graphene has already developed its own proprietary graphene mass production equipment, which it will replicate at its Kerala facility. General Graphene also brings its world-class graphene expertise and intellectual property portfolio to support the Graphene Industrial Park along with the Digital University of Kerala's Graphene Centre of Excellence. More companies will be onboarded as the facilities get build up through a global search process.
- 4.10 With ready access to industrial quantities of graphene to support the development of graphene-based application, the Graphene Park at Kerala is well-positioned to establish the first industrial-scale graphene manufacturing hub in the world. The cutting-edge technology will drive the creation of innumerable manufacturing, R&D and support jobs necessary for this ecosystem to thrive, bolstering both Kerala and India's economic development and growth roadmaps. The potential to integrate graphene into Kerala's traditional industries such as rubber, wood, plastics, coir, etc. also presents the opportunity to create innovative new products while stimulating job generation and growth within these sectors.

## **5 Applicability of the Policy**

- 5.1 The policy is applicable to manufacturing / producing / service-oriented entities as well as research institutions in the graphene sector and advanced materials.
- 5.2 The policy is applicable to product innovators in graphene & other 2D materials and its composite technology associated with all sectors.
- 5.3 The policy is applicable to entities incubated & working on 2D materials.
- 5.4 The policy is also applicable to entities doing R&D work in the area of Graphene that are suitable for mass production.

- 5.5 The policy is applicable for setting up units for manufacturing High-end Graphene sheets and other Graphene products.

## **Vision, Mission, and Objectives**

### **6 Vision**

- 6.1 **Vision:** "Empowering Innovation, Sustainability, and Global Collaboration: To establish a dynamic policy framework for establishing a responsible ecosystem fostering ground-breaking research, effective commercialization, and international partnerships. By prioritizing education, environmental consciousness, responsible investments, responsible industry and ethical considerations, policy aims to unlock the full potential of graphene for the benefit of humanity while ensuring a resilient and adaptive approach to the challenges and opportunities it presents."
- 6.2 Kerala, a State with abundant natural resources, skilled workforce, and a rich cultural heritage, aims to become a prominent player in the global Graphene scenario. This Graphene Policy aims to achieve the said goal by leveraging Kerala's unique strengths, fostering innovation, promoting sustainable practices, creating an enabling ecosystem, and supporting growth and diversification.

### **7 Mission**

- 7.1 **Mission:** "To champion the responsible development, widespread adoption, and effective commercialization of graphene-based technologies. This will guide research, set safety standards, and facilitate collaboration, with a primary goal of fostering innovation and sustainable commercial production. The policy's commitment extends to promoting responsible investment practices and cultivating an industry characterized by ethical standards and social responsibility. The policy aims to position graphene as a transformative force, ensuring its responsible integration into various industries. Through this, the policy strives to contribute to societal well-being, environmental sustainability, and equitable access to the benefits of graphene technology."

## 8 Objectives

- 8.1 The Kerala Graphene Policy outlines several objectives aimed at promoting and supporting the research, development, and industrial application of Graphene and related materials (GRM) in the State. These objectives are designed to create a conducive environment for the growth of the Graphene sector and leverage Kerala's inherent strengths in this field thereby promoting innovation, and commercialization. The key objectives of the policy are categorised as below:

### 8.1.1 Utilisation of Existing, and Creation of New Infrastructure for Sustainable Practices:

- Invest in research and development of sustainable production methods for Graphene, supporting innovations that reduce energy consumption, waste generation, and environmental pollution.
- Establish green infrastructure incentives, encouraging companies to adopt energy-efficient technologies and sustainable building practices within their Graphene manufacturing facilities.
- Promote the use of renewable energy sources in Graphene production processes, contributing to the overall reduction of the carbon footprint associated with the industry.

Establishing common facility centres emerges as a cornerstone initiative aimed at creating access to essential infrastructure and expertise, thereby levelling the playing field for diverse stakeholders. By centralizing resources and expertise, these centres not only promote cost-efficiency and resource optimization but also catalyze synergistic partnerships and knowledge exchange among academia, industry, and government entities.

### 8.1.2 Creation of an Enabling Start-up Ecosystem:

- Design and establish state-of-the-art incubation facilities equipped with advanced laboratories, mentorship programs, and access to funding networks to support the development and growth of Graphene-focused start-ups.

- Foster a collaborative ecosystem within incubation centres by encouraging interactions between start-ups, established companies, and research institutions, creating a synergistic environment for innovation.
- Implement targeted outreach programs to identify and support promising entrepreneurs in the Graphene sector, ensuring inclusivity and diversity within the start-up landscape.

#### **8.1.3 Support for Research & Development:**

- Institute a tiered incentive system that recognizes and rewards significant contributions to Graphene innovation, including financial incentives, recognition, and opportunities for collaboration with industry leaders.
- Showcase success stories of Graphene R&D players through promotional campaigns and industry events to inspire and motivate aspiring entrepreneurs and researchers.
- Establish a responsive feedback mechanism to continuously adapt and enhance the policy based on the evolving needs and challenges of the Graphene ecosystem, ensuring its long-term relevance and effectiveness.

#### **8.1.4 Ensuring Technology Support and Global Partnerships:**

- Develop strategies to integrate Kerala's Graphene sector into the global market by fostering international collaborations, participating in trade missions, and promoting the state as a hub for Graphene innovation and production.
- Foster international collaboration to share best practices, harmonize standards, and address global challenges associated with graphene technology.
- Establish partnerships with global industry associations and research organizations to leverage expertise and market networks, enhancing the visibility and competitiveness of Kerala's Graphene businesses on the world stage.

### **8.1.5 Ensuring Consultancy Services, Marketing and Commercialisation Support:**

- Establish a dedicated consultancy hub staffed by experts in Graphene technology to provide tailored advice to address challenges related to process optimization, product development, and market positioning.
- Facilitate knowledge-sharing platforms, such as industry forums and networking events, to connect industrial units with experienced mentors and potential collaborators.
- Implement a mentorship program where established companies in the Graphene sector mentor industrial units, fostering a collaborative ecosystem that supports the growth of small businesses.
- Facilitate technology transfer and commercialization by establishing linkages between research institutions, start-ups, and established companies, streamlining the process for converting research outcomes into market-ready products.
- Create a dedicated fund to support the scale-up of promising Graphene technologies from the laboratory to commercial production, ensuring that breakthroughs are effectively translated into viable business ventures.
- Provide targeted support for market research, intellectual property strategy, and regulatory compliance to assist companies in navigating the complexities of bringing Graphene products to market.

### **8.1.6 Facilitating Industry Academia Linkage**

- Institutionalize collaborative frameworks between academia and industry, fostering a seamless exchange of knowledge and expertise.
- Establish joint initiatives and research projects, supported by dedicated funding, to ensure the practical application of graphene research.

### **8.1.7 Support for Intellectual Property Creation:**

- Institute a streamlined process for the registration and protection of intellectual property related to Graphene innovations, reducing any kind of hurdles for companies and researchers.

- Organize innovation challenges and competitions to stimulate the creation of novel Graphene-based technologies and solutions, fostering a culture of continuous innovation.
- The Intellectual Property Rights Information Centre–Kerala (IPRIC-K), under the Kerala State Council for Science, Technology and Environment (KSCSTE), functions as the State’s nodal agency for Intellectual Property Rights–related services and has been facilitating the filing and protection of intellectual property generated within the State. Accordingly, the support mechanisms under the policy will be provided by IPRIC-K.
- The ownership, licensing, and usage rights of intellectual property generated with support under this Policy shall be explicitly defined, with appropriate Government usage rights, through specific provisions as defined under prevailing Government Orders / Regulations, and being modified from time to time.

#### **8.1.8 Creation of an Ecosystem for Training and Skill Development:**

- Establish training centre in Graphene technology in the State
- Develop curriculum for the training centre that covers the entire spectrum of Graphene technology, from synthesis and characterization to industrial applications and commercialization.
- Collaborate with leading experts in the field to design specialized training programs, workshops, and certification courses, ensuring that professionals acquire practical skills aligned with industry needs.
- Establish partnerships with educational institutions to integrate Graphene-related courses into existing academic programs, promoting a pipeline of skilled graduates entering the workforce.
- Leveraging the institutional expertise of ASAP Kerala in establishing and operationalising Centres of Excellence (CoEs) and structured, outcome-oriented training frameworks to support effective policy implementation and capacity building.
- Promoting Graphene Clubs in higher education institutions to strengthen research and industry linkages, while facilitating industrial investment and sustainable employment generation in the State.



- By strategically adapting programmes, leveraging the NSQF framework, and implementing policies in collaboration with key partners, the initiative can play a pivotal role in positioning Kerala as a national leader in graphene technology, innovation, and advanced manufacturing.

#### **8.1.9 Encourage Environmental Improvement and Carbon Footprint Reduction:**

- Encourage the adoption of green and sustainable practices within the Graphene sector by providing incentives for entities committed to reducing their carbon footprint.
- Promote research on environmentally friendly production methods for Graphene and incentivize the implementation of eco-conscious technologies in manufacturing processes.
- Collaborate with environmental organizations and regulatory bodies to ensure that Graphene-related activities align with the state's sustainability goals, contributing to a cleaner and greener industrial landscape.
- Implement sustainability standards for Graphene production and usage, encouraging businesses to adopt eco-friendly practices that align with global environmental goals.
- Integrate circular economy principles into the Graphene ecosystem, promoting the recycling and responsible disposal of Graphene materials to minimize environmental impact.
- Collaborate with educational institutions to incorporate sustainability-focused modules into Graphene-related courses, ensuring that the next generation of professionals is well-versed in sustainable practices.
- Institutionalise environmental sustainability in the graphene ecosystem through the adoption of quantifiable, time-bound targets for carbon emission reduction, energy efficiency improvement, waste minimisation, water-use optimisation, and recycling, supported by mandatory **lifecycle assessments (LCAs)** for all graphene products to address environmental impacts across the entire value chain.

- Promote a **low-carbon and circular graphene economy** by enabling access to the Indian Carbon Market (ICM) and international voluntary carbon markets, mandating product take-back and recycling systems supported by state-led recycling infrastructure, incentivising closed-loop production processes, and ensuring a progressive transition towards renewable energy use in graphene manufacturing through regulatory measures and targeted incentives.

#### **8.1.10 Policy Measures for Financial Support and Economic Incentives**

- Institute targeted financial incentives and subsidies to stimulate growth in graphene-focused enterprises.
- Formulate policies that encourage the incorporation of graphene in various industries, thereby fostering economic development and innovation.

### **Institutional and Incentive Framework**

## **9 Institutional Framework**

- 9.1 To drive sustained development within the Graphene ecosystem, a Nodal Agency, namely, Kerala Graphene Industrial Development Council will be established under the leadership of preferably the Industries Department with representation from various state government departments or centres or institutional stakeholders representing the industrialisation tiers of Graphene Ecosystem development model. This agency, aided / supported by global and national Graphene industry experts, will function as the State Nodal Agency to ensure effective implementation of activities, schemes, and guidelines outlined in the State Graphene Policy. The key responsibilities of the agency include:
- Formulation of a comprehensive long-term implementation strategy for the Graphene ecosystem in collaboration with State and Central Government ministries, departments, agencies, industry stakeholders, and academia.

- The expansion of the graphene sector in the state can be supported by encouraging collaboration with research and development institutes from both the state and central governments, as well as other mechanisms that provide assistance to start-ups in their early stages.
- Promotion and facilitation of indigenous Intellectual Property (IP) generation, along with encouragement, enablement, and incentivization of Technology Transfer (ToT).
- Facilitation of collaborations and partnership programs with national and international agencies, industries, and institutions to drive collaborative research, commercialization efforts, and skill development.
- Conducting technical and financial appraisals of applications / proposals from potential entities seeking to establish Graphene-based R&D and manufacturing facilities in the State, as outlined in the policy. This includes recommending the selection of applicants and undertaking other responsibilities assigned by the State / Central Government as needed.
- Issuance of Supplementary Guidelines and policy amendments, as necessary, with the approval of the State Government to ensure the smooth implementation of schemes under the Policy.

## **10 Incentives**

**10.1** The following incentives will be a comprehensive framework to provide various assistance towards promoting graphene sector and graphene ecosystem in the State. The incentives under the scheme detailed as below will not be exhaustive, as also shall be over and above the benefits as elaborated under the strategy, vision, mission etc. herein, the State Industrial Policies being notified from time to time and is bound to be enhanced from time to time as per the prevailing Government schemes:

### **10.1.1 Fiscal Incentives**

All the incentives as detailed below as per the Kerala Industrial Policy 2023 will be made applicable, as the graphene sector is an identified priority sector:

Sl. No.	Incentive Category	Project Category	Description
1	Low-interest loans	MSME	Loan @ 4% interest subject to a maximum of Rs. 10 Lakh (via interest subvention up to 6%)
2	Capital subsidy incentive for MSMEs	MSME	<ul style="list-style-type: none"> <li>— Micro – up to 45%, subject to a maximum of Rs. 40 Lakh</li> <li>— Small – up to 45%, subject to a maximum of Rs. 100 Lakh</li> <li>— Medium – up to 45%, subject to a maximum of Rs. 200 Lakh</li> </ul>
3	Electricity Duty Exemption	MSME	100% exemption for 5 years
4	Access to finance through IPO route	MSME	Reimbursement of 50% expenses subject to a maximum of Rs. 1 Cr., incurred on floating public issues through the SME platform of NSE & BSE, provided the funds thus raised are utilized for setting up/ expanding enterprise in the State.
5	Investment subsidy	Large, Mega	Investment subsidy of 10% on fixed capital investment, subject to a maximum of Rs. 10 Cr., in phases.
6	SGST Reimbursement	Large, Mega	100% reimbursement on capital investment for 5 years.
7	Employment Enhancer Incentive	Large, Mega	<ul style="list-style-type: none"> <li>— When 50% of permanent jobs are filled from local population, an amount equivalent to 25% of the monthly wages of each additional employment thus created, subject to a maximum of Rs.5000/- per month per person, shall be reimbursed to the employer, for one year.</li> <li>— When more than 50% of permanent employees are women, an amount equivalent to 25% of the monthly wages of each additional employment thus created, subject to a maximum of Rs.5000/- per month per woman employee, shall be reimbursed to the employer, for one year.</li> </ul>

Sl. No.	Incentive Category	Project Category	Description
			– When permanent employment is provided to transgenders of the State, reimbursement will be provided to the employer for one year, at the rate of Rs.7500/- per month per transgender employee.
8	Waiver of Stamp Duty & Registration charges for manufacturing units	All Category	<p>– Up to 100% on lease deed/ purchase of land/ building for setting up manufacturing unit in Government Industrial Parks and notified Private Industrial Parks.</p> <p>– For Women, SC/ST, PH &amp; Transgender entrepreneurs – Up to 100% on lease deed/ purchase of land/ building for setting up manufacturing unit anywhere in the State.</p>
9	Private Industrial Estates	All Category	Funding support upto Rs.3 Cr. for infrastructure development.
10	Incentive for participation in trade fairs	All Category	Reimbursement up to 100% of the stall charges incurred, subject to a maximum of Rs. 5 Lakh for participating in one domestic and one international fair/ exhibition per annum
11	Intellectual Property creation	All Category	Reimbursement of 50% of the expenditure incurred, subject to a maximum of Rs. 30 Lakh, for a patent, copyright, trademarks, GI registration, etc.
12	Quality certification incentive	All Category	Refund of expenses incurred for compulsory marking like CE, FDA, ISO, BIS, etc., to the extent of 50% of expenses, subject to a maximum of Rs. 25 Lakh per unit per annum.
13	Incentives for sustainability and responsible industrialization	All Category	Reimbursement of 25% of expenses incurred for the purchase of Plant & Machinery/equipment for setting up ETP, installations for substitution of power from the grid, rainwater harvesting, Zero Discharge technologies, recycling of e-

Sl. No.	Incentive Category	Project Category	Description
			waste and recycling of wastewater, conducting audits for energy and water conservation & purchase of material for such conservation, excluding the expenditure incurred for civil works, subject to a maximum of Rs.25 Lakh during the policy period.
14	IR 4.0 initiatives in manufacturing	All Category	20% reimbursement of the cost of software (big data analytic tools), machinery, etc., subject to a maximum of Rs. 25 Lakh/unit during the policy period.
15	R&D Incentive	All Category	Funding of 20% of R&D cost for units engaged in R&D with Universities in the State, subject to a maximum of Rs. 1 Cr. per unit.
16	Scale up incentive for Startups	All Category	KSIDC shall provide scale-up loans up to Rs. 1 Cr. to Startups in the State.
17	Made in Kerala (Branding & Marketing)	All Category	Reimbursement of 50% of the cost incurred in obtaining 'Made in Kerala' certification.
18	Special Package to attract PLI Investors	All category units in the Manufacturing Sector	A one-time top-up incentive of 20% of the fixed capital investment, subject to a maximum of Rs 1 Crore, shall be provided for industrial units set up in the State by investors shortlisted under the PLI schemes of the Central Government. Such a top-up incentive is in addition to other subsidies admissible to the said enterprises.

The High-Power Committee chaired by the Chief Secretary, constituted by Government, for considering the proposals / applications to provide incentives declared in the Industrial Policy 2023, to large, mega and ultra-mega projects of special importance, on a case-to-case basis, will be made applicable for the Graphene sector as well.

### 10.1.2 Additional Fiscal Incentives

- a) For Graphene based entities being setup in the notified Industrial Parks of the State, land will be offered at 50% discounted rate, subject to condition that the discount will be recovered in case of request for purpose change or transfer to other investor, and payment for land will be allowed to be remitted in five (5) staggered installments.
- b) For Graphene based entities in the State, an incentive limited to a **maximum of 5 apprentices per eligible graphene-based company per financial year**, with **each apprentice eligible for reimbursement up to ₹10,000 per month** for a period **not exceeding 12 months** shall be provided. A maximum of **25 companies** shall be supported under this scheme **annually**, subject to a total reimbursement cap of **₹ 6,00,000 per company for one year**.

## 11 Validity of the Policy

- 11.1 The Graphene Policy comprising provisions relating to support being provided to entities in the Graphene sector in the State, shall come into force with effect from April 2026 and shall continue to be in operation unless otherwise specified or amended.

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