GREEN PAKISTAN EXPO

BY SUTHRA PUNJAB

JOURNAL 2026



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Note *From the* CEO



Pakistan's industrial growth and sustainable future depend on innovation, collaboration and shared knowledge. Through PRS and Green Pakistan Expo (GPE), we aim to create platforms that connect industries, encourage innovation and drive progress.

PRS (Plastics, Rubber & Sealants Expo) brings together manufacturers, suppliers and industry professionals to showcase the latest materials, machinery and technologies, creating valuable business opportunities and industry connections.

Green Pakistan Expo (GPE), in collaboration with Suthra Punjab, promotes sustainability through advanced waste management, recycling and waste-to-value solutions, bringing government, industry and development partners together for a cleaner Pakistan.

We sincerely thank our partners, associations, exhibitors and the **B2B Media** team for their continued support. We invite businesses and professionals to join us in building a stronger, more competitive and sustainable Pakistan.

Connecting Business, Driving Sustainability, Building a Greener Pakistan.

Moazzam Rasheed

Meet Behind The TEAM



CHAIRMAN
Moazzam Rasheed



BUSINESS MANAGER
Madiha Nonari



R&D MANAGER
Sarah Mahmood



PROJECT MANAGER
Junaid Roshan



SALES EXECUTIVE
M. Bilal Khan



SALES EXECUTIVE
M. Shahwaiz Khan



MARKETING MANAGER
Fatima Ali



GRAPHIC DESIGNER
Kinza Sultan



GRAPHIC DESIGNER
Shanza Javed

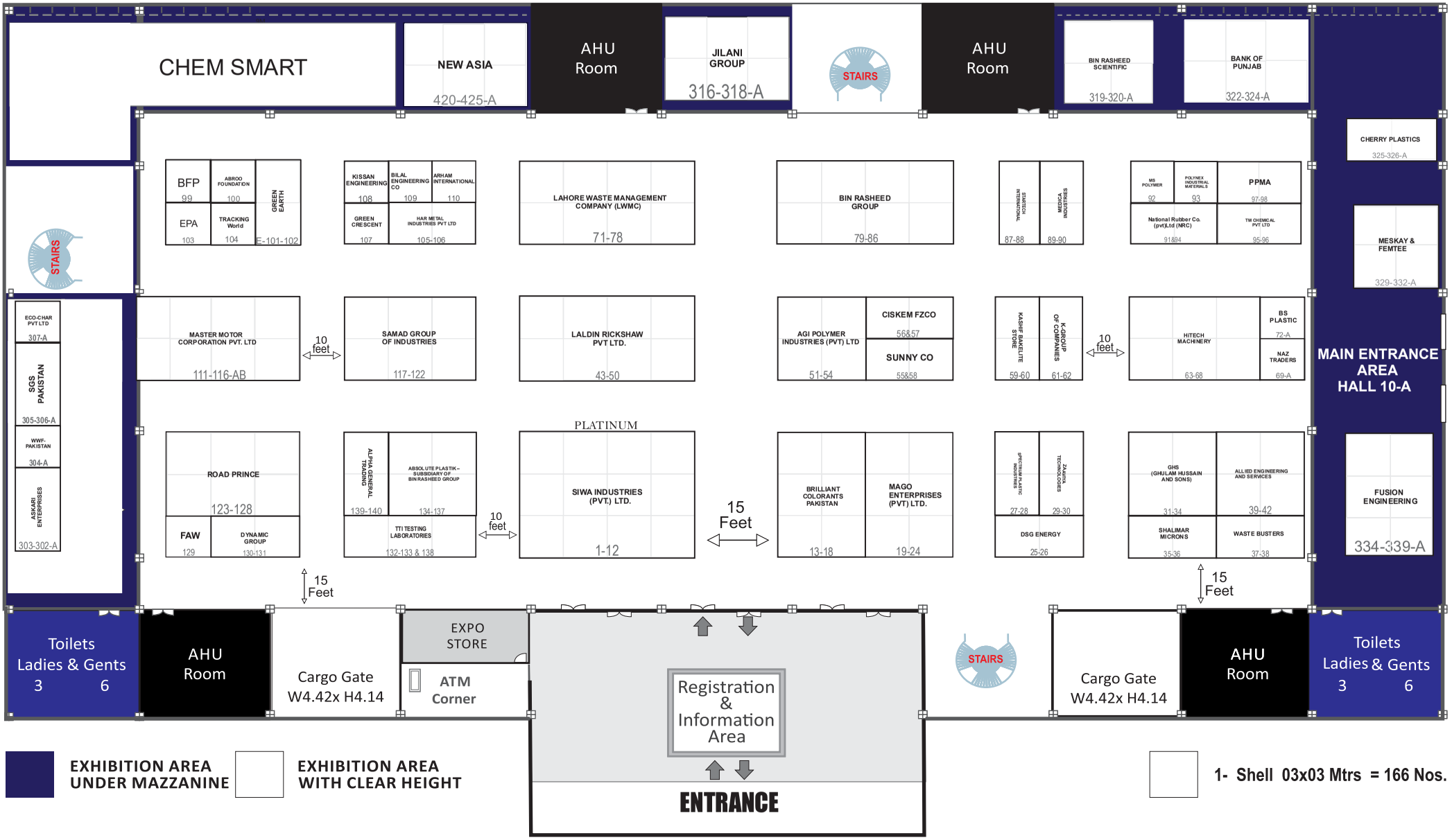
مریم نواز کا پنجاب
ستھرا پنجاب

CLEAN LAHORE
Labore Waste Management Company

26-28 NOVEMBER 2026
INTERNATIONAL EXPO CENTER LAHORE

GREEN PAKISTAN EXPO
By Suthra Punjab

PLASTICS, RUBBER & SEALANTS PAKISTAN



EXHIBITION AREA UNDER MAZZANINE

EXHIBITION AREA WITH CLEAR HEIGHT

1- Shell 03x03 Mtrs = 166 Nos.

GREEN PAKISTAN EXPO

مریم نواز کا پنجاب
ستھرا پنجاب

PANEL DISCUSSION

NOV 2026 26 27 28

International Expo Centre Lahore

TOPIC

Polymer Manufacturing & Recycling: Advancing Food-Grade and Industrial Plastic Recycling

PANELIST



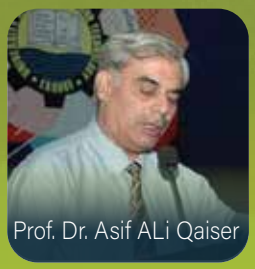
Prof. Dr. Shahzad Maqsood Khan
University of the Punjab, Lahore, Pakistan



ZIA HYDER NAQI
SPEL Limited



Syed Zain Abbas Naqvi
Rigid Plastic Packaging Manufacturing
GRACE IMPEX (SMC-Pvt.) LIMITED



Prof. Dr. Asif ALi Qaiser
UET Lahore



Azmat Naz
EPA Punjab

26 NOV 2026 | 12:30PM - 1:30PM

GREEN PAKISTAN EXPO

مریم نواز کا پنجاب
ستھرا پنجاب

PANEL DISCUSSION

NOV 2026 26 27 28

International Expo Centre Lahore

TOPIC

The Clean-Tech Waste Wave; Preventing the Next Toxic Wave: Regulating Solar, EV Battery and E-Waste Recycling Loops

PANELIST



Bahria University Islamabad



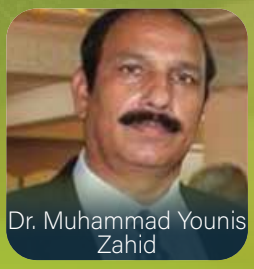
EPA Punjab



Alternative Energy



COMSATS University Islamabad, Lahore Campus



A.T Waste Management / Ex -Director EPA

26 NOV 2026 | 3:30PM - 4:30PM

GREEN PAKISTAN EXPO

مریم نواز کا پنجاب
ستھرا پنجاب

PANEL DISCUSSION

NOV 2026 26 27 28

International Expo Centre Lahore

TOPIC

The Multi-Layer Packaging Challenge: Unlocking Coordinated Collection, Commercial Upcycling, and Biodiversity Conservation

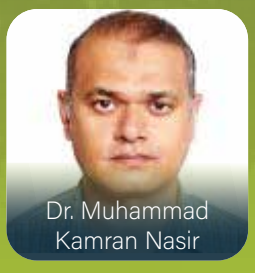
PANELIST



Faizan Elahi
LWMC



Khalid Mahmood
International Packaging Films Limited (IPAK)



Dr. Muhammad Kamran Nasir
LWMC



Prof. Dr. Arifa Tahir
Lahore College for Women University



Sahib Alam Khan
WWF-Pakistan

27 NOV 2026 | 11:15AM - 12:15PM

GREEN
PAKISTAN EXPO

مریم نواز کا پنجاب
ستھرا پنجاب

PANEL DISCUSSION

NOV 2026 26 27 28

International Expo Centre Lahore

TOPIC

The Carbon Border Tax (CBAM) Crisis: Pakistan's Industrial Future and Export Competitiveness.

PANELIST



SGS Pakistan



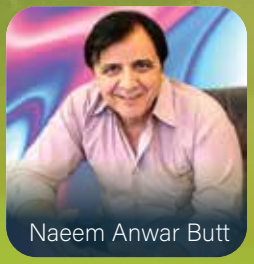
Punjab Financial Advisory Services



Diamond Fabrics Limited (Sapphire Group)



Comsats University Islamabad, Lahore



TTI Testing Laboratories

27 NOV 2026 | 3:30PM - 4:30PM

Conferences & Seminars

مریم نواز کا پنجاب
ستھرا پنجاب

CONFERENCES & SEMINARS

GREEN PAKISTAN EXPO

BY SUTHRA PUNJAB

26 27 28 NOV 2026

AT INTERNATIONAL EXPO CENTRE LAHORE PAKISTAN

HALL 10 - A

THURSDAY, 26th NOV 2026 | FRIDAY, 27TH NOV 2026 | SATURDAY, 28TH NOV 2026

ORGANISED BY: B2B MEDIA (Pvt.) Ltd. | PAKISTAN CHEMISTRY COUNCIL | CLEAN LAHORE | GREEN PAKISTAN EXPO | PLASTICS, RUBBER & SEALANTS PAKISTAN

FOR INQUIRY

Business Manager: Madiha Nonari +92-311-3998000 | nonari@b2bmedia.pk
Project Manager: Sarah Mahmood +92-348-0850935 | sarah@b2bmedia.pk

HALL 10-A

26th November, 2026

Time Slot	Speaker & Presenting Company/Institute	Topic of Presentation	
11:00 Am to 11:30 Am	Engr. Safyan Jamil ESG & Sustainability International Packaging Films Limited (IPAK Group)	Building an IFRS S1 & S2-Compliant Reporting System	
02:00 Pm to 02:30 Pm	M. Shoaib Riaz Assistant Manager SGS Pakistan Private Limited Industries & Environment	Environmental Impact Assessment (EIA) Best Practices: Harmonizing EPA Compliance across Punjab's Special Economic Zones (SEZs).	
2:45 Pm to 3:15 Pm	Ali Amjad Manager Freshwater WWF Pakistan	Industrial Water Recycling, Water Stewardship & Resource Assessment	
4:15 Pm to 5:15 Pm	Prof. Dr. Shahzad Maqsood Khan Professor & Director Institute of Polymer and Textile Engineering, University of the Punjab, Lahore, Pakistan	Waste Valorization: Transforming Waste into Valuable Products	

27th November, 2026

Time Slot			
10:30 Am to 11:00 Am	Arjmand Qayyum Amjad Sr. Manager Environmental Footprint Freshwater WWF-Pakistán	Eco based Adaptation and Nature Based Solutions to Address Shared Water Challenges	
2:00 Pm to 2:30 Pm	Dr. Mehwish Anis Director /Head of Department Institute of Environmental Engineering and Research UET, Lahore	Methane or Money? Circular Economy Pathways for Municipal Organic Waste in Pakistan	
2:45 Pm to 3:15 Pm	Adil Daniel Manager- Value Chain Engagement Food and Agriculture Programme WWF-Pakistan	Save Food, Secure Futures: Innovate Today, Nourish Tomorrow	
4:45 Pm to 5:15 Pm	Dr. Muhammad Younis Zahid Head: HSE & Sustainability A.T Waste Management Ex -Director EPA	Integrated Waste Management Ensuring Sustainability & Circular Economy System	

HALL 10-A

28th November, 2026

Time Slot	Speaker & Presenting Company/Institute	Topic of Presentation	
10:30 Am to 11:00 Am	Prof. Dr. Farhan Saeed Professor UET, Lahore Polymer and Process Engineering	Future industrial landscape of rubbers and sealants in Pakistan	
11:15 Am to 11:45 Am	Dr. Sidra Saleemi Assistant Professor Institute of Polymer and Textile Engineering University of the Punjab	Nano-coating of Cotton Fabrics for Enhanced Hydrophobic Oleophilic Performance	
12:00 Pm to 12:30 Pm	Prof. Dr. Asif ALi Qaiser Chairman Polymer and Process Engineering UET Lahore	Recycling and Upcycling: Two Powerful Tools of Polymer Circularity	
12:45 Pm to 1:15 Pm	Engr. Khalid Mehmood Manager, Sales & Trainings Kubota Meskay & Femtee Trading Company (Pvt.) Ltd.	Sustainable Agriculture	

Prayers & Lunch Break

Time Slot	Speaker & Presenting Company/Institute	Topic of Presentation	
2:00 Pm to 2:30 Pm	Wali Khanani Operations Director Management TGA Sustainability PVT Ltd	Future of Plastic Recycling in Pakistan	
3:00 Pm to 3:30 Pm	Dr. Mohammad Hassaan Khan Director Sustainability Sustainability Business and Finance People	Significance of ESG reporting for global impact	
3:45 Pm to 4:15 Pm	Dr. Muhammad Faheem Associate Professor Chemical Engineering UET, Lahore	Sustainable Chemical Processes: Opportunities and Challenges	
4:30 Pm to 5:00 Pm	Naeem Anwar Butt Executive Director Environment and Sustainability Tti Testing Laboratories Environment and Sustainability Department	Unpacking PPWR: A New Chapter for Textile & Apparel Exporters	

CHEMSMART

GREEN PAKISTAN EXPO

مریم نواز کا پنجاب

ستھرا پنجاب

WHERE INNOVATION MEETS SUSTAINABILITY

NOV 2026 26 27 28

International Expo Centre Lahore



INTRODUCTION

Showcase your innovative final-year projects at Green Pakistan Expo 2026 and turn your ideas into sustainable solutions for a greener future.

THEME

Empowering young innovators to drive sustainability through carbon credits, emissions reduction, circular economy, recycling, renewable energy, and cleaner mobility.

BENEFITS

- Showcase Your Final-year Projects
- Connect with Industry Leaders & Experts
- Explore Green Career Opportunities
- Promote Innovation & Sustainable Solutions
- Turn Ideas Into Real-world Impact

FOR BOOKING

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CLEAN LAHORE

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THE UNIVERSITY OF LAHORE

LUMS

GREEN
PAKISTAN EXPO

ONE PLATFORM. ONE MISSION. A GREENER PAKISTAN

GREEN PAKISTAN EXPO

GPE 2026



CLEAN ENERGY & SUSTAINABLE MOBILITY

Promoting renewable energy, energy efficiency, and cleaner transportation solutions.

WASTE MANAGEMENT & CIRCULAR ECONOMY

Converting waste into resources through smart recycling.

GREEN INDUSTRY & SUSTAINABLE INNOVATION

Advancing cleaner, resource-efficient industrial manufacturing.

ENVIRONMENTAL SOLUTIONS & CLIMATE SERVICES

Expertise in environmental compliance and climate action.

SUSTAINABILITY PARTNERSHIPS & GREEN FINANCE

Connecting institutions and investors to drive sustainable projects.



SUSTAINABLE FIRE-RETARDANT COATINGS

Protecting Infrastructure and Supporting Clean Technology

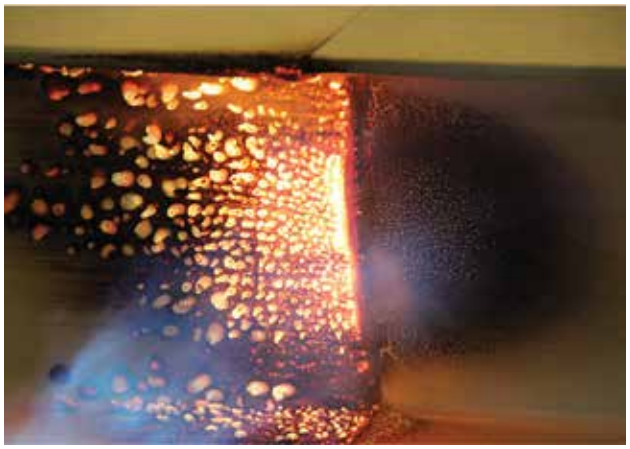
Introduction

ire safety is a growing concern in buildings, manufacturing facilities, and energy infrastructure. Fire-retardant coatings offer apractical way to delay ignition, reduce flame spread, or slow heat transfer while preserving the function of the protected component. Advances in polymer science are now driving the development of coatings that combine reliable fire performance with lower environmental impact.



How intumescent coatings work

Intumescent coatings expand when exposed to high temperatures, forming a thick, porous char that insulates the underlying surface. Many formulations use an acid source such as ammonium polyphosphate (APP), a carbon source, and a blowing agent such as melamine, together with polymer binder and other additives. Performance depends on formulation, coating thickness, adhesion, substrate type, and the conditions of exposure.



Sustainable formulation and applications

Research is exploring waterborne binders, halogen-free additives, bio-based ingredients such as lignin and phytic acid, and mineral or carbon-based fillers. These options may reduce selected environmental burdens, but sustainability must be verified for each complete formulation rather than assumed from a single ingredient. In construction, intumescent coatings can delay the heating of structural steel and help maintain load-bearing capacity for a specified period when tested and applied as part of

approved system. Other tailored coatings may be suitable for wood, concrete, polymer components, electrical enclosures, and industrial equipment.



Relevance to clean technology and circular economy

Renewable-energy installations and battery storage facilities create additional fire-safety challenges. Coatings may protect selected structures and enclosures, but they are only one element of a broader safety strategy; they cannot independently prevent lithiumion battery thermal runaway. Durable coatings may also extend component service life and reduce premature replacement. The use of renewable feedstocks, recovered fillers, lower-VOC systems, and efficient application processes offers further opportunities to support resource efficiency. Life-cycle assessment and chemical hazard evaluation are needed to substantiate environmental claims

Testing and industrial implementation

A promising laboratory formulation must be evaluated for fire behaviour, adhesion, thermal stability, weathering, and mechanical durability. Techniques such as thermogravimetric analysis (TGA), differential scanning calorimetry (DSC), cone calorimetry, and substrate-appropriate fire-resistance testing can support development. LOI and UL 94 are relevant to certain plastic-material evaluations but do not, by themselves, establish a structural fire-resistance rating. The applicable test and certification route must match the intended end use.

Emerging Trends and Bio-Based Innovations

As regulatory stringency surrounding volatile organic compound (VOC) emissions and hazardous chemical disclosures increases globally, recent research is actively focusing on bio-inspired and nanostructured additives. Binders incorporating cross-linked natural biopolymers, alongside nanocellulose and graphene-based nanoplatelets, show significant potential in improving char density and thermal barrier performance. These advanced hybrid formulations enhance mechanical durability under extreme thermal stress while noticeably reducing toxic gas evolution and smoke density during combustion.

Regulatory Frameworks and Standardized Testing

Navigating rigorous international regulatory frameworks is another crucial requirement for industrial integration. Beyond laboratory-scale validation, commercial coatings must meet standardized certifications—such as EN 13381, ASTM E119, or UL 263—to verify real-world structural protection times under full-scale cellulosic or hydrocarbon fire exposure curves. Aligning local manufacturing and testing protocols with internationally recognized standards enables emerging regional markets to maintain high safety benchmarks while facilitating export opportunities and international technical collaboration.

Conclusion

Sustainable fire-retardant coatings can help improve fire protection across construction and industry while supporting progress toward more responsible materials. The key challenge is to balance fire performance, durability, cost, manufacturability, and environmental impact. For Pakistan, collaboration among universities, coating manufacturers, construction firms, and accredited testing laboratories could strengthen local product development and help translate research into safer, commercially viable solutions.



FROM WASTE TO VALUE

Advancing a Circular Economy for Plastics

Introduction

Plastics are essential to packaging, construction, healthcare, transport, and consumer products because they are lightweight, durable, and versatile. However, poor collection and disposal systems can allow plastic waste to accumulate in landfills and the natural environment. A circular economy offers a practical alternative: reduce unnecessary material use, design products for recovery, and keep plastics in productive use for as long as possible.

Why circularity matters

Plastic waste is not only an environmental challenge; it also represents lost material and economic value. Mixed waste, food contamination, complex multi-layer packaging, and inconsistent sorting can make recycling difficult. Improving collection and source segregation is therefore as important as developing new recycling technologies. Recycling works best when products are designed with realistic end-of-life routes in mind.

Recycling technologies and industrial opportunities

Mechanical recycling—sorting, washing, shredding, melting, and reprocessing—is widely used for suitable thermoplastics. With effective quality control, recycled polymers can be used in selected packaging, pipes, construction products, household goods, and polymer compounds. Performance depends on polymer type, contamination, degradation, and the intended application. Chemical recycling methods, including depolymerization and pyrolysis, may offer options for certain difficult waste streams, but their environmental and economic performance varies with feedstock, process design, energy use, and product quality.



Designing better products

Circularity begins before a product becomes waste. Manufacturers can simplify material combinations, improve recyclability, reduce unnecessary packaging, and consider recycled content where technical and regulatory requirements allow. Additives, pigments, inks, adhesives, and barrier layers should be selected with end-of-life processing in mind.

Product safety and performance must remain central, particularly in food-contact, medical, and other regulated applications.



Benefits for Pakistan

A stronger recycling ecosystem could support local manufacturing, reduce demand for selected virgin materials, create jobs in collection and processing, and encourage innovation in polymer compounds and products. Practical priorities include reliable waste sorting, investment in washing and recycling facilities, consistent material-quality standards, stronger links between waste collectors and manufacturers, and public awareness. Universities and industry can collaborate on testing recycled materials, improving processing methods, and identifying applications where recycled polymers meet required specifications.

Policy & Regulatory Frameworks for Scalable Circularity

To transition from conventional waste management to a robust circular economy, clear policy incentives and legal frameworks are essential. Implementing Extended Producer Responsibility (EPR) regulations can obligate manufacturers to share the responsibility of post-consumer plastic collection and end-of-life management. Furthermore, standardization of recycled resin quality, introduction of green procurement mandates by government bodies, and tax incentives for industries adopting recycled polymers can lower financial barriers. Aligning local regulations with international sustainability targets will encourage investment in modern recycling infrastructure and foster trade opportunities for eco-certified plastic goods.

Technological Barriers & Quality Preservation

While circular models hold immense potential, technical constraints such as thermal degradation during reprocessing and color contamination remain significant hurdles. Mechanical recycling often leads to a reduction in polymer chain length, diminishing mechanical strength over multiple cycles. To overcome these limitations, research must focus on compatibilizers, chain extenders, and bio-based additives that restore structural integrity to reprocessed plastics. Integrating smart sorting technologies, such as automated NIR (Near-Infrared) optical sorters, can dramatically reduce contamination rates and optimize feedstock quality prior to extrusion.

Integrating the Informal Sector into Pakistan's Waste Ecosystem

A critical factor for circularity in Pakistan lies in formalizing and upgrading the informal waste pickers and scrap dealers (kabaris) who currently handle the bulk of plastic collection. Integrating these grassroots workers through micro-financing, health and safety training, and cooperative structures can improve collection efficiency while promoting social equity. By bridging the gap between informal waste collectors and organized industrial recyclers, Pakistan can build a more resilient, inclusive, and traceable supply chain for post-consumer plastic waste.

Conclusion

Managing plastic waste effectively takes more than basic recycling. It requires a complete effort: preventing waste at the source, designing smarter products, encouraging reuse, and building reliable collection systems. For Pakistan, progress comes when resin producers, municipalities, recyclers, researchers, and government leaders work together. Bringing public and private sectors together makes it easier to adopt modern recycling technology, while simple campaigns help consumers build better habits. Moving toward a circular system does more than protect our environment—it opens doors for green exports and creates genuine economic value. By making this shift, Pakistan can turn a challenge into an opportunity for industrial innovation and economic stability. Ultimately, a circular model keeps valuable materials in use, conserves resources, and builds a resilient plastics industry.



SUSTAINABLE MANUFACTURING IN 2026

From Green Materials to Intelligent Circular Industry

Introduction

Sustainability is now a core driver of industrial competitiveness. With advances in materials, digital technologies and circular practices, industries can lower emissions, use resources more efficiently and create higher-value, durable products.

Key Takeaways

- Sustainable materials reduce resource use and emissions.
- Digital and AI tools make manufacturing cleaner and more efficient.
- Circularity goes beyond recycling to reduce, reuse, repair and remanufacture.
- Pakistan has strong opportunities in textiles, polymers, construction and battery value chains.

Materials Innovation for a Low-Carbon Industry



Bio-based & Recycled Polymers
Lower Emissions, Less Waste



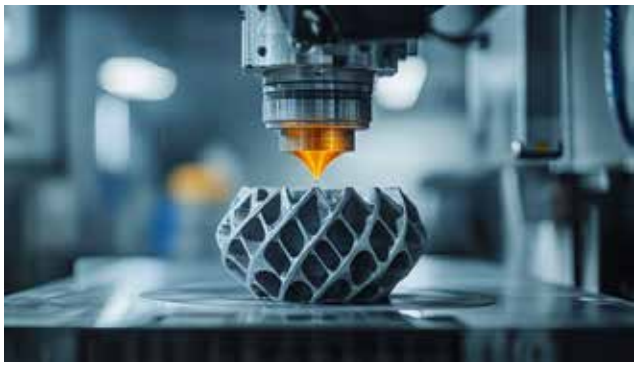
Circular Textiles
Recycled Fibres;
Water–Chemical Reduction



Low-Carbon Construction Materials
Blended Cements,
Recycled Aggregates,
Higher Durability



Battery Circularity
Recovery of Li, Ni, Co
and Reuse in New Batteries



Additive Manufacturing
Material-Efficient,
Customized and
Recyclable Products

Circular Manufacturing in Practice

A circular manufacturing system keeps materials and products in use for as long as possible. The approach moves beyond end-of-life recycling by prioritizing reduction, reuse, repair and remanufacturing, while recycling returns recovered material to production.



Digital & AI-Enabled Sustainability

Digital tools can connect real-time measurements with analytics and process models. The resulting feedback supports more efficient use of energy and water, lower waste, and improved control of manufacturing and wastewater processes.

- Real-time monitoring of energy, water and emissions.
- Digital twins for process and wastewater control.
- Data-driven resource efficiency and lower costs.

Opportunities for Pakistan



- Develop recycled and bio-based materials locally.
- Accelerate industrial electrification and energy efficiency.
- Build a circular textile value chain (reduce–reuse–recycle) with digital traceability.
- Promote low-carbon construction materials and durable infrastructure.
- Create battery and polymer recycling ecosystems for future green industries.

The Road Ahead



A more sustainable and circular industrial base can make Pakistan cleaner, more resource-secure and globally competitive. The way forward is to combine advanced materials, digital manufacturing, clean energy and supportive policies to build a resilient, low-carbon economy.



RECYCLE TODAY, SUSTAIN TOMORROW: LEADING THE CHANGE

An Initiative for Sustainability

Introduction

As the world is facing a number of challenges like climate change, global warming and resource scarcity, the implementation of circular economy model has emerged as a viable solution which is based on recycling. Waste valorization is increasingly vital for Pakistan, where plastics, textiles, rubbers, packaging, and ship scrap represent both environmental challenges and untapped economic opportunities. By adopting mechanical and chemical recycling, the country can reduce imports, create jobs, and establish itself as a hub for sustainable industries.

Waste valorization refers to the transformation of waste into valuable products, energy, or raw materials. In Pakistan, this concept has gained importance due to the country's reliance on imported polymers and textiles, alongside the massive waste streams generated by its industrial sectors. Plastics are a major concern, with millions of tons discarded annually. Valorization of plastic waste can reduce dependence on imported virgin polymers, while also addressing pollution. Similarly, Pakistan's textile industry, one of the largest globally, produces significant cotton, polyester, and blended fiber waste. Recycling these materials into regenerated fibers or composites strengthens the textile value chain and reduces environmental burdens.

The Polymer & Textile Waste Crisis

Recycling is a critical aspect of sustainable development. Polymers and textiles are leading materials, contributing as a major shareholder for waste production with a continuous increase in their share. Recycling polymers and textiles is not just an environmental necessity but also an economic opportunity. Polymers, primarily plastics, account for millions of tons of non-biodegradable waste annually, while textile waste results from unsustainable fast fashion and industrial overproduction. Recycling these commodities reduces landfill burden, curbs greenhouse gas emissions, and fosters innovative uses for discarded materials. Globally, polymer waste amounts to over 390 million tons annually, with only 10% effectively recycled. Similarly, the textile industry generates approximately 92 million tons of waste, of which less than 15% is recycled. Pakistan generates 49.6 million tons of solid waste annually of which about 3.3 million tons is plastic waste. If no action is taken, plastic waste could reach 12 million tons annually by 2040. Alarmingly, 70% of plastic waste is mismanaged, ending up in landfills without proper recycling or disposal. Only 19.2% of plastic is recycled in Pakistan, leading to significant environmental pollution across the country. Textile waste is also very alarming, with hundreds of thousands of tons generated annually, much of which ends up in landfills or is burned. Scaling up

recycling and waste-to-energy is essential to mitigate this challenge. Developing countries, including Pakistan, face heightened challenges due to inadequate waste management infrastructure.

Recycling Technologies & Material Recovery

For recycling we usually rely on mechanical and chemical recycling. Mechanical recycling involves shredding, washing, and remelting polymers, textiles, rubbers, and packaging into pellets, fibers, or sheets. This method is cost-effective and widely practiced, though it faces limitations due to contamination and property degradation. Chemical recycling, on the other hand, uses processes such as pyrolysis, depolymerization, or solvolysis to break polymers down into monomers or fuels. This enables recovery of high-purity raw materials, making it particularly valuable for mixed or contaminated waste streams like multilayer packaging and blended textiles. Together, these approaches provide a comprehensive toolkit for valorizing diverse waste streams.

Industrial Waste Valorization & Recycling

Valorization of waste streams from Gadani's ship-breaking industry—including scrap steel, plastics, rubbers, and insulation—can recover polymers and composites to minimize landfill use and hazards. Polymer recycling ventures such as mechanical plants for PET, HDPE, and PP, chemical depolymerization units (converting polyurethane to polyols or PET to polyester), and 3D printing filament production hold immense potential. Incorporating polyurethane, polystyrene, and fibers into lightweight, low-cost building blocks offers sustainable materials for the construction industry. In textiles, setting up fiber-to-fiber recycling plants and converting scraps into insulation materials can significantly reduce waste. Educational campaigns, research collaborations, and pilot programs are vital to ensuring these projects achieve scalability and economic viability.



Economic Potential of Waste Recycling

From a business perspective, waste valorization is a lucrative frontier that can generate hundreds of millions for Pakistan while boosting GDP and cutting carbon emissions. Replacing imported raw materials with recycled polymers and textiles lowers local manufacturing costs and unlocks global export markets for recycled fibers, composites, and fuels. Furthermore, integrating informal recycling networks into modern facilities creates substantial jobs in collection and processing—transforming environmental liabilities into high-value commodities and positioning Pakistan as a regional leader in sustainable materials.lowers local manufacturing costs and unlocks global export markets for recycled fibers, composites, and fuels. Furthermore, integrating informal recycling networks into modern facilities creates substantial jobs in collection and processing—transforming environmental liabilities into high-value commodities and positioning Pakistan as a regional leader in sustainable materials.



Recycle Today Initiative

The Institute of Polymer & Textile Engineering at the University of the Punjab (IPTE-PU), in partnership with B2B Media and Bin Rasheed Chemicals, has launched the "Recycle Today, Sustain Tomorrow" initiative to combat Pakistan's polymer and textile waste crisis. Leveraging IPTE-PU's research in sustainable polymers and green processing alongside B2B Media's industry mobilization, the collaboration aims to establish model recycling facilities, drive material innovation, and foster commercial ventures. This joint effort invites public and private stakeholders to transform waste into valuable economic commodities while reducing environmental pollution.

PLASTICS, RUBBER & SEALANTS
PAKISTAN

PLASTICS, RUBBER & SEALANTS

MEET THE NAMES SHAPING THE INDUSTRY

— PLASTICS & POLYMERS

Versatile solutions for packaging, construction, automotive, and manufacturing.

— RUBBER & ELASTOMERS

Advanced materials for tyres, automotive components, and industrial applications.

— ADHESIVES & SEALANTS

Reliable bonding, sealing, and protection for diverse industries.

— MACHINERY & TECHNOLOGY

Modern processing, moulding, recycling, and manufacturing solutions.

— SUSTAINABLE SOLUTIONS

Explore material innovation, recycling, and eco -friendly technologies.

PRS 2026

PLASTIC
RAW MATERIAL

Polymers & Resins
PE (Polyethylene)
PP (Polypropylene)
PVC (Polyvinyl Chloride)
PET (Polyethylene Terephthalate)
PS (Polystyrene)
PU (Polyurethane)
ABS (Acrylonitrile Butadiene Styrene)
Minerals (Kaolin & Silica)



PRS
2026



ELASTOMERS & SILICONES TECHNOLOGIES

Catalyzing Industrial Growth and Innovation in Pakistan

Introduction

The industrial progress of any nation is closely linked with its ability to produce, process, and utilize advanced engineering materials. Among such materials, rubbers, elastomers, adhesives, sealants, silicones, and conductive silicones occupy a strategic position because they serve as enabling technologies across automotive, construction, electronics, healthcare, defense, aerospace, energy, telecommunications, and manufacturing sectors. Although these materials often remain invisible within final products, they are essential for ensuring durability, flexibility, safety, thermal stability, vibration control, electrical performance, and structural integrity. Globally, the rubber and elastomer industry has evolved from a traditional commodity sector into a sophisticated materials industry driven by advanced polymer engineering, nanotechnology, and functional composites. Pakistan stands at a critical stage where the development of indigenous rubber and elastomer industries can significantly contribute to industrialization, import substitution, employment generation, and export growth.

Rubber and elastomeric materials are among the most versatile engineering materials available today. Their widespread use stems from their remarkable ability to undergo large reversible deformation, absorb shocks and vibrations, provide excellent sealing performance, and withstand harsh environmental conditions. According to Hernández-Santana and Aguilar-Bolados, elastomers have become indispensable in aerospace, automotive, transportation, construction, and industrial applications because of their elasticity, heat resistance, damping characteristics, and chemical stability (Hernández-Santana & Aguilar-Bolados, 2024). These attributes enable elastomers to perform functions that conventional metals, ceramics, and plastics cannot easily achieve.



Pakistan's rubber sector has experienced steady growth over the last two decades due to expansion in automotive manufacturing, infrastructure development, power generation, agriculture, telecommunications, and consumer industries. Although much of the country's raw rubber and specialty elastomers are still imported, local manufacturing of tires, tubes, hoses, seals, gaskets, conveyor belts, footwear, and various industrial rubber goods has expanded considerably. The increasing localization initiatives in Pakistan's automotive sector provide a major opportunity for local elastomer manufacturers to supply critical components that were previously imported. As Pakistan seeks to strengthen its industrial base, the rubber industry can become a cornerstone of advanced manufacturing and engineering development.

One of the most important sectors driving demand for elastomeric materials is the automotive industry. Modern vehicles contain hundreds of rubber-based components beyond tires alone. Rubber and elastomeric materials are utilized in engine mounts, suspension bushings, fuel hoses, cooling system hoses, vibration isolators, weather stripping, seals, gaskets, brake components, electrical insulation systems, and noise reduction elements. The exceptional vibration damping capability of elastomers improves vehicle comfort while enhancing mechanical durability. According to global automotive elastomer market analyses, increased vehicle production, electric vehicle adoption, lightweighting requirements, and durability demands continue to stimulate global growth in elastomer consumption (Mordor Intelligence, 2026).

For Pakistan, the rise of local automobile assembly plants, motorcycle production, agricultural machinery manufacturing, and electric mobility initiatives creates significant opportunities for domestic elastomer producers. Every locally manufactured vehicle requires a large variety of molded rubber components. Consequently, the localized production of high-value elastomeric parts can reduce imports, conserve foreign exchange, and improve industrial self-sufficiency. Furthermore, as electric vehicles become increasingly common, new requirements for thermal management, electrical insulation, electromagnetic shielding, and lightweight construction will further enhance demand for advanced silicone rating. The applicable test and certification route must match the intended end use.



Beyond automotive applications, high-strength elastomer systems are increasingly utilized in heavy engineering and industrial sectors. Modern rubber composites reinforced with carbon black, silica, carbon nanotubes, graphene, aramid fibers, and other advanced fillers exhibit remarkable mechanical strength, wear resistance, fatigue resistance, and durability. These materials are widely used in mining equipment, conveyor systems, railway applications, aerospace systems, military platforms, oil and gas equipment, and industrial machinery. High-performance elastomeric components often function under conditions involving repeated mechanical stress, large cyclic deformation, elevated temperatures, abrasive environments, and aggressive chemicals. Their ability to endure such demands makes them indispensable in advanced engineering systems.

In Pakistan's growing infrastructure and industrial sectors, elastomers play a vital role in bridges, buildings, highways, railways, power plants, and industrial facilities. Bridge bearings, expansion joints, vibration isolation systems, seismic dampers, and pipeline protection systems all rely heavily on elastomeric materials. As Pakistan continues investing in transportation networks, special economic zones, energy projects, and urban infrastructure, demand for high-performance rubber and elastomer products is expected to increase substantially. The development of indigenous manufacturing capabilities for these specialized materials can support economic growth while reducing dependence on imports.

Another rapidly growing segment is the adhesive industry. Traditionally, structures were assembled using mechanical fasteners such as bolts, screws, rivets, and welding. However, modern engineering increasingly relies on structural adhesives because they provide superior load

distribution, weight reduction, corrosion resistance, and design flexibility. Adhesive technology has transformed manufacturing practices in automobiles, aerospace structures, electronics, construction materials, and composite manufacturing. Unlike mechanical fastening methods that create stress concentrations, adhesives distribute loads uniformly across bonded surfaces, resulting in improved structural performance and durability. Advanced adhesive systems based on epoxy, polyurethane, acrylic, cyanoacrylate, and silicone chemistries are now used extensively in vehicle assembly, aircraft production, wind turbine manufacturing, electronic device fabrication, and infrastructure projects. Pakistan's emerging manufacturing sector can greatly benefit from domestic production and application of advanced structural adhesives. Increased use of bonded assemblies can enable lightweight designs, reduce manufacturing costs, improve energy efficiency, and support innovation in composite materials and advanced engineering products.

Closely related to adhesives are sealants, which have become indispensable in modern construction and industrial applications. While adhesives are primarily designed for bonding, sealants are engineered to prevent the passage of fluids, gases, dust, chemicals, and other contaminants through joints and interfaces. High-performance sealants enhance the reliability, durability, and energy efficiency of structures and equipment. They are extensively used in building facades, glazing systems, expansion joints, industrial equipment, pipelines, water systems, transportation vehicles, and renewable energy installations.

Recent reviews on silicone-based sealants and adhesives highlight their critical role in ensuring weather resistance, waterproofing, durability, and structural protection in modern infrastructure and industrial systems. Their ability to accommodate movement while maintaining long-term sealing performance makes them especially valuable in construction and transportation sectors. As Pakistan's construction industry continues to expand through commercial developments, housing projects, transportation infrastructure, and industrial facilities, demand for advanced sealing technologies will continue to grow. High-quality sealants not only improve structural longevity but also contribute to sustainability by reducing energy losses from buildings and industrial systems.

Among all advanced elastomeric materials, silicones occupy a particularly important position. Silicones differ fundamentally from conventional organic polymers because they possess a silicon-oxygen backbone rather than a carbon-based structure. This unique molecular architecture imparts exceptional resistance to temperature extremes, ultraviolet radiation, oxidation, moisture, ozone, and chemical degradation. According to Brook (2023), silicones are valued for their stability under severe environmental conditions, thermal resistance, water repellency, flexibility, and unique surface properties that cannot easily be achieved using traditional polymers.



The versatility of silicones has enabled their widespread use across numerous industrial sectors. In construction, silicone sealants provide weatherproofing and structural glazing functionality. In electronics, silicones are used for potting compounds, conformal coatings, thermal interface materials, and protective encapsulation. In healthcare, silicone elastomers are widely employed in implants, prosthetics, medical tubing, diagnostic devices, and wearable technologies. In aerospace and defense sectors, silicones offer thermal stability and reliability under extreme operating conditions. Their importance continues to grow as industries demand materials capable of operating reliably in challenging environments.

For Pakistan, silicone technology presents a significant opportunity for industrial diversification and technological advancement. The growing electronics manufacturing sector, renewable energy installations, telecommunications infrastructure, healthcare equipment production, and electric vehicle market all require specialized silicone materials. Investments in silicone

research, compounding, formulation, and manufacturing can therefore generate substantial economic and technological benefits.

An especially exciting area of research and commercialization involves conductive silicones. Conventional silicone elastomers are excellent electrical insulators. However, by incorporating conductive fillers such as carbon black, graphene, carbon nanotubes, silver particles, nickel-coated graphite, or metallic nanomaterials, researchers have developed conductive silicone composites capable of transporting electrical signals while retaining flexibility, durability, and environmental resistance. Such materials represent a convergence of polymer science, nanotechnology, and advanced electronics.



Conductive silicones have become increasingly important in modern electronic devices, telecommunications systems, electric vehicles, aerospace equipment, wearable technologies, and intelligent sensing systems. Their flexibility and durability enable applications where traditional metallic conductors would be unsuitable. Conductive silicone materials are extensively used in electromagnetic interference (EMI) shielding gaskets, flexible circuitry, sensors, touch-sensitive devices, smart wearable systems, biomedical monitoring equipment, battery systems, and communication technologies.

The emergence of Industry 4.0, Internet of Things (IoT) systems, smart infrastructure, flexible electronics, and electric mobility is expected to further accelerate demand for conductive elastomers. Silicone-based materials for e-mobility applications are already being used for battery protection, thermal management, electronic control systems, and sensor technologies. For Pakistan, developing expertise in conductive polymer composites and conductive silicone technologies presents an opportunity to enter high-value markets associated with electronics manufacturing, defense systems, healthcare technologies, and intelligent devices.

Moreover, sustainability considerations are becoming increasingly important. Globally, researchers and industries are exploring circular economy approaches for rubber recycling, tire reclamation, devulcanization technologies, bio-based raw materials, and environmentally friendly elastomer systems. These developments align closely with Pakistan's need to manage industrial waste while improving resource efficiency. Adoption of sustainable rubber technologies can simultaneously support environmental protection and industrial growth.

In conclusion, rubbers, elastomers, adhesives, sealants, silicones, and conductive silicones constitute the invisible yet indispensable foundation of modern industrial civilization. Their applications extend from automobiles and infrastructure to electronics, healthcare, renewable energy, aerospace, and advanced manufacturing. For Pakistan, the development of these sectors presents not only an industrial opportunity but also a strategic pathway toward technological self-reliance, economic diversification, and export competitiveness. As demand for advanced materials continues to grow, investments in elastomer technologies, silicone innovations, conductive polymer systems, and high-performance adhesive solutions can help position Pakistan as an emerging player in the global advanced materials industry. The future of industrial growth increasingly depends upon smart, multifunctional, durable materials, and among them, few are as important and transformative as rubbers, elastomers, silicones, sealants, adhesives, and conductive silicone composites.



RUBBER
RAW MATERIAL

Natural rubber, synthetic rubber
(SBR, NBR, EPDM, Silicone)
Reclaimed rubber and rubber powder
Rubber compounds andsemi-finished product
Rubber compounding andmixing companies

RUBBER

PRS
2026



ADVANCED SILICONE RUBBER COMPOSITES

Transforming PDMS into Smart and Flexible Sensing Materials

Introduction

Rubber materials have become essential components of modern industries because of their elasticity, flexibility, resilience, and ability to withstand mechanical deformation. From automotive components and industrial seals to medical devices and flexible electronics, rubber-based materials continue to play an important role in technological development. As demand for advanced functional materials grows, conventional rubber products are gradually evolving into smart, multifunctional systems. One promising development is incorporating nanomaterials into silicone rubber to produce advanced polymer nanocomposites with improved, tunable functional properties.

Polydimethylsiloxane (PDMS), commonly known as silicone rubber, is a widely investigated elastomer due to its excellent flexibility, thermal stability, chemical resistance, and biocompatibility potential. Its flexible Si–O–Si backbone provides considerable chain mobility, making it suitable for applications requiring repeated bending, stretching, and deformation. Unlike conventional hydrocarbon-based rubbers, silicone rubber offers distinctive properties that make it particularly attractive for specialized industrial, biomedical, and electronic applications.

From Conventional Rubber to Functional Nanocomposites

Traditional rubber materials are primarily used for their mechanical properties, including elasticity, tensile strength, elongation, abrasion resistance, and flexibility. However, emerging technologies require rubber materials that can perform additional functions, such as electrical sensing, pressure detection, and environmental monitoring.

Nanotechnology offers an effective approach to developing these advanced materials. Incorporating suitable nanofillers into a rubber matrix can introduce electrical, thermal, optical, magnetic, and other functional properties. Depending on the nature and concentration of the nanofiller, the resulting composite can be designed for specific industrial requirements.

Commonly investigated nanofillers include carbon nanotubes, graphene, metal nanoparticles, and semiconductor metal oxides. Among these, zinc oxide (ZnO) is particularly interesting because of its semiconducting characteristics, piezoelectric behaviour, chemical stability, and potential for multifunctional applications.

PDMS and Zinc Oxide: An Innovative Combination

The combination of PDMS and zinc oxide nanostructures provides an opportunity to develop smart silicone rubber composites. PDMS acts as the flexible elastomeric matrix, while ZnO introduces

functional electrical and electromechanical characteristics.

ZnO nanorods and nanotubes are particularly interesting because their structural geometry can influence the formation of electrical pathways within the polymer matrix. When an external force is applied, the distances and contact points between neighbouring nanostructures can change, resulting in variations in electrical resistance.

This behaviour forms the basis of piezoresistive sensing. Consequently, ZnO–PDMS nanocomposites can potentially transform ordinary flexible silicone rubber films into materials capable of detecting mechanical deformation.

Research and Development at UET Lahore

Research conducted at the Department of Polymer and Process Engineering, University of Engineering and Technology (UET), Lahore, has focused on the development of advanced PDMS nanocomposites for flexible piezoresistive sensing applications.

The project, titled "Advanced PDMS Nanocomposites for Flexible Piezoresistive Sensing Applications", investigated the incorporation of ZnO nanostructures into a PDMS matrix to develop flexible and electrically responsive silicone rubber films.

ZnO nanostructures were synthesized through a hydrothermal approach using zinc nitrate hexahydrate and hexamethylenetetramine (HMTA), with polyvinylpyrrolidone (PVP) used to assist in controlling nanostructure growth.

For composite preparation, PDMS was mixed with n-hexane to facilitate processing and film formation. The ZnO nanostructures were dispersed in the solvent using sonication before incorporating the PDMS matrix. A curing agent was subsequently added, and the mixture was cast onto a Teflon sheet and cured at room temperature to obtain flexible silicone rubber nanocomposite films.

Different ZnO concentrations were investigated to evaluate their influence on the electrical, mechanical, and sensing properties of the resulting composites.

Promising Functional and Mechanical Properties

The experimental investigation demonstrated that incorporating ZnO nanostructures could significantly influence the electrical behaviour of PDMS. Electrical characterization indicated an increase in conductivity with increasing ZnO concentration, reaching approximately 4.5 mS/m at 10 wt% ZnO loading.

Mechanical testing also demonstrated that the composite films retained considerable stretchability. The overall project findings reported an elongation at break of approximately 290%, highlighting the potential of these materials for applications involving mechanical deformation. However, the addition of nanofillers also influenced tensile strength and elongation, demonstrating the importance of optimizing composite formulation.

Challenges and Future Opportunities in Rubber Technology

Despite their promising potential, the development of advanced rubber nanocomposites involves several challenges. Uniform nanofiller dispersion, compatibility between the polymer matrix and nanofillers, interfacial interactions, and maintaining mechanical properties are important considerations during composite development.

Increasing nanofiller concentration does not always improve overall performance. Excessive loading can cause agglomeration, reduce flexibility, and negatively influence mechanical strength. Therefore, appropriate formulation, processing conditions, and nanofiller concentration must be optimized according to the intended application.

Future research should focus on improving filler–matrix interactions, developing scalable processing methods, enhancing mechanical durability, and evaluating long-term performance under repeated deformation. Further opportunities also exist in combining different nanofillers to develop multifunctional silicone rubber composites.

For Pakistan's rubber and polymer industries, research in advanced silicone rubber composites provides an opportunity to move beyond conventional rubber products towards high-value engineering materials. Collaboration between academia, manufacturers, and technology developers can support the development of locally engineered functional rubber products and reduce dependence on imported advanced materials.

SEALANTS

ADHESIVE & CHEMICAL MANUFACTURERS

Silicone sealants, PU sealants, acrylic sealants
Adhesives for construction, packaging, automotive, industrial use



SEALANTS

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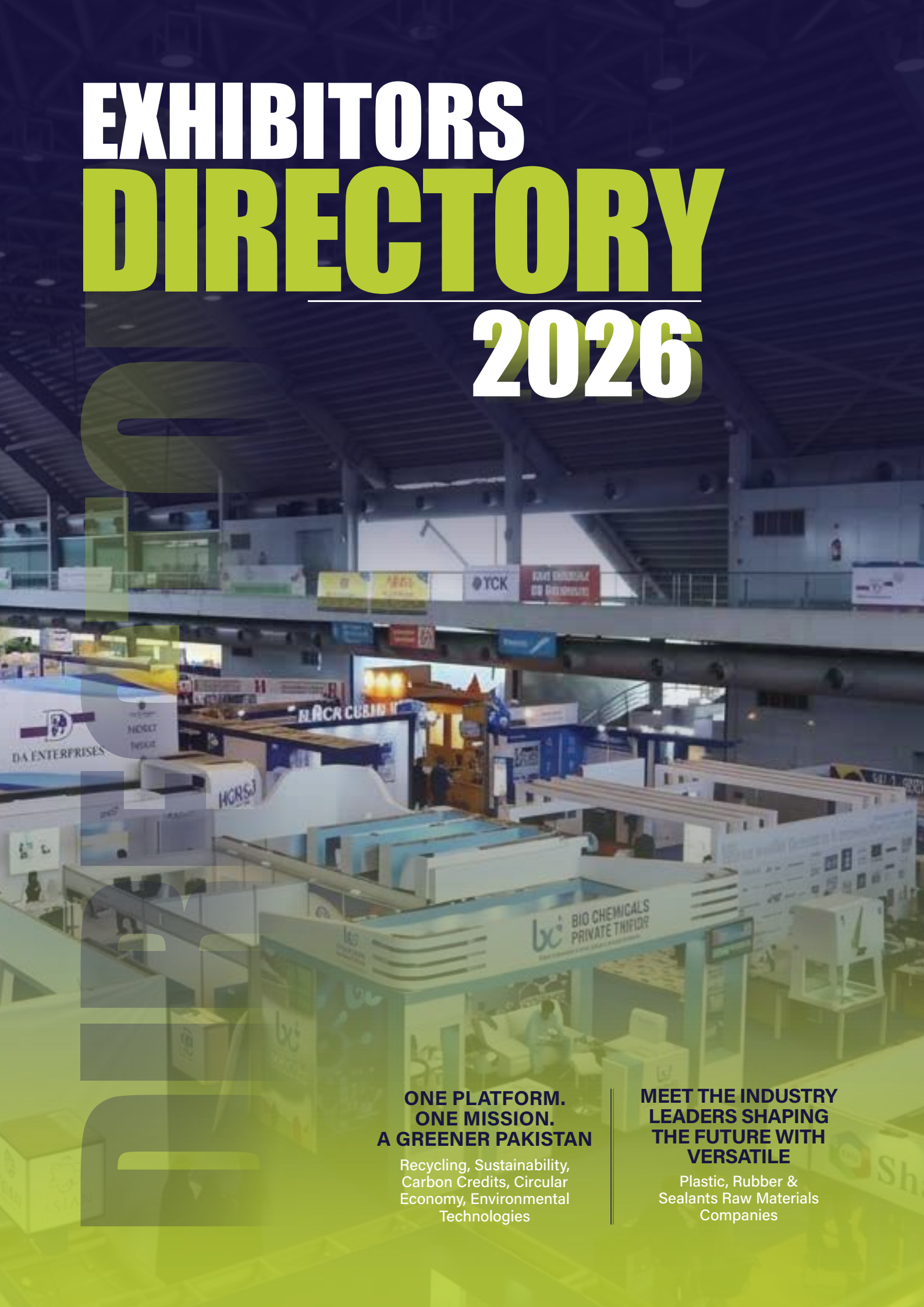

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Recycling, Sustainability, Carbon Credits, Circular Economy, Environmental Technologies

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Plastic, Rubber & Sealants Raw Materials Companies

EXHIBITORS DIRECTORY

BRILLIANT COLORANTS PAKISTAN

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Brilliant Colorants Pakistan is a supplier of premium quality imported organic and inorganic pigments. Serving the needs of Pakistan's industries such as plastics, paints and coatings, printing inks, and textile. Our focus is on product quality, dependable sourcing, and consistent supply to help our customers achieve reliable performance and better production results. At Brilliant Colorants Pakistan, we believe that quality colorants are the foundation of outstanding products. We are committed to building lasting partnerships through trust, professionalism, and customer-focused service. With a clear vision for growth and a strong commitment to international quality standards.

GHS (GHULAM HUSSAIN AND SONS)

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Naz Traders is an importer and trader of plastic raw materials and industrial chemicals. Our product range includes Masterbatches, Plastic Pigments, Calcium Carbonate, Sodium Sulfate Filler Masterbatch, Barium Filler Masterbatch, Black Masterbatch, and UV Additives. We serve the packaging, furniture, automotive parts, piping, and other plastic industries. We focus on quality products, consistent color matching, reliable sourcing, and customer satisfaction.
Business Address: Ayub Plaza, Chirag Park, Main Band Road, Lahore, Pakistan.

HI TECH MACHINERY

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Hitech Machinery is a leading distributor and supplier of plastic molding machinery and equipment, serving Pakistan, the UAE, Qatar, Saudi Arabia, other GCC countries, and the African region since 2015. Our industry machinery lineup includes injection molding machines, extrusion blow molding machines, PET blow molding machines, profile extrusion lines, cap compression machines, screw air compressors, and all associated auxiliary machinery

POLYNEX INDUSTRIAL MATERIALS PVT. LTD

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We deals in raw materials for rubber, paint, construction, adhesive, PVC, inks, masterbatch and polymer emulsion.

CISKEM FZCO

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A global Indenting & Trading company with experience of more than 4 decades in Indenting & Trading business. It offers a complete range of raw materials to Plastics, Rubbers, Paints & Coating, Textile, Paper & Board, PVC Pipe & Fittings, PVC Wall Panels and many others industry verticals while maintaining the mutual trust between suppliers & customers with offering of quality B2B products.

MESKAY & FEMTEE TRADING COMPANY (PVT.) LTD.

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Established in 2006, Meskay & Femtee Trading Company (MFTC) is a top Pakistani rice exporter and agricultural firm specializing in commodities, farm mechanization, and climate-smart initiatives. As Kubota Japan's exclusive local distributor, MFTC has deployed over 350 machines and serves 150,000+ acres through its rental fleet. Beyond trading, MFTC advances sustainability through Punjab rice-belt carbon credit programs using Alternate Wetting and Drying (AWD) technology and a 55,000-acre public-private forestation project.

BIN RASHEED COLOR AND CHEMICALS

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Bin Rasheed Colors & Chemicals (BRCC) is a Pakistan-based manufacturer of solid and liquid master batches, compounds, colorants, printing inks, and other chemical solutions for industrial applications. The company serves various manufacturing sectors, including plastics, rubber, packaging, paints and coatings, footwear, synthetic leather, textiles, and printing. BRCC emphasizes quality assurance, manufacturing technology, product consistency, and customer relationships.

MS POLYMERS

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We deal in different plastic raw material from major producers all over the world, including SABIC, Tasnee, Diamond, ExxonMobil, Qapco, BASF, CHEMI, LyondellBasell, Sumitomo and BGF Eco materials. Our range covers general purpose plastics such as GPPS, HIPS, EPS, HDPE, LDPE, LLDPE, EVA, PP and CO-PP; engineering plastics including nylon, ABS, acrylic, poly acetal and polycarbonate; and soft PVC compounds in a wide range of colors. Supplying a diverse range of plastic raw materials with a focus on product quality, responsive service and long-term business relationships since 2010.

ALPHA GENERAL TRADING

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The Ultimate Polymers Destination. **Alpha General Trading** is a Pakistan-based trading group connecting local and international markets through polymer sourcing, material supply, and strategic business partnerships. We connect global suppliers, manufacturers, plastic converters, and distributors with suitable materials and competitive supply solutions.

ZAAVIYA TECHNOLOGIES

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Founded in 2023 and based in Lahore, **Zaaviya Technologies** manufactures precision material and laboratory testing equipment in Pakistan. Offering locally engineered alternatives to imported machinery, the company designs, supplies, and supports testing instruments for universal tensile, compression, plastic, packaging, rubber, and pharmaceutical applications across industrial quality control and research labs.

SUNNY CO

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Sunny Co is the leading Importer/Exporter/Supplier/Consultant in Pakistan of "New, Reconditioned, Used Plastic Injection Molding Machines, Blow, Pet Blow, Extrusion Blow, Injection Blow, Stretch Blow machines, Relevant Accessories & Spare Parts over the last four decades.

K GROUP OF COMPANIES

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K Group of Companies is the authorized agent in Pakistan for 21 European machinery manufacturers serving the plastics, packaging and printing industries: AFS, B&B Verpackungstechnik, Botheven, Brückner Servtec, COLLIN, Flexo Wash, Garant, GSE Dispensing, Herbold Meckesheim, JM Heaford, Kampf, Lundberg, NGR, OFRU Recycling, PrimeBlade, Sesotec, Tambula, Tech Sleeves, Unilux, Windmöller & Hölscher and Zecher. Sales, installation and after-sales support.

BS PLASTIC

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We deals in raw materials for rubber, paint, construction, adhesive, PVC, inks, masterbatch and polymer emulsion.

AGI POLYMER INDUSTRIES (PVT) LTD

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Manufactures of Color masterbatch, PVC Compounding, PET, & Flexible Packaging

TM CHEMICALS PVT.LTD.

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Manufacturer of polymer Additives i.e. PVC Thermal Stabilizer, Metallic stearates Pakistan based manufacturer providing Innovation in the field PVC, Paint, Rubber and Pharmaceutical industries.
Lahore based company Plot # 603 sundar Industrial estate

MAGO ENTERPRISES PVT LTD

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Mago Enterprises (Pvt.) Ltd. is a Lahore-based import, export and trading company dealing in industrial raw materials, rubber, plastics, polymers and chemicals. It supplies materials to manufacturing industries in Pakistan.

NATIONAL RUBBER CO.(PVT)LTD (NRC)

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National Rubber Co.(pvt)Ltd (NRC) is a leading manufacturer of high-precision automobile and industrial components in Pakistan. We specialize in the manufacturing of superior rubber and plastic products for the Pakistan OEM industry. Our state-of-the-art manufacturing facility in Karachi is equipped with cutting-edge machinery, and we procure raw materials from trusted brands to ensure consistency, quality, and performance. Our in-house rubber testing laboratory ensures that our products meet ASTM and JIS standards, enhancing the quality of our products.

WASTE BUSTERS

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One of the biggest waste management company of Pakistan, situated in Lahore with footprint in all four provinces, our services include waste collection, transportation, recycling and final disposal.

STARETCH INTERNATIONAL

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STARETCH INTERNATIONAL
Importer, Trader & Technical service provider

MASTER MOTOR CORPORATION PVT LTD

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Master Motor Corporation (Pvt.) Limited (MMCL) is a automobile assembling and manufacturing company established in 2002 in Karachi. Operating as a flagship automotive subsidiary of the Master Group of Companies, MMCL is one of Pakistan's leading producers of light, medium, and heavy commercial vehicles, as well as passenger cars.

JILANI POLY INDUSTRIES (PVT) LTD.

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Established in 1973, Jilani Plastic is a leading plastic packaging manufacturer in Pakistan, specializing in a diverse range of products, including PP Woven and Non-Woven Bags, Leno Bags, PE Sheets and Rolls, Shrink, Stretch and Cling Films, Garbage Bags, Agricultural Films and Gravure Printing. Serving renowned clients such as Coca-Cola, Pepsi, Engro, Fatima Fertilizers, Dawn, Imtiaz and Alfatah, the company is committed to quality, innovation and sustainable manufacturing practices. Jilani Plastic emphasizes recycling, waste reduction, efficient resource utilization and environmentally responsible packaging solutions. The company maintains quality and compliance standards supported by ISO and Halal certifications, alongside other applicable industry standards.

EVEE ELECTRIC

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Evee is an electric two-wheeler brand by Fusion Engineering (Pvt.) Ltd. and is among the leading electric scooter brands in Pakistan. The brand focuses on making everyday commuting more accessible and convenient, with a vision of promoting independent mobility for all. Evee offers a diverse range of electric scooters in both graphene and lithium battery variations, catering to different customer preferences and commuting needs. With an extensive product lineup and a growing presence across Pakistan, Evee continues to make electric mobility a practical choice for a wider audience.

AL-HAJ FAW MOTORS PRIVATE LIMITED

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Al Haj FAW Motors was incorporated as a Private Limited Company in October 2006, known for its Heavy & Light commercial Vehicles in Pakistan. Al-Haj FAW Motors is the sole distributor & progressive manufacturer / assembler of FAW heavy commercial vehicles, light commercial vehicles & in Pakistan.First CBU (Complete Built-Up) product-line of HVs was launched in 2006 which included different heavy commercial vehicles like dump trucks, rigid trucks & prime movers & EV Trucks.The local production CKD (Complete Knocked-Down) of FAW Heavy Commercial Vehicles started in December 2011.

AABROO EDUCATIONAL WELFARE ORGANZATION

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We are an NGO, providing absolutely free education, nutrition, clothing & health care to the poorest of children, who do not even have hope and live in urban slums with scarce civic amenities.

ABSOLUTE PLASTIK -
SUBSIDIARY OF BIN RASHEED GROUP

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Absolute Plastik offer a range of plastic sheets\boxes and pallets including standard, custom, and stackable options designed to meet various industry needs.

GHS (GHULAM HUSSAIN AND SONS)

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Ghulam Hussain & Sons (GHS) is a Pakistan-based environmental services and waste management company with over five decades of industry experience. Since 1965, GHS has been delivering integrated solutions in waste management, environmental services, sanitation, and facility management, serving municipalities, industries, housing societies, and commercial organizations. These services cover industrial waste management, janitorial and sanitation care, property maintenance, asset upkeep, and environmental consulting. They improve hygiene, streamline operations, and support sustainability through green programs and safe waste disposal.

SIWA INDUSTRIES (PVT.) LTD.

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Established in 2008 in Lahore, Pakistan, **SIWA Industries Pvt. Ltd.** manufactures and assembles electric and petrol-powered mobility solutions. From its facility on Ring Road in Shad Bagh, the company produces electric motorcycles and scooters (EVEZ), Euro II auto rickshaws (150cc/200cc), cargo loaders, dumpers, tippers, road washers, mist machines, anti-smog guns, arm rollers, and desilting machines with a focus on quality, innovation, and sustainability.

SAMAD GROUP OF INDUSTRIES

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Since 1962, Samad Adhesives has revolutionized the adhesive industry with groundbreaking contact-based solutions. Today, Samad Adhesives offers a diverse product portfolio, including household, industrial, and commercial adhesives. Our range also includes environmentally friendly water-based adhesives, demonstrating our commitment to sustainability.

LAL DIN RICKSHAW PVT LTD.

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Lal Din (LD EV) has launched a lineup of electric scooters in Pakistan produced in partnership with the Chinese brand TailG. The lineup includes several models using graphene, lithium-ion, and pioneering sodium-ion battery technology.

GREEN CRESCENT ENVIRONMENTAL CONSULTANTS PVT. LTD.

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Green Crescent—operating in Pakistan as Green Crescent Environmental Consultants (Pvt.) Ltd.—is an ISO-certified (9001, 14001, 45001) environmental engineering consultancy founded in Abu Dhabi in 2011 with over 2,000 projects completed. Approved by EAD (Class A), EPA Punjab, and the Federal EPA, the firm provides EPA approvals, PEQS/NEQS testing, HSE/waste management, marine surveys, ESG reporting, LCA, green building, and decarbonization solutions (ISO 14064 GHG inventories, CBAM support, and a GHG Management Platform) across major industrial, energy, and infrastructure sectors.

KISSAN ENGINEERING PVT LIMITED

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Kissan Engineering is involved in steel fabrication. Our specialty is the manufacturing of Solid and Liquid Waste Management Equipment. We have a complete mechanical workshop, a professional workforce, and latest fabrication machinery.

EIFEL INDUSTRIES LIMITED

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Operating under the RP Group of Companies, **Eiffel Industries Ltd. (Road Prince)** has been delivering durable, fuel-efficient, and affordable mobility solutions since 2004. As one of Pakistan's leading brands, we manufacture PSQCA-approved 4-stroke motorcycles, scooties, rickshaws, loaders, and cars—backed by a nationwide network of 500+ sales dealers and 700+ warranty and service centers. We are pleased to offer exclusive corporate rates along with dedicated warranty and after-sales support for your organization.

(BECO) BILAL ENGINEERING CO

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Email: info@beco.com.pk , ammar.beco@hotmail.com
Contact No: 03338109758 , 0553892575-76 , 0553416075-76

Manufacturers Of Solid & Liquid Waste Management Machinery ,Hydraulic Equipment's Ground Support Equipment's (Dump Trucks, Road Washers, Garbage Compactors, Mini Tippers, Drain Cleaning Backhoe, Front Loaders, Water Bowzers, Fuel Bowzers, Aerial Platforms, Desilting Machine, Suction & Jetting Machines, Recovery Trucks, Truck Mounted Cranes, Tail Lifts, Vacuum & Mechanical Sweepers

TTI TESTING LABORATORIES

Company Person Name: Hamed K. Lateef
Email: hamed@ttilabs.net
Contact No: +92 300 8447861

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DYNAMIC GROUP

Company Person Name: Farooq Aziz
Email: info@dec.com.pk
Contact No: +92-300-8458037

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SGS PAKISTAN (PRIVATE) LIMITED

Company Person Name: Kaleem Ullah
Email: Kaleem.ullah@sgs.com
Contact No: 0322-2850060

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GREEN EARTH RECYCLING

Company Person Name: Syed Mubeen Ur Rehman
Email: Earth@greenearthrecycling.com
Contact No: +92-333-8882633

Recycling Company that turns waste into Furniture, manhole covers, and other products.

WWF-PAKISTAN

Company Person Name: Shahgan Humayoun Butt
Email: shbutt@wwf.org.pk
Contact No: +92 322 4699932

Founded in 1970, WWF-Pakistan has grown into a nationwide organization of over 300 professionals across 30+ offices. Part of WWF's global network in over 100 countries, we combine international expertise with local knowledge to tackle Pakistan's most pressing environmental challenges. Through 50+ projects, we restore ecosystems, protect forests, oceans, and freshwater, and promote climate resilience and sustainable development—safeguarding biodiversity while strengthening local livelihoods.

SPECTRUM PLASTIC INDUSTRIES PVT LTD

Company Person Name: Mr. Zaki Nawaz CEO
Email: sales@spectrumplastic.com.pk
Contact No: 0310-4441191

Spectrum Plastic Industries (Pvt.) Ltd. manufactures high-quality HDPE, LDPE, and LLDPE packaging—including stretch film, shrink film, poly bags, and sleeves—with a production capacity exceeding 300 tons per month. Equipped with imported machinery and led by a skilled technical team, our modern facility produces 100% virgin-polymer, food-grade packaging tailored to meet diverse industry needs.

ECO-CHAR PVT LTD

Company Person Name: Mr.Sheraz Khalid, Mr Husnain
Email: Sherazkhalid399@gmail.com, hasnainumarpk@gmail.com
Contact No: 03214515004, 03090001978

Eco-Char produces premium, smokeless bio-coal from indigenous biomass using a zero-carbon cleantech process to replace traditional fossil fuels in Pakistan. Utilizing self-sustaining kilns and sustainable supply chains, we provide affordable, high-calorific renewable energy to residential, commercial, and industrial clients—from households and eateries to smelting and boiler operations.

BUSINESS AND FINANCE PEOPLE

Company Person Name: Dr. Mohammad Hassaan Khan
Email: director@businessandfinancepeople.com
Contact No: 03226369615

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ALLIED ENGINEERING & SERVICES (PVT.) LTD.

Company Person Name: Natasha Nadeem
Email: natasha.nadeem@aesl.com.pk
Contact No: 03089013989

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ASKARI ENTERPRISES (PVT) LTD

Company Person Name: Engr. Zeeshan Yosaf
Email: smsales1.ae@awt.com.pk
Contact No: 0303-5454295

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NEW ASIA AUTOMOBILE (PVT.) LTD.

Company Person Name: Muhammad Hussain
Email: newasiagroups@gmail.com
Contact No: 0301-844-1458

New Asia Automobile (Pvt.) Ltd. is Manufacturer and Assembler of Cargo Loader and 4 Stroke Rikshaw.

SHALIMAR MICRONS

Company Person Name: MUHAMMAD FAISAL
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Contact No: 0300-9421200

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MEDICA INDUSTRIES

Company Person Name: AMIR ALI BHATTI
Email: amiralibhatti@medica.org.pk
Contact No: 0333 4701749

Medica Industries is a manufacturing company based in Lahore, Pakistan, specializing in the production of medical and healthcare-related plastic products. The company manufactures a wide range of products, including sharps containers, medical waste bins, urine containers, and syringe cutters. Its product range includes medical waste bins with capacities ranging from 10 liters to 240 liters. The company focuses on providing quality products to hospitals, healthcare institutions, and other medical facilities. It has approximately 70 employees working in different departments, including Production, Quality Control, Inventory Management, Supply Chain, Sales, and Administration.

TRACKING WORLD PVT LTD

Company Person Name: Azhar Nadeem
Email: azhar@trackingworld.com.pk
Contact No: +92 300 8423818

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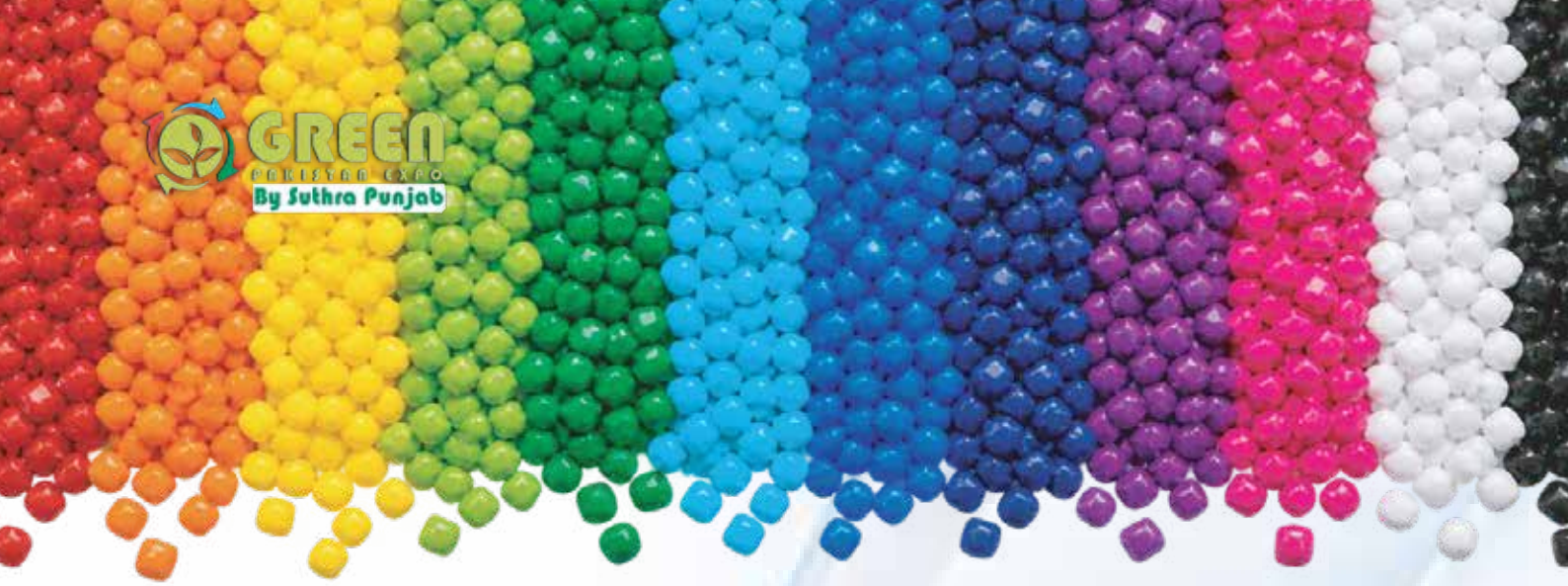
LAHORE WASTE MANAGEMENT COMPANY (LWMC)

Company Person Name: Faizan Elahi Zaheer (Focal Person)
Email: faizan.elahi@lwmc.com.pk
Contact No: 0333-4797157

Lahore Waste Management Company (LWMC)

A public sector company working under the Local Government & Community Development Department (LG&CDD), Government of the Punjab, established on 19 March 2010 under Section 42 of the Companies Ordinance, 1984. Mandate: Solid waste management of Lahore – collection, transportation, recovery, treatment and disposal – and lead implementing agency of the Suthra Punjab initiative in Lahore.



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