

# Moving forward towards WCLE (world class lean enterprise)

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# How do we define a world class manufacturing unit?

Any unit which is capable of manufacturing and servicing its goods in consistent quality at lower cost and fastest speed and in full can be defined as world class lean unit.



# Lean & Six Sigma

**LEAN ESTABLISHES THE STANDARD.**

**SIX SIGMA REMOVES THE DEVIATION FROM THE STANDARD.**

Lean addresses continuous improvement, Five S, waste identification and elimination, work place organization, vendor relationships, visual factories, error proofing, process standardization, culture changes, physical arrangement of the facility.....

All of that promotes and ensures an efficient, synchronous flow of products and information throughout the organization.

Six Sigma and its tools are used to resolve any negative deviations from that standard.

So with the complement of Lean and six sigma, the proverbial bar is perpetually raised.

Lean and Six Sigma are for any process in the organization, not just for manufacturing. To be lean Six Sigma company, managers must address all processes, from the factory floor to customer service.

Recap

# Journey so far.

Study progress has been done in last one year to drive quality initiative amongst members.

Kick-starting seminar on government funding for capital goods industry and quality improvement.

Seminar in Hyderabad to highlight quality improvement procedures.

Seminar in Ahmadabad to exchange best practices adopted by members.

Plant visit to Cincinnati Milacron, Steer, Lohia, Prasad to study the Best practices adopted by different type of Industries.

Attended the AIPMA sponsored meeting with NPC deputy director Arundhati Chattopadhyay to understand MSME scheme of financing the Quality improvement program.

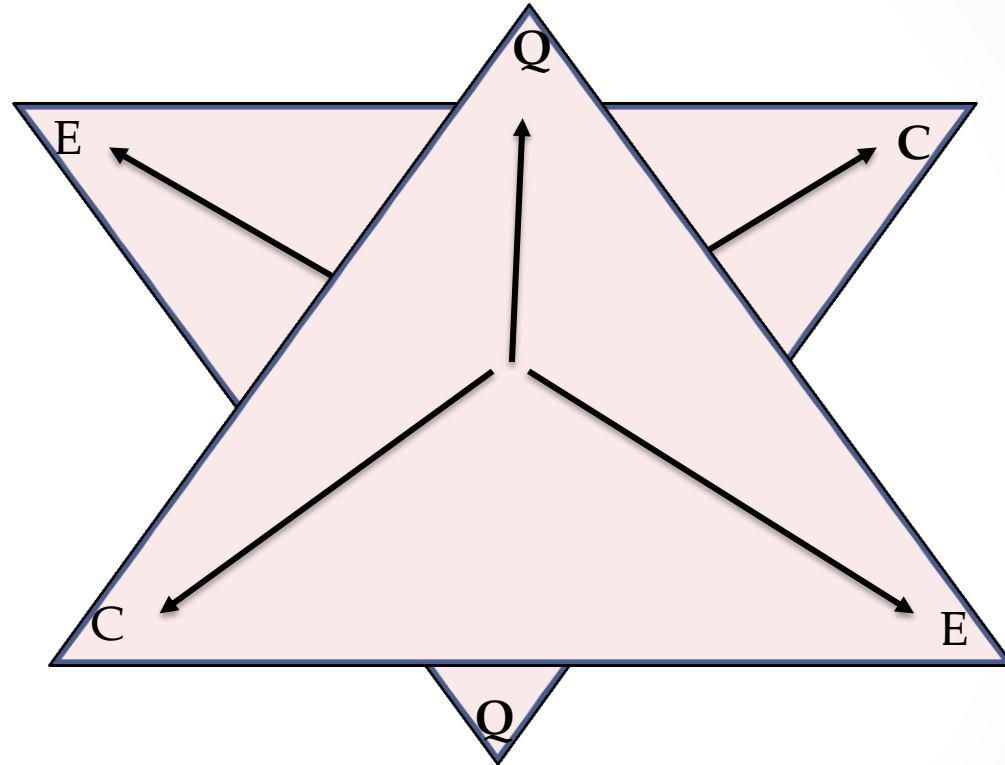
Had discussion with many individual members and understood the Need to act now to be globally competitive.

# Journey so far.



# Our Mission

Our mission is to just turn the triangle



Q- quality  
C- cost  
E- execution time.

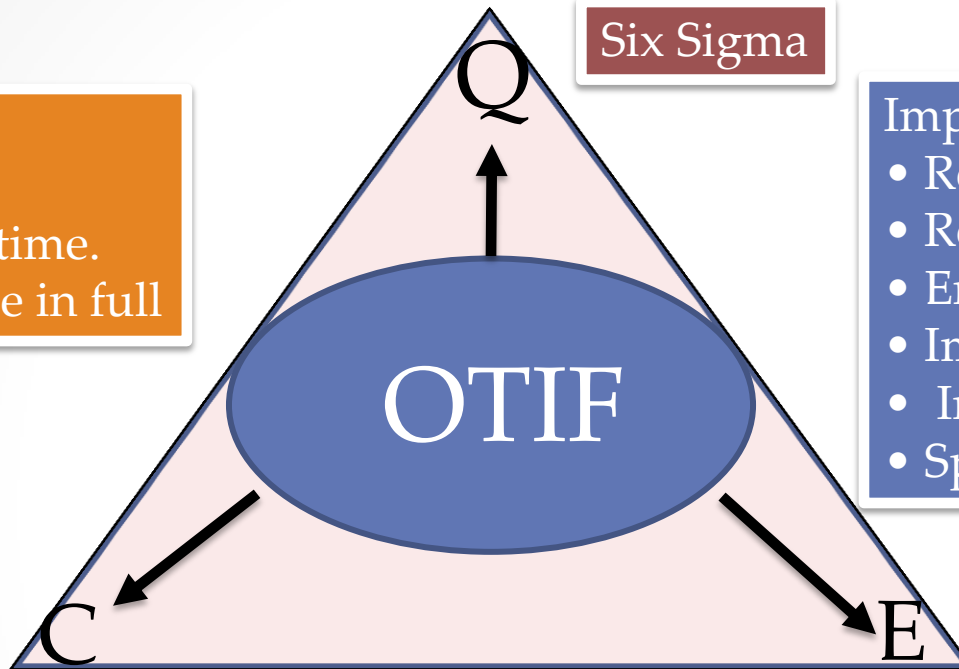
# World class lean enterprise (WCLE)

Result

Six Sigma

Q- Quality  
C- Cost  
E- Execution time.  
OTIF- On time in full

- Improved productivity
- Reduced WIP& inventory
- Reduced quality issues
- Enhanced capacity
- Improved layout
- Improved Visual management
- Space saving



LEAN TOOLS

5S/TPM/FMEA/JIT/SMED/VSM/SPC/QFD/SOP/HSES

CELLULAR MANUFACTURING/KANBAN/WORK FLOW

MEASUREMENTS

OTD/INVENTORY BACKLOG RATIO/LEAD TIME/FIELD NC/WARRANTY COST

# Moving forward `` redefining ``

Structure

Product

Process

Training

WCLE



# Next Steps.

- **Following steps are needed for successful, cost effective quality improvement program.**

Establish a quality improvement program – PMMAI

Establish consultants for quality improvement - SOURCE NPC.

Establish a leadership in PMMAI to guide and monitor- PMMAI

Establish a standard for machines for E13 countries  
.- PMMAI TECHNICAL LEADERSHIP TEAM.

Build a team within PMMAI to implement quality program with most Common vendors and establish lean qualified suppliers.

Establish an audit program annually to sustain the quality improvement drive.

**Minimum of two years needed to complete the drive.**

# BARRIER TO IMPLEMENTING STRATEGY

Recap

Very limited top  
Management team  
Focused to change

Barrier to Strategy Execution

## Vision Barrier

30 years  
syndrome  
overshadows  
enthusiasm.

## People Barrier

People made in  
charge of the  
project had no  
time  
commitment

## Mgmt. Barrier

Limited focus by  
top  
management.

## Resource Barrier

No financial  
Commitment for  
Change.

**VISION** without  
**ACTION** is dreaming

**ACTION** without **VISION** is random  
activity

**VISION** and **ACTION** together  
can change the world.

# Who Are We?

## We offer,

- Project Consultancy
- Training & Mentoring
- Marketing Support & Strategies
- Designing – Product & Machine

You Can reach us at :

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