Sustainability at





November- 2024

BUILDING A SUSTAINABLE WORLD

Rooted in our mission
We are Committed to be an agent
of positive Change for the
stakeholders and
Community by pursuing Sustainable
and an Ethical business Practices

Commitment & Dedication toward Sustainability

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Maheen Textile Mills (Pvt) Ltd is committed & dedicated delivering high quality, sustainable textile solutions that not only meet but exceed the expectations of our global clientele. Our unwavering commitment to innovation, quality, and sustainability positions us as leaders in the textile industry, driving us to continually push the boundaries of excellence.



Sustainability Strategy



1-Materials & ChemicalsSustainable in, sustainable out.





2-Processes & Energy Clean energy, cleaner world.



3-Community & WelfareSustainable living, stronger community.



4-CertificationsGet certified, make a difference.













BCI Cotton

BCI Membership to offer BCI cotton to valuable customers



- Sustainable cotton production
- Reduces pesticide use
- Supports farmers' livelihoods

- 1. Offering BCI material to customers
- 2. Priority to buying BCI instead of other material













Organic Cotton

Maheen is GOTS certified, gradually increasing its usage of organic cotton over the last decade:

GOTS cotton is:

- Organic cotton production
- Environmentally friendly
- Socially responsible



- 1. GOTS Certified and enhancing the use of Organic Cotton
- 2. Finding the sources for import of organic cotton to offer better prices to customers.













GRS Polyester

Maheen is GRS certified, gradually increasing its usage of organic cotton over the last decade:



- 1. GRS Certified and enhancing the use of GRS.
- 2. Instalation of own recycling plant till 2030













Sustainable Material

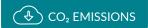
4,646,889 Kgs

BCI, GOTS, GRS & OCS materials use in last 03 years

- 1. Increase the use of sustainable material up to 40% till 2030 & 60% till 2050
- 2 Getting OCS & RCS Certification till 2025 to enhance the use of sustainable material
- 3. Instalation of own recycling plant till 2030.











Specialized Sustainable Fibres



Linen

Linen is sourced from flax plants and requires low irrigation or fertilizers.



Hemp fiber is biodegradable and tightly woven yet breathable and surprisingly soft.



Lyocell & Tencel

Lyocell is made primarily of cellulose derived from wood and is highly breathable.



Bamboo

Bamboo fabric is characterized by good hydrophilic properties.











Chemical Management Program

Current 2024

- 1. 73% Rating Chemical Management in STeP Oeko-Tex.
- 2. Road map to zero Program.
- 3. Road map to zero foundational level achieved
- 4. Implementation of Batch code system.
- 5. Complete traceability of chemical & Dyes
- 6. Usage of more than 80% ZDHC level-3 Approved Chemical/Dyes.
- 7. Training on chemical management & sustainable chemistry program

Short Term Target 2026

- 1. To achieve 95% Rating in STeP
- 2. To be linked with BHive & STeP by Oeko-Tex
- 3. To Generate InCheck & Clear stream report.
- 4. Overall atomized dozing system of Chemical & Dyes.
- 5. To achieve ZDHC Progressive level
- 6. Use of up to 90% ZDHC level-3 approved Chemical/Dyes
- 7. Training plan on SVHC

Long Term Target 2030

- 1. Sustain the rating
- 2. Online connection with customers to see Incheck & Clear stream report.
- 3. Achieve the target of Road map to zero.
- 4. To achieve ZDHC Aspirational level by up-gradation of ETP
- 5. Transferring to multi-functional chemical & Dyes.
- 6. Higg FEM Chemical Management Special verification









Chemical Management Program

ZDHC Certificate



REACH Certificate

Certificate No.: SGS-C&P- 0059/2024



Certificate of Participation

Awarded to

Imran Shahzad

of

Maheen Textile Mills Pvt Ltd

For attending Awareness & Guidance on REACH – EU Regulation for Registration, Evaluation, Authorization & Restriction of Chemicals held on 10th July 2024



Naeem Minhas

usiness Manager Connectivity & Product

Plot # 04, Sector 24, Korangi Industrial Area, Near Shan



Chemical Management Certificate



Programme for Improvement of Environmental Performance (PIE)

CERTIFICATE OF PARTICIPATION

MAHEEN TEXTILE MILLS (PVT) LIMITED. (PROCESSING UNIT)

Plot# 145 Phase II M3 Industrial City Chak Jhumra, Faisalabad.

has participated and significantly contributed to the 'Programme for Improvement of Environmental Performance (PIE)' from 05 July 2022 to 30 December 2022. The Programme includes baseline assessment, support visits, capacity building, and final verification.



Kamran Kashif Component Manager, FABRIC, Pakistan.

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Hafiz Muhammad Akmal Director Enviro Stewards Company (Pvt) Ltd.



















Chemical Management Program

Technological Advancement to cut down Water & Dyes usage

Current 2024

- 1. Installed of 01 Digital Printing.
- Cut down of 15% water as compare to Rotary printing.
- 3. Cut down of 10% dyes as compare to Rotary printing

Short Term Target 2030

- Instalation of 02 Digital Printing.
- To save water up to 30% on Digital printing as compare to Rotary
- 3. Dyes cut down will be up to 20%

Long Term Target 2050

- 1. Installation of total 03 Digital Printing.
- 2. To save water up to 45% as compare to Rotary printing .
- 3. To cut down the Dyes usage up to 30%.











Waste Reduction and Management

Technology

Automation in cutting, stithcing, and handling.



Product Life Cycle

Circular product life, waste used to manufacture products.



Transparency

Trackability throught production process, certified vendor base.















Carbon Footprint

Changing climate conditions across the global require immediate actions by corporates to reduce emissions from their operations, keeping the temperature well below 2°C above pre-industrial levels, limiting it to 1.5°C.



Textile Industry Standard

Journal of Cleaner Production estimates that a kilogram of fabric in the textile industry is estimated to be around:

25 kgCO2e



Maheen Textiles Mills Pvt Ltd

SteP by OEKO-Tex verified that Maheen's carbon Footprint is:

14.89 kgCO2e 2023



Maheen Textiles Mills Pvt Ltd

Targeted Maheen's carbon Footprint by adopting sustainable practices:

9.0 kgCO2e Target-2025



Maheen Textiles Mills Pvt Ltd

Targeted Maheen's carbon Footprint by adopting sustainable practices:

4.0 kgCO2e Target-2030











2023

STeP by **OEKO-TEX** the highest level of sustainability

Maheen has one of the lowest carbon and water footprints in the industry.

Maheen Textile Mills Pvt Ltd Facility name:

Region / Country: PK

STeP certificate number: 23002298

Institute: **TBD**

Period of calculation: 01.01.2023 - 31.12.2023



based on self-declared data & input values

Carbon Footprint



Includes impacts (carbon footprint) created directly at the facility (gate-togate) and impacts generated by the production of raw materials and by the process steps which took place in another site (cradle-to-gate).



Gate-to-gate, on site

Per yearly production

5.785.381,53 ka CO²-ea.

Per 1 kg of material output

0,73 kg CO²-eg.



Cradle-to-gate

Per 1 kg of material output

kg CO²-eg

Water Footprint



Includes impacts (water footprint) created directly at the facility (gateto-gate) and impacts generated by the production of raw materials and by the process steps which took place in another site (cradle-to-gate)



Gate-to-gate, on site

Per yearly production

9.431.552,73 m³ world-ea

Per 1 kg of material output

m³ world-ea



Cradle-to-gate

Per 1 kg of material output

92,72 m³ world-eq











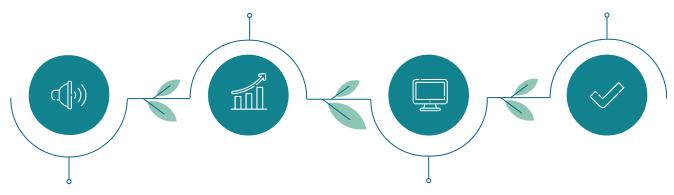
Strategy

Increased use of cleaner materials

Growing every year

Results

We have achieved our yearly targets, every time.



Strong Commitment

Maheen has a clear commitment to be a sustainable manufacturer

Close Monitoring

Through certifications, audits, and ERP we closely monitor our progress











4MW Solar Power

Maheen has installed 02-MW solar power plant which is operational.

O2-MW solar power plant is in progress and Arrival is expected in April-2025

Short Term Target-2025: 04 MW

AND

Long Term Target-2030:06 MW



Renewal Energy Source

Coal Phase Out

Coal Replaced by Bio-Mass

Bio-Fuel Usage

20-% 98-% 2023 2024 100-% 2025

Energy & Enveronmental Assessement Audit by WWF/ILO







International Labour Organization



Emission Reduction Roadmap.

Maheen Textiles in acting on climate Change through adoption of cleaner technologies, green Buildings, energy conservation, and setting ambitious emission reduction targets

Description	Short Term Target 2025	Short Term T <mark>arget</mark> 2030	Performance	
Science Base Target (Business Ambition for 1.5°C)	Commitment has done. Targets validation	3		
Road Map to Zero Program.	Supplier to Zero Progressive level InCheck & Clear Stream	Supplier to Zero Aspirational level	Supplier to Zero Foundational level Achieved	
Use of Bio-Fuel for Steam generation.	100% use of Bio-Fuel	% use of Bio-Fuel Shifting on available emission free source to cut down bio-fuel		
Green Energy	Addition of Green Energy up to 4 MW	Enhancing green energy according to demand	O2 MW Installed and rest of 02 MW is in progress	
Re-use of Gas generator Emissions	Re-use of waste heat by using waste heat recovery boiler	100% Re-use of Generator and processing machine emissions	Heat recovery Boiler is operational for Re-using of Generator Emissions	
Re-use of Boiler Emissions	Economizer installation to Re-use of Boiler Emissions	Up-gradation according to available latest technology	Economizer installed	

Emission Reduction Roadmap

Maheen Textile in acting on climate Change through adoption of cleaner technologies, green Buildings, energy conservation, and setting ambitious emission reduction targets



Description	Short Term Target 2025	Short Term Target 2030	Performance
Re-use of Non-Contact Water & Steam condensate, Heat recovery	Re-use of Steam condensate from Dryers and Calanders. Waste head recovery from bleaching plant waster water	Re-use of heat from dying machine waster water.	Re-using of non-contact water from singing & saforizing. Steam condensate recovery from bleaching.
Re-use of RO Rejection	Re-use of RO rejection in Screen washing, utilities	Re-use of RO rejection in wet scrubber	Non-contact & steam condensate is being reused
Plantation to control carbon footprint.	Plantation up 5,000	Plantation up 20,000	3,000 recent plantation
United Nation Sustainable Development Goals (SDGs) Aligned our strategy and business actions with United Nation Sustainable Development Goals (SD		Implementation of United Nation Sustainable Development Goals (SDGs)	Understanding developed and got training
Cut Down Water consumption	Process optimization and consumption monitoring	Continuous fabric dying to save water.	Continuous monitoring, Reducing RO running period
Waste Water Recycling	Re-using of waste water up to 30%	Re-using of waster water up to 80%	Plant extension is in progress



161918 & 170962



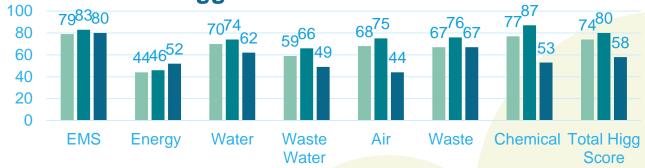
INDUSTRY

MEDIAN 58.66%

Higg Index 3rd Party Verified Assessment

2022 FEM PERFORMANCE 2023 FEM PERFORMANCE 2023 BENCHMARK





■ 2022 MAHEEN

■ 2023 MAHEEN

■BENCHMARK

Source: Higg Index Benchmark is based on Median Values of more then 79 uploaded modules on Higg Index portal.



Emission Reduction Results













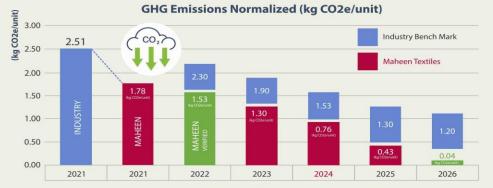


Retail, Health Care, Hospitality, Travel Industry

The Paris Agreement's goal is to keep the rise in global temperature to well below 2 °C and preferably limit the increase to 1.5 °C.

> Emissions reductions to reach net zero by the middle of the 21st century.

To stay below 1.5 °C of global warming, emissions need to be cut by roughly 50% by 2030.



Emission Reduction Normalised Percentage

					100% Green Energy	
OY (kg CO2e/unit) Percentage Reduction	Maheen Textile Mills (Pvt) Ltd	14%	27%	41% Verified	76%	97%

Paris Climate Agreement 2015

"Net Zero Emission by 2050 and shift on green energy by 2030 is the benchmark"



Maheen Textiles is 25 years ahead of the industry benchmark.







OUR COMMITMENTS

We had set environmental and social goals and striving even Harder for meeting our commitments and expanding our focus towards responsible Materials, environmental management and a diverse & inclusive workforce across all operations.

2020-30 Goals

PILLAF	R IMPACT	TARGETS	TARGET YEAR	PERFORMANCE
	Sustainable Raw Materials	75% of total raw material	2030	40% current
	Water	40 % Reduction	2030	19 % Reduced
	Energy	35% Reduction	2030	22 % Reduced
ш	GHG Emissions	60 % Reduction	2030	41 % Reduced
A	Renewable Energy	6 MW	2030	02 MW Installed and 02 MW in progress
	Renewal Fuel Source	100 Bio-Mass as fuel in boiler	2030	98% shifted on Bio-Mass
Δ.	Waste Water	ZDHC Aspirational Level	2030	ZDHC Foundational level achieved
	Sustainable Chemical & Dyes	Use of 100@% ZDHC Level-3 approv	red 2030	Using 80% ZDHC level-3 Approved
	Re-use of Emissions	100% Re-use of boiler & Power plant emissions	2030	Installation work of Economizer completed
	Waste Heat & Condensate Recovery	Heat from Bleaching waste water for applicable processes	all 2030	57% is being recovered

Sustainable Ventilation System

Maheen Textile Mills Pvt Ltd has taken a commendable step to address the impact of heat in processing units, aligning with the Better Work/ILO Team's recommendation to create a more comfortable environment for the workforce.

We installed eco-friendly ventilation systems featuring self-manufactured, powerless exhaust fans on the rooftop. These fans, uniquely designed to operate without any energy consumption, run continuously 24/7.

This innovative solution has successfully reduced internal temperatures up to 25-30%, contributing to a more sustainable and comfortable workplace.





Sustainability Pledges



SCINCE BASED TARGETS (BUSINESS AMBITION FOR 1.5°C



ALLIGN THE PRACTICES WITH UN SDG



OUR PLEDGE

PARIS AGREEMENT To CLIMATE CHANGE



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

VALIDATION OF SUSTAINABLE DEVELOPMENT GOALS













Sustainable Social Welfare

People are our strategic assets and their professional growth is essential for company's growth. Our policies are focused on onboarding talented professionals, grooming through trainings and enabling workplace to develop as a valuable asset.

Performance-based career growth and job rotation makes Maheen Textiles a much sought-after employer.

Women Empowerment by Women Empowerment success story: https://www.giz.de/en/worldwide/153435.html increasing women Ratio Free Health Insurance for All Hiring of PWDs Diversity & **Employees & their** (Person with Inclusion **Families** Disability Interest free Loan Transgender Scheem for employees for **Employment** their financial growth Meat & Food distribution to Joint venture with Tech College for **Blood donation Camps** employees for Thalassemia patient free educiton to employees and their

Childrens













Certifications













Fully comitted, fully certified.

OEKO-TEX® INSPIRING CONFIDENCE MADE IN GREEN





INSPIRING CONFIDENCE















USB TEX2138



























Future Sustainable Projects

Future Sustainable Projects

Maheen Organic Kapas*

We are thinking to launch Maheen Organic Kapas; a project to develop a local organic cotton supply chain, improving the availability and traceability of organic cotton.

Maheen Organic Kapas will not only support regenerative farming practices but also focus on improving livelihoods of farming communities including capacity building, health and nutrition, and equal opportunities for female cotton pickers.



We have lunched a project of forming the Napier Gross as Bio-Mass fuel which will be used in boiler as sustainable fuel to replace conventional biomass or coal.

Waste Water Treatment Plant:

Installation of State of the art Waste Water Treatment of capacity up to 150 M3 and recycling plant, going to be operational in June-2025





