

ISO Certified
Established 1993

LUCKY TEX

Ready to Meet the Global Challenges



ENVIRONMENT REPORT 2004-05

A-40/A, B, & C, Textile Avenue, Off Manghopir Road, S.I.T.E., Karachi-75700, Pakistan.
Phone # (92-21) 2569791-5, Fax # (92-21) 2582544 & 2576794,
URL: www.luckytexonline.com Email: info@luckytexonline.com

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Contents

• Mission Statement	1
• Chairman Message	2
• Quality and Environmental Policy	3
• Lucky Tex in a Snapshot	4
• Weaving Division	6
• Processing Division	8
Inauguration	9
Designing & Engraving	10
Singeing & De-sizing	10
Continuous Bleaching	10
Stenter	11
Printing	11
Color Kitchen	11
Steam Ager / Polymeriser	12
Calendar	12
• Quality Control & Laboratory	13
• Utilities	14
Power Generation	14
Reverse Osmosis Plant	14
Water Effluent Treatment	14
• Human Resource & Information System	15
• Qualitative / Quantitative Environmental Impact	16
Pollution Load	16
Air Emissions	17
Noise	18
Solid Waste	19
Energy Monitoring	20
• Strive for Improved Environmental Performance	21
Environmental Management System	21
Eco-Labeling	22
Energy Monitoring	23
Occupational Health & Safety	24
Cleaner Production / Cleaner Technology Options	26

Mission Statement

Total commitment towards customers to meet their individual needs and requirements in shape of Environmental friendly production of quality fabric & on time delivery with most competitive prices, ensuring smooth flow of dividends in the form of repeat business leading to continuous growth.



Chairman Message

By the grace of Almighty Allah, since the inception of this company I am leading the team, which has worked constantly and successfully in maintaining environmental and quality standards, stabilizing cost of production and ensuring timely shipments to the customers. It is thus a team effort, which has brought customer confidence, and trust in this company, making it grow by leaps & bounds. By maintaining this spirit of teamwork and with the latest expansion of our processing division we shall be able to fulfill enhanced customer needs, and meet the global challenge.



Quality and Environmental Policy

Lucky Tex is one of the leading textile processing industries of Karachi, located at plot A-40/A, B & C. S.I.T.E. Provides fabric and service for weaving and processing in conformity to the need and complete satisfaction of customer through Quality Management System and maintain Environmental Management System to protect the environment and reduce overall environmental impacts from our daily operations and services.

Lucky Tex will review its Quality and Environmental policy on an annual basis and achieve its objectives by fulfilling the following commitments:

- ◆ *Assuring Customer satisfaction through Timely Delivery and Environmental friendly Production of Quality Fabric.*
- ◆ *Maximization of productivity and efficiency at all levels.*
- ◆ *Ensuring the compliance of all applicable legislative and other requirements, for effective implementation of Environmental Management System.*
- ◆ *We know the importance of training to our work force, and arrange in-house and outside training programs so that the awareness and competence level of every employee can be enhanced whenever required.*
- ◆ *Continual improvement for the effectiveness of Quality Management System and Environmental Management System, through Regular Follow-up of departmental Objectives and Targets.*

Our Quality and Environmental Policy is available to all interested parties and for general public.

Lucky Tex in a Snapshot

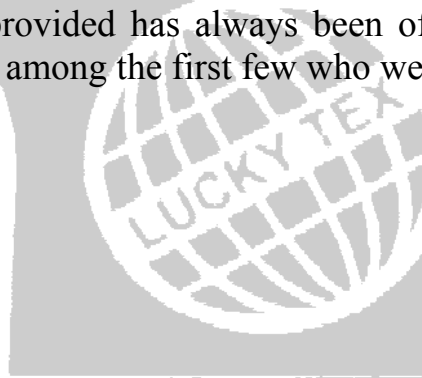


The foundation of Lucky Tex was laid by Mr. Ahmed Tabba in 1993. Its stitching unit became operational in 1995 and then in 1997, a 10-acre site was bought for the erection of a complete in-house production facility – from Weaving in 1997 to Power Generation in 2000 and the Processing Division in 2003.

Lucky Tex textiles group believes in high quality and environmental friendly products, with timely delivery at competitive rates while being a responsible and an environment-friendly corporate citizen.

A lot of effort and planning is needed along with a strong desire to achieve this seemingly simple endeavor. To facilitate this the entire process is completed in-house, hence no discrepancy is required at any stage. This saves time and expenses and increases productivity, while quality is ensured at all production levels. All the machines used are state of the art, to ensure top quality.

Lucky Tex also takes care of its work force, as it is understood clearly that workers are assets, and hence diversified benefits are offered for their well being. The quality provided has always been of world class standard and hence Lucky Tex was among the first few who were ISO certified.



Weaving Division



Warping & Sizing

Preparatory work on yarn at Lucky Tex starts on its 1998 Benninger, warping & sizing machine. With its two size boxes equipped with single dip, single nip it makes it possible for easy penetration and gives strength to the yarn, which is very important during its high RPM weaving machines.

Weaving

Quality greigh fabric is woven on high speed Sulzer projectile looms consisting of TW-11 & PU KR Dobby of 110” and 153“. These looms are extremely versatile in terms of making different qualities of fabric from plain sheeting to Dobby designs and heavy thread counts.





Processing Division

Inauguration

Brand new 2003 Model processing plant was inaugurated on 5th March 2003 by our Customer/Friend Mr. Harry Ross M.D. of M/s J. Rosenthal & Son, UK. Among other distinguished and prominent guests were Mian Mohammad Mansha Chairman Nishat Group, Mian Mohammed Anwar chairman Crescent Group, Sheikh Khawaja Masood CEO of Imperial Spinning Mills.

Lucky Tex is now the most modern state of the art processing unit of its kind in Pakistan, with all of its machinery imported from Europe. The whole plant is capable of finishing wider width fabric up to 3.2 meters and is fully geared to produce superior quality of Textiles to meet the global challenges.



Designing & Engraving

Lucky Tex design department is equipped with the state of the art technology manned by highly experienced and trained professionals. Our equipment includes latest Silicon Graphics CAD/CAM system and CST inkjet scanner and plotter which ensure the production of most critical design with accuracy. All these facilities are backed up by Reggiani Unistar strike off table which provides the customer pre-production samples and also their display articles.

Singeing & De-sizing

Osthoff singeing and de-sizing is the latest version of this state of the art singeing and de-sizing machine, with all parameters controlled by electronic gadgets.

Two sets of burners provide the precision singeing of any kind of fabric.

De-sizing tank is equipped with precise control of volume, pH, and temperature.

Continuous Bleaching

Benninger 3.2 meters open width bleaching range with a Combi Steamer, high add on and fully computerized dosing system ensures crease free scouring and bleaching for qualities even like stripe satin.

State of the art suction slot installation guarantees lint-free surface and high efficiency. Lucky Tex has the advantage of material; machines and highly qualified and fully trained and skilled team back up to meet the challenges of the future.

Stenter

Two sets each with 8-chamber German made “Bruckner” with gas heated, PLC controlled pin and clip system provides the facilities of heat setting, finishing of any kind with the precise control of moisture.

Bianco weft straightners have the abilities to provide maximum control of bowing and skewing, with pleva for moisture control.

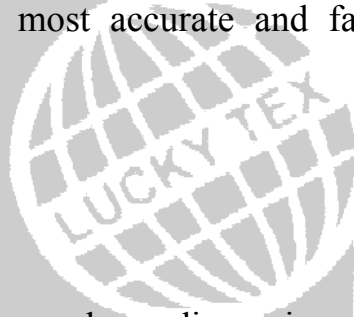
Printing

One Flat Bed of 12-colour of 3.2 meters width & two 16-colour Reggiani Unica printing machines of 3 meters width, with online washing facilities make Lucky Tex one of the most accurate and fast printing unit with minimum downtime.

Color Kitchen

Most reputed Termoeletronica colour dispensing system helps us to guarantee the reproductivity of all designs at any time and period.

The sample dispenser system provides accuracy and time saving for the samples.



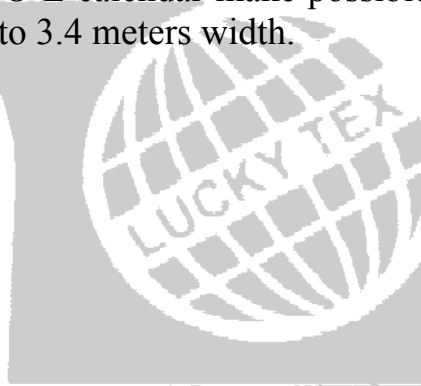
Steam Ager/Polymeriser

3.4 meters wide Arioli Steamer and polymeriser have the facilities to accommodate two ends side by side. Saturated steaming condition can give perfect fixation of Reactive and other dyes. HT steaming condition will provide fixation of disperse dyes.

Polymeriser can cure the pigment prints with optimum results and can polymerize the resins.

Calendar

Kleinewefer 3 bowl NIPCO-L calendar make possible to carry out all types of mechanical finishes up to 3.4 meters width.



Quality Control & Laboratory

Our Quality Control & laboratory plays vital role in achieving and maintaining our most important policy of high standard quality.

Expert knowledge and hands-on experience are indispensable qualifications for our quality control technicians. A fully equipped and modern technical laboratory provides the necessary infrastructure and is capable of conducting all types of fabric and chemical tests.

Fastidious quality checks as per AQL system and customer required standards during and after the production process ensure that the product you expected.



Utilities

On time delivery is yet another most important prerequisite for a successful in this competitive era. Therefore Lucky Tex has given full consideration to all minute details and has planned its operations to meet the global challenges.

Power Generation

Keeping an eye on the unforeseen power failure and shortages in water supply which force production and time losses Lucky Tex has installed its own power house, hence becoming self sufficient in electricity generation. Our powerhouse is equipped with Caterpillar gas engines, which are not only environment friendly but also economical as well.

Reverse Osmosis Plant

Taking one step ahead to ensure the quality of our processed fabric even further, all water used in processing is from our own tube wells. This water is treated in our in-house RO plant to make it free from all impurities thus providing very fine quality water for uniform processing.

Water Effluent Treatment

Lucky Tex are industry leaders in responding to environmental concerns. Its wastewater treatment technology ensures that pure, clean water is returned to rivers, and compliance of National Environmental Quality Standards. This is achieved by a comprehensive screening and filtration process.

All these processes are handled only by its expert.

This plant will be in operation by the End of 2006.

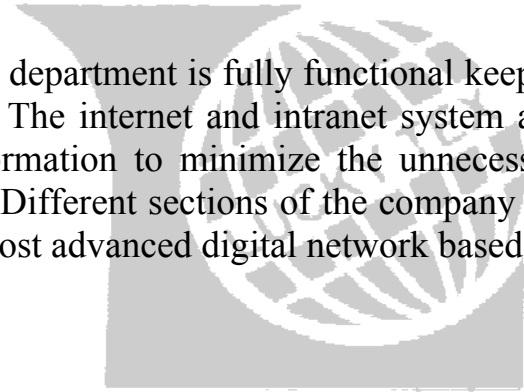
Human Resource & Information System

To achieve meaningful growth, human resource is most essential and key to success. The company will build bridges strong enough to support its vision of 100 years through training and development of the employees. The company presently has committed to contribute 1% of export sales towards Human Resource Training & Development.

We firmly believe in the welfare of people associated with Lucky Tex as they are our primary assets and therefore we give full consideration to their safety, health, and fringe benefits.

Free transport, free food, medical facilities, incentive based schemes, yearly bonuses, welfare funds and other social benefits are available apart from excellent working conditions and service.

A well-equipped IT department is fully functional keeping in view the needs of the 21st century. The internet and intranet system are used to deliver all type of online information to minimize the unnecessary time loss due to manual operations. Different sections of the company are connected to each other through the most advanced digital network based on Oracle system.



Qualitative/Quantitative Environmental Impact Assessment

Pollution Load

On the basis of daily wastewater discharge and characteristics, pollution load from the industry is calculated in terms of Kg of particular polluting parameters per day. Based on the total production data of the industry the pollution load generated to produce a unit Kg of the finished fabric.

Total and Unit Pollution Load

No	Parameter	Pollution Load (Kg/day)	Unit Pollution Load (gm/kg of fabric)
Stream # 01			
1	Chemical Oxygen Demand (COD) mg/l	2,250	4.13
2	Biological Oxygen Demand (BOD) mg/l	978	1.80
3	Total Suspended Solids (TSS) mg/l	335	0.61
4	Total Dissolved Solids (TDS) mg/l	1,500	2.75
5	Grease & Oil (mg/l)	5	0.01
6	Copper (Cu) mg/l	7.57	0.01
Stream # 02			
1	Chemical Oxygen Demand (COD) mg/l	1,380	2.53
2	Biological Oxygen Demand (BOD) mg/l	739	1.36
3	Total Suspended Solids (TSS) mg/l	99	0.18
4	Total Dissolved Solids (TDS) mg/l	5,310.5	9.74
5	Grease & Oil (mg/l)	7.36	0.01
6	Copper (Cu) mg/l	0.04	0.00
7	Chromium (Cr) mg/l	2.63	0.00

Basis: 647.2 m³/day & 23,610 kg of fabric/day

Impacts

The wastewater is drained directly in the municipal sewer and finally into Arabian Sea. The wastewater contains certain harmful chemicals. When the wastewater is allowed to drain without treatment, these chemicals enter in the environment and causes irreversible damages to the ecology.

Air Emissions

Broadly air emissions from the industry are classified as point and diffused emissions. Point emissions are mainly from stacks and exhausts. Emissions from these sources can be qualified and monitored. Diffused emissions are those, which do not come through stacks or any exhaust and generally go directly into the atmosphere of the production areas.

Air Emission Sources and Qualitative Characteristics

Source	Major Pollutants
<i>Point Emissions</i>	
Singeing / De-sizing	Small amount of exhaust gases from burners
Bleach	Volatile bleaching agents from stenters
Stenter	Exhaust gases and particulate matter from stacks.
Printing (including Color Kitchen)	Exhaust gases including ammonia & urea from dryer and agers.
Power Generation	Exhaust gases from engines including NOx and SOx
<i>Diffused Emissions</i>	
Yarn Rewinding	Fluffs
Warping	Fluffs
Sizing	Fluffs / PM
Weaving sulzer	PM
Weaving (PU)	PM / Fluffs
Weaving (TW)	PM / Fluffs
Roll opening	PM
Mending	PM / Fluffs
Stenter 01 & 02	Odor, PVA, Formaldehyde vapors
Engraving	Odor, Stripping agent, Solvents
Printing (incl. Color kitchen)	Formaldehyde vapors, ammonia

Impacts

Numbers of chemicals are used in the processing area. These chemicals contain variety of volatile organic compounds. These compounds are dispersed in the local environment, especially during drying and curing activities and their exposure may results into various environmental and health hazards.

Noise

Lucky Tex involves number of heavy machinery, equipped with moving and rotating parts, which results into elevated noise levels at the work place. Workers in general, do not consider noise as pollution; therefore, provisions for their safety available in the industry are ignored by them. On the other hand, floor workers are customized to high levels of noise and do not regard it a discomfort.

Noise Levels

No.	Source	Noise Level (dB)
1	Sizing Department	84.5 - 91.9 - 87.4
2	Weaving TW-11	91.7 - 93.6 - 93.4
3	Weaving PU (Tappet)	90.6 - 91.2 - 91.3
4	Weaving PU (Dobby)	90.3 - 92.8
5	AC Plant of PU Dobby	96.8
6	Weaving Sulzer (TW-11)	91.1
7	Power Generation	97.7 - 97.0
8	Boiler Room	91.2

Impacts

Noise is considered as an interference to and imposition upon comfort, health and the quality of life. Noise may have both physiological as well as psychological effects on human beings.

Physiological effects include dizziness, nausea, unusual blood pressure variation, physical fatigue, hearing impairment and, in acute cases, permanent hearing loss. The psychological effects may comprise reduced mental capability and irritations. Chronic exposure of workers to higher noise levels also impairs their efficiency and skill.

Solid Waste

Lucky Tex produces variety of solid wastes. This section presents the different sources from where the solid waste is generated along with respective quantities. This is followed by solid waste impacts.

Solid Waste Sources

Type of Waste Generated	Sources
Yarn Bags	Yarn go-down, Sizing, Weaving Departments
Oily Waste	Weaving Department
Oil Drums / Iron Drums	Sizing, Weaving Store
Plastic Washer	Yarn go-down, Weaving Departments
Empty Paper Cones	Warping, Weaving Departments
Cartons	Weaving Department
Poly Bags	Sizing, Warping Departments
Empty bardana	Weaving Department
Plastic Canes / Plastic Drums	Printing Department
Damaged Screens (Nickel Based)	Printing Department

Impacts

The solid waste from the Lucky Tex is collected at a central waste go-down from where it is sold out. Since most of the solid wastes generated at Lucky Tex do not come in the category of the hazardous waste hence it is likely to cause any harm to the human except its displeasing sight for which the Lucky Tex sells it out. The solid waste is either reused or recycled.

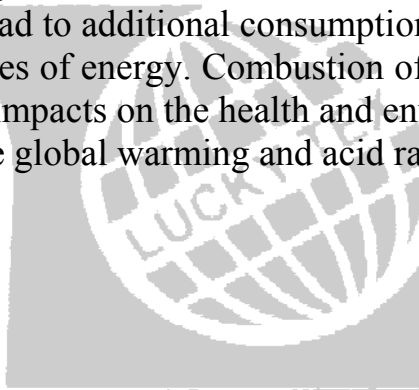
Energy Monitoring

Energy is an indirect concern of environment because its losses from the processes result into additional consumption of fuel. Additional consumption means more emission of pollutants into the atmosphere having certain environmental and health impacts.

Energy is also one of the major resources of the textile industry, for which mill owners have become more conscious about the saving due to day-by-day rise in the energy prices.

Impacts

Energy dissipation is not only an economic loss but it results in hot working environment. Hot working environment affects the workers performance in many ways. Heat losses lead to additional consumption of fossil fuels, which are non renewable resources of energy. Combustion of fossil fuels causes air pollution with significant impacts on the health and environment, in the local and global perspective like global warming and acid rains.



Strive for Improved Environmental Performance

1. Environmental Management System

Lucky Tex is ISO 9001:2000 certified organization and would like to go for ISO 14001:2004 certification. In this regard, Lucky Tex have been enrolled with program from Cleaner Technology Program for Textile Industry a concerning body from All Pakistan textile Processing Mills Association (APTPMA) for the implementation of EMS.

For the implementation of EMS, Lucky Tex completed its designing and implementation phase of EMS and conduct an assessment and internal audit by Cleaner Technology Program for Textile industry and would go for certification by the End of February 2006.



2. Eco-Labeling

Lucky Tex is Oeko-Tex Standard 100 certified organization since 2004. Lucky Tex not getting this certificate for the sake of marketing but Lucky Tex is very conscious about the use of raw materials that is not containing any harmful substances.

Note: *Certificate is attached for your reference.*

CERTIFICATE

BTTG

Unit 12, Westpoint Enterprise Park,
Clarence Avenue, Manchester, M17 1QS, UK.

Institute of the International Association for Research and Testing in the Field of Textile Ecology

The company

M/S Luckytex

**A/40, A,B & C Manghopir Road
S.I.T.E.**

Karachi, Pakistan

is granted authorization according to Oeko-Tex Standard 100 to use the Oeko-Tex mark, based on our **test report 18583**



for the following articles:

Printed and Finished Cotton and Polyester/Cotton Fabrics.

The results of the inspection made according to Oeko-Tex Standard 100, product class II have shown that the above mentioned goods meet the human-ecological requirements of the standard presently established for products with direct contact to skin.

The certified articles fulfil the requirements of the existing European legislation regarding the use of azo-dyes.

The holder of the certificate, who has issued a conformity declaration according to EN 45 014, is under an obligation to use the Oeko-Tex mark only in conjunction with products that conform with the sample initially tested.

Manchester, 12.09.2005

This authorisation is valid until 07.07.2006

Alf King
General Manager

Dr Tony Sagar
Technical Manager



Registration No 043-A

The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 043



Certificate of Registration

This certificate has been awarded to

LUCKY TEX

A-40/A, B & C, Manghopir Road
S.I.T.E. Karachi
Pakistan

in recognition of the
organization's Quality System which complies with

ISO9001:2000

The scope of activities covered by this certificate are defined below


**MANUFACTURER AND EXPORTER OF WOVEN DYED/ PRINTED PROCESSED
FABRICS AND POWER GENERATION**

Certificate Number: 2043/1 Issue No. 6

Date of Issue: October 4, 2005 (November 15, 1999)

Expiry Date: October 31, 2008

Issued by:


On behalf of the
Scheme Manager

3. Energy Monitoring

In Lucky Tex, the steam condensate is reused. Lucky Tex has installed heat exchangers to pre-heat input waters. Boiler flue gas discharges are typically in the range of 180-190⁰C. This gas stream contains substantial heat energy, which is lost in the atmosphere. Lucky Tex has installed economizers to make use of the hot flue gas discharged from the boiler through these economizers, boiler feed water is pre-heated.



4. Occupational Health & Safety

Lucky Tex had a separate department for Occupational Health & Safety issues. In this regard following factors are highly focused by management of **Lucky Tex**.

- ***Workers Training***

Lucky Tex knows about the importance of trainings of their human resources. Management of Lucky Tex arranged extensive training sessions to create general awareness related to environment, chemical handling and occupational safety.

- ***Chemical Storage***

Lucky Tex receive different types of processing chemicals like acids, alkalis, dyes, pigments, auxiliaries and salts. Separate spaces have been allocated for chemical storage.

Lucky Tex are taken following steps for safe chemical storage:

- Identify the key properties of the chemical, as recommended in the MSDS.
- Provision for secondary containment is ensured to contain chemical in case of spillage.
- MSDS made available at chemical storage area.
- Chemicals are stored according to their physical and chemical properties.

- ***Chemical Handling***

Lucky Tex is proceeding in the following sequence for safe chemical handling.

- Kept MSDS for all the chemicals used in the production.
- Developed and implemented procedures for safe handling of the chemicals.

- ***Personal Protective Equipment***

Lucky Tex developed and implemented procedure for Personal Protective Equipment and give awareness to workers for their use.

- ***Safety Instructions***

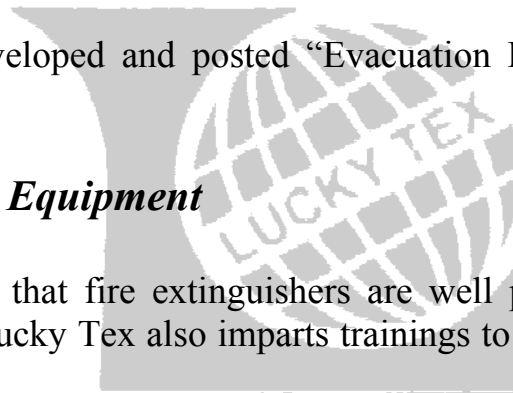
Lucky Tex knows signboards are effective way of communicating safety messages and instructions with respect to material handling, safe start-and stop procedures for machines and emergency management. These signs and instructions for the workers and visitors, regarding safety hazards associated with the machines was posted on the walls at Lucky Tex.

- ***Emergency Conditions***

Lucky Tex has developed and posted “Evacuation Plan” on the walls of different sections.

- ***Fire Fighting Equipment***

Lucky Tex ensures that fire extinguishers are well placed and within the reach of workers. Lucky Tex also imparts trainings to the workers related to fire fighting.



5. Cleaner Production / Cleaner Technology Options

S.No	Cleaner Production / Cleaner Technology Options	Benefits	Achieved Objectives	Ongoing Objectives	Future Plans
1	Workers Training on Water, Energy and Chemical Conservation.	Resource conservation, Pollution control at source.		Mid of 2006	
2	Installation of Water Shut Off Valves on Water Hoses.	Water conservation		Mid of 2006	
3	Insulation of Bare Hot Surfaces.	Energy conservation	In the year of 2003		
4	Installation of Water Flow Meters on Water Inlets.	Water conservation and process control	In the year of 2004		
5	Installation of Temperature Gauges/Indicators on Hot Machines.	Energy conservation and process control	In the year of 2003		
6	Implementation of Counter Current Washing at Bleaching.	Water conservation	In the year of 2003		
7	Reuse of Steam Condensate.	Water conservation	In the year of 2003		
8	Installation of Economizer on Boiler Flue Gas.	Energy conservation	In the year of 2003		
9	Noise Control.	Improved health of workers	In the year of 2005		
10	Upkeep of Steam Traps.	Energy conservation	In the year of 2003		
11	Installation of Reverse Osmosis (RO) for Process and Boiler Feed Water.	Resource conservation	In the year of 2003		
12	Substitution of Chemicals.	Environment friendly chemicals	In the year of 2003		
13	Caustic Recovery Plant.	Chemical conservation		End of 2006	
14	Safe Chemical Handling and Storage.	Chemical conservation, improved working environment, fire safety	In the year of 2003		
15	Measurement of Boiler Efficiency.	Energy conservation	In the year of 2003		
16	Flame Adjustable Singeing Machine.	Resource conservation	In the year of 2003		
17	Machine Safety.	Improved working environment, reduction in accidents	In the year of 2003		

S.No	Cleaner Production / Cleaner Technology Options	Benefits	Achieved Objectives	Ongoing Objectives	Future Plans
18	Solid Waste Management.	Better solid waste management system will improve environment	In the year of 2005		
19	Personal Protective Equipment.	Improved health of workers	In the year of 2005		
20	Optimization of Water Consumption at Bleaching Range.	Water optimization		Mid of 2006	
21	Recycling of Rinse Water at Rotary Printing Machine.	Water consumption		Mid of 2006	
22	Use of Permanent Glue at Rotary Printing Machine.	Chemical conservation, improved process control		Mid of 2006	
23	Size Recovery at Desizing.	Resource conservation			In the year of 2007

