

LEAN



Lean

Elimination of waste

Active involvement

Non-stop improvement



*We synergize your
plant operation &
workforce to enhance
business performance &
empower them with skills
of tomorrow thorough
implementation of LEAN
Manufacturing techniques*



Foundation for MSME Clusters

Why adopt *LEAN*?

Every process must add value



If no value added then discard it



What is Waste??

- Overproduction
- Motion
- Inventory
- Transportation
- Waiting
- Underutilized People
- Defects
- Over processing

Who can use LEAN?

Every MSME and its process that aims towards maximizing customer value, eliminate all activities that are waste and maintain optimal flow can benefit from LEAN

Benefits of *LEAN*

- ➡ Less Process Waste
- ➡ Reduced Lead Time
- ➡ Less Rework
- ➡ Financial Savings
(better bottom line)
- ➡ Increased Process Understanding
- ➡ Reduced Inventory

LEAN thinking

Lean Philosophy is all about doing more with less

- ➡ Specify value
- ➡ Map out value stream
- ➡ Create a product flow
- ➡ Establish customer pull
- ➡ Seeking perfection
 - By minimizing waste

LEAN Guiding Principles



People Involvement
Teamwork, accountability, empowerment



Built-in Quality
Do it right the first time, eliminate rework



Standardization
Document best practices, standard operating procedures



Short Lead Time
Reduced completion time, eliminate waste from processes



Continuous Improvement
Every aspect of business challenged to be better



How to be *LEAN*

Before LEAN

- Forecast driven
- Non-value added activities
- Excessive inventory



After LEAN

- Become sustainable(profitability, people and planet)
- Demand Driven
- Value added activities
- Inventory as needed



LEAN Techniques

Lean Manufacturing Tools

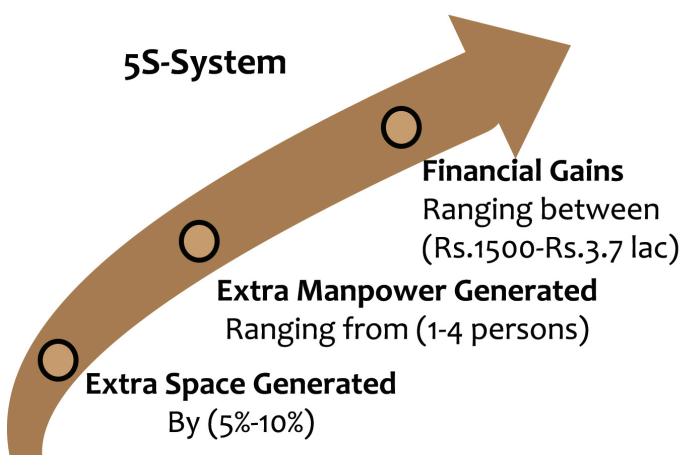
- 5S System
- Visual Control
- Standard Operating Procedures (SOPs)
- Just in time (JIT)
- Kanban
- Cellular Layout
- Value Stream Mapping
- Poka Yoke/ Mistake Proofing
- Single Minute Exchange of Dies/ Quick Changeover (SMED)
- Total Productive Maintenance (TPM)
- Kaizen Blitz/ Rapid Improvement Process

Impacts of *LEAN*

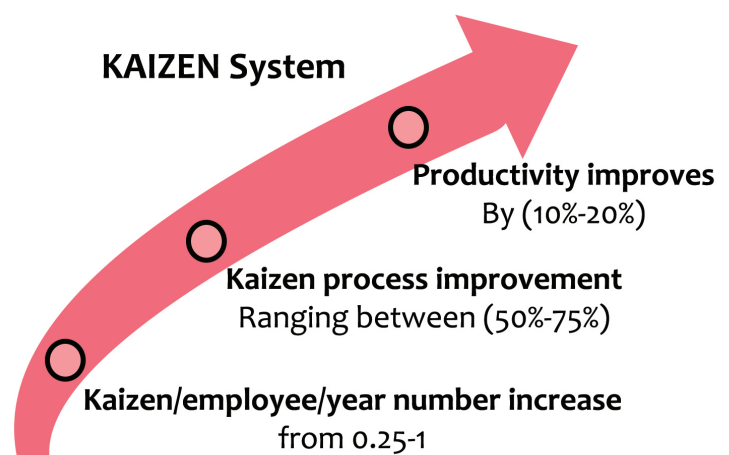
Lean can transform your business!!

By following an improvement program LEAN has delivered the following results in transformer cluster, Gwalior

5S-System



KAIZEN System



About FMC

Foundation for MSME Clusters (FMC) is a not-for-profit, non-government organisation established in 2005 specialized in promoting MSMEs through cluster development approach by creating cutting edge methodologies, tools, information and resources with appropriate linkages.

FMC Strength

The strength of the organization lies in the services it delivers. FMC has rich experience of working with MSMEs and has provided services in the areas of advocacy, implementation and coordination, training and research to more than 200 clusters nationally and globally across 12 countries. With the capacity and experience to work in multiple manufacturing sectors like foundry, engineering, textiles, rubber, metal, non-ferrous, IT, electronics etc. the organization has set up its strong presence throughout the country with 8 offices.

FMC is an empaneled **Lean Manufacturing Consultant** (under the LEAN manufacturing competitiveness scheme) with Quality Council of India and National Productivity Council. With its strong team of 10 Lean experts and 15 Technical assistants FMC has successfully implemented LEAN concepts in more than 500 MSME manufacturing units and helped them in achieving savings upto 30%.

Head Office

Foundation for MSME Clusters (FMC)

USO House, 2nd Floor, USO Road, Off Shaheed Jeet Singh Marg,
6 Special Institutional Area, New Delhi-110067
Ph:+91-11-26602886, 40563324/23, Fax:+91-11-41688589/90
Email: info@msmefoundation.org

Ludhiana Office

Flat no. 4492, Ground Floor,
Dandra Road, Dugri,
Ludhiana-141003, Punjab

Jaipur Office

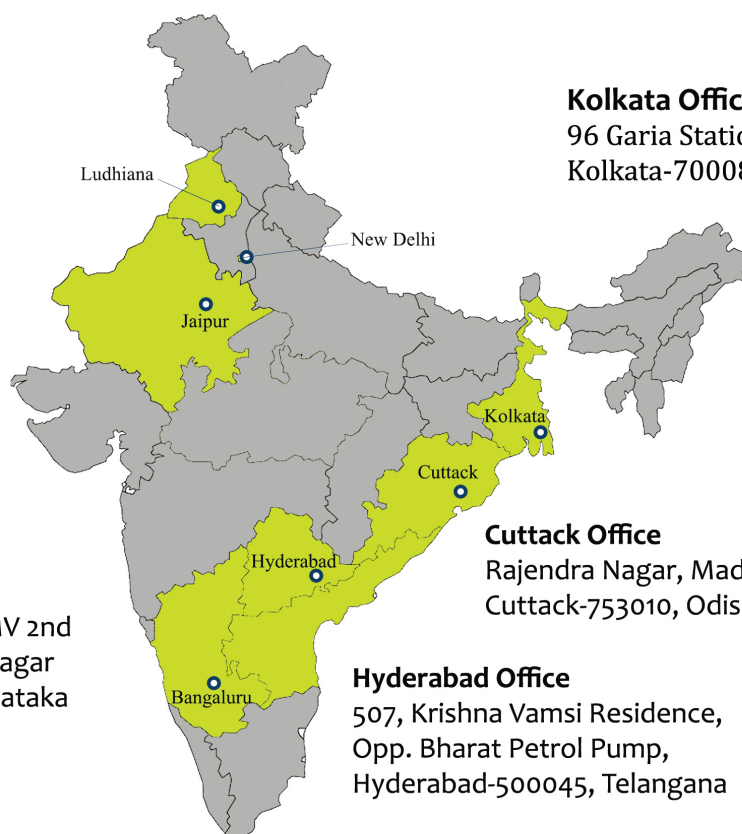
Room No.-201, D-136,
Raj Bhawan Apartment,
Savitri path, Bapu Nagar,
Jaipur- 302015

Bangalore Office

Flat no 101, #43, 6th Cross, RMV 2nd
Stage, Boopasandra, Sanjay Nagar
Post, Bengaluru-560094, Karnataka

Kolkata Office

96 Garia Station Road
Kolkata-700084, West Bengal



Cuttack Office

Rajendra Nagar, Madhupatna,
Cuttack-753010, Odisha

Hyderabad Office

507, Krishna Vamsi Residence,
Opp. Bharat Petrol Pump,
Hyderabad-500045, Telangana