



Kaizen

A Necessary Way To Survive

A Special Webinar by APCRE exclusively for Leather Sector Units



ABOUT US



APCRE (Association for Promotion of Competitive and Responsible Enterprises), which is a registered, non-profit, pan-India organization, dedicated to the Promotion of Competitiveness among Indian industries, especially MSMEs and at the same time disseminate their Responsibility towards good, ethical and social work practices, so that, they are appropriately meeting the global supply chain requirements. The organization was started by a team of dedicated experts and trainers, across India, who were trained by UNIDO/ UNDP/ILO and other National and International organizations on their various programmes and spans across Engineering, Auto, Textile, Leather and pharma sectors. APCRE activities comprise Training, Facilitation, Assessments and hands-on implementation of various tools and techniques on Productivity, Quality, Lean Manufacturing, shop floor management, Safety, Social dialogue Programmes etc.







- Introduction to Kaizen concept
- Philosophy behind kaizen
- PDCA Concept towards continuous improvement
- Creativity and Kaizen
- Possible application of Kaizen in Leather sector units
- Capturing the improvements and presentation
- Case studies in engineering sector



INTRODUCTION TO KAIZEN CONCEPT



THE WORD

KAI MEANS – CHANGE &

ZEN MEANS – GOOD

THE WORD KAIZEN MEANS
CONTINUAL IMPROVEMENT

Mr.Masaki Imai – Father of Kaizen







Human beings have not only two Hands to work with, but also one Head to think and one Heart to show involvement.

The emphasis of Kaizen concept is that the Creative Power of Human Beings must be tapped to bring out improvements on a steady and continuous basis.

EMPHASIS OF KAIZEN IS SMALL BUT STEADY AND CONTINUAL IMPROVEMENT



PHILOSOPHY BEHIND KAIZEN

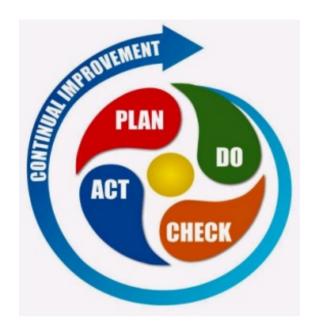




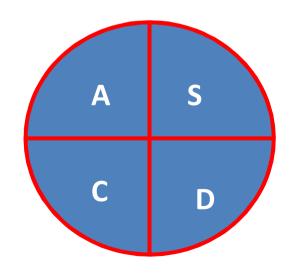


PDCA CONCEPT TOWARDS CONTINUOUS IMPROVEMENT





Plan, Do, Check & Act



Standardize, Do, Check & Act







MAJOR SYSTEMS OF KAIZEN

- **1. TQM**
- 2. JUST-IN-TIME
- 3. TPM
- 4. POLICY DEPLOYMENT
- 5. SUGGESTION SYSTEM
- 6. SGA (Small Group Activities)



CREATIVITY AND KAIZEN



KAIZEN ENCOMPASSES THE FOLLOWING ACTIVITIES:

- **✓TEAM WORK**
- **✓ SUGGESTION SCHEMES**
- **✓ PROCESS CONTROL**
- √5S, JUST-IN-TIME,
- **✓ PROBLEM SOLVING**
- ✓ ZERO DEFECT
- **✓** AUTOMATION
- ✓TPM....ETC



BEFORE

CASE STUDIES IN ENGINEERING SECTOR







AFTER

Value Added Space identified and utilized - 600 Sq. ft.



CASE STUDIES IN ENGINEERING SECTOR







Searching time & time for Tool verification reduced to 5 minutes



POSSIBLE APPLICATION OF KAIZEN IN LEATHER SECTOR UNITS



- Quality
- Environment
- Water
- Energy
- Liquid waste management
- Solid waste management
- Occupational safety and health
- Productivity
- ...any other





POSSIBLE APPLICATION OF KAIZEN IN LEATHER SECTOR UNITS



Quality improvement Objectives

- Improving quality
- Consistency in batch-to-batch quality parameters (reducing batch to batch variations)

Some examples

- Statistical process control (SPC)
- Calibrated machine adjustments fleshing, setting, staking
- Moisture measurement in leather drying
- Instrument based colour matching
- Standardised lighting in colour matching
- And so on......





Calibrated machine adjustments





POSSIBLE APPLICATION OF KAIZEN IN LEATHER SECTOR UNITS



Productivity enhancement Objectives

- More production with less input
- Lean manufacturing

Examples

- Statistical process control
- Benchmarking of productivity parameters for the whole tannery as well for departments, machines etc.
- Ergonomic improvements in production halls
- Material handling equipment



Ergonomics

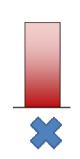




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Yield improvement by mechanical operations

- Direction of fleshing, setting, toggling, etc.: From backbone to belly
- Fleshing and setting important for hides
- Use of efficient toggling –
 skins
- Use of rotary staking machines





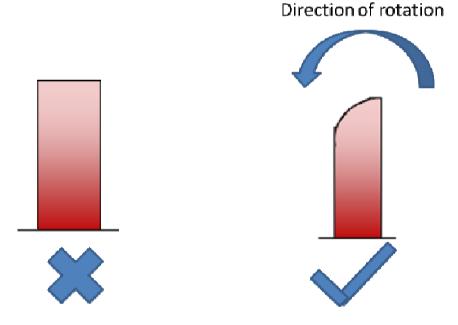
Cross section of cylindrical blade





Profile of setting machine bladed cylinder – smooth curve

- Yield improvement
- Noise reduction



Cross section of cylindrical blade



POSSIBLE APPLICATION OF KAIZEN IN LEATHER SECTOR UNITS



Environment

Objective: Reducing environmental footprint

Water conservation

Measurement of water

Process modifications

Reuse / Recycling sectional streams

Recovery of process water from effluents

And so on....

Energy conservation

Optimising operations

Renewable energy sources

Liquid waste management

Reducing pollutants in effluents

Increased efficiency in effluent treatment

Solid waste management

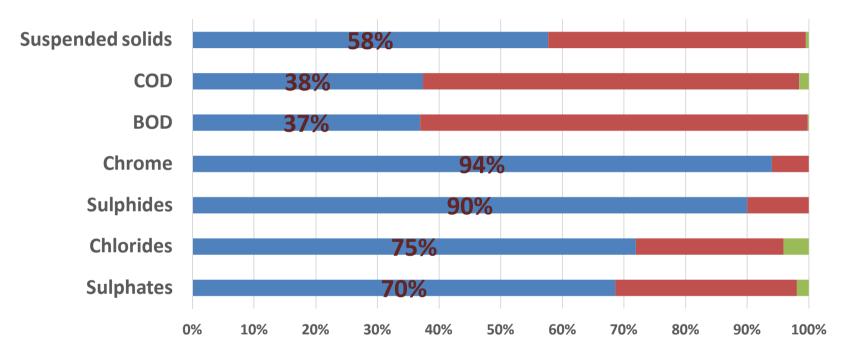
Geometrization – early trimming

Trimming optimization

5R Hierarchy, e.g.



Possible pollution reduction



- Maximum possible reduction in cleaner tanning technologies
- Treatment level addressed in end of pipe treatment
- Remains in treated effluent



How many options available for reducing such inhouse pollution reduction





Some examples - Hair save unhairing



Hair filter

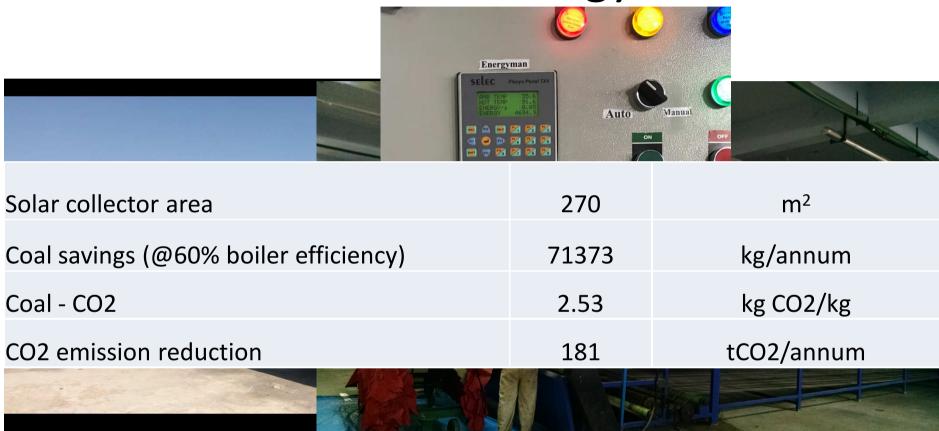


Microscopic view of grain of pelt after fleshing – clean surface





Renewable thermal energy for leather



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Waste minimization- is your HVLP operate really with low pressure





POSSIBLE APPLICATION OF KAIZEN IN LEATHER SECTOR UNITS



Occupational safety and health Objective: Zero accident

Examples can be in the areas of
Machine safety
Electrical safety
Chemical safety
How to deal with hydrogen
sulphide gas
Emergency control mechanism





POSSIBLE APPLICATION OF KAIZEN IN LEATHER SECTOR UNITS



Good Housekeeping







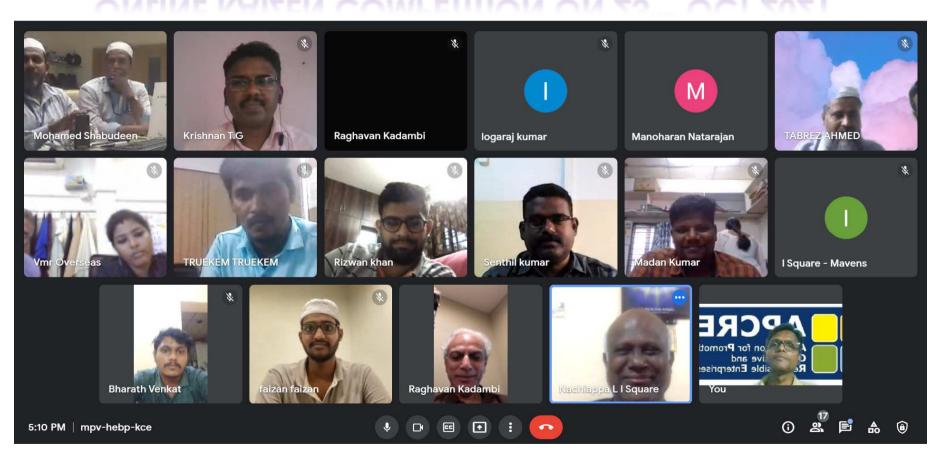
APCRE CONGRATULATES FIRST EVER KAIZEN PRESENTATION WINNERS IN LEATHER SECTOR





FIRST OF ITS KIND IN LEATHER SECTOR

ONLINE KAIZEN COMPETITION ON 23RD OCT 2021







First of its kind in leather sector





ASSOCIATION FOR PROMOTION OF COMPETITIVE AND RESPONSIBLE ENTERPRISES

CERTIFICATE

This is to certify that **Flamingo SSi (Unit-1)**, Old Thiruthani Road, Ranipet has participated in the online Kaizen competition conducted on **23**rd **October 2021** and adjudged the following category by the Juries.

Category: GOLD

Mr.K.C.Raghavan (President-APCRE) Mr. G. Rajesh (Competition coordinator)

Certificate No: APCRE/Competition/2021-10/1/ Kaizen





First of its kind in leather sector





ASSOCIATION FOR PROMOTION OF COMPETITIVE AND RESPONSIBLE ENTERPRISES

CERTIFICATE

This is to certify that **Flamingo SSi (Unit-2)** Old Thiruthani Road, Ranipet has participated in the online Kaizen competition conducted on **23rd October 2021** and adjudged the following category by the Juries.

Category: GOLD

Mr.K.C.Raghavan (President-APCRE)

Certificate No: APCRE/Competition/2021-10/2/ Kaizen

Mr. G. Rajesh (Competition coordinator)





First of its kind in leather sector





ASSOCIATION FOR PROMOTION OF COMPETITIVE AND RESPONSIBLE ENTERPRISES

CERTIFICATE

This is to certify that **KH Exports India Pvt Ltd – Tannery A Division** MBT Road, Ranipet has participated in the online Kaizen competition conducted on **23rd October 2021** and adjudged the following category by the Juries.

Category: PLATINUM

Mr.K.C.Raghavan (President-APCRE)

Certificate No: APCRE/Competition/2021-10/6/ Kaizen

Mr. G. Rajesh (Competition coordinator)





First of its kind in leather sector





ASSOCIATION FOR PROMOTION OF COMPETITIVE AND RESPONSIBLE ENTERPRISES

CERTIFICATE

This is to certify that **N.M.HASHIM & CO.**, Guidyatham Road, Thuthipet, Ambur, has participated in the online Kaizen competition conducted on **23rd October 2021** and adjudged the following category by the Juries.

Category: GOLD

Mr. G. Rajesh (Competition coordinator)

Mr.K.C.Raghavan (President-APCRE)

Certificate No: APCRE/Competition/2021-10/3/ Kaizen





First of its kind in leather sector





ASSOCIATION FOR PROMOTION OF COMPETITIVE AND RESPONSIBLE ENTERPRISES

CERTIFICATE

This is to certify that **TRUEKEM**, MGR salai, Nagelkeni, Chrompet, Chennai has participated in the online Kaizen competition conducted on **23**rd **October 2021** and adjudged the following category by the Juries.

Category: PLATINUM

Mr.K.C.Raghavan (President-APCRE) Mr. G. Rajesh (Competition coordinator)

Certificate No: APCRE/Competition/2021-10/5/ Kaizen





First of its kind in leather sector





ASSOCIATION FOR PROMOTION OF COMPETITIVE AND RESPONSIBLE ENTERPRISES

CERTIFICATE

This is to certify that **V.M.R.Overseas** Anna salai, Nagelkeni, Chrompet, Chennai has participated in the online Kaizen competition conducted on **23**rd **October 2021** and adjudged the following category by the Juries.

Category: GOLD

Mr.K.C.Raghavan (President-APCRE)

Certificate No: APCRE/Competition/2021-10/4/ Kaizen

Mr. G. Rajesh (Competition coordinator)





"Was Situation"		SECTION NAME				"Now Situation"
Problem Statement:						
Root cause :						
Action Requi	red :					
Standardizat	ion :					





"Was Situation"

Chemical Stores (Finishing)

"Now Situation"





Problem Statement: Spillage of chemicals and contaminating the floor

Root cause: No effective use of seasoning containers. Inadequate house keeping.

Action Required : Designate place to keep WIP chemicals.

Standardization: Create or Modify SOP





				KAIZEN SHEET
	The .	lapanese word kaizen means "change for bet	ter',	
Doc #		MONTH :		
KAIZEN THEME :	AIZEN THEME :			
KEY PERFORMANCE INDICATOR	PRODUCTIVITY / QUA	LITY / SAFETY / ENVIRONMENT / MORAL /COST	IMPLEMENTED BY	
STATUS:	BEFORE IMPROVEMENT :		ACTION TAKEN	•
AFTER IMPROVEMENT		RESU	JLT / BENEFIT :	





KAIZEN - Idea Suggestion Form						
	Team member		Team leader			
Target process(es)			Target product(s)			
Р	icture of current co	ondition	Pictu	ure of target condition		
Description of current condition			Descri	ption of target condition		
		T				
	Team leader / manager to complete					
	Estimated imp	401	villat we learn	ed as by implementing this ide	C d	
	Impact verified	by	Oppor	rtunities for deployment		
			•			



WHAT NEXT



- **✓KAIZEN CIRCLE**
- **✓ON SITE TRAINING ON KAIZEN**
- **✓TRAINING PROGRAM ON UNDERSTANDING PROBLEM SOLVING TOOLS**
- **✓ FACILITATION FOR KAIZEN IMPLEMENTATION**
- **✓ KAIZEN COMPETITION**





ANY QUESTIONS PLEASE ...?







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