



# Corporate Sustainability Report

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PATCHAM™

## *Message from the Managing Director*

At Patcham, our purpose has always been clear: to deliver dependable solutions powered by innovation, responsibility, and deep technical expertise. As a manufacturer of Specialty Performance Chemicals, we operate at the intersection of advanced science and real-world application, helping our customers achieve performance excellence while responding to evolving regulatory and sustainability expectations.

Our Pat-Add range of additives—covering wetting and dispersing agents, defoamers, surface modifiers, and rheology modifiers—reflects our commitment to responsible chemistry. Being APEO-free and designed to support low- or no-VOC finished products, these solutions enable our customers across coatings, inks, composites, and PVC plastisols to innovate without compromise. Similarly, our portfolio of metal carboxylates, including paint driers, PVC heat stabilisers, and tin-based and tin-free catalysts, demonstrates our ability to serve diverse industrial needs with precision and reliability.

Innovation at Patcham is driven by our strong in-house R&D and manufacturing capabilities. This integrated infrastructure allows us to rapidly convert ideas into market-ready products, supporting customers as they navigate fast-changing technical and regulatory landscapes. Sustainability, product performance, and compliance are embedded in our development philosophy.

Our global presence, combined with regional market expertise, enables us to respond swiftly and effectively to customer requirements. We place great emphasis on continuous training and knowledge-sharing, ensuring our teams remain equipped to provide informed, tailored solutions worldwide.

As we look ahead, Patcham remains committed to strengthening partnerships, advancing sustainable technologies, and creating long-term value for our customers, employees, and stakeholders. Together, we will continue to build a future defined by innovation, trust, and responsible growth.

*Warm regards,*  
**Managing Director**  
**PATCHAM FZC**

*Driving innovation in specialty chemicals through sustainable, reliable, customer-focused solutions.*



# ABOUT US

## A Step Towards Sustainable Chemistry



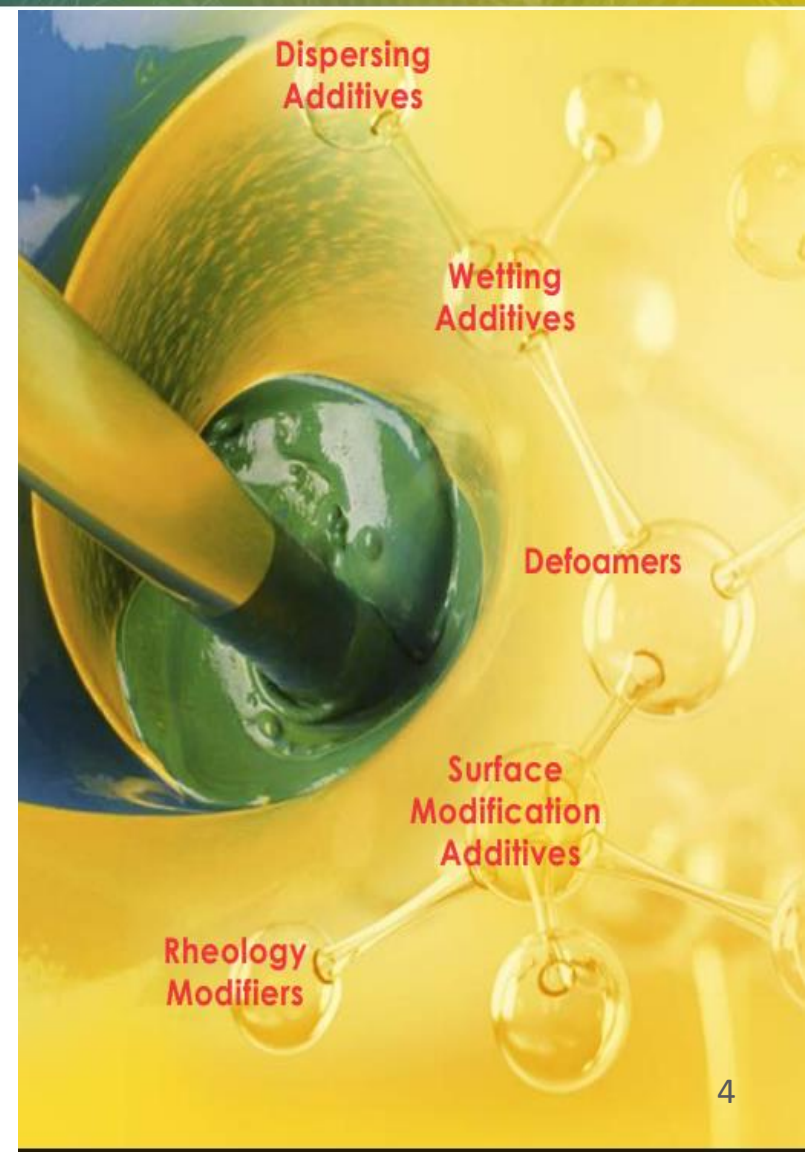
Patcham is a trusted manufacturer of Specialty Performance Chemicals, committed to delivering dependable services, advanced technologies, and high-quality solutions to customers across global markets. Our core objective is to support customer innovation while meeting evolving performance, regulatory, and sustainability requirements.

Our Pat-Add range of additives includes wetting and dispersing agents, defoamers, surface modifiers, and rheology modifiers. All products are APEO-free, and many are specifically developed to enable low-VOC or zero-VOC finished formulations. These additives are widely used in coatings, inks, composites, and PVC plastisols. In addition, Patcham has extensive expertise in the formulation of pigment concentrates, enabling enhanced color development, stability, and performance for end applications.

Patcham also offers a comprehensive portfolio of metal carboxylates, including paint driers, PVC heat stabilisers, and a broad selection of tin-based and tin-free catalysts designed for diverse industrial processes. These products are engineered to deliver consistent quality, efficiency, and compliance with regulatory standards.

Our strong manufacturing capabilities and in-house research and development infrastructure allow for the rapid transition from concept to commercial products. Through continuous innovation, our R&D team develops technologies that help customers improve performance and achieve greater sustainability in a fast-changing regulatory environment. With a strong global presence, regional market expertise, and continuous training programs, Patcham ensures prompt responses, technical support, and tailored solutions that meet the specific needs of our customers worldwide.

With a strong global presence and deep regional market expertise, Patcham is well-positioned to provide prompt technical support and customized solutions. Our extensive global network ensures efficient communication, while continuous training programs equip our representatives with up-to-date knowledge and tools. Through innovation, reliability, and partnership, Patcham remains committed to delivering long-term value to customers worldwide.



# Introduction

***Patcham delivers innovative, sustainable specialty performance chemicals with global expertise.***

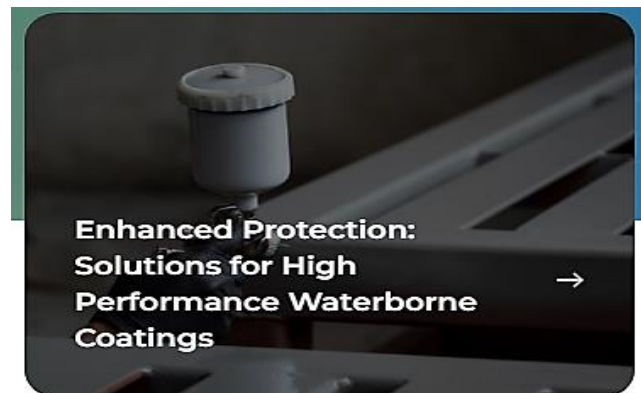
Patcham is a global manufacturer of Specialty Performance Chemicals, committed to delivering reliable products, innovative technologies, and value-driven services to customers across a wide range of industries. Built on a strong foundation of technical expertise and customer focus, Patcham continuously works to support product performance, regulatory compliance, and sustainability in an increasingly complex and competitive market environment.

The company's product portfolio is centered around its well-established Pat-Add range of additives, which includes wetting and dispersing agents, defoamers, surface modifiers, and rheology modifiers. All Pat-Add products are APEO-free, reflecting Patcham's responsible approach to chemical manufacturing. Many formulations are specifically designed to enable low-VOC or zero-VOC finished products, helping customers meet stringent environmental regulations while maintaining high performance standards.

These additives are widely applied in coatings, inks, composites, and PVC plastisols. In addition, Patcham has developed strong expertise in the formulation of pigment concentrates, allowing customers to achieve enhanced color development, stability, and consistency in their end products.

Patcham also manufactures a comprehensive range of metal carboxylates, including paint driers, PVC heat stabilisers, and a broad selection of tin-based and tin-free catalysts for various industrial applications. These products are engineered to deliver consistent quality, efficiency, and reliability, supporting diverse customer requirements.

A key strength of Patcham is its robust manufacturing and in-house research and development infrastructure, which enables the rapid transition of ideas from concept to commercial products. Continuous innovation allows Patcham to support customers as they adapt to fast-changing regulatory and sustainability demands. With a strong global presence, regional market expertise, and well-trained technical teams, Patcham is well positioned to provide prompt responses, tailored solutions, and long-term partnerships worldwide.



## *Statement of Use (GRI 1-5)*

This report is prepared in accordance with GRI standards (2021).





# Our Products

## COATINGS AND INKS ADDITIVES



### A Sustainable Approach to Coating Technology

Patcham FZC is a global manufacturer of specialty additives headquartered in the United Arab Emirates. Since its inception, Patcham has steadily grown to become a leading supplier of metal carboxylates and specialty additives for Paint & Coatings, Inks, PVC, Composites, Polyurethane and Oil field. We also manufacture a range of tin based and tin free catalysts for various end use industries.

The company's Pat-Add range of coating additives are built on providing attributes meeting actual demands on sustainability, technology, performance and competitiveness.

Patcham has a strong manufacturing and R&D infrastructure that enables rapid transition from concept to products. The company has strategically located technical service laboratories, offices, and representatives around the world to provide efficient customer service. In addition, a well-developed robust supply chain network enables us to deliver our products and services to customers around the globe with minimal lead-time.

Patcham comprehensive list of unique coating additives with its extensive technology ranging from Wetting and Dispersing Agents, Defoamers and Dearators, Flow and Levelling, and Rheology Modifiers were designed to enhance the performance, appearance, cost-reduction, and sustainability of customer's products.

The said additives were developed to meet the stringent requirements of various applications for waterborne, solventborne and solvent-free coatings and inks system.

#### Wetting and Dispersing Additives Waterborne Systems

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Aqueous Systems		Recommended for			Features & Benefits
				(Approx)	Emulsions	Amine Neutr.	Decorative	Industrial	Colorants		
Pat-Add DA 103	Sodium salt of polyelectrolyte	Water	45%			■	□	■			Standard dispersant for inorganic pigments and fillers for emulsion formulations.
Pat-Add DA 105A	Ammonium salt polyelectrolyte	Water	43%			■		■			Dispersing agent for inorganic pigments and extenders.
Pat-Add DA 107A	Ammonium salt polyelectrolyte	Water	21%			■		■			Dispersing agent for inorganic pigments and extenders.
Pat-Add DA 108	Sodium salt copolymer	Water	25%			■	■	■	■		Hydrophobic copolymer dispersant for improving water resistance. For slurries containing basic fillers and pigments.
Pat-Add DA 202	APED-free non-ionic wetting agent	Water	72%			■	■	■	■		APED-free non-ionic pigment wetting agent. For all waterborne applications.
Pat-Add DA 203	APED-free non-ionic wetting agent		100%			■	■	■	■		APED-free polymeric surface active agent for WB in-plant tinting colorants.
Pat-Add DA 205	APED-free non-ionic wetting agent		100%			■	■	■	■	■	APED-free polymeric surface active agent, stronger hydrophobicity than Pat-Add DA 203. Strong stabilization of dispersed pigments and optimizes color development.
Pat-Add DA 209	APED-free non-ionic wetting agent	Water	90%			■	■	■	■	■	APED-free, for universal usage in dispersion paints and aqueous colorants.
Pat-Add DA 213	Non-ionic wetting agent	Water	90%			■	■	■	■	■	Standard wetting agent for emulsion paints.
Pat-Add DA 302	APED-free non-ionic wetting agent	Water	35%			■	■	■	■	■	Economical wetting agent replacing APED based surfactants. For good color acceptance in emulsion paints.
Pat-Add DA 401	Blockcopolymer	Water	28%			■	■	■	■	■	Highly effective dispersant for inorganic and moderately polar pigments, including carbon blacks, in aqueous systems.
Pat-Add DA 405	Polymeric with polyfunctional anchoring moieties	Water	40%			■	■	■	■	■	Polymeric dispersing agent with excellent performance in waterborne coatings and highly loaded pigment concentrates.
Pat-Add DA 420	Blockcopolymer	Water/Butyl Cellosolve	50%			■	■		■	■	For electrostatic stabilization of inorganic pigments for aqueous industrial systems.
Pat-Add DA 450	Branched polyacrylic copolymer	Water	40%			■	■	■	■	■	Wetting and dispersing additive for glycol free aqueous pigment dispersions.
Pat-Add DA 475	Polymeric with polyfunctional anchoring moieties	Water	40%			■	■	■	■	■	Dispersing agent for waterborne industrial, protective (DTM) coatings, pigment dispersions and printing inks.
Pat-Add DA 501	Polymeric uncharged	Water	80%			□	■	■	■	■	Wetting and dispersing agent for WB organic RMPc and RPFC. For Universal colorants used in conjunction with Pat-Add DA 801 or Pat-Add DA 861.
Pat-Add DA 603	HNW** Polymeric	Water	54%			■	■	■	■	■	APED-free polymeric wetting and dispersing agent for all pigment dispersions. Used in a wide range of applications, architectural, textile and industrial paints.
Pat-Add DA 603LV	HNW** Polymeric	Water	54%			■	■	■	■	■	Low VOC and APED-free polymeric wetting and dispersing agent for all pigment dispersions. Used in a wide range of applications, architectural, textile and industrial paints.
Pat-Add DA 801	Polymeric electroneutral		100%	66	40	□	■	■	■	■	Polymeric dispersant for Industrial Alkyd systems. Used with Pat-Add DA 501 for Universal Colorants.
Pat-Add DA 817	Polymeric slightly cationic		100%	13	21	□	■	■	■	■	Wetting and dispersing agent for SB and WB applications. Most suitable in waterborne systems with high filler loading, functional pigments, and inorganic pigments with high suspension property.
Pat-Add DA 825	Polymeric with unsaturated groups		100%	32	15	□	■	■	■	■	Solvent and VOC-free dispersant for universal colorants.
Pat-Add DA 861	Polymeric electroneutral		100%	97	40	□	■	■	■	■	Solvent and VOC-free dispersant for universal colorants along with Pat-Add DA 501. Suitable for all pigments, especially Carbon Blacks.

■ Highly Recommended □ Recommended  
\*\*High Molecular Weights, Patcham's unique technology

The data in the product selector table is a first recommendation. Suitability of a product should always be checked in the actual paint, coating or ink formulation.

# Our Products

## COATINGS AND INKS ADDITIVES



### Wetting and Dispersing Additives

#### Solventborne and Solventfree Systems

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for							Features & Benefits
				(Approx)	Solventborne Systems			Decorative	Industrial	Colorants	Solventfree Systems		
					Non-Polar	Medium Polar	Polar						
Pat-Add DA 701	Amphoteric polyester dispersant	White Spirit	72%			■	■	□	■	□			Dispersant for inorganic pigments and fillers. Recommended for alkyl and alkyl modified systems.
Pat-Add DA 707	Amphoteric polyester dispersant	White Spirit	72%			■	■	□	■	□			Dispersant for inorganic pigments and fillers. Recommended for alkyl and alkyl modified systems. Low viscosity version of DA 701.
Pat-Add DA 801	Polymeric electroneutral		100%	86	40	■	■	■	■	■	■	■	Wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add SU1. Recommended for Architectural and Industrial Coatings.
Pat-Add DA 801T	Polymeric electroneutral		100%	85	27	■	■	■	■	■	■	■	Wetting and dispersing additive for colored pigments. Suitable for universal colorants, in conjunction with Pat-Add SU1. Recommended for Architectural and Industrial Coatings.
Pat-Add DA 815	Electroneutral solventfree polymeric		100%	28	15	■	■	■		■	■	■	Polymeric wetting and dispersing additive that contains acidic group for effective wetting of inorganic pigments such as TiO <sub>2</sub> fillers and matting agents.
Pat-Add DA 895	Electroneutral solventfree polymeric		100%	29	13	■	■	■		■	■	■	Polymeric wetting and dispersing agent for acidic pigments including carbon black. Suitable for Epoxy, UPR, Polyol and PVC Colorants.
Pat-Add DA 932	HWI™ Polymeric	Xylene/MFA	47%		15	□	■	□		■	■		HWI Technology polymeric wetting and dispersing agent for industrial paints and solventborne pigment dispersions.
Pat-Add DA 934	HWI™ Polymeric	Xylene/MFA	47%		13	□	■	□		■	■		HWI Technology polymeric wetting and dispersing agent for industrial paints and solventborne pigment dispersions.
Pat-Add DA 947	HWI™ Polymeric	Butyl Acetate	60%		18	□	■	■		■	■		HWI Technology polymeric wetting and dispersing agent. Coil coatings, industrial paints and pigment dispersion. Xylene free.
Pat-Add DA 948	HWI™ Polymeric		100%	2	38	□	■	■		■		■	HWI Technology wetting and dispersing additive for solventfree systems. Recommended for co-grinding Epoxy systems.
Pat-Add DA 1866	Polyamide-polyester electroneutral	Xylene / Isobutanol / Solvesso 100	55%	35	30	■	■	■	■	■			Wide range compatibility. Also provides self assembly structure for anti-settling properties.
Pat-Add DA 1876	Copolymer with organic acidic groups	Solvent Naptha	50%	37	32	■	■	■	■	■			Controlled flocculating wetting and dispersing additive for solventborne architectural and industrial paints.
Pat-Add DA 1801	Copolymer with organic acidic groups	Xylene/MFA	60%	70		■	■	■	■	■			Recommended for dispersion of inorganic pigments in particular titanium dioxide, matting agents, special effect pigments and fillers.
Pat-Add DA 1808	Electroneutral organic compound		100%		50	■	■	■	■	■	■		Wetting and dispersing additive for inorganic and polar pigments in alkyl paints, including industrial coatings.
Pat-Add DA 1809	Copolymer with organic acidic groups	Xylene/MFA	60%	87		■	■	■	■	■			Recommended for dispersion of inorganic pigments, matting agents, special effect pigments and fillers.
Pat-Add DA 1812	Copolymer with organic acidic groups		100%	129		■	■	■	■	■			Recommended for dispersion of inorganic pigments in particular titanium dioxide, matting agents, special effect pigments and fillers.
Pat-Add DA 3051	HWI™-UCT Polymeric	Xylene/MFA	30%		6	■	■	■		■	■		Dispersing additive with cationic pigment affinity groups. Recommended for co-grinding baking systems.
Pat-Add DA 3054	HIA™-Polymeric	Butyl Acetate	45%		25	■	■	■		■	■		Wetting and dispersing additive for organic and carbon black pigments in high performance coatings. Automotive OEM and Refinish. Suitable for RMPG and RFPC formulations.
Pat-Add DA 3223LV	HIA™-Polymeric - solventfree		100%		53	■	■	■		■	■	■	Solventfree dispersant based on HIA Technology for preparing highly loaded pigment concentrates for high performance coatings. Automotive OEM and Refinish.
Pat-Add DA 3225	HIA™-Polymeric - solventfree		100%		58	■	■	■		■	■	■	Solventfree dispersant based on HIA Technology for preparing highly loaded pigment concentrates in plasticizers and polyol-based systems.

### Compatibilizer for Universal Colorants

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for				Features & Benefits
						Aqueous Systems	Decorative	Industrial	Colorants	
					(Approx)	Emulsions	Amine Neutr.			
Pat-Add DA 301	Anionic wetting agent	PG/Water	65%			■	■	■		Colorant compatibilizer for emulsion and SB alkyl paint bases.

### Multi-functional Surfactants

Pat-Add SU 4	Nonionic surface active agents Available in various concentrations with below solvents: 1. Ethylene glycol      2. 2-Propanol 3. Propylene glycol    4. 2-Ethylhexanol 5. 2-Methoxymethylketoxopropanol (Ref: Product data sheet)										Provide simultaneous wetting and deflaming in inks, paints and adhesives.
Pat-Add SU 420	Polymeric wetting and dispersing agent		100%			■	■	■	■	■	Wetting and foam destabilizing characteristics for waterborne inks, paints and adhesives.
Pat-Add SU 440	Polymeric nonionic surface active agent		100%			■	■	■	■	■	For excellent wetting and dispersing properties in aqueous systems, with minimum foam.
Pat-Add SU 485	Polymeric nonionic surface active agent		100%			■	■	■	■	■	Substrate wetting agent with good solubility in aqueous systems. Suitable for waterborne coatings and inks.
Pat-Add SU 485	Polymeric nonionic surface active agent		100%			■	■	■	■	■	Strong reduction of surface tension promotes substrate wetting with good solubility in aqueous systems. Suitable for waterborne coatings and inks.

### Controlled Flocculation Wetting and Dispersing Additives

Product Name	Composition	Solvents	Active content (%)	Acid value (mg KOH/g)	Amine value (mg KOH/g)	Recommended for													Features & Benefits
						Aqueous Systems						Solventborne Systems						Solventfree Systems	
						Emulsions	Amine Neut.	Decorative	Industrial	Colorant	Non-Polar	Medium Polar	Polar	Decorative	Industrial	Colorants			
Pat-Add C 7711	Polycarboxylic acid polymer	Xylene/OIBK	50%	130	-							■	■	■	■	■	Wetting and dispersing additive to prevent flooding and floatation of solvent free and medium to high polar solventbased coatings.		
Pat-Add C 7715	Polycarboxylic acid polymer with polyoxane	Xylene/OIBK	50%	105	-							■	■	■	■	■	Wetting and dispersing additive that contains small amount of polyoxane to prevent flocculation, floatation and improves surface slip and leveling.		
Pat-Add C 7714	Polycarboxylic acid polymer	Water	50%	80	80	■	■	■									Wetting and dispersing additive to prevent flooding and floatation of waterborne coatings.		

# Our Products

## COATINGS AND INKS ADDITIVES



### Defoamers

#### Waterborne Systems

##### Mineral Oil Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Emulsion paints, exterior wall paints	Amine Neutr.	Decorative	Industrial	Colorants	PVC Range	Features & Benefits
Pat-Add AF 11	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■			30-80	Standard mineral oil based defoamer for emulsion paints.
Pat-Add AF 140	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■			30-80	Easy dispersible for emulsion paints.
Pat-Add AF 16	Mineral oil with hydrophobes	Mineral oil / water	54%	■	■	■			35-70	Economic version of Pat-Add AF 11.
Pat-Add AF 18	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■			40-70	For high PVC emulsion paints.
Pat-Add AF 21	Mineral oil with hydrophobes and polysiloxanes	Mineral oil	100%	■	■	■	■	■	20-80	APED and VOC-free defoamer for waterborne paints, inks and pigment dispersions.
Pat-Add AF 24	Mineral oil with hydrophobes	Mineral oil	100%	■	■	■	■	■	20-80	Recommended for high shear incorporation. For emulsion paints, inks and pigment dispersions.
Pat-Add AF 27	Mineral oil with silica dispersion	Mineral oil	100%	■	■	■	■	■	20-80	Defoamer for waterborne emulsion paints, inks and pigment concentrates

##### Silicone-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Post-Addition	Clearcoats	Pigmented	PVC Range	Features & Benefits
Pat-Add AF 31	Polydimethylsiloxane	PG/Butyl Carbitol	100%		■	■	■	□	0-25	For waterborne 2K PU, PU and Acrylic clears.
Pat-Add AF 32	Polyether modified PDMS		100%		■	■	■	□	0-25	For VOC-free waterborne systems, Architectural, Industrial, Inks and Auto OEM.
Pat-Add AF 34	Polyether modified PDMS		100%	■	■	□	■	□	0-25	For waterborne 2K PU, PU and Acrylic clears, high compatibility to clear systems.
Pat-Add AF 35	Polysiloxane		100%							Milbase defoamer for glycol based colorants, aqueous pigment concentrates, solventfree colorants and coatings.
Pat-Add AF 38	Modified PDMS		100%	■				■	18-25	Highly effective to eliminate micro foam, also for airless application.
Pat-Add AF 39	Modified PDMS		100%	■	■	■	■	■	0-25	Highly effective to eliminate micro foam, also for airless application. Easy dispersible.
Pat-Add AF 310	Modified PDMS		100%	■	□		□	■	0-25	Deaeration for WB Industrial coatings.
Pat-Add AF 318	Modified PDMS	DPM	58%	■				■	18-25	Fast deaeration for PU and PU/Acrylate systems.
Pat-Add AF 330	Modified PDMS		100%	■	□		□	■	0-25	Suitable for pigmented high gloss emulsion systems. Also effective in removal of microfoam.
Pat-Add AF 331	Modified PDMS		100%	■				■	18-25	For PU and PU/Acrylates Systems. Effective for elimination of microfoams. Requires high shear incorporation.
Pat-Add AF 340	Modified PDMS	Water	30%	■	■	□	□	■	0-25	Compatible defoamer for emulsion, good balance of effectiveness and compatibility.

#### Polymer-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Post-Addition	Clearcoats	Pigmented	PVC Range	Features & Benefits
Pat-Add AF 43	Polymeric		100%	□	■	■	■	■	0-25	For waterborne Architectural, Wood and Industrial formulations.
Pat-Add AF 44	Polymeric		100%	■	■	■	■	■	0-25	Easy dispersible defoamer for waterborne Architectural, Wood and Industrial Formulations.

#### Solventborne and Solventfree Systems

##### Silicone-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Clearcoats	Pigmented	Solventfree Systems	Features & Benefits
Pat-Add AF 35	Polysiloxane		100%					■	Milbase defoamer for aqueous colorants, solventfree colorants and coatings.
Pat-Add AF 70	Polysiloxane	Odorless White spirit	5%	■			■	■	Specifically for solventfree systems like epoxy and PU's.
Pat-Add AF 72	Fluoro modified polysiloxane	DBK	1%	■			■	□	Standard PDMS defoamer for all solventborne and solventfree systems.
Pat-Add AF 81	Polysiloxane	Isobutanol/ Solvesso 100	3%			■	□	■	Strong air releasing functionality and leveling. Recommended for epoxy clear castings.
Pat-Add AF 90H	Organo-modified polysiloxane		100%	■			■	■	Strong deaerator concentrate to eliminate macro- and microfoam. Suitable for high build, and high viscosity applications.
Pat-Add AF 114	Modified PDMS	DBK	1%	■			■	□	PFAS-free defoamer and deaerator for solventborne coatings.
Pat-Add AF 183	Modified Polysiloxane	DBK	0.70%	■	■	■	■	□	PFAS-free defoamer and deaerator for solventborne high gloss topcoats and clear coats.

##### Polymer-based Defoamers

Product Name	Composition	Diluent/ Solvent	Active content (%)	Milling	Letdown	Clearcoats	Pigmented	Solventfree Systems	Features & Benefits
Pat-Add AF 82	Polymeric	White spirit /butyl glycol	35%	■	■	■	■	■	Silicone and fluoro-free, recommended for Industrial Coatings and Inks. High compatibility for solventborne clearcoats.
Pat-Add AF 84	Polymeric		100%	■			■	■	Silicone and fluoro-free defoamer for solventfree polyurethanes and epoxy systems.
Pat-Add AF 86	Polymeric	Solvent Naphtha 100	25%	■	□	■	■	□	Defoamer for wide variety of solventborne and solventfree systems.

# Our Products

## COATINGS AND INKS ADDITIVES



### Surface Modification Additives

#### Waterborne Systems

Product Name	Composition	Solvent	Active content (%)	Surface Slip	Substrate Wetting	Anti-Crater effect	Leveling	Anti-Blocking	Features & Benefits
Pat-Add LE 1018	Polyether modified polydimethylsiloxane		100%	□	■	■	■		Excellent thermal stability, improved leveling and surface smoothness. Eliminates flooding and floating. Wide compatibility
Pat-Add LE 1023	Polyether modified polydimethylsiloxane		100%	■	■	■	■		Universal solvent-free slip and leveling additive. Supports defoaming for a defect-free application.
Pat-Add LE 1030	Silicone surfactant	Butyl cellosolve	15%		□		■		Improves leveling and substrate wetting of aqueous coatings. No slip properties
Pat-Add LE 1034	Polyether modified polydimethylsiloxane	DPGME	52%		■		■		Strong reduction of surface tension which significantly improves substrate wetting and leveling. No slip properties
Pat-Add LE 1040	Silicone surfactant	Butyl cellosolve	15%		□		■		Improves leveling and substrate wetting of aqueous coatings. No slip properties.
Pat-Add LE 1433	Fluoro modified polyether polyester	DPM / Water	55%	■	□	■	■		Fluoro-based. Improves leveling, substrate wetting and anti-cratering properties.
Pat-Add LE 1075	Silicone and Fluoro-free organic polymer	Water	65%		■		□		PFAS-free. Excellent substrate wetting of properties for Wood and Industrial Coatings.
Pat-Add LE 1078	Interfacial active polymer	PG/Water	80%		■	■	□		PFAS-free. Excellent substrate wetting of properties for Wood and Industrial Coatings.
Pat-Add LE 1079	Interfacial active polymer	Water	80%		■	■	□		PFAS-free. Superwetting properties for Wood and Industrial Coatings.
Pat-Add SL 1144	Polyether modified polysiloxane		100%	■	□	□	■	■	Excellent anti-blocking resistance, improves dirt pick-up resistance and surface slip for aqueous coatings

#### Solventborne / Solvent-free Systems

Product Name	Composition	Solvent	Active content (%)	Solventfree Systems	Surface Slip	Substrate Wetting	Anti-Crater System	Leveling	Anti-Blocking	Features & Benefits
Pat-Add FL 7	Polycrylate	Butyl acetate	50%			■	□	■		Silicone-free leveling agent with gloss improvement; suitable for solventborne clearcoats and pigmented systems.
Pat-Add FL 9	Polycrylate	Butyl acetate	45%			■	□	■		Silicone-free flow and leveling additive with air-release properties. Highly compatible. No impact on recoatability and intercoat adhesion
Pat-Add LE 1010	Polyether modified polydimethylsiloxane	Xylene	10%		□	■		□		General purpose leveling additive. For Wood and Architectural Coatings.
Pat-Add LE 1019	Polyether modified polydimethylsiloxane		100%	■	□	■	■	■		Excellent thermal stability, improved leveling and surface smoothness. Eliminates flooding and floating. Wide compatibility
Pat-Add LE 1020	Polyether modified polydimethylsiloxane	Xylene	10%		■	■		■		Improved surface slip and surface smoothness for solventborne coatings
Pat-Add LE 1023	Polyether modified polydimethylsiloxane		100%	■	■	■	■	■		Universal solvent-free slip, and leveling additive. Supports defoaming for a defect-free application.
Pat-Add LE 1068	Polyether modified polydimethylsiloxane	D80	52%	■	□	□	□	■		Solvent-free systems leveling and substrate wetting. Supports elimination of flooding and floating for pigmented systems.
Pat-Add LE 1477	Fluoro modified polycrylate	Butyl acetate	45%		■	■	■	■		Excellent reduction of surface tension. Improves leveling, substrate wetting and anti-cratering properties.
Pat-Add LE 1777	Fluoro-free interfacial polymer siloxane modified	Butyl acetate	35%		■	■	■	■		PFAS-free, direct replacement of fluoro-based, LE 1477. Improves leveling, substrate wetting and anti-cratering of coatings.
Pat-Add SL 1120	Polyether modified polydimethylsiloxane	Butyl acetate	15%		■	□	□	□	■	Increases slip and surface smoothness, scratch resistance and anti-blocking properties.
Pat-Add SL 1130	Polyether modified polysiloxane		100%	■	■	□	□	□	■	VOC-free. Increases slip and surface smoothness, scratch resistance and anti-blocking properties
Pat-Add SL 1134	Polyether modified polysiloxane		100%	■	■	□	□	□	■	VOC-free. Increases slip and surface smoothness, scratch resistance and anti-blocking properties
Pat-Add MA 2700	Polysiloxane based OH-functionality polymer		25%		■	■	■	■	■	Excellent anti-blocking properties, anti-graffiti, and dirt-pick up resistance. OH functionality.

### Rheology Modifiers

Product Name	Composition	Solvent	Active content (%)	Incorporation		Viscosity Development at			Flow Behavior		Features & Benefits
				Post Addition	With High Shear	Low shear rate	Medium shear rate (M)	High shear rate (H)	Pseudoplastic	Newtonian	
Pat-Add Rheol 99	HEUR	Water/ Propylene glycol	35%	■		□	■		■		HEUR based liquid associative thickener suitable for wide range of emulsion paints, pigment and extender slurries and colorants, with good flow and sag resistance properties.
Pat-Add Rheol 100	HEUR	Water/ Hentl Carbital	35%	■		□	■		■		VOC free version of Pat-Add Rheol 99.
Pat-Add Rheol 117	HEUR	Water/ Butyl Tripolycol	40%	■			■	□	■		VOC free HEUR thickener, for development of viscosity from mid to high shear. Prevents drastic viscosity drop on tinted bases.
Pat-Add Rheol 125P	HEUR	Water/ Hentl Carbital	25%	■		□	■		■		HEUR based liquid associative thickener suitable for wide range of low-VOC emulsion paints; excellent Stormer viscosity (KU) builder.
Pat-Add Rheol 306	HEUR	Water	20%	■					■	■	ICI/High shear viscosity builder. Excellent compatibility with associative thickener - Rheol 100, Rheol 117 or Rheol 333.
Pat-Add Rheol 333	HEUR	Water	50%	■		□	■	□	■		VOC free HEUR thickener. Single component for broad spectrum of rheology profiles.

### UPR Putty Additives

Product Name	Composition	Solvent	Active content (%)	Solventborne Systems			Recommended for			Features & Benefits
				Non-polar	Medium polar	Polar	Decorative	Industrial	Solventfree	
Pat-Add DA 2704	Unsaturated polyamides with acid polymers	Deaeromized White Spirit	52%				■	■	■	For dispersion of fillers such as calcium carbonate and aluminum trihydrate in UP and Epoxy-Vinyl resins. Reduces viscosity and dispersion time. Prevents settling of fillers.
Pat-Add DA 2708	Unsaturated polyamides with acid polymers	2-butoxyethanol	80%				■	■	■	For dispersion of fillers such as calcium carbonate and aluminum trihydrate in UP and Epoxy-Vinyl resins. Reduces viscosity and dispersion time. Prevents settling of fillers.
Pat-Add AF 75	Polymeric air releasing	Solvesso 100	38%	□	■	■	□	■	□	Prevents air entrapment in ambient temperature curing systems, composites and gelcoats.
Pat-Add Rheol 253	Organic polymer compound	Xylene/ Isobutanol / Solvesso 100	55%	□	□			■		Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.
Pat-Add Rheol 259	Organic polymer compound	Xylene/ Isobutanol / Solvesso 100	52%	□	□			■		Liquid rheology modifier to enhance the thixotropy of fumed silica and clay based additives in UPR system.

### Other Additives

#### Anti-Settling Additives

Product Name	Composition	Solvent	Active content (%)	Solventborne Systems			Recommended for			Features & Benefits
				Non-polar	Medium polar	Polar	Decorative	Industrial	Solventfree	
Pat-Add DA 831	Anionic compound	Water	36%	■	■	□	■	□		Provides anti-settling in highly filled solventborne systems. Recommended for pigments, extenders and matting agents.

# Our Products

## COATINGS AND INKS ADDITIVES



### Other Additives

#### Additives for water incorporation into SB Alkyd based systems

Product Name	Composition	Solvent	Active content (%)	Recommended for					Features & Benefits
				Solventborne Systems			Decorative	Industrial	
				Non polar	Medium polar	Polar			
Pat-Add DA 786	Anionic compound	Water	38%	■	■	□	■	□	For incorporation of water into solventborne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.
Pat-Add DA 788	Anionic compound	Water	45%	■	■	□	■	□	For incorporation of water into solventborne alkyd systems. Permits replacement of solvent with water to lower VOC's of applied formulation.

### Coalescing Additives

Product Name	Composition	Diluent/ Solvent	Active content (%)	Recommended for Aqueous Systems					Features & Benefits
				Emulsion paints, exterior wall paints	Amine Neutr.	Decorative	Industrial	Colorants	
Pat-Add Coal 88	Non-ionic compound		100%	■		■	□		Efficiently supports film formation. Low odor, excellent scrub resistance and paint shelf stability.
Pat-Add Coal 91	Non-ionic compound		100%	■		■	□		Low VOC and biobased coalescing agent. Replaces traditional VOC contributing coalescent.

### Flash Rust and Corrosion Inhibitors

Product Name	Composition	Diluent/ Solvent	Active content (%)	Emulsion paints, exterior wall paints	Recommended for Aqueous Systems			Features & Benefits
					Decorative	Industrial	Colorants	
Pat-Add RU 02	Aqueous solution of organic compounds	Water	30%	■	■	■	□	Liquid flash rust and corrosion inhibitor. Prevents in-can rust formation and improve corrosion resistance of paint films. Recommended for all types of waterborne systems.

## PUSHING BOUNDARIES: ADVANCED DISPERSING AGENT TECHNOLOGIES FOR VARIOUS COATING SYSTEMS



Innovative dispersing agents are transforming the performance and efficiency of waterborne, solventborne, and solvent-free systems. Designed to optimize pigment dispersion and stabilization, these cutting-edge solutions enhance formulation flexibility while promoting sustainability.

### **Key features and benefits include:**

**Fast Wetting of Pigment Surfaces** – Ensures rapid and uniform dispersion across various pigment types, improving color development and reducing processing time.

**High Pigment Loading Capability** – Enables the formulation of highly concentrated pigment dispersions

**Superior Stabilization** – Prevents pigment flocculation and sedimentation, ensuring long-term stability

**Energy-Efficient Dispersion** – Reduces milling time and power consumption, lowering overall energy costs and contributing to a more sustainable production process.

**Compatibility with Multiple Systems** – Designed for waterborne, solventborne, and solvent-free formulations, offering versatility across various coating applications.

**Sustainability Contribution** – Minimizes raw material consumption by enabling high-efficiency formulations.

By integrating these advanced dispersing technologies, formulators can achieve superior performance while advancing sustainability goals, paving the way for more efficient and environmentally responsible coating solutions.

# Our Products



## ➤ **PVC PLASTISOL ADDITIVES**

PVC plastisols are in used in numerous applications such as flooring, coated textiles, inks, dip coatings, artificial leather, carpet backing and car underbody sealants.

Patcham Pat-Add® Additives include wetting and dispersing agents, air release agents, defoamers, viscosity depressants and foam stabilizers. The range of additives are individually formulated to support production processes, solve problems/issues, and enhance material properties.



## ➤ **COMPOSITES**



The manufacturing processes of composite materials are numerous and often complex. With continuous research and strong focus on the recent innovation on composites, Patcham has developed additives and accelerators. These range of products can enable formulators to enhance and solve issues of various application including fiber-reinforced composites, gel coats and casting compounds, electrical and electronic insulations, polymer concrete as well as engineered and artificial stone.

## ➤ **CATALYSTS**

Patcham FZC as a global manufacturer of specialty additives has steadily grown to become a leading supplier of metal carboxylates and specialty additives for Polyurethanes. Catalysts change the rate of chemical reactions – usually to speed things up.

They are used in many plastics to provide cure times that are long enough for the practicality of the manufacturing process and short enough to allow adequate throughput to be economically viable.

Combinations of catalysts are often used to balance competing reactions.



## *Organizational Details*

### *GRI 2-1*

**Legal Name:** PATCHAM FZC

**Nature of ownership and legal form:** FZC

**Location of its headquarters:**

**HEAD OFFICE & MANUFACTURING UNIT**

P.O. Box : 7753, SAIF Zone, Sharjah, United Arab Emirates.

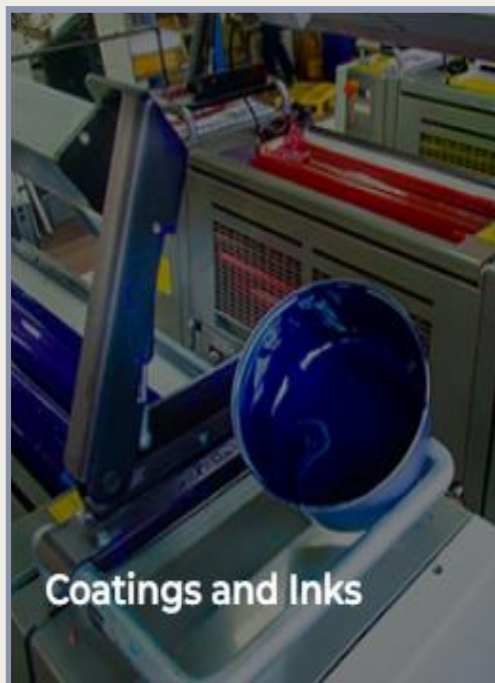
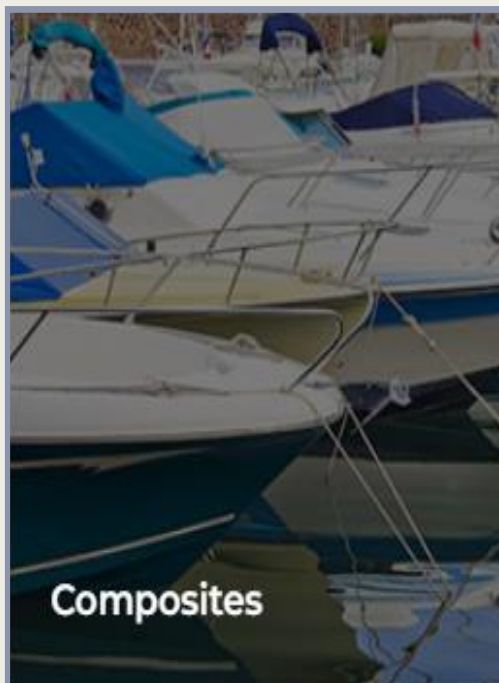
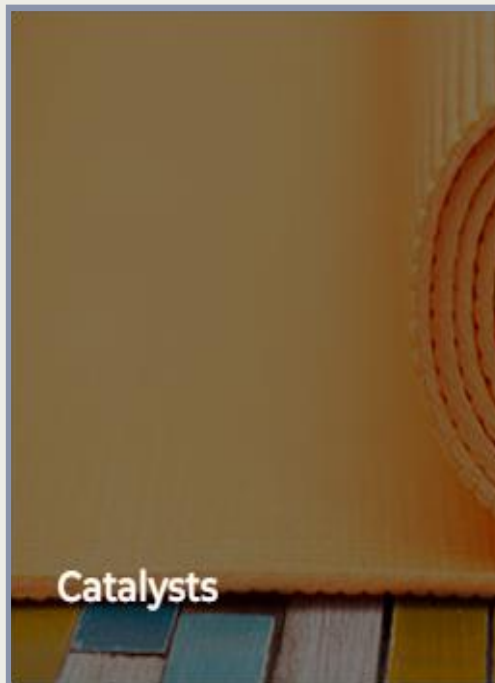
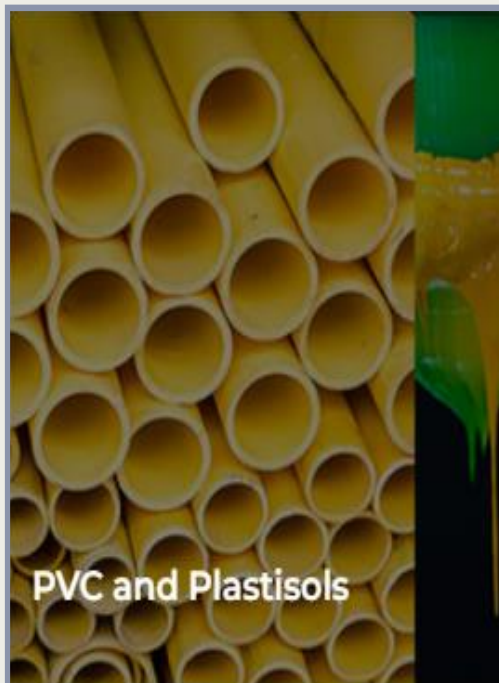
**PATCHAM USA LLC**

10 Commerce Road Fairfield, New Jersey – 07004. USA.

**PATCHAM SALES OFFICE INDIA**

B-52, Pravasi Industrial Estate Vishweshwar Nagar, Off Aarey Road, Goregoan (E) Mumbai-400 063 (India).

**Countries of operation:** UAE, USA & INDIA



## Organizational Profiles (GRI 2-1)

PATCHAM FZC is a Free Zone Establishment headquartered in SAIF Zone, Sharjah, United Arab Emirates, engaged in the design, manufacture, and supply of specialty chemical additives for industrial applications. The company operates a manufacturing and administrative facility in Sharjah, supported by PATCHAM USA LLC and a sales office in India. During 2024, PATCHAM FZC employed 120 employees across operations, technical, sales, and administrative functions. The organization serves both domestic and international markets, supplying performance-critical chemical additives used across multiple downstream industrial sectors.

## Entities Included in Sustainability Reporting (GRI 2-2)

This report covers all entities under PATCHAM FZC's operational control, consistent with its GHG inventory. Included entities are:

- Head Office & Manufacturing Unit – Sharjah, UAE
- PATCHAM USA LLC – New Jersey, USA
- PATCHAM Sales Office – Mumbai, India

There are no joint ventures, franchises, or leased operational assets excluded from reporting. All Scope 1 and Scope 2 emissions, and material Scope 3 value-chain emissions, are consolidated at the group level, resulting in total reported emissions of 5,417.18 tCO<sub>2</sub>e for 2024.

## Reporting Period, Frequency and Contact Point (GRI 2-3)

The reporting period covers 1 January 2024 to 31 December 2024, with sustainability reporting conducted on an annual basis. This is PATCHAM FZC's first comprehensive GRI-aligned sustainability report, establishing a formal ESG baseline. The Management Representative – ESG serves as the primary contact point for sustainability disclosures, supported by the Managing Director and functional heads responsible for environmental, social, and governance performance.

## Activities, Value Chain and Business Relationships (GRI 2-6)

PATCHAM FZC's value chain includes **upstream procurement of chemical raw materials and packaging**, internal manufacturing and quality control processes, and **downstream logistics and customer delivery**. Upstream activities are the largest environmental impact driver, contributing **1,936.20 tCO<sub>2</sub>e**, while downstream distribution contributes **2,724.00 tCO<sub>2</sub>e**. Business relationships include chemical suppliers, logistics providers, distributors, and industrial customers. Sustainability expectations are progressively integrated into supplier engagement, ESG clauses, and procurement decisions.

## Governance Structure (GRI 2-9)

PATCHAM FZC operates under a centralized governance structure led by the Managing Director, with defined accountability across Operations, Procurement, EHS, Finance, and ESG Management. ESG oversight is embedded into management review processes. Climate-related performance, including Scope 1 (283.38 tCO<sub>2</sub>e), Scope 2 (473.60 tCO<sub>2</sub>e), and Scope 3 emissions (4,660.20 tCO<sub>2</sub>e), is reviewed annually to support strategic decision-making, capital allocation, and long-term Net Zero planning.

## Role of the Highest Governance Body in Oversight of Sustainability (GRI 2-12)

The Managing Director retains ultimate accountability for sustainability performance and ESG integration. The governance body reviews GHG performance, energy efficiency initiatives, compliance status, and SBTi-aligned targets, including the commitment to 42% emissions reduction by 2030 and Net Zero by 2050. Sustainability objectives are integrated into business strategy, risk management, and investment planning, ensuring alignment between growth and environmental responsibility.

## Policy Commitments (GRI 2-23)

PATCHAM FZC is committed to responsible business conduct through formal policies covering ethics, anti-corruption, human rights, labor standards, health and safety, environmental protection, and data privacy. These policies align with UAE regulations and international standards. The company promotes integrity, transparency, and respect for human rights throughout its operations and supply chain.

## Stakeholder Engagement (GRI 2-29)

PATCHAM FZC engages stakeholders including employees, suppliers, customers, regulators, and local communities. Stakeholders are identified based on influence, dependency, and impact on operations. Engagement methods include meetings, audits, training, surveys, and consultations. Feedback informs risk management, sustainability priorities, and continuous improvement initiatives.

## Identifying Material Impacts (GRI 3-1)

Material topics were identified through internal ESG workshops, review of GHG emission data, regulatory requirements, customer ESG expectations, and sector-specific risks associated with chemical manufacturing. Priority was given to topics with high environmental and social impact, including climate change, energy use, emissions, occupational health and safety, and responsible supply chains. Quantitative emissions analysis confirmed Scope 3 emissions (87% of total) as the most material environmental topic.

## List of Material Topics (GRI 3-2)

Material topics for PATCHAM FZC include occupational health and safety, hazardous waste management, emissions, water stewardship, ethical conduct, employee welfare, supply chain responsibility, data security, customer safety, and regulatory compliance. These topics reflect the company's chemical manufacturing activities and stakeholder expectations.

### MOST ENVIRONMENTAL TOPICS

- Air emissions (VOC, NOx, SOx, particulate matter)
- Hazardous chemical handling and storage
- Wastewater generation and discharge quality
- Hazardous and non-hazardous waste management
- Energy consumption and energy efficiency
- Greenhouse gas (GHG) emissions
- Spill prevention and emergency response
- Compliance with environmental regulations
- Product stewardship and chemical safety
- Environmental risk management in operations

### MOST MATERIAL SOCIAL TOPICS

- Employee engagement and satisfaction
- Skills development and upskilling
- Workforce diversity and inclusion
- Employee welfare programs
- Contractor and third-party safety
- Ethical recruitment practices
- Freedom of association
- Supplier labor standards
- Work-life balance initiatives
- Workplace harassment prevention

### MOST MATERIAL GOVERNANCE TOPICS

- ESG governance and oversight
- Board and management accountability
- Policies and procedures management
- Supplier due diligence and screening
- Third-party risk management
- Compliance training and awareness
- Record keeping and documentation
- Audit and monitoring processes
- Ethical procurement practices
- Stakeholder transparency and disclosures

## Management of Material Topics (GRI 3-3)

PATCHAM FZC manages each identified material topic through clearly defined policies, operational procedures, and control measures integrated into day-to-day business activities. Roles and responsibilities are assigned to relevant departments and management personnel to ensure effective implementation. Employees receive appropriate training and awareness programs related to their functions and associated ESG risks. Performance is monitored using measurable key performance indicators, internal reviews, and periodic audits. Identified gaps or non-conformities are addressed through corrective and preventive actions. Management regularly reviews progress to ensure continual improvement, regulatory compliance, and ongoing alignment with the company's sustainability and ESG objectives.



## Management of Material Topics (GRI 3-3)



**Risk Management & Regulatory Compliance**



**Environmental & Resource Management**



**Product Innovation**



**Health & Safety**

# Sustainable Development Goal

## UN SDGS ALIGNED



# Governance

## Economic Value Generated (GRI 201-1)

PATCHAM FZC generates economic value through manufacturing and supplying chemical additives, distributing value via employee wages, supplier payments, operational costs, and taxes.

Reinvestments support capacity building, safety systems, technology upgrades, and sustainability initiatives, contributing to long-term business resilience.

## Financial Implications of Climate Change (GRI 201-2)

Climate-related risks include energy price volatility, regulatory tightening, and supply-chain disruptions. PATCHAM FZC has allocated approximately USD 660,000 toward renewable energy, fleet electrification, and ESG systems to mitigate climate risks while capturing efficiency and cost-reduction opportunities.

## Defined Benefit Obligations (GRI 201-3)

PATCHAM FZC complies with statutory end-of-service and employee benefit obligations as required under UAE labor law. Provisions are accounted for and periodically reviewed to ensure adequate coverage and financial responsibility toward employees.

## Government Financial Assistance (GRI 201-4)

PATCHAM FZC currently operates without reliance on significant government financial assistance. Any incentives, rebates, or regulatory benefits received are transparently recorded and utilized in compliance with applicable laws.

## Entry-Level Wage Ratio (GRI 202-1)

Entry-level wages at PATCHAM FZC meet or exceed applicable minimum wage and living wage benchmarks. Compensation structures are periodically reviewed to ensure fairness, competitiveness, and compliance with legal requirements.

## Local Management Hiring (GRI 202-2)

PATCHAM FZC encourages hiring from local and regional talent pools for managerial and technical roles where feasible. This supports local economic development and strengthens organizational understanding of regional regulatory and market conditions.

## Infrastructure Investments (GRI 203-1)

PATCHAM FZC invests in infrastructure such as safe manufacturing facilities, logistics systems, and digital tools that support efficient operations, employee safety, and environmental protection.

## Indirect Economic Impacts (GRI 203-2)

The company contributes indirectly to economic development through local sourcing, employment generation, supplier engagement, and demand for logistics and support services.

## Local Supplier Spending (GRI 204-1)

A significant proportion of PATCHAM FZC's procurement spend is directed toward local and regional suppliers, supporting local economies while ensuring quality, compliance, and supply continuity.

## Corruption Risk Assessment (GRI 205-1)

PATCHAM FZC conducts systematic corruption risk assessments across its operations and third-party relationships. Key risk areas include procurement, supplier selection, contract management, and interactions with regulatory authorities. Risks are identified, evaluated, and mitigated through internal controls, due diligence procedures, segregation of duties, and periodic management reviews.

## Anti-Corruption Training (GRI 205-2)

PATCHAM FZC provides regular anti-corruption and ethics training to employees at relevant levels. Training covers ethical conduct, anti-bribery and anti-corruption laws, conflict of interest management, and whistleblowing mechanisms. This ensures employees understand expectations, recognize risks, and act responsibly in all business activities.

## Confirmed Incidents (GRI 205-3)

During the reporting period, PATCHAM FZC recorded no confirmed incidents of corruption. The company maintains robust reporting, investigation, and disciplinary procedures. Any future incidents would be promptly investigated and addressed through corrective actions, disciplinary measures, and control enhancements to prevent recurrence.

# Environment

## Materials Used (GRI 301-1)

PATCHAM FZC systematically tracks raw materials used in chemical additive production by type, weight, and volume. This monitoring supports efficient resource utilization, cost control, and compliance with regulatory requirements. Material data is reviewed periodically to identify opportunities for optimization, waste reduction, and improved environmental performance.

## Recycled Materials Used (GRI 301-2)

Where technically and commercially feasible, PATCHAM FZC incorporates recycled or reclaimed materials into packaging and non-critical inputs. This approach reduces reliance on virgin resources, lowers environmental impact, and supports circular economy principles while ensuring product quality, safety, and compliance with applicable standards.

## Reclaimed Products and Packaging Materials (GRI 301-3)

PATCHAM FZC promotes reuse and recycling of packaging materials wherever possible. Reclaimed packaging helps minimize waste generation and disposal impacts. Waste segregation and recycling practices are implemented to support responsible material management and continuous improvement in environmental performance across operations.

## Energy Consumption within the Organization (GRI 302-1)

PATCHAM FZC's energy consumption is primarily driven by electricity usage for manufacturing, laboratories, and offices, supplemented by diesel consumption for DG sets and company vehicles. In 2024, energy-related emissions resulted in Scope 1 emissions of 283.38 tCO<sub>2</sub>e and Scope 2 emissions of 473.60 tCO<sub>2</sub>e. Electricity accounts for the largest share of operational energy demand, reflecting the energy-intensive nature of chemical additive production.

## Reduction of Energy Consumption (GRI 302-4)

Energy efficiency initiatives implemented during 2024 include LED lighting upgrades, preventive maintenance of equipment, energy audits, and logistics optimisation, contributing to improved operational efficiency. PATCHAM FZC has committed to 100% renewable electricity by 2030, supported by planned rooftop solar PV installations and Renewable Energy Certificates (RECs). These measures are expected to reduce Scope 2 emissions by up to 100% (473.60 tCO<sub>2</sub>e) over the medium term.

## Water Monitoring Program (GRI 303-2)

PATCHAM FZC implements a water monitoring program to identify, assess, and manage water-related impacts across its operations. Water consumption is tracked regularly to improve efficiency and prevent wastage. The program supports responsible water use, compliance with regulations, and continuous improvement in water stewardship and environmental performance.

## Sewage Management Systems (GRI 303-3)

PATCHAM FZC manages wastewater and sewage through approved municipal connections and authorized treatment facilities. Discharges comply with local regulatory standards to prevent environmental contamination. Regular monitoring and maintenance of sewage systems ensure safe disposal, protect public health, and support responsible water management across operations.

## Ecological Design Practices (GRI 303-4)

PATCHAM FZC manages wastewater and sewage through approved municipal connections and authorized treatment facilities. Discharges comply with local regulatory standards to prevent environmental contamination. Regular monitoring and maintenance of sewage systems ensure safe disposal, protect public health, and support responsible water management across operations.

## Ecological Design Practices (GRI 304-2)

PATCHAM FZC integrates ecological design considerations into its operations to minimize impacts on biodiversity and natural ecosystems. Facility layouts, material selection, and process planning aim to reduce land disturbance, emissions, and resource consumption. These practices support habitat protection, regulatory compliance, and sustainable development aligned with environmental stewardship principles.

## Direct (Scope 1) GHG Emissions (GRI 305-1)

PATCHAM FZC's Scope 1 emissions totaled 283.38 tCO<sub>2</sub>e in 2024, arising from diesel combustion in DG sets and company vehicles, and refrigerant leakage from HVAC systems. CO<sub>2</sub> emissions accounted for 260.10 tCO<sub>2</sub>e, while refrigerants contributed 12.68 tCO<sub>2</sub>e. The company has identified fuel efficiency, EV adoption, and low-GWP refrigerants as priority mitigation measures.

## Energy Indirect (Scope 2) GHG Emissions (GRI 305-2)

Scope 2 emissions from purchased electricity amounted to 473.60 tCO<sub>2</sub>e, calculated using UAE grid emission factors. Electricity consumption supports manufacturing processes, climate control, and administrative operations. Planned renewable energy sourcing is expected to eliminate Scope 2 emissions by 2030, aligning with PATCHAM FZC's SBTi pathway.

## Other Indirect (Scope 3) GHG Emissions (GRI 305-3)

Scope 3 emissions totaled 4,660.20 tCO<sub>2</sub>e, representing 87% of total emissions. Key contributors include purchased goods and services (1,936.20 tCO<sub>2</sub>e) and downstream transportation (2,724.00 tCO<sub>2</sub>e). These emissions reflect the carbon-intensive nature of chemical raw materials and logistics. Supplier engagement and green logistics are central to reduction efforts.

## Other Indirect (Scope 3) GHG Emissions – Upstream Activities (GRI 305-3)

PATCHAM FZC's upstream Scope 3 GHG emissions arise from the procurement of chemical raw materials, additives, solvents, packaging materials, and associated inbound transportation and supplier operations. For the 2024 reporting year, upstream emissions totaled 1,936.20 tCO<sub>2</sub>e, representing approximately 36% of total organizational emissions (5,417.18 tCO<sub>2</sub>e). These emissions are driven by the energy-intensive production of chemicals, supplier electricity use, and long-distance transportation of materials to the Sharjah manufacturing facility. PATCHAM FZC has identified upstream emissions as a priority reduction area and has initiated supplier ESG engagement, low-carbon sourcing, logistics optimization, and mandatory GHG data disclosure to achieve a 30% reduction by 2030.

## Other Indirect (Scope 3) GHG Emissions – Downstream Activities (GRI 305-3)

PATCHAM FZC's downstream Scope 3 GHG emissions are primarily associated with the outbound transportation and distribution of finished chemical additives, as well as the end-of-life treatment of packaging materials and containers. In 2024, downstream emissions amounted to 2,724.00 tCO<sub>2</sub>e, accounting for approximately 50% of total GHG emissions. These emissions are influenced by transportation distances, freight modes, fuel types, and customer delivery requirements. To address downstream impacts, PATCHAM FZC is implementing green logistics contracts, route optimization, cleaner fuel adoption, recyclable packaging design, and customer collaboration, supporting its SBTi-aligned target of a 30% reduction in Scope 3 emissions by 2030.

## Reduction of GHG Emissions (GRI 305-5)

PATCHAM FZC has committed to SBTi-aligned targets, including a 42% reduction in total emissions by 2030, equivalent to reducing emissions from 5,417.18 tCO<sub>2</sub>e to approximately 3,140 tCO<sub>2</sub>e. Long-term ambition is Net Zero by 2050, supported by renewable energy, low-carbon procurement, EV fleets, and supplier decarbonization programs.

## Hazardous Waste (GRI 306-3)

PATCHAM FZC generates hazardous waste including chemical residues, contaminated containers, and process by-products. Such waste is identified, segregated, labeled, and safely stored. Disposal is handled only by licensed contractors in compliance with UAE regulations, supported by monitoring, training, and waste reduction initiatives.

## Non-Hazardous Waste (GRI 306-3)

PATCHAM FZC manages non-hazardous waste such as packaging materials, general office waste, and non-contaminated scrap through segregation, reuse, and recycling practices. Authorized recyclers are engaged wherever feasible to minimize landfill disposal, support circular economy principles, and reduce the company's overall environmental footprint.

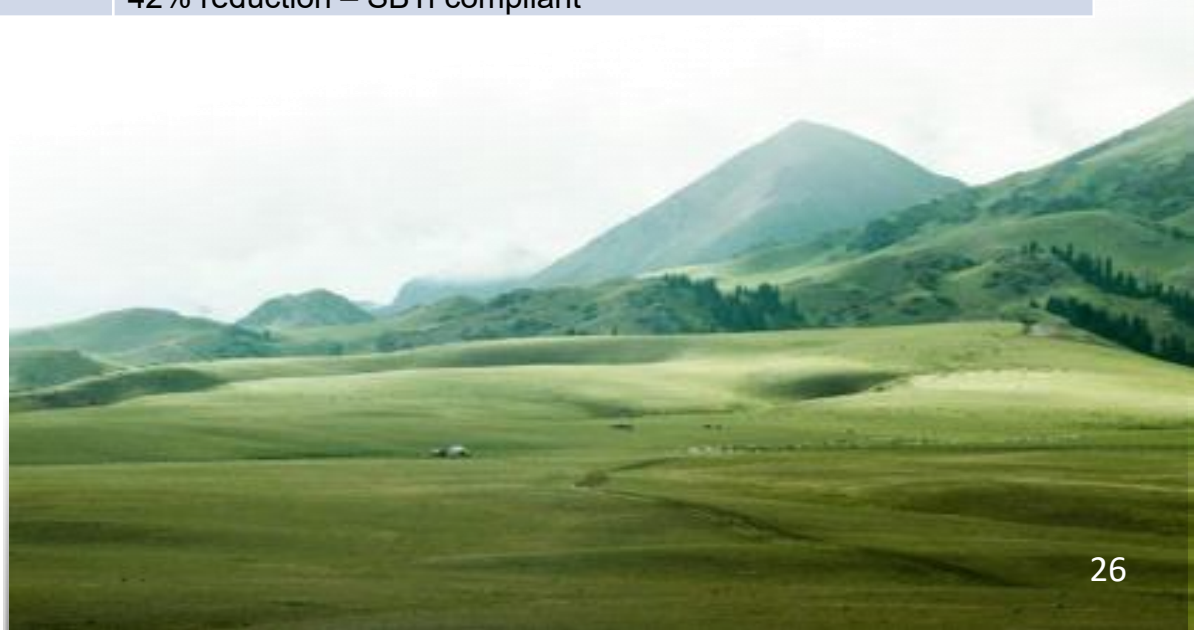
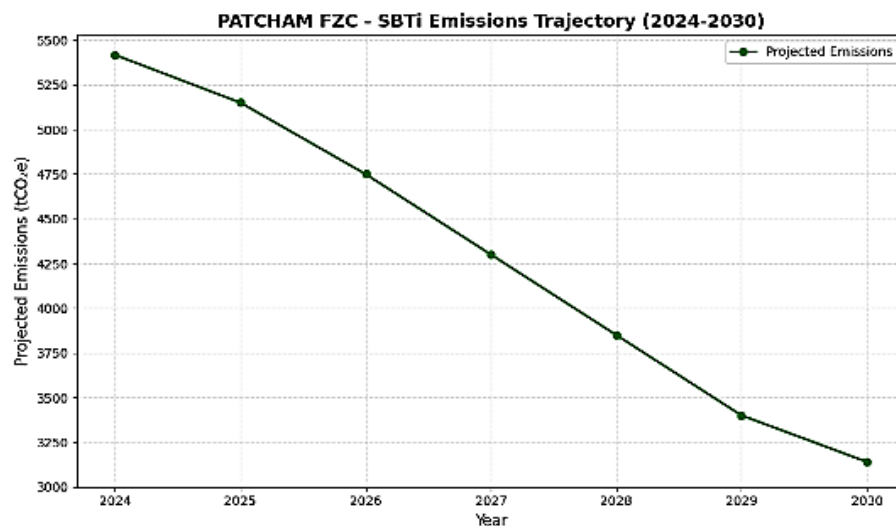
# *Emission Reduction Target Table*

## Emission Reduction Target Table

Scope	2024 Baseline (tCO <sub>2</sub> e)	2026 Target	2030 Target	2040 Target	Net Zero
Scope 1 – Direct	283.38	–10%	–42%	–80%	2050
Scope 2 – Electricity	473.60	–25%	–100%	–100%	2050
Scope 3 – Upstream	1,936.20	–10%	–30%	–67%	2050
Scope 3 – Downstream	2,724.00	–10%	–30%	–67%	2050
<b>Total Emissions</b>	<b>5,417.18</b>	<b>–15%</b>	<b>–42%</b>	<b>–75%</b>	<b>2050</b>

## SBTi Emissions Trajectory

Year	Projected Emissions (tCO <sub>2</sub> e)	Key Drivers
2024	5,417	Base year
2025	5,150	Energy efficiency, logistics optimisation
2026	4,750	Solar PV, supplier engagement
2027	4,300	EV fleet, green procurement
2028	3,850	Low-carbon raw materials
2029	3,400	Renewable electricity dominance
2030	3,140	42% reduction – SBTi compliant



# Social

## Employment (GRI 401)

PATCHAM FZC is committed to providing a fair, inclusive, and supportive workplace. Employment practices emphasize transparent recruitment, equal opportunity, career development, and employee retention. Workforce composition, recruitment, and turnover are monitored to ensure a skilled, motivated, and stable team that contributes to long-term organizational sustainability.

### New Employee Hires and Turnover (GRI 401-1)

PATCHAM FZC monitors employee hiring and turnover by department and role to identify trends and support effective workforce planning. This data-driven approach helps maintain a balanced, competent workforce and informs strategies to improve retention and employee engagement.

### Benefits Provided to Employees (GRI 401-2)

PATCHAM FZC provides benefits in line with UAE labor law, including health insurance, leave entitlements, end-of-service benefits, and wellness initiatives. Additional support for professional development contributes to employee well-being, satisfaction, and long-term retention.

## Parental Leave (GRI 401-3)

PATCHAM FZC's parental leave policies comply with UAE regulations, providing paid leave for eligible mothers and fathers. Employees returning from parental leave are supported through flexible work arrangements, promoting work-life balance and ensuring continuity in career development.

### Labor/Management Relations (GRI 402)

PATCHAM FZC, UAE-based chemical additives manufacturer, ensures transparent labor-management relations. Employees are informed of operational changes per UAE labor regulations. Consultation forums, feedback channels, and grievance mechanisms enable constructive dialogue, aligning workforce activities with company objectives, enhancing satisfaction, reducing turnover, and promoting fair, responsible, and sustainable labor practices.

**GRI 402-1:** All operational changes are communicated with minimum notice periods, allowing employees to plan accordingly and maintain business continuity.

## OHS Management System (GRI 403-1)

PATCHAM FZC maintains a comprehensive Occupational Health & Safety (OHS) management system across its manufacturing, warehousing, and logistics operations. Safety risks associated with chemical handling are proactively managed through employee training, provision of personal protective equipment (PPE), adherence to standard operating procedures (SOPs), and emergency preparedness measures. In 2024, all 120 employees operated under zero fatality conditions, with near-miss and incident reporting ensuring continuous improvement. Regular safety audits, drills, and monitoring reinforce a culture of safety, demonstrating PATCHAM FZC's strong commitment to protecting its workforce and ensuring safe, responsible operations.

**GRI 403-8:** All employees and on-site contractors are covered under PATCHAM FZC's occupational health and safety management system.

**GRI 403-9:** Workplace injuries are recorded, investigated, and analyzed to prevent recurrence and improve safety performance.

**GRI 403-10:** Work-Related Ill Health surveillance and medical monitoring help identify and prevent occupational illnesses, particularly related to chemical exposure.



## Training and Education (GRI 404)

PATCHAM FZC provides regular training programs to enhance employee skills, safety awareness, and sustainability performance. Training covers chemical safety, occupational health and safety, regulatory compliance, ESG principles, energy conservation, and environmental responsibility. These programs ensure employees are competent to manage chemical operations safely while supporting efficient and compliant production processes. Sustainability-focused training enables employees to actively contribute to energy efficiency, emissions reduction, and responsible resource use initiatives. Continuous learning strengthens workforce capability, improves operational excellence, and reinforces PATCHAM FZC's commitment to employee development, safety, and long-term sustainable business growth.

**GRI 404-1:** Average Hours of Training per Employee – PATCHAM FZC tracks average training hours per employee to evaluate skill development, safety competence, and the effectiveness of learning programs across its chemical additives operations.

**GRI 404-2:** Programs for Upgrading Employee Skills – PATCHAM FZC implements structured skill enhancement and capacity-building programs aligned with job roles, career progression, operational excellence, and ESG objectives, including chemical safety, compliance, and sustainability practices.

**GRI 404-3:** Performance and Career Development Reviews – Employees undergo periodic performance evaluations and career discussions to identify training needs, support professional growth, and guide development opportunities in line with organizational goals.

## Diversity and Equal Opportunity (GRI 405)

PATCHAM FZC promotes diversity, equity, and inclusion by ensuring equal opportunity in recruitment, career development, and remuneration across its chemical additives operations. The company values diverse perspectives within governance and the workforce, fostering innovation, collaboration, and operational effectiveness. Workforce demographics are monitored to support balanced representation, while hiring, compensation, and promotion decisions are merit-based and free from discrimination. Through inclusive policies and fair employment practices, PATCHAM FZC enhances employee engagement, attracts skilled talent, and reinforces its reputation as a responsible and equitable employer.

**GRI 405-1:** Diversity metrics are tracked across governance bodies and employees.

**GRI 405-2:** Gender pay ratios are monitored to promote equitable and unbiased remuneration practices.

## Non-Discrimination (GRI 405-1)

PATCHAM FZC upholds a zero-tolerance approach to discrimination based on gender, nationality, religion, age, or other protected characteristics. Fair treatment is ensured through merit-based recruitment, remuneration, and promotion practices. Any discrimination concerns are addressed through formal grievance mechanisms, reinforcing an inclusive, respectful, and equitable workplace culture.

## Child Labor and Forced Labor (GRI 408 & 409)

PATCHAM FZC strictly prohibits child labor and any form of forced or compulsory labor across its operations and supply chain. Employment practices comply with UAE labor laws, including age verification and freely chosen employment. Supplier adherence is monitored to ensure ethical, lawful, and responsible labor standards.

## Human Rights Assessment (GRI 412)

PATCHAM FZC is committed to respecting and protecting human rights across its operations and value chain. Periodic assessments are conducted to identify and mitigate potential human rights risks related to labor practices, health and safety, and working conditions. Compliance with UAE labor laws and ethical standards is ensured, reinforcing responsible and sustainable business conduct.

**GRI 412-1:** PATCHAM FZC conducts periodic human rights reviews across its operations to assess compliance with UAE labor laws, ethical standards, and internal policies.

**GRI 412-2:** Employees receive training and awareness on human rights principles, fair labor practices, and respectful workplace behavior to support responsible operations.

**GRI 412-3:** Supplier and contractor agreements include human rights and ethical conduct clauses to promote compliance and responsible practices across the value chain.

## Local Communities (GRI 413)

PATCHAM FZC engages with local communities through consultation, feedback mechanisms, and responsible engagement initiatives aligned with UAE regulations and ESG standards. Community focus areas include environmental awareness, education, employment opportunities, and mitigation of potential impacts arising from chemical manufacturing and logistics activities. Through proactive engagement and transparent communication, PATCHAM FZC supports positive community relationships and responsible local development.

**GRI 413-1:** PATCHAM FZC implements community engagement and development initiatives to foster positive social outcomes.

**GRI 413-2:** Operations with potential or significant community impacts are identified, monitored, and mitigated through risk management and compliance measures.

## Supplier Social Assessment (GRI 414)

PATCHAM FZC conducts social assessments of new and existing suppliers to ensure ethical and responsible practices across its chemical additives supply chain. Supplier screening covers labor conditions, human rights, non-discrimination, prohibition of child and forced labor, and occupational health and safety. Suppliers identified with potential or actual negative social impacts are engaged to implement corrective actions or, where necessary, phased out. By integrating social criteria into procurement processes, PATCHAM FZC strengthens supply chain accountability, mitigates reputational and operational risks, and ensures alignment with its ESG commitments and responsible sourcing objectives.

**GRI 414-1:** New suppliers are screened against defined social criteria prior to engagement.

**GRI 414-2:** Actual and potential negative social impacts in the supply chain are identified, monitored, and addressed through corrective actions.

## Information Security (GRI 418)

PATCHAM FZC is committed to protecting the confidentiality, integrity, and availability of sensitive business, customer, and stakeholder information. Robust information security controls, access management protocols, and secure IT systems are implemented to safeguard data from unauthorized access, loss, or misuse. Cybersecurity awareness programs are conducted to educate employees on data protection responsibilities and safe digital practices. Regular monitoring, system updates, and preventive controls strengthen resilience against cyber threats. During the reporting period, no substantiated data breaches were recorded, demonstrating effective data protection practices, regulatory compliance, and responsible digital governance across all business operations.

**GRI 418-1:** PATCHAM FZC has not recorded any substantiated data breaches. Robust cybersecurity controls and awareness programs protect sensitive information.

## Socio-Economic Compliance (GRI 419)

PATCHAM FZC ensures compliance with all applicable laws and regulations related to social and economic activities, including labor, health and safety, environmental protection, and business conduct. Regular monitoring, internal controls, and compliance reviews are implemented to identify and address potential non-compliance risks. Employees are made aware of relevant legal and ethical requirements through policies and training.

**GRI 419-1:** During the reporting period, PATCHAM FZC recorded no significant fines or sanctions for non-compliance with laws and regulations in the social and economic area.



# Sustainability Performance Data

(01st January 2024 To 31st December 2024 )

KPI No	KPI	Unit of Measure	2024
KPI 1	Employee health and safety	Count	0
KPI 2	Working Conditions	Percentage	100
KPI 3	Social Dialogue	Count	65
KPI 4	Career management and training	Percentage	100
KPI 5	Child labor, forced labor, and human trafficking	Count	0
KPI 6	Discrimination and Harassment	Count	0
KPI 7	External stakeholder human rights	Count	0
KPI 8	Energy consumption and GHGs	kWH	836793.5
KPI 9	Water	Cubic Meters	834.2
KPI 10	Air Pollution	Index	19
KPI 11	Materials, chemicals, and waste	Liters	23956
KPI 12	Customer health and safety	Count	0
KPI 13	Environmental services and advocacy	Count	10

KPI No	KPI	Unit of Measure	2024
KPI 14	Percentage of targeted suppliers who have signed the supplier code of conduct	Percentage	100
KPI 15	Percentage of targeted suppliers with contracts that include clauses on environmental, labor, and human rights requirements	Percentage	100
KPI 16	Percentage or number of targeted suppliers covered by a sustainability assessment	Percentage	100
KPI 17	Percentage or number of targeted suppliers covered by a sustainability on-site audit	Percentage	100
KPI 18	Percentage or number of all buyers who received training on sustainable procurement	Percentage	100
KPI 19	Percentage or number of audited or assessed suppliers engaged in corrective actions or capacity building	Percentage	100
KPI 20	Number of hours worked	Hours	258800
KPI 21	Number of days lost to work-related injuries, fatalities, and ill health	Count	0
KPI 22	Number of work-related accidents	Count	0
KPI 23	Ratio of the annual total compensation for the highest paid individual, to the median annual total compensation for all employees	Ratio	5
KPI 24	Average hours of training per employee	Hours	18.5

# Sustainability Performance Data

(01st January 2024 To 31st December 2024 )

KPI No	KPI	Unit of Measure	2024
KPI 25	Percentage of women employed in the whole organization	Percentage	12
KPI 26	Percentage of women at top management level	Percentage	7
KPI 27	Percentage of women within the organization's board	Percentage	44
KPI 28	Average unadjusted gender pay gap	Percentage	0
KPI 29	Percentage of employees from a minority or vulnerable group in the whole organization	Percentage	45
KPI 30	Percentage of employees from a minority or vulnerable group at top management level	Percentage	33
KPI 31	Total gross Scope 1 GHG emissions	MT of CO2e	283.38
KPI 32	Total gross Scope 2 GHG emissions (market or location based)	MT of CO2e	410.43
KPI 33	Total gross Scope 3 GHG emissions	MT of CO2e	4660.2
KPI 34	Total gross Scope 3 Downstream GHG emissions	MT of CO2e	2724
KPI 35	Total gross Scope 3 Upstream GHG emissions	MT of CO2e	1936.2
KPI 36	Total renewable energy consumption	kWH	1575
KPI 37	Total water consumption	Liters	601598

KPI No	KPI	Unit of Measure	2024
KPI 38	Total amount of water recycled and reused	Liters	350
KPI 39	Total weight of hazardous waste	Tons	72.55
KPI 40	Total weight of non-hazardous waste	Kgs	21123
KPI 41	Total weight of waste recovered	Kgs	109833
KPI 42	Percentage of employees trained on business ethics	Percentage	100
KPI 43	Number of reports related to whistleblower procedure	Count	0
KPI 44	Number of confirmed corruption incidents	Count	0
KPI 45	Number of confirmed information security incidents	Count	0
KPI 46	Product Use	Count	25
KPI 47	Product end-of-life	Count	100
KPI 48	Total weight of air pollutants	Metric Tons	25

# Sustainability Performance Data

(01st January 2024 To 31st December 2024 )

KPI No	KPI	Unit of Measure	2024
KPI 49	Percentage of direct employees covered by a living wage benchmarking analysis	Percentage	100
KPI 50	Percentage of direct employees paid below living wage	Percentage	0
KPI 51	Percentage of all employees paid below living wage, including direct employees and non-employee workers	Percentage	0
KPI 52	Percentage of average wage gap for direct employees paid below living wage against a living wage benchmark	Percentage	0
KPI 53	Biodiversity	Percentage	25
KPI 54	Number of identified discrimination or harassment incidents or corrective actions	Count	0

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## INDEPENDENT ASSURANCE STATEMENT

This CSR report has been independently verified by BMQR, a third-party assurance provider, in accordance with ISO 17029:2019. The assurance engagement covered a Type 2 assurance of the information and data disclosed within this report.

The scope of the assurance included verifying the accuracy, completeness, and reliability of the disclosures made under all relevant sections of the GRI Standards. The assurance provider conducted the engagement based on applicable assurance principles and issued an assurance statement confirming the integrity of the disclosed information.

<b>Name of Assurance Provider</b>	: BMQR Certifications Pvt Ltd,
<b>Standard Used</b>	: ISO 17029:2019 and GRI.
<b>Type of Assurance</b>	: Type 2
<b>Web URL</b>	: <a href="http://www.bmqrassurance.com">www.bmqrassurance.com</a>



### Authorized Representative (Assurer):

Name	: S. Elango
Designation	: Associate Certified Sustainability Assurance Practitioner
Certificate No	: AA1000 (ACSAP) C.N: A09122401
Signature	: 