



# GREEN REPORT

## A. Introduction

At Eastern Garments (Pvt) Ltd since its inception as responsible citizen of the world, we believe in the critical importance of conserving natural resources. We are, therefore, one of the few companies in Pakistan that have a fully functional effluent treatment plant for wastewater. The tests of which are carried out in-house established laboratory as well as third party accredited laboratories to gauge out the accuracy of environmental aspects and take control measures to minimize its impacts on environment.

Furthermore, Eastern Garments have been successfully reporting its carbon footprints since 2010, in CDP 2012 our company have been benchmarked against 2400 projects by CDP [www.cdproject.net](http://www.cdproject.net) while Walmart selected this program as Supply Chain Innovation.

### Carbon Disclosure Strategy (2017)

Target Type	Value of the target	Unit	Base Year	Emissions in base year (metric tonnes CO2-e)	Target Year	GHGs and GHG sources to which the target applies
Scope 1	0.74 CO2e	Metric Ton	2016	14.742	2017	Company CNG Cars
Scope 1	1.51 CO2e	Metric Ton	2016	30.309	2017	Diesel Generator
Scope 1	9.87 CO2e	Metric Ton	2016	197.487	2017	Natural Gas Boiler
Scope 2	0.129 CO2e	Metric Ton	2016	2.587	2017	Purchased Electricity
<b>Total</b>	<b>12.249</b>			245.125		

Protocol: [GHG \(www.ghgprotocol.org\)](http://www.ghgprotocol.org)

Being a responsible entity of the world, following recognitions have been conferred internationally.

#### Certifications:

- ✓ ISO 9001 Quality Management System
- ✓ ISO 14001 Environmental Management System
- ✓ WRAP (Worldwide Responsible Accredited Production)
- ✓ BSCI (Business Social Compliance Initiative)
- ✓ C-TPAT
- ✓ Walmart
- ✓ GSV (Global Security Validation)
- ✓ Oeko Tex 100
- ✓ ALDI Detox Compliant

**B. Environmental Aspects / Impacts****a. Ambient Air (Production Areas)**

- ✓ Temperature 26.5 °C
- ✓ R.H% 32.2%
- ✓ O<sub>2</sub> 20.9%
- ✓ Dust Particles 118 mg/Nm<sup>3</sup>

**b. Light Level**

- ✓ Production Lines 700 to 1000 Lux
- ✓ Inspection 1000 to 1500 Lux
- ✓ General Warehouse 700 Lux
- ✓ Offices 700 Lux
- ✓ Corridors/Stairs 400 Lux
- ✓ Emergency egress 500 Lux

**c. Noise Level**

- ✓ 67 to 80 decibels

**d. Gaseous ( Gas Genset Air Emissions)**

- ✓ Combined oxide of nitrogen (NO<sub>x</sub>) 62 mg/ Nm<sup>3</sup>
- ✓ Sulphur dioxide (SO<sub>2</sub>) 180 mg/ Nm<sup>3</sup>
- ✓ Particulate Matter 276 mg/ Nm<sup>3</sup>
- ✓ Carbon monoxide. (CO) 661 mg/ Nm<sup>3</sup>
- ✓ Carbon dioxide (CO<sub>2</sub>) 2.4 %

**e. Gaseous (Steam Generation) CO<sub>2</sub> Emissions**

- ✓ Carbon monoxide. (CO) 183 mg/ Nm<sup>3</sup>
- ✓ Carbon dioxide (CO<sub>2</sub>) 0.9 %
- ✓ Combined oxide of nitrogen (NO<sub>x</sub>) 46 mg/ Nm<sup>3</sup>

**f. Results of Waste Water through Treatment Plant**

- ✓ BOD<sub>5</sub> 14 mg/l
- ✓ COD 44 mg/l
- ✓ Total Suspended Solids 15 mg/l
- ✓ Total Disolved Solids 1800 mg/l

Note: All the results shown above are within limit of the National Environment Quality Standard (NEQS), and BSR standards.

**g. Addition of Reverse Osmosis Plant**

In order to save fresh water and improve quality of dyeing, company have added latest Reverse Osmosis Plant to desalinate water, moreover recently have installed sea membranes to treat water which has higher TDS.

**h. Installation of MBR, Ultra filtration and Nanofiltration**

We are aware on current and future challenges of water shortage, therefore have started installation of MBR (Membrane Bio Reactor, Ultra and Nanofiltration processes which are on completion stage,

where we will recycle and reuse whole permeate water into industrial our processes.

**i. Use of Azo-free**

We use azo-free dyes resultantly our company is certified on GOTS and Oeko Tex 100.

**j. Use of Approved Chemicals**

We use approved chemicals of our validated suppliers, we are working on

**k. Detox Compliance**

We are aware on upcoming challenges regarding Detox certification therefore we have already been tested and certified through BVCPS Lab.

**l. Solid Waste Management**

Solid waste generated from the processes is properly disposed-of, and in case of sales is sold to the authorized purchasers, company is focusing on minimum usage of Polythene Bags as well as replacement by recycled polythene bags.

**k. Energy Conservation (Re-Use of Hot Water)**

Hot Water is re-used in dyeing which is produced by the heat generation system.

**l. Installation of Heat Recovery Boiler**

Moving ahead on environmental initiative and conservation of resources, Eastern Garments have accomplished another milestone and installed Heat Recovery Boiler having capacity of 1.2 tons/hour with 10 bar pressure

**m. Implementation of TGI (Think Green Initiative)**

In order to set benchmarks, we are going to implement TGI program, where we will be focusing on;

- i. Compliances of Environmental regulations
- ii. Implementation and maintaining of EMS
- iii. Conservation of water
- iv. Conservation of energy
- v. Waste Management
- vi. Control on Air Emissions
- vii. Control and Maintenance of Noise Levels
- viii. Sustainable Production

**n. Minimizing and reusing of papers**

Presently we are re-using paper by both sides in our offices, in order to minimize paper use we are switching our information system from hard copy to soft with the help of our IT department.

**o. Carton bursting mechanism**

At Eastern we are utilizing carton bursting testing machine in order to ensure sustainable inputs.

**p. Barcode System**

Consequent upon success of electronic packing list and improve traceability of finished goods barcode system has been designed internally, which is running appropriately.



## Social Responsibilities

At Eastern, we recognize our social responsibilities towards the communities within which we operate. Complete compliances with internationally accept code of conducts such as WRAP based on ILO conventions as well as many other customer-specific programs. Infact we resolve to remain a step above these minimal standards. This is why we have implemented a number of self-generated initiatives that includes;

- i. Special work arrangement for handicapped persons
- ii. Free transportation for female workers
- iii. Flexible work-arrangement for continuing education as well as providing books for their children.
- iv. Anti-Discrimination Policy
- v. Medical Facility to all Workers
- vi. In-house Dispensary
- vii. Attendance Allowance
- viii. Subsidized Food
- ix. Free Tea
- x. Performance Bonus
- xi. Production Bonus
- xii. Prayer Place
- xiii. Financial Assistance
- xiv. Insurance
- xv. Community Support & Hospital Services
- xvi. Funds for Marriage for Lady workers & Daughters of Staff.

## Environmental and Social Snapshots

### Waste Water through Effluent Treatment Plant





Installation of Waste Heat Recovery Boiler



Deslating water through Reverse Osmosis (RO) Plant



In house Carton Brusting System

In house Barcode and Stickers System



Use of Recycled Cartons



Energy Conservation



Bus Service to Female Workers



Light work to Blind Workers



Dispensary Service to Workers





Processes (Snapshot)



