

Cost reduction through Chemical Management

A Textile Processing Company Faisalabad, Pakistan

COMPANY IN BRIEF

Our client is a textile processing company in Faisalabad, Pakistan.

The company implemented PREMA Chemical Management programme in their facility in 2014-2015 to identify control gaps and non-product outputs (NPOs) in their chemical flow and received significant improvements in chemical identification, storage, handling, and consumption.

The programme was supported by bfz gGmbH under the Project ESPIRE and was facilitated by PREMA net trainers Dr. Juergen Hannak and Mr. Salman Butt.

THE PROBLEM AND ITS CAUSES

Company had already developed a good chemical inventory system for the chemical store. However, its application was not extended to production floors and chemical waste.

- Chemical wastage was observed in many areas causing financial loss as well as risks to workers and facility.
- Chemical labels were missing in many areas posing risk to workers and facilities
- Compatibility of chemicals was not closely checked while storing chemicals in sub-stores and production areas.

Main causes of

- Chemical flow was not closely monitored hence the financial implications of any chemical wastage were not highlighted.
- Safety Data Sheets of many chemicals were either not according to GHS or were not available in local language or were completely missing.
- Awareness on chemical management was limited to few persons.

MEASURE(S) IMPLEMENTED IN THE COMPANY

Company implemented following measures;

- 25 water flow meters are installed to monitor the water and chemical consumption

- Safety Data Sheets are acquired of majority of chemicals on GHS format and are translated into Urdu
- Department wise comprehensive risk assessment carried out.
- Storage of chemicals according to compatibility requirements
- Reduced spillages and wastages
- Improved hygienic conditions by improving ventilation and provision of better protective equipment



26 new First Aid boxes as per SDS requirement



Improved handling and reduced spillage of Ammonia



Improved Ventilation in Screen Stripping to reduce inhalation of fumes



Improved Chemical Storage in Sub-stores

ECONOMIC BENEFITS

Saving Measures	Saving PKR/yr	Investment PKR	Payback Years
Printing Paste Recovery	1.22 Million	Nil	Immediate
Reduced spillages and leakages	~0.5 Million	Nil	Immediate

ENVIRONMENTAL BENEFITS

Reduced chemical wastage has resulted in improved in chemical yield and reduced discharge of hazardous chemicals; hence reducing the contamination of ground water.

SOCIAL BENEFITS

Human exposure to hazardous chemicals has reduced due to improved ventilation and provision of better protective equipment.

ORGANISATIONAL BENEFITS

Housekeeping conditions have improved due to lesser spillages. Risk Control has improved by proper chemical identification, labelling, and storage.

FOR MORE INFORMATION, please contact:

ESPIRE CONSULT

33-D, New Muslim Town, Lahore, Pakistan

T: +923055552343

Email: info@espire.com.pk

Website: www.espire.com.pk