

34th

CCQC-2023



QUALITY CIRCLE FORUM OF INDIA

Nagpur Chapter

संपन्न

Souvenir of QCFI Nagpur Chapter

THEME

**Nurture Quality Concepts
For a Better Future**

Volume 6 Issue 3/20

July, Aug, Sept - 2023 / 10-09-2023

Web: www.qcfinagpur.in

**Awarded Best
e-News Letter
at 34th
NCQC2020
and 36th
NCQC2022**

34th

CHAPTER CONVENTION ON QUALITY CONCEPTS

CCQC-2023



Organised by

QUALITY CIRCLE FORUM OF INDIA

Nagpur Chapter

In association with,

RCOEM

Shri Ramdeobaba College of
Engineering and Management, Nagpur

THEME

**Nurture Quality
Concepts
For a Better
Future**

Case Study Presentation &
Valedictory Function

Sunday, 10th Sept. 2023

All Case Study / Poem / Essay /
Slogan / Cartoon / Poster
to be submitted between

17th Aug. 2023 to 28th Aug. 2023

Knowledge Test

Knowledge Test will be
conducted online between
22nd Aug. to 29th Aug. 2023

VENUE

Shri Ramdeobaba College of
Engineering and Management, Nagpur

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EDITOR'S DESK

VIVEK A. SHROUTY

Secretary, QCFI Nagpur Chapter
And
Editor, 'SANKALP'

Dear Quality Aspirant,

I am pleased to write this as we are one step closer of publishing our e- newsletter SANKALP; as a souvenir on the occasion of the Chapter Convention on Quality Concepts, CCQC-2023, which will be held on Sunday, September 10th, 2023.

In a world brimming with choices, challenges, and constant evolution, the pursuit of quality remains a guiding light that shapes our experiences, decisions, and aspirations. As we navigate the intricacies of modern living, we find ourselves not just seeking quantity, but demanding excellence in every facet of our lives. And in this issue of SANKALP, we delve into the essence of quality.

Businesses that prioritize quality are unquestionably successful. This examines how organizations from various industries incorporate quality concepts into their DNA.

In an age when the world is facing environmental challenges, the concept of quality extends to preservation and sustainability. How individuals, communities, and industries are joining forces together to ensure a high quality of life for future generations. In accordance with this thought process, the QCFI Nagpur Chapter launched a new award based on sustainability, the GREEN EXCELLENCE AWARD, beginning in 2023, and we received an overwhelming response.

Quality is not a mere attribute; it is a mind-set that encourages us to aspire for the best, to value every moment, and to make a

meaningful impact on the world. In each page of this issue, we hope to inspire you by including section like Success story, Article, Essay, Poem, Happenings and about trainings to embrace quality as a guiding principle, shaping your journey towards a more fulfilling and purpose-driven life.

Step into the shoes of quality circle members as they recount their remarkable journeys. From identifying process problems to devising ingenious solutions, these stories showcase the transformative impact of unity and shared purpose. With a spotlight on diverse industries, shed light on the art of problem-solving and continuous improvement through real-world experiences.

I would like to thank our Authors, Artists for their support and phenomenal work in writing down the Articles, Poems, Slogans, Posters you are about to read in this issue.

I would also like to extend my gratitude towards Shri Ramdeobaba College of Engineering and Management for their continuous support.

I take this opportunity to welcome all the participants, QC members, Delegates, Organizations from PAN BHARAT in this 34th CCQC-2023 and confident that this chapter convention on Quality Concepts, CCQC-2023 will not be just a gathering; but also a catalyst for empowerment of Quality Circle members.

My Best Wishes!





CHAIRMAN'S TALK

Mr. A. K. JAIN

**Chairman
QCFI, Nagpur Chapter
Director QCFI Board**

Dear Participants and Organizers,

Exciting time awaits as we gear up for the most thrilling event of the year - the 34th Chapter Convention on Quality Concepts (CCQC-23)! Get ready to embark on a journey of learning, inspiration, and camaraderie.

This event is being organized in association with RCOEM Shri Ramdeobaba College of Engineering and Management, Nagpur on 10th of September 2023. Our theme for this convention, "Nurture Quality Concepts for a Better Future," sets the tone the way we perceive and embrace quality in our organizations and lives.

We can hardly contain our enthusiasm as we anticipate the wealth of knowledge and experiences we'll share during this incredible event.

I eagerly look forward to see you all at this vibrant gathering, where top-notch experts will unravel the secrets to success in the realm of quality improvement. Their insights will ignite the sparks of brilliance within each of us.

I urge all participants to prepare themselves for presentations, showcasing their organizations that have triumphed through their dedication to quality.

As a cherry on top, outstanding participants will have the prestigious chance to participate in the National Convention, taking place in the first week of January 2024. This is an exceptional opportunity to showcase our region's talent on a national stage and foster excellence across the country.

And I encourage my fellow experts from industries to gear up for delivering captivating technical sessions, to explore the cutting-edge quality topics that will elevate our region with skills and expertise to new dimensions.

It's a chance to embrace the spirit of togetherness and showcase the magic that lies within our community.

CCQC-23 is more than just an event; it's an extraordinary opportunity to network and build lifelong connections with like-minded professionals. These connections will be invaluable in nurturing personal and professional growth, opening doors to boundless opportunities.

Let's not forget the incredible advantages that Quality Circles bring to industries. Together, we'll unlock the potential for increased productivity, enhanced quality, reduced costs, and elevated employee morale. Our journey will empower us with enhanced problem-solving skills, bolster communication and teamwork, and deliver ultimate customer satisfaction.

So, don't miss out on this exceptional chance to be part of something extraordinary and let's create a lasting mark in Nagpur for CCQC-23 !

With Boundless Enthusiasm,



MESSAGE

Mr. AJAI NIGAM

**Vice Chairman
QCFI, Nagpur Chapter**

My heartiest greetings and best wishes to QCFI, Nagpur chapter for organizing

34th CCQC, 2023 in association with RCOEM, Nagpur being held on 10th September 2023. The theme "Nurture quality concepts for a better future" speaks high about setting goal for continuous improvement in individual's life by implementing quality concepts and emphasizing on creating consciousness for green environment.

Quality concepts include "Safety" and that should be practiced in every field and not restricting to manufacturing sector. A good safety management leads to higher productivity particularly in manufacturing/storage/transport etc. of hazardous substances. Zero tolerance to accidents ensuring no loss of human life and damage to property should be the target. "Safety First" is the Mantra.

We need to train our workforce in the use of advanced technology and methodology in processes. Skilling, re-skilling and up-skilling are the tools for the future workforce. In India, Skill India Mission is a campaign to connect with this reality. Such conventions on quality concepts do provide an opportunity to quality aspirants and leaders to initiate new ideas and explore possibilities in overall development even without involvement of top management in every stage.

I extend my best wishes to all for participating in this event and subjecting themselves to learning and enriching their experience using the forum in self development for better tomorrow. I am sure this 34th CCQC will be a grand success

*Best
Compliments.*



MESSAGE

Er. MANOHAR HEDA OO

**Vice Chairman
QCFI, Nagpur Chapter**

Dear Friends,

In our pursuit of a brighter and more promising future, it is imperative that we focus on nurturing quality concepts that can pave the way for sustainable growth, innovation, and prosperity. By embracing these principles, we can lay the foundation for a society that thrives on excellence and ethical progress.

Quality, in all its facets, forms the cornerstone of progress. Whether in education, technology, healthcare, or any other field, the pursuit of excellence drives us to continuously improve, innovate, and create lasting impact.

The concepts like Continuous Improvement, Innovation, Education and Training etc. are considered for nurturing a culture of quality in the organization.

And so this year theme for the CCQC -23 is **“Nurture Quality Concepts for a better Future”** a perfect fit.

By embracing these concepts and weaving them into the fabric of our society, we can create a future that is not only technologically advanced but also characterized by compassion, ethics, and the pursuit of excellence.

Let us commit ourselves to nurturing quality concepts, for in doing so, we lay the groundwork for a future that is brighter, more inclusive, and filled with limitless possibilities.

Warm regards,



MESSAGE

Mr. DUSHYANT PATHAK

Vice Chairman - QCFI, Nagpur Chapter
Plant Head, Elkem South Asia
Pvt. Ltd. Nagpur

Dear Improvement leaders ,

We welcome you at this 34th Chapter Convention on Quality Concepts.

We are celebrating theme of “ Nurture Quality Concepts for a better future” , with a purpose to define a future of our operation with high degree of confidence on consistency , reliability and sustainability.

We are experiencing an ocean of opportunities to rebuild our processes with enhanced level of automation, digital footprint and flexibility which not only satisfy the needs of our stakeholders but also substantially accelerate the organization learning.

Dr Demings says that “Make "transformation" everyone's job” by Improving overall organization by having each person taking a step toward quality and analyse each small step, and understand how it fits into the larger picture.

Quality circles are the backbone of organization culture of leaning and experimenting the new ideas and pushing the wall of successes , these teams not only lead from front for this transformation but also inspiring the rest to follow .

We see every year the huge progression in problem solving capability among the quality circle members , precision in identification of causes and its creative solutions and the most important passion to resolve the unsolved issues to boost the performance .

Our responsibility towards the ESG – Environment, Social and Governance, is deeply related to the efforts going on at shop floor to continuously challenge the usage and wastage of resources.

Supporting the drive to save earth by reducing adverse impacts, same time involving everyone in organizational improvements towards transparency, ethical values and right conduct.

We are in need to embrace these changes towards our sustainable manufacturing operation & value chain which will be eventually leading a prosper future for our generations

I look forward many inspiring such stories from you to this convention, cheering your successes and also giving motivation to your fellow presenters.

Our sincere gratitude to your management and sponsors for their full support in making Quality Circles a gateway of success and developing you as a torchbearer.

I wish you a great success and many learnings from this meaningful engagement.

My Best Wishes!



MESSAGE

Mr. RAJESH JAIN

**Plant Head
JSW - Kalmeshwar**

Empowering Success through Quality Circles

At JSW Steel Coated Products Limited, we firmly believe in nurturing a culture of excellence, collaboration, and continuous improvement. Our Quality Circles have played a vital and instrumental role in achieving this vision. They serve as a cornerstone of our organization, allowing us to harness the collective wisdom and innovative ideas of our talented workforce.

Quality Circles are not just a program; they represent a philosophy that encourages every employee, from the shop floor to the boardroom, to actively participate in identifying challenges, devising ingenious solutions, and implementing improvements throughout our operations. The ideas generated through these circles have led to remarkable advancements in our processes, productivity, and product quality, contributing significantly to our competitive edge in the market.

The impact of Quality Circles is evident in the numerous achievements and accolades we have received in recent times. We have witnessed a reduction in defects, enhanced workplace safety, streamlined production processes, Improved Well Being and heightened employee engagement, all of which have translated into a more robust bottom line.

I extend my heartfelt appreciation to all the passionate employees who actively participate in our Quality Circles and bring their dedication, creativity, and commitment to the table. Your efforts have not only improved our business outcomes but have also made JSW Steel Coated Products Limited an inspiring place to work.

As we move forward, we reaffirm our commitment to fostering a culture of continuous improvement and Quality Excellence. Let us continue to collaborate, innovate, and drive positive change through our Quality Circles, propelling our organization towards even greater heights.

My Best Wishes!



MESSAGE

Mr. Devendra Patodi

**VP-Operations & Plant Head
CEAT Ltd., Nagpur**

Dear Dignitaries and Participants,

I would like to compliment the Board Members of Quality Circle Forum of India (QCFI), Nagpur Chapter for organizing **34th CCQC-2023** with the theme- **NURTURE QUALITY CULTURE FOR A BETTER FUTURE."**

Quality culture encompasses the values, behaviors, and practices that prioritize excellence, continuous improvement, and a commitment to delivering the best possible outcomes in every aspect of life. Whether in education, work, relationships, or community engagement, a strong quality culture can lead to positive transformations and lasting benefits.

Quality Based Management (QBM) is our way of Business Excellence. The QBM approach enables us to work systematically by involving everyone, to achieve business objectives effectively and efficiently, and to provide products and services that satisfy customers. In Nagpur plant, QBM is working from a bottom-up approach to sustain a culture of continual improvement.

CEAT Nagpur Plant started its Production in Jan'2016 with a manufacturing facility of 2 & 3-Wheeler Tyres. Plant operates on a Self-Managed Team model with an average employee age of 24 years, out of which 24% are female associates (1st in Maharashtra to start Night Shift for Female Employees). The Plant has strengthened its safety system & won the British Safety Council's BSC-5 Star Rating & SWORD OF HONOUR. The plant has built Manufacturing Execution System (MES) & in-house digital solutions to make the manufacturing processes more efficient & effective to emerge as one of the lowest Manufacturing Lead Time in the Indian Tyre Industry, supplying tyres to all major 2/ 3 Wheeler vehicle OEMs. The plant is also supplying tyres to major Electric Vehicle OEMs like E-Rickshaw, E-bikes, etc.

Problem Solving : KAIZEN has always been

an integral part of Plant improvement & involvement culture. Since the initial days, Plant strives for achieving one Kaizen/person. To simplify the process considering Plant ramp-up, Kaizen App has been introduced from Apr'20 onwards. This has resulted in increased Kaizen reporting and resulted in achieving the highest ever Kaizen numbers i.e., 14000 in FY21.

SPARSH Circle (QC) & Quality Improvement Projects (QIPs) are helping Plant in resolving numerous chronic issues in systematic problem-solving manner. Teams are participating in problem solving with full zeal & enthusiasm. Purpose of **SPARSH Circle** is to create conducive environment for improvement by involving and empowering our associates those are directly working on machines and manufacturing processes. Associates participate, win awards in internal as well as external competitions like Quality circle forum of India (QCFI) at State, National & International level. Employee involvement in SPARSH circle achieved 100% in FY23 with 181 circle formations.

Lean initiatives: In FY'18 when plant was struggling for consistency of production numbers, Lean concept has been initiated. As a tool, Value Stream Mapping was initiated by QBM to identify NVA & VA in manufacturing. As a result, 30% lead time was reduced by FY'23 which impacted faster delivery to customer & Inventory cost saving. Going further, reduction in lot size and faster delivery is a major focus.

5S: In last 3-4 years 5S Zones increased from 27 to 39, extended 5S for Plant Peripheral areas and allotted Zone leaders. We leverage cross learnings through internal & external assessments. We also recognize the best 5S area in our monthly Open House. This has resulted in improving our 5S maturity score from 71 to 85 in the last 3 years.

My Best Wishes!



MESSAGE

Dr. RAJESH S. PANDE

**Principal
RCOEM**

My Greetings to all Participants and Delegates of the 34th CCQC-2023.

It gives me immense pleasure to be associated with the 34th Chapter Convention on Quality Concepts. On behalf of the QCFI Nagpur Chapter and as a Host Institution for the fifth consecutive year, I extend a warm welcome to all the Participants and Delegates.

The theme of Chapter Convention **“NURTURE QUALITY CULTURE FOR A BETTER FUTURE”** is relevant in the changing times that we are experiencing. Industry 4.0 has thrown lot of challenges & through Quality Movement the challenges can be easily surpassed. It is a welcome step by QCFI-Nagpur Chapter that they have chosen an apt title for the convention. The deliberations and discussion during the Chapter Convention will help all the stakeholders to identify & follow the right path.

We at Shri Ramdeobaba College of Engineering and Management, Nagpur; take pride in delivering quality education with a focus on research, consultancy and training which makes our faculty and students distinct from others. We are committed to the purpose of contributing to making India a “Global Leader”.

I wish to thank QCFI Nagpur Chapter for giving this opportunity to be associated with Chapter Convention.

*Best
Compliments.*



MESSAGE

Dr. RAJIV B. KHAIRE

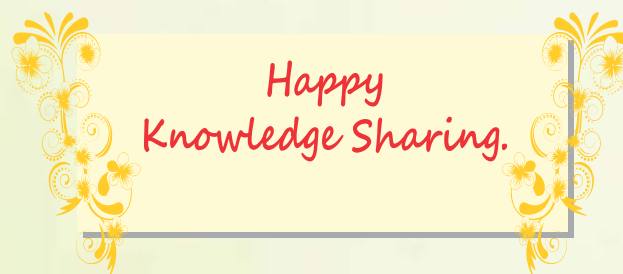
Dean
III-Cell RCOEM

My sincere thanks to Quality Circle Forum of India- Nagpur Chapter (QCFI) for organising **34th Chapter Convention on Quality Concepts** jointly with Shri Ramdeobaba College of Engineering and Management (RCOEM)-Nagpur.

The theme of Chapter Convention “NURTURE QUALITY CULTURE FOR A BETTER FUTURE” will provide a platform to all the Stakeholders to understand the role of Quality Concepts in Sustainable Future. Our Institute RCOEM, has been associated with QCFI-Nagpur since 2019 & this association has been mutually beneficial.

Hosting the Chapter Convention gives opportunities to our Faculty & Students to engage with industry professionals & understand the Industry Practices through Presentations of Best Papers, Case Study, Poems & Slogans related to Quality Concepts.

My best wishes to all the Stakeholders in this Convention.



Plant Level SPARSH Circle Competition successfully organised at CEAT Ltd Nagpur

Plant Level SPARSH Circle Competition successfully organised at CEAT Ltd Nagpur Plant on 20th & 21st Jul'23.

31 circles participated with full zeal & enthusiasm. Team received many valuable inputs & guidance from Jury members from our QCFI Nagpur Chapter.

Mr Vivek Joshi, Mr Adit Chaturvedi, Mr Abhay Girhare & Mr Sanjay Kulkarni were present as Jury Member



TRAINING

5s Training Programme

Rashtra Sant Tukdoji Cencer Hospital & Research Center, Nagpur



Training Programme has been Conducted by Shri Abhay Sabnis GC Member, QCFI Nagpur Chapter



Understanding Quality Concepts: Key Principles for Success



Nitin S. Kingaonkar

Director, QCFI Board
Chairman, QCFI
Ch. Sambhaji Nagar

Introduction:

Quality is a crucial aspect of any product or service, playing a significant role in customer satisfaction and overall business success. In today's competitive market, organizations must prioritize the consistent delivery of high-quality offerings to meet and exceed customer expectations. To achieve this, they need to embrace various quality concepts and principles that guide them towards excellence. This article will explore some fundamental quality concepts and their significance in ensuring exceptional products and services.

Quality Circles:

Quality Circles are structured forums that bring together a diverse group of employees from different departments or functional areas within an organization. These circles consist of frontline workers, supervisors, and managers who collaborate to address issues and make improvements in their respective work areas. The primary objective of Quality Circles is to harness the collective knowledge, skills, and experiences of employees to enhance productivity, quality, and overall organizational

performance.

1. **Voluntary Participation:** Employees participate in Quality Circles on a voluntary basis, showing their commitment and interest in making positive changes within the organization.
2. **Regular Meetings:** Quality Circles typically meet on a regular basis, providing a platform for members to discuss and analyze work-related issues, share ideas, and propose solutions.
3. **Problem Identification and Analysis:** Quality Circles focus on identifying and analyzing work-related problems that impact quality, productivity, or customer satisfaction. This involves conducting root cause analyses and applying problem-solving techniques.
4. **Team-based Approach:** Quality Circles operate on the principle of teamwork, encouraging collaboration and knowledge sharing among members. The diverse perspectives and expertise of participants contribute to a holistic understanding of the identified problems and potential solutions.
5. **Employee Empowerment:** Quality Circles empower employees by giving them the opportunity to contribute their ideas, insights, and expertise. This involvement fosters a sense of ownership and accountability for the outcomes and

encourages a proactive approach towards continuous improvement.

Five 'S':

In today's fast-paced and competitive business world, organizations strive for efficiency, productivity, and a clutter-free work environment. The Five S concept provides a systematic and practical approach to achieve these goals. Originating from Japan, the Five S concept focuses on organizing and optimizing the workplace for improved productivity, safety, and overall effectiveness. In this article, we will explore the Five S methodology and its benefits in creating a well-organized and efficient work environment.

The Five S methodology comprises five key principles, each represented by a Japanese word beginning with the letter "S":

1. Sort (Seiri)
2. Set in Order (Seiton)
3. Shine (Seiso)
4. Standardize (Seiketsu)
5. Sustain (Shitsuke)

Total Quality Management (TQM):

Total Quality Management is a comprehensive approach that focuses on achieving quality excellence across all organizational processes and functions. TQM emphasizes continuous improvement, customer satisfaction, and involvement of all employees. It involves various practices such as process optimization, quality control, and customer feedback loops. By

implementing TQM, companies can foster a culture of quality consciousness and drive ongoing improvement efforts throughout the organization.

Continuous Improvement:

Continuous improvement, also known as Kaizen, is a philosophy centered around making incremental advancements in processes, products, and services. It involves the identification of areas for improvement, the development of improvement initiatives, and the implementation of changes. Continuous improvement encourages employees at all levels to actively participate in identifying inefficiencies, eliminating waste, and enhancing overall quality. By embracing this concept, organizations can continually enhance their offerings and stay ahead of the competition.

Six Sigma:

Six Sigma is a data-driven methodology aimed at minimizing defects and variations in processes. It employs statistical analysis to identify and address root causes of errors, aiming for a level of quality that allows only 3.4 defects per million opportunities. Six Sigma follows a structured approach known as DMAIC (Define, Measure, Analyze, Improve, Control) to systematically improve processes and enhance quality. This concept provides organizations with a robust framework to identify and eliminate defects, resulting in improved customer satisfaction and cost reduction.

Lean Manufacturing:

Lean manufacturing is a production approach

focused on eliminating waste and increasing efficiency. It originated in the automotive industry but has since been adopted in various sectors. The core principles of lean manufacturing include just-in-time production, continuous flow, and waste reduction. By minimizing inventory, optimizing processes, and empowering employees, lean manufacturing helps organizations enhance quality, reduce costs, and deliver products faster.

Quality Management Systems (QMS):

At the heart of effective quality management lies the implementation of a robust Quality Management System (QMS). A QMS provides a structured framework for managing and continuously improving quality across all organizational processes. It encompasses policies, procedures, and guidelines that help standardize operations, ensure compliance with regulations, and meet customer requirements. By adopting a QMS, organizations can streamline workflows, enhance transparency, and drive a relentless pursuit of quality excellence.

Plan-Do-Check-Act (PDCA) Cycle:

The Plan-Do-Check-Act (PDCA) cycle, also known as the Deming cycle or the Shewhart cycle, is a systematic approach for achieving continuous improvement. It involves four stages: Plan (establish objectives and processes), Do (implement the plan), Check (monitor and evaluate results), and Act (make necessary adjustments and implement improvements). By following the PDCA cycle,

organizations can drive iterative improvements, identify and address issues, and optimize their processes to deliver higher quality products and services.

Voice of the Customer (VoC):

Understanding and incorporating the Voice of the Customer (VoC) is essential for delivering products and services that align with customer expectations. The VoC concept involves capturing customer feedback, preferences, and needs through various channels such as surveys, interviews, and social media monitoring. By actively listening to the voice of the customer, organizations can gain valuable insights, identify areas for improvement, and tailor their offerings to meet customer demands. Incorporating the VoC concept enables organizations to enhance customer satisfaction, loyalty, and ultimately, their bottom line.

Conclusion:

Quality concepts provide organizations with a roadmap to excellence in today's competitive business landscape. By implementing such quality concepts organizations can establish a strong foundation for delivering high-quality products and services consistently. Embracing these concepts fosters a culture of continuous improvement, customer-centricity, and data-driven decision making. Ultimately, organizations that prioritize quality concepts position themselves for long-term success, customer loyalty, and a competitive advantage in their respective markets.

SUCCESS STORY

5S PHILOSOPHY AND 5S MONTH CELEBRATION @ Ashok Leyland Limited, Bhandara Plant

5S philosophy is not only 'housekeeping', but it is defined as process of '**mind, culture and innovation**'. It is a systematic process of stimulating minds to institutionalise culture change in working groups towards innovation.

It is the most basic technique to reduce waste and create a foundation of continuous improvement.

Work standardization, visual control and small team activity (5S) are foundation of Lean Manufacturing to achieve advance tools like JIT, Kanban, SMED, single piece flow etc for **making profit**. Sustaining 5S in organization needs visual benefits to leadership in terms of money, productivity & enhanced work environment.

5S is the stepping stone for visual control systems. It's implementation helps to define the first rules to eliminate waste and maintain an efficient, safe and clean work environment for reduced costs, improved quality and enhanced employee / customer satisfaction. All kaizen activities should start from 5S and end up by 5S.

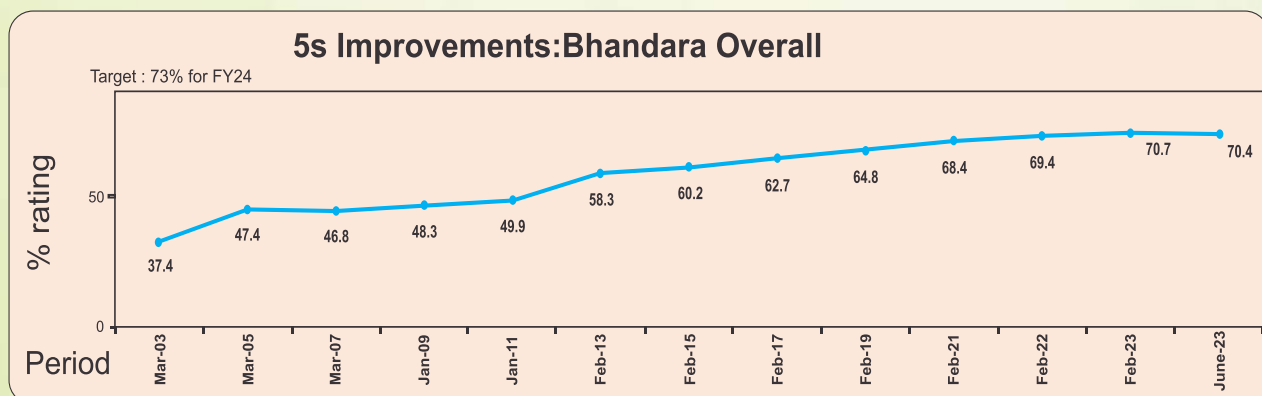
Societies from ancient time had expertise in this art as was evident with proper planning and standard procedure for each activity in ashrams, temples, homes and kitchens, it was popularized by Taiichi Ohno and Shigeo Shingo as 5S [Seiri (sort), Seiton (set in order), Seiso (shine), Seiketsu (standardized) and Shitsuke (sustain)]. Further Shikari (work with dedication), Shitsukoku (persistent in applying effort and consistency), Seishoo (proper coordination) and Seido (following basic steps regularly) were coined for sustenance of 5S practices.

It is also popularised as Henry Ford's CANDO (Clean up, Arrange, Neatness, Discipline and Ongoing improvement) technique.

5S methodology was adopted in Ashok Leyland Bhandara plant in 2003. Plant is segmented today in 56 zones covering total Plant area (up to boundary walls including five production zones, thirty support zones, thirteen offices and eight not in use zones). A trained 5S auditors team audits each zone on quarterly basis. 5S improvement over year is depicted in graph.



Status of 5s improvements: Mar-03 to June-23



5S program has benefited us in revenue generation through better rates for segregated scrap sale, higher productivity, reduced searching time during set up changes, space optimisation, reduced safety incidences, improved machine uptime, consistency in quality and enhanced team work & morale of one and all. Our efforts were validated by winning of 'ABK AOTS 5S Excellence Award' in 2010 followed by 'ABK AOTS 5S Sustenance award in 2011'. 5S, in an ongoing cycle and never "Once and Done". **July'23 month celebrated in Ashok Leyland as 5S month to propagate 5S culture.**



5S month at Bhandara Plant kicked off on July 1st by Mr. Ramakant Sharma (Plant Head Bhandara), seniors and Union representatives. Ramakant Sharma sir briefed the legacy of 5S

Culture being followed in India by our ancestors with precision in homes as well as workplaces. He urged all employees to make the 5S methodology as a way of life to make every place a Happy & safe one. Inaugural event witnessed declaration of various events, rewarding of associates having contributed with exemplary work in 5S drive, Shramdaan - workplace cleaning including senior team, 5S pledge signing, poem on 5S benefit and a skit.



Inauguration of 5S month event in 5S corner



Appreciation

Events planned in 5S month	
➤ Big cleaning day and red tag day	➤ 5S poster competition
➤ Disposal of red tag identified items	➤ 5S at home competition
➤ Best 5S line competition	➤ 5S Chalta Bolta quiz for associates
➤ Most improved work station through FPP	➤ Daily 5 minute 5S of work place / station
➤ Best 5S project competition	➤ Best 5S service provider workplace
➤ 5S auditors awareness program	➤ Online 5S quiz competition
➤ 5S refresher program	➤ Visit to Benchmark company

Mr Abhay Sabnis, Governing Council Member, QCFI, Nagpur Chapter conducted refresher session for 24 nos 5S auditors in L&D centre of Ashok Leyland Bhandara on July 18th. Team was enthralled with vast knowledge of faculty and practical examples of adopting it in factory and home. Associates also showcased various improvements done during shop round. Team Bhandara appreciated QCFI, Nagpur Chapter enthusiasm in spreading lean, green and quality concepts in the zone. Plant Head requested Abhay Sabnis sir for more number of training sessions on Quality circles, 5S and TPM implementation. Glimpses of event are as below.



Floral welcome



Refresher training on 5S concept



5S Corner



Associate sharing 5S improvements



5S team at L&D section

Big Cleaning day observed in day shift of July 24th. Mr Ramakant Sharma and senior team set the theme with sharing of activities to be carried out. Plant Head emphasized on self-discipline and maintaining 5S in routine. Mr S B Joshi shared importance of 5S at work place and emphasized on “Shramdaan” and total employee involvement.

All employees participated in sorting in all work stations, segregating and shifting not required things to red tag area, keeping balance tools / fixture / gauges etc back in designated places, cleaning with inspection and labelling carried out in all places. Red tag team reviewed items in red tag area. Teams for peripheral cleaning collected 134.25 kg waste.



Inauguration of big cleaning day in 5S corner

Waste collect data on Big cleaning day in Periphery During Shramdaan				
Sr. No.	Waste Polythene (Kg)	Hosiery Waste/Hand Gloves (Kg)	Kharda (Kg)	Metal (Kg)
1	3.6	4.2	2.8	0.95
2	1.5	6.9	1.2	5.8
3	13.8	16.1	20.1	1
4	10.1	19.1	-	-
5	9.4	8.3	1	0.8
6	2.6	3.4	1.6	-
Total	41	58	26.7	8.55

134 kg waste collected from periphery



Sorting



Cleaning with meaning

Employees participated with overwhelming response in various events planned throughout the month with zeal.



5S online quiz



Poster competition



5S best area competition



Chalta Bolta Quiz



Month being concluded with felicitation of winners

5S at Home assessment as a social awareness drive undertaken and homes of 05 associates visited on July 29th to access depth of understanding and horizontal deployment of learning acquired in Plant in home & society. A four members team visited homes and spread message of 5S and its benefits with the families

5 S @ Home				
S.No.	Name	Address	Department	Emp No.
1	R S Kawale	Khat Road Bhandara	Synchro	114079
2	S S Sakhare	Shiv Nagar Lakhani	Shaft	113844
3	G S Kayarkar	Lakhani	HT	113997
4	R D Kusumbe	Shiv Nagar Lakhani	QC	114189
5	DD Patle	Lakhani	Gear Soft	114068

5 families visited for 5S @ Home^{4th}



S – labelling and standardisation



Saplings gifted to families



Token gifts to kids



Good example of 2S



Water tank cleaning details

Kudos to QCFI, who is doing great job in providing common platform for various sector of Industries of India, to exchange and improve collectively. Team Ashok Leyland urge every member to utilise this opportunity to participate and learn. We wish QCFI a Great success in coming days.

SUCCESS STORY



Embracing the Kaizen Philosophy : A Journey of Continuous Improvement

JSW Steel Coated Products limited Kalmeshwar

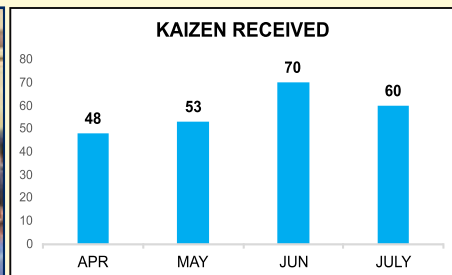
- ✿ At our organization, we strongly believe in the philosophy of Kaizen, which emphasizes continual improvement in all aspects of our work. We understand that Kaizen is not just a destination but a journey that requires the collective effort of every individual in our organization.
- ✿ The Kaizen Philosophy revolves around the notion that everything, including employees, processes, products, and the environment, can be improved. It fosters the belief that there is always room for growth and enhancement. We encourage each and every one of you to adopt this mindset, constantly seeking ways and means to improve in your respective roles.
- ✿ We are conducting Kaizen Awareness Training sessions to further empower our collective growth and improvement. These training sessions aim to provide a comprehensive understanding of Kaizen principles and foster a culture of continuous improvement throughout our organization.
- ✿ Kaizen is a mindset that permeates every aspect of our work. By embracing this philosophy, we can create a culture of continuous improvement and unlock our full potential as individuals and as a team



Site Visit to Review Kaizen



Training session



Kaizen Graph



- ★ The TQM Portal is not just a software solution; it's a catalyst for positive change and growth within our organization.
- ★ By streamlining the registration and monitoring of Kaizen and improvement projects, this platform empowers our teams to drive continuous improvement, embrace innovation, and achieve unparalleled success.
- ★ We took the step towards a brighter future with the TQM Portal – where excellence is not an option, but a way of life.

SUCCESS STORY



Nagpur plant established Lean Thinking & reduced its Manufacturing Lead Time by half

Purpose and back ground of LEAN in CEAT:

Lean defines waste as anything that consumes resources (material, people, and equipment) but doesn't create value for the customer.

In Today's Scenario when Customer demand is topmost Priority in terms of Producing What Customer requires, when Customer requires & how much customer requires. Currently, CEAT Nagpur manufacturing plant being the Sole supplier for Motorcycle, Scooter & 3W segment. To meet the customer requirement both in terms of volume & variety as well as on time supply, it has been critical to produce in the full capacity & of varying range to cater to different customer spread across geographies.

Establishing Lean Thinking:

Lean management benefits organizations by focusing on improving all parts of the work process throughout every level of the company's hierarchy. Some of them are:

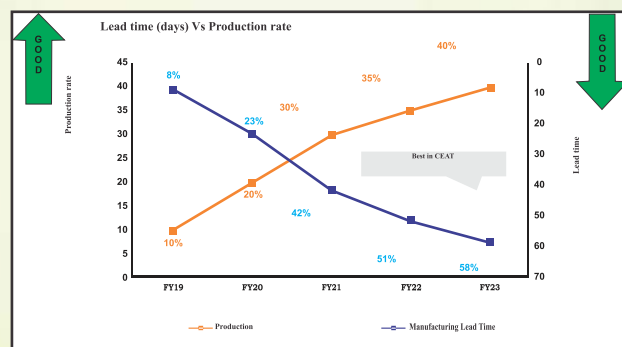
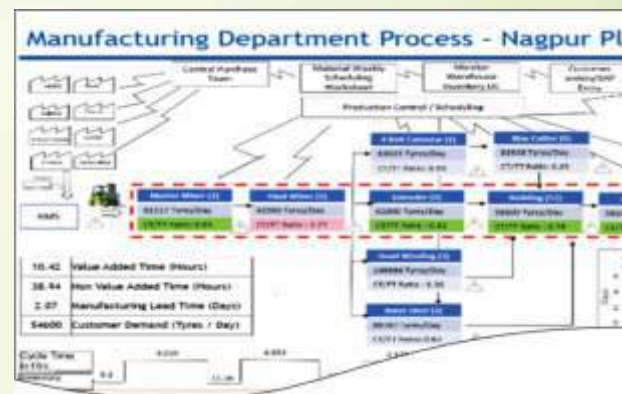
- Shorter Lead time – This will reduce waiting time for External customer & as well internal customer
- People Involvement – Involvement of CFT's to drive the common goals
- Standardization- Process & Product Standardization to enhance Quality & Delivery
- Built-In-Quality- Achieving First time right & Perfection

Continuous Improvement- Lean giving full picture of End to End process & Flow in one shot to identify current bottlenecks & future also

Through SPARSH 2.0 we have started Lean Management in Manufacturing through the VSM. Lean Management is the responsibility of each & everyone to start from bottom to top, whereas Lean should be Driven through CFT.

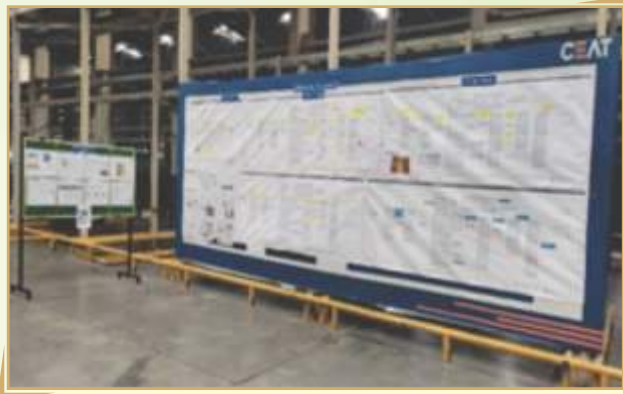
Success Story:

In Nagpur Plant, manufacturing Lead time is used to measure the effectiveness of Lean implementation. From P-Q analysis, 24% SKUs contribute to 80% of volume (Runner), 25% of SKUs have 15% Volume (Repeater) & 51% of SKU have 5% volume (Stranger). Structured targets for WIP & Reorder points developed through dashboards along with daily monitoring of SFG inventory like Compound, Tread & Green Tyre. After the identification of the Bottleneck stations, projects were found to reduce the cycle time and NVA activities. Lean concepts like SMED, OEE improvement, ECRS, and LCA are applied to found projects in the 2W tyre manufacturing process. Material Handling Equipment (MHE) tread booking capacity



maximized w.r.t. to Stock keeping units (SKUs) wise tread profile etc to improve CT/TT ratio. Application of Lean & Total Productive Maintenance (TPM) tools like Kanban, Low Cost Automation, Autonomous Maintenance **resulted in reduction of Manufacturing Lead Time by 58%**.

The manufacturing processes more efficient & effective to emerge as one of the lowest **Manufacturing Lead Time in the Indian Tyre Industry, supplying tyres to all major 2/3Wheeler vehicle Original Equipment Manufacturers (OEMs)**



CEAT Nagpur Plant VSM Gallery



Nagpur Plant LEAN implementation CFT Sought valuable inputs from NR San



Mr. Shrirang Deshpande Manager IE explaining the VSM & Facilitations by MR. N Ramanathan, VP-Plant head Devendra Patodi, VP-QBM Manohar Sethpalani, Production head - Uttam Wagh & Academy head - Praveen Singh



Nagpur Plant LEAN implementation CFT with Sought valuable inputs from MD Mr. Arnab Banerjee & SVP manufacturing Jayasankar Kuruppall

Navigating the Nexus of Sustainability: Addressing Climate Change and ESG Principles



VIVEK SHROUTY

Secretary, QCFI Nagpur Chapter

Introduction

In recent decades, the world has witnessed an increasing recognition of the urgent need for sustainable practices to mitigate the impacts of climate change. As concerns about environmental degradation grow, so does the emphasis on Environmental, Social, and Governance (ESG) principles. This article delves into the interconnectedness of sustainability, climate change, and ESG, highlighting the crucial role they play in shaping the present and future of our planet.

The Imperative of Sustainability

Sustainability entails meeting the needs of the present without compromising the ability of future generations to meet their own needs. It encompasses environmental conservation, social equity, and economic viability. At the heart of sustainability lies the challenge of curbing climate change, one of the most pressing issues of our time.

Climate Change: A Global Crisis

Climate change, primarily driven by human activities such as burning fossil fuels, deforestation, and industrial processes, has led to a rise in greenhouse gas emissions. The resulting increase in global temperatures has triggered a cascade of environmental and societal consequences, including extreme weather events, rising sea levels, and disruptions in ecosystems.

Addressing climate change necessitates a multifaceted approach that encompasses policy changes, technological innovations, and behavioural shifts. Transitioning towards renewable energy sources, adopting sustainable

land-use practices, and enhancing energy efficiency are key strategies to mitigate climate change's adverse effects.

ESG Principles: A New Paradigm

Simultaneously, the integration of ESG principles is causing a paradigm shift in the business world. ESG refers to the assessment of a company's performance based on its environmental impact, treatment of social issue, and adherence to good governance practices. Investors, consumers, and regulators are increasingly scrutinizing companies' ESG practices, recognizing the link between financial success and responsible behaviour.

Intersecting Pathways: Sustainability, Climate Change, and ESG

The interplay between sustainability, climate change, and ESG is undeniable. ESG criteria serve as a compass for sustainable investing, guiding capital towards companies that are actively combatting climate change and prioritizing ethical practices. Sustainable business strategies, in turn, contribute to mitigating the adverse effects of climate change.

Challenges and Future Outlook

Despite growing recognition of the significance of sustainability and ESG, challenges remain. The outlook for the future is dependent on collaborative efforts. Governments, businesses, and individuals must all work together to promote sustainability. Through incentives, regulations, and international agreements, policymakers play a critical role in creating an enabling environment. Technology and financial innovations will also be critical in advancing sustainable solutions.

Conclusion

The convergence of sustainability, climate change, and ESG principles marks a pivotal moment in our history. Recognizing the inextricable links between these factors is essential for devising effective strategies to combat climate change, promote responsible business practices, and secure a sustainable future for generations to come. Embracing this nexus not only safeguards our planet but also paves the way for a more equitable and prosperous global society.

एकीकृत गुणवत्ता की अवधारणा

एक गुणवत्ता नीति एक संक्षेप में विवरण है जो आपके संगठन के उद्देश और रणनीतिक दिशा के साथ गठबंधन करता है, गुणवत्ता उद्देशों के लिए ढांचा प्रदान करता है, और इसमें लागू आवश्यकताओं (आईएसओ. ९००१, ग्राहक, वैधानिक या नियामक) को पूरा करने के साथ-साथ लगातार सुधार करने की वचनबद्धता शामिल है।

गुणवत्ता प्रबंधन - गुणवत्ता प्रबंधन सुनिश्चित करता है कि एक संगठन, उत्पाद या सेवा सुसंगत है। इसके चार मुख्य घटक हैं

१. गुणवत्ता नियोजन २. गुणवत्ता आश्वासन ३. गुणवत्ता नियंत्रण, ४. गुणवत्ता सुधार.

गुणवत्ता प्रबंधन न केवल उत्पाद और सेवा की गुणवत्ता पर केंद्रित है, बल्कि इसे प्राप्त करने के साधनों पर भी केंद्रित है। गुणवत्ता प्रबंधन इसलिए अधिक सुसंगत गुणवत्ता प्राप्त करने के लिए गुणवत्ता आश्वासन और प्रक्रियाओं के साथ-साथ उत्पादों का उपयोग करता है। गुणवत्ता नियंत्रण भी गुणवत्ता प्रबंधन का हिस्सा है। ग्राहक क्या चाहता है और इसके लिए भुगतान करने को तैयार है, गुणवत्ता निर्धारित करता है। यह बाजार में किसी ज्ञात या अज्ञात उपभोक्ता के लिए लिखित या अलिखित प्रतिबद्धता है। इस प्रकार गुणवत्ता को इच्छित उपयोग के लिए उपयुक्तता के रूप में परिभाषित किया जा सकता है या, दुसरे शब्दों में उत्पाद अपने इच्छित कार्य को कितनी अच्छी तरह से

करता है।

गुणवत्ता प्रबंधन के उपरोक्त चारों घटक उस देश को वैश्विक नेता बनने के लिए मददगार साबित होते हैं और देश के हर नागरिक का भारत को वैश्विक नेता देखने का जो सपना है, वह पूरा हो सकता है। उसके लिए हमें हर संभव कोशिश करके हमारे उत्पादों कि गुणवत्ता को अब्बल रखना, दिन-ब-दिन हमारे उत्पादों कि लागत को कम करना, आधुनिक टेक्नॉलॉजी का प्रयोग करना, उत्पादन करते समय उत्पादों पर लक्ष केंद्रित करना, समय पर उत्पादों कि डिलिवरी करना, आनेवाले नये चॅलेन्जेस को स्विकार करके, उसका सामना करके उसे पूरा करना आदि कार्य गुणवत्ता प्रबंधन के साथ-साथ कंधे से कंधा मिलाकर अपना सहयोग देकर भविष्य में आनेवाली समस्या का समाधान धूँडकर भारत देश को वैश्विक नेता बना सकते हैं।

हमने देखा है कि कोरोना काल में हमारे देश ने देश के साथ-साथ विश्व के कई देश को दवाईयाँ, व्हॅक्सिन, खाने कि चीजें, मार्गदर्शन एवं जीवनावश्यक वस्तुओं को देकर लिडरशिप कि ओर कदम बढ़ाया है। इसी प्रकार अन्य क्षेत्रों में भी हम सभी भारतवासी एक होकर हमारे पास जीसभी क्षेत्र संबंधित कुछ ज्ञान है तो उसे सार्वजनिक करके उसे प्रत्यक्ष रूप में लाकर हर कोई देश कि लिडरशिप में अपना योगदान दे सकते हैं।

क्वालिटी सर्कल - क्वालिटी सर्कल यह दो से दस

लोगोंका एक समुह होता है और यह अपने कार्यस्थल पर होनेवाले उत्पादन के गुणवत्ता पर, लागत पर, वेस्टेज पर, संशोधन पर, सुरक्षा एवं सुधार पर अपनी नजर रखता है। एक ही संस्थान में ऐसे कई क्वालिटी सर्कल होते हैं। संस्थान के कर्मचारी एक ही सिक्के के दो पहलु होते हैं। इनमें से किसी कि भी लापरवाही या गलत निर्णय का असर उत्पादन कि गुणवत्ता पर होता है। इसलिए दोनों भी साथ मिलकर समझदारी से यदि कार्य संपन्न करें तो वह संस्थान एवं कर्मचारी दोनों भी लाभान्वित होकर स्वयं के साथ-साथ देश कि भी उन्नति होती है और हमारे देश को वैश्विक नेता बनाकर हम अपने सपनों को साकार एवं आकार दे सकते हैं। इसलिए संस्थानों में क्वालिटी सर्कल कि संख्या बढ़ाकर उन्हें हमेशा कार्यरत रखने में हर कर्मचारी योगदान देकर हम हमारे भारत देश को गुणवत्ता पूर्ण उत्पादन से एकीकृत गुणवत्ता को प्रवेशद्वार से गुजारकर भारत को दुनिया का सर्वश्रेष्ठ राष्ट्र बनाकर वैश्विक नेता बनाकर वैश्विक नेतृत्व कर सकते हैं।

असफलता हि सफलता कि पहली सिढी है - हाल हि में भारत भर की अलग-अलग स्कूल-कॉलेज कि ७५० छात्राओं द्वारा विकसित, आजादी सैट, सैटेलाइट इससे द्वारा लॉन्च किया गया। लॉन्चिंग के बाद भलेही यह सैटेलाइट अपनी कक्षा से भटक गया और उद्देशपूर्ती नही हुई पर हम जानते हैं कि असफलता हि सफलता कि सिढी होती है। आज नही तो कल यदि प्रयास करते रहेंगे तो सफलता जरूर मिलेगी और उद्देश भी पूर्ण होगा। यह एक एकीकृत

होकर किये गये कार्य का उदाहरण है। ऐसे हि प्रयास यदि हम सब भारतवासी करते रहेंगे तो निश्चित रूपसे हम हमारे देश को वैश्विक नेता बना सकते हैं।

दुसरे महायुद्ध के बाद जिस प्रकार जापान कि हालत हुई थी, परंतु वहाँपर बडी मात्रा में क्वालिटी सर्कलों का गठन करके वहाँ के संस्थानों एवं लोगों ने उस परिस्थिति को संभालने में अपना योगदान देकर गुणवत्ता पूर्ण उत्पादन करके अपने देश को एक प्रगत देश में बदला था, यह एक जीता जागता क्वालिटी सर्कल का उदाहरण हमें हमेशा प्रेरणा देता है। ठिक उसी प्रकार हम भी हमारे देश एवं देश कि संस्थानों में मेहनत एवं लगन से, सुज-बुज कर एकीकृत होकर “एकीकृत गुणवत्ता कि अवधारणा करके ही हम हमारे भारत देश को वैश्विक नेता बना सकते हैं, क्योंकि एकीकृत गुणवत्ता कि अवधारणा हि वैश्विक नेतृत्व का प्रवेशद्वार है।”

सुभाष धर्मे

अजय क्वालिटी सर्कल, रेमण्ड लि. छिन्दवाडा



पूर्ण गुणवत्ता नियंत्रण

पूर्ण गुणवत्ता नियंत्रण सभी नियंत्रणों में सबसे ज्यादा आवश्यक नियंत्रण है, हम ज्यादा मामलों में जहां सांख्यिकीय गुणवत्ता नियंत्रण तकनिक या गुणवत्ता सुधार कार्यान्वित होने के बावजूद, बिक्री घट जाती है।

यदि मुक्त विनिर्देश सही गुणवत्ता जरूरतो को प्रतिबिंबित नहीं करता है, तो गुणवत्ता नियंत्रण का उत्पादन निरीक्षण या विनिर्माण नहीं किया जा सकता है।

उदाहरणस्वरूप दबाव पोत के लिए सभी पैरामीटर में सिर्फ सामग्री और आयाम ही नहीं बल्की संचालन, पर्यावरण, बचाव, स्थायीता और रख-रखाव की जरूरते भी शामिल रहने चाहिए।

ग्राहको की जरूरतो को पुरा करने या उससे जादा करने के लिए, उत्पाद या सेवाओं के उत्पादन और गुणवत्ता में विश्वसनीयता होनी चाहिये।

दुर्गाप्रसाद डी. येले

प्रगती क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटनस् लि. अमरावती

उत्पादन की गुणवत्ता

उत्पादन की गुणवत्ता सबसे महत्वपूर्ण विशेषताओं में से एक है जो उत्पाद की मांग को निर्धारित करती है और कंपनियों के साथ-साथ देशों के आर्थिक स्वास्थ्य के लिए रणनीतिक महत्व की है। विशेष रूप से, गुणवत्ता अनेक तरीकोसे एक फार्म को प्रभावित करती है।

-: कंपनी की छवि और प्रतिष्ठा :-

गुणवत्ता वाले उत्पाद न केवल उत्पादों को बल्कि कंपनी को भी बढ़ावा देते हैं। एक संगठन गुणवत्ता के लिए अपनी प्रतिष्ठा की उम्मीद कर सकता है। अच्छा या बुरा - इसका पालन करने के लिए। गुणवत्ता के आधार पर, लोग कर्म के नए

उत्पादो, रोजगार प्रथाओ और उपभोगताओं के लिए चिंताओ के बारे में कुछ धारणाएं विकसित करते हैं।

-: अंतर्राष्ट्रीय निहितार्थ :-

इस तकनिकी युग और निरंतर वैश्विक संपर्क में, गुणवत्ता एक अंतर्राष्ट्रीय चिंता का विषय है। वैश्विक प्रतिस्पर्धा को पुरा करने के लिए, उत्पाद को गुणवत्ता और मुल्य अपेक्षाओ को पुरा करना चाहिए। अन्य देशों को उत्पादो का निर्यात किसी भी देश के लिए बहुत महत्त्वपूर्ण आर्थिक कारण है।

नितीन ए. पाचपांडे

प्रगती क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटनस् लि. अमरावती

गुणवत्ता

गुणवत्ता हि कच्चा माल अर्ध तयार किंवा तयार वस्तुमध्ये असलेली काही निर्धारित किंवा इच्छित वैशिष्ट्ये आहेत. हि एक सापेक्ष संज्ञा आहे आणि सामान्यतः उत्पादनाच्या अंतीम वापराच्या संदर्भात वापरली जाते. उदा. फिटनेस, प्राधान्याची पदवी, उत्कृष्टतेची पदवी, ग्राहकाला दिलेल्या आश्वासनाची पूर्तता, डिझाईनची गुणवत्ता इत्यादी. प्रत्येक मॅन्युफॅक्चरींग ऑर्गनाईझेशनमध्ये निर्माता किंवा ग्राहकाने नेहमी काही मानक तपशील सेट केले आहेत आणि तयार झालेले उत्पादन स्थापित वैशिष्ट्यांची पूर्तता करणे महत्त्वाचे आहे.

चांगल्या गुणवत्तेची वस्तु वैशिष्ट्यांची जुळणारी. गुणवत्तेची वैशिष्ट्ये दोन मूल्य श्रेणीत विभागली जाऊ शकतात. ती म्हणजे परिणामवाचक आणि गुणात्मक.

परिणामवाचक वैशिष्ट्ये अशी आहे जिथे थेट परिणामवाचक मापन शक्य आहे. जसे की वजन, उंची, व्यास इ. हि वैशिष्ट्ये काही विशिष्ट उपकरणाद्वारे मोजली जाऊ शकतात. गुणात्मक वैशिष्ट्याचा बाबतीत थेट परिणामवाचक उत्पादक आणि ग्राहक हे व्यवसायिक क्रियाकलापाचे दोन मुख्य घटक आहेत. उत्पादक त्याच्या उत्पादनाचे उत्पादन आणि विपणनासाठी जबाबदार आहे. त्याचा मुळ उद्देश ग्राहकाकडून कमीत-कमी जोरिवमसह चांगल्या दर्जाचे उत्पादन अत्यंत किफायतशिर

पद्धतीने तयार करणे हा आहे. विशिष्टतेपेक्षा श्रेष्ठ किंवा निकृष्ट दर्जाची उत्पादने निर्मात्याला मान्य नाहीत. कारण अधिक चांगल्या उत्पादनासाठी अधिक खर्च करावा लागेल आणि निकृष्ट ग्राहकांना ते मान्य होणार नाही. या दोन्ही स्थितित निर्मात्याने नुकसान होईल. त्याचप्रमाणे ग्राहकाला नेहमी हे कळते की त्याला इच्छित वैशिष्ट्याचा माल मिळत आहे. तेव्हा तो आत्मविश्वासाने उत्पादन खरेदी करतो आणि उत्पादनाची बाजारपेठ विस्तृत होते. परंतु प्रत्येक उत्पादन प्रक्रिया हि पुनरावृत्ती होणारी प्रक्रिया असते. जी नियंत्रित आणि अनियंत्रित अशा दोन्ही घटकांवर अवलंबून असते. यामुळे उत्पादनाच्या गुणवत्तेत काही विचलन होणे साहजिकच आहे. म्हणजेच उत्पादनाच्या गुणवत्तेतील तफावत प्रत्येक उत्पादन प्रक्रियेत अंतर्भूत असते. उत्पादनाच्या गुणवत्तेतील हे विचलन आंतरिक आहे.

बऱ्याच वेळेस एक गट या प्रक्रियेत कोणते दोष येऊ शकतील आणि त्यावर काय उपाय योजना करता येतील. याचा अभ्यास आधीच करतो त्यामुळे बऱ्याच गोष्टी आधिच निर्दशनाला येतात आणि त्यावर उपाय योजना सुद्धा करता येतात.

वस्तु बनवताना चांगली बनते आहे ना? त्यामध्ये काही फरक तर नाही ना? या साठी संख्याशास्त्रिय नियमांची प्रक्रिया नियतीत करण्यासाठी उपयोग केला जातो.

मालाची गुणवत्ता माल बनवतानाच त्यात आली पाहिजे. माल बनवून झाल्यानंतर तो तपासून त्यात गुणवत्ता घालता येत नाही.

मालाच्या गुणवत्तेसाठी खालील घटक महत्त्वाचे आहे.

- १) ग्राहकाला काय पाहिजे ते समजणे.
- २) माल प्रमाणित प्रक्रीयेतच तयार करणे.
- ३) माल बनत असतानाच तो बरोबर असल्याची खात्री करणे.
- ४) वस्तुमध्ये कमीत कमी फरक असणे त्यासाठी संख्याशास्त्रीय नियमांची प्रक्रीया नियंत्रित करण्यासाठी उपयोग करणे.

उद्योगाची स्पर्धात्मक एकूण गुणवत्ता व्यवस्थापन दृष्टीकोन स्वीकारण्यावर अवलंबून असते. व्यवसाय टिकाऊ असणे आवश्यक आहे आणि केवळ उत्पादित वस्तु आणि सेवाची मागणीच नाही तर बदलत्या गरजा आणि ग्राहकाच्या अपेक्षांचे पालन करणे देखील आवश्यक आहे.

सिक्स सिग्मा कार्यपद्धती.

सिक्स सिग्मा हि एक अशी विलक्षण कार्यपद्धती आहे कि जिच्या वापराने ग्राहकाच्या गरजांची कंपनीला उत्तम जाणिव होते. माहिती आणि सत्य परिस्थितीचे संख्याशास्त्रीय शिस्तबद्ध पृथःकरण विश्लेषण करता येते. उत्पादन आणि अशा प्रक्रीयामध्ये बदल करता येतात आणि अशा या प्रणालीच्या वापरामुळे कंपनी आपले उत्पादन निर्दोषत्वाच्या जास्तीत जास्त जवळ होऊ शकतात. गुणवत्तेपासून झालेली फरक मोजण्यासाठी सिग्मा हे परिणाम माप म्हणून वापरले जाते.

उत्पादन प्रमाण

हि एक प्रयोगशाळा सेवा. परिक्षा उत्पादन प्रणाली किंवा कर्मचारी क्रियाकलाप आहे. जी स्वतंत्र संस्था विशिष्ट नामक किंवा तांत्रिक नियमांचे पालन करते की नाही हे निर्धारित आहे.

अनिकेत


प्रगती क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटनस् लि.
अमरावती.

**PROFESSIONAL
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Mobile : 7507045308



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Samata Layout, Yashwant Nagar, N.A. Road,
Opp Nit Swimming Pool, Ambazari,
Nagpur - 440033 Maharashtra**



“क्वालिटी सर्कलमुळेच”

आठवते का तुला पहिली क्वालिटीची मिटींग,
किती कठीण होती क्वालिटीच्या नियमांची सेटींग।
नियमांच पालन करुन शोधावं समस्यांच कारण
नियमांची पायरी चढून बांधावं विजयाचं तोरण ।
विचार मंथन, कॉजेस डेव्हलपमेंट फोर
डब्ल्यू वन एच, सोडवायचे
कधी घरचे कधी बाहेरचे पेच।
आठवड्यातला एक दिवस करा विचारांचे मंथन,
कसा आनंदात जायचा विचारांनी हरक्षण।
छोटे-छोटे डेव्हलपमेंट वाटे रूपा लावला शोध,
क्वालिटी सर्कल न दिला जगण्याचा बोधा।
क्वालिटी सर्कलच आहे पहिलं महासत्तेचं द्वार,
क्वालिटी सर्कलमुळेच होतील आमचे सत्कार।

वासुदेव देशमुख
एकता, रेमण्ड छिन्दवाडा

“गाडगे सर म्हणताच”

आता फक्त आठवणी अन् डोळ्यामध्ये पाणी,
तुम्हामुळे झालो सर आम्ही विचारांचे धनी
संकटावर मात करण्या तुम्हीच तर शिकविलं,
मोठ मोठ्या समस्यांना तुम्ही क्षणात सोडविलं ।
नागपूर चाप्टर वाटे सर तुमच्यामुळे कुंभमेळा
तुमच्यामुळेच लागला होता आम्हा क्वालिटीचा लळा
सारं काही ठेऊनिया सर तुम्ही गेलेत दूर,
शोधू कुठे सांगा आता क्वालिटी चॅप्टर मध्ये सर।
विचारांचं धन दिलं दिलं जगण्याचं बळ,
करू कुठे शांत सांगा माझ्या मनाची तळमळ ।
गाडगे सर म्हणताच वाटे आधाराचा स्तंभ
वय झालं तरी होता तुम्हा विचारांचा कुंभ ॥

राजकुमार मुदाफले
एकता क्वालिटी सर्कल
रेमण्ड छिन्दवाडा

प्रगति का पथ

गुणवत्ता चक्र प्रगति का पथ है।
वर्तमान के लिये सुंदर कदम है।
आफिस में काम करो या घर में।
गुणवत्ता चक्र से सरलता मिले काम में ॥
क्वालिटी सर्कल सबसे पहले एक बनाओं।
समुहिकता से समस्या का हल अपनाओं ॥
गुणवत्ता चक्र है विकास का मंत्र ।
आने वाली चुनौतियों से करो संघर्ष ॥
एक दुसरे के विचारों को दे सम्मान ।
गुणवत्ता चक्र से उद्योग एवं देश की शान ॥

समीर शुक्ला

परस्व क्वालिटी सर्कल,
मॉयल लिमिटेड, तिरोडा.

प्रगति पथ जटिल है

प्रगति पथ जटिल है, वक्त भी कठिन है ये!
पग पग पर है चुनौतियाँ, प्रतिस्पर्धा का युग है ये!!
स्पर्धात्मक कीमते भी, निगलने को तैयार खड़ी!
अल्प-माँग का दानव भी, हुंकार रहा ललकार रहा !!
लागत और गुणवत्ता के बीच, युद्ध है छिड़ा हुआ !
इस युग में बाजार ही, रणक्षेत्र है बना हुआ !!
सर्वोत्तम गुणवत्ता का अस्त्र, जीत हमें दिलाएगा !
अच्छा सुन्दर टिकाऊ उत्पाद, ही ग्राहक के मन भाएगा !!
लागत में लायेगे कमी, क्वालिटी सर्कल अपनायेंगे!
उच्च तकनीकी का साथ, आगे हमें बढ़ायेंगे!!
जो रोक सके तो रोक कर, अब हमें कोई दिखवाए !
निकल पडे है हम सभी क्वालिटी सर्कल को अपनाए !!
चुनौतियों का पारकर एक नया मुकाम पायेंगे !
अशोक लेलैंड को विश्वमें नई पहचान दिलाएंगे !!

आपकी जीत ! हमारी जीत !!

मुकेश सिंह

सिन्कोनाईडर क्वालिटी सर्कल,
अशोक लेलैंड लि.

“क्वालिटी सर्कल”

(अभंग)

क्वालिटी सर्कल प्रगतीचा मंत्र
छोटे छोटे तंत्र । वापरून !
क्वालिटी सर्कल विकासाचा ध्यास
महागुरु खास । नेतृत्वाचा !
क्वालिटी सर्कल मांडले धोरण
सुखाचे तोरण । बांधावया !
क्वालिटी सर्कल गरज काळाची
बचत वेळेची । करावया !
क्वालिटी सर्कल वेगळा प्रयोग
नाही योगायोग । घडवित !
क्वालिटी सर्कल शोधते कारण
विचार मंथन । करूनिया !

गणेश भाकरे

एकता क्वालिटी सर्कल
रेमण्ड छिन्दवाडा

क्वालिटी हमारा मान है

क्वालिटी हमारा मान है सम्मान है
इसी से हमारे प्रोडक्ट का नाम है ।
एक रिश्ता जिसपर अभिमान है।
इस पर टिका हमारा मुकाम है।
इसके बिना सभी काम बेकाम है ॥
इससे बनती हमारी एक पहचान है
उत्पाद की गुणवत्ता इसका
दूसरा पर्यायवाची नाम है।
येन होतो, लग जाता
प्रोडक्ट में विराम है।
का सही दाम है ।
प्रोडक्टविटी की आधारशिला,
तुझे मेरा सलाम है ॥
क्वालिटी हो जिनके अंदर,
जानता उसको हर इंसान है ।
पीएम, क्रिकेटर, मोबाइल लेलो,
नहीं इनमे कोई अंजान है ।
तु ही आत्म गौरव हमारा,
तु ही आत्म सम्मान है ॥
“तुझको हमारा प्रणाम है”
“तुझको हमारा प्रणाम है”

आदित्य प्रशांत नागवेकर

सिंगल व्हाईस क्वालिटी सर्कल,
जेएसडब्ल्यू एनर्जी लिमिटेड, रत्नागिरी

गुणवत्ता की राह पर

आओ दोस्त हम सब मिलकर,
सामूहिक विकास का खेल खेलेंगे ।
अपनाके गुणवत्ता समूह का साथ,
विकास पथ पर चलेंगे ॥
कही गडढें होंगे मैदान में,
कही कांटे होंगे राह पर ।
विचार मंथन का साथ लेके,
मात कर देंगे समस्या की आह पर ॥
विकास में कौनसी है बाधा,
कौन समस्या कर रहीं है परेशान ।
लेकर 4W&1H का साथ हम सब
यह कठिनाई कर देंगे आसान ॥
लेलो हाथ में Q.C. TOOL, हथियार,
माईल स्टोन चार्ट की ढाल ।
समस्या को तो भागना पड़ेगा,
नहीं तो कर देंगे बेहाल ॥
जुगाड़ नीति नहीं चलती अब,
स्थायी समाधान अपनाएं ।
डेमिंग सायकल शुरू करके,
समस्या को हमेशा के लिए दफनाएं ॥
नाम ना जाने कोई हमारा,
हमें गुणवत्ता से पहचानेंगे ।
विश्व पटल पर सब लोग
हमारी संस्थान को भी जानेंगे ॥

मनोज उमाले

अविष्ण क्वालिटी सर्कल
मॉईल लि.

Slogan

गुणवत्ता दल की शक्ति, जिसके पास,
जीवन के हर क्षेत्र में, करे विकास ।
अपनी समस्या सबका समाधान,
क्वालिटी सर्किल में है यह प्रावधान ।
जिसने जाना क्वालिटी सर्किल का मोल,
जीवन बना उसका ही अनमोल ।
उत्पादन, उत्पादकता में गुणवत्ता के रंग,
सारा देश चला क्यू.सी. के संग ।

शुभम् राऊत - परख क्वालिटी सर्कल, मॉयल लिमिटेड तिरोडी खान

जीवन के हर क्षेत्र में समय रह गया है अल्प,
गुणवत्ता अपनाकर समस्या को
दूर करने का करें संकल्प ॥
अपनी समस्या सबका समाधान,
क्वालिटी सर्किल में है यह प्रावधान ।
जिसने जाना क्वालिटी सर्किल का मोल,
जीवन बना उसका ही अनमोल ।
घर में, समाज में, उद्योग में,
देश में गुणवत्ता हर जगह काम आती है,
क्यू.सी. के संग साथ चलने से समस्या
निराकरण में सहजता आती है।

समीर शुक्ला - परख क्वालिटी सर्कल, मॉयल लिमिटेड तिरोडी खान

- ★ उत्कृष्टता ही आमच्या गुणवत्तेची गुरुकिल्ली आहे.
- ★ यशस्वी होण्यासाठी, गुणवत्ता खुप महत्त्वाची आहे.
- ★ गुणवत्ता ही एक कृती नाही, ती एक सवय आहे

शुभम् बोधते, सक्षम क्वालिटी सर्कल. रेमण्ड लक्झरी कॉटन, लि. अमरावती

धरा एकात्मिक गुणवत्तेची कास,
पुरी करा जागतिक नेतृत्वाची आस!
Developing Social attitude is a
keyword to global leadership!

Narendra Gokhale, Prakashjyot QC, Rashtriya Chemicals Ltd, Thal

हम सब देशवासी मिलकर आगे आये,
घर, समाज चहूं ओर क्यू. सी. अपनाये ॥

क्वालिटी सर्किल में है, गुणवत्ता की भरमार,
इसको अपनाकर देखों, कभी न होगी हार ।
कभी न होगी हार, नित्य आगे बढ़ते जाओगे,
पीछे मुड़कर देखने का कभी समय न पाओगे ॥

घर उद्योग या हो दफ्तर,
क्वालिटी सर्किल से सुधरे स्तर ॥

गुणवत्ता चक्र एवं सतत् नव प्रयास,
देता समृद्धि और सफलता विकास ॥

संजीव पंडा - परख क्वालिटी सर्कल, मॉयल लिमिटेड, तिरोडी खान

इन्द्रधनुष मे है रंग अनेक
क्वालिटी सर्किल में है गुण अनेक

वैभव निमके, सक्षम क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटन लि. अमरावती

शंका सारी मिट गयी, दुर हुआ अभिमान,
क्वालिटी सर्कल मे मिला, इतना उत्तम ज्ञान ॥

गोपाल हागे, सक्षम क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटन, लि. अमरावती

क्वालिटी सर्किल से उद्योग जगत में
नयी क्रांति आयी है ।
समस्याओं का समाधान हुआ
विकास मे गति आयी है ॥

खरूप खोंडकर, सक्षम क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटन, लि. अमरावती

चमक रहा विश्व मे, इस देश का सितारा
काम किया जिसने लेकर, क्यू. सी. का सहारा.

शुभम् खेडकर, सक्षम क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटन, लि. अमरावती

जो होता है गुणवत्ता मे श्रेष्ठ
वही होता है सर्वश्रेष्ठ.

अंकुश काकड, सक्षम क्वालिटी सर्कल, रेमण्ड लक्झरी कॉटन, लि. अमरावती

“Quality with Integrity is ‘Propensity’
towards Global Sustainability”

“Integration with Quality is an ‘Essence’
to mark Global Leadership Excellence”

Manish Dighe, LQC-STALLION, RCF Limited

Self Development through Self-reliance
is a key to global leadership!

Yashwant Shewale, Prakashjyot QC, Rashtriya Chemicals Ltd, Thal

RCOEM

Shri Ramdeobaba College of
Engineering and Management, Nagpur



Quality Circle Forum of India

RCOEM - QCFI CENTRE OF HUMAN EXCELLENCE (CoHE)

Shri Ramdeobaba College of Engineering & Management (RCOEM) and Quality Circle Forum of India (QCFI)-Nagpur Chapter have established RCOEM-QCFI Centre of Human Excellence.

Centre of Human Excellence envisages being a place that will focus on Academic & Behavioral Excellence of all stakeholders. Centre will act as a world-class centre that intends to undertake activities that will improve the performance of student, faculty & Industry personnel. The Centre aims at providing government organizations and industries with state-of-the-art facilities for facilitating research, training, and development of human resources.

Centre for Human Excellence aims to help organizations attain a higher level of innovation and productivity. The Centre focuses on small, medium, and large organizations situated in rural and urban areas. The specialized areas such as Finance and Accounting, Human Resources Marketing, Operations, Decision Sciences, Business Environment, Business Sustainability, Agribusiness Management, Communication, Information Technology and Systems, Strategic Management, and Legal Management will contribute in imparting useful management

skills to the participants.

RCOEM-QCFI Centre of Human Excellence is interested to partner with Agencies for the following activities

1. Management Development Programs for Leadership Development
2. Technical Training Programs for Productivity Improvement
3. Continuing Education Program for improving Qualification & Exposure
4. Industry based Projects for improving health of Organisations
5. Promote and carry out academic / commercial research in various areas of Human excellence with a focus on innovation and productivity enhancement
6. Provide expertise and advisory services to Governmental and Non-governmental organizations.
7. Develop partnerships and engagements with organizations from various sectors for knowledge sharing.
8. Provide a platform for collaboration to allied industries

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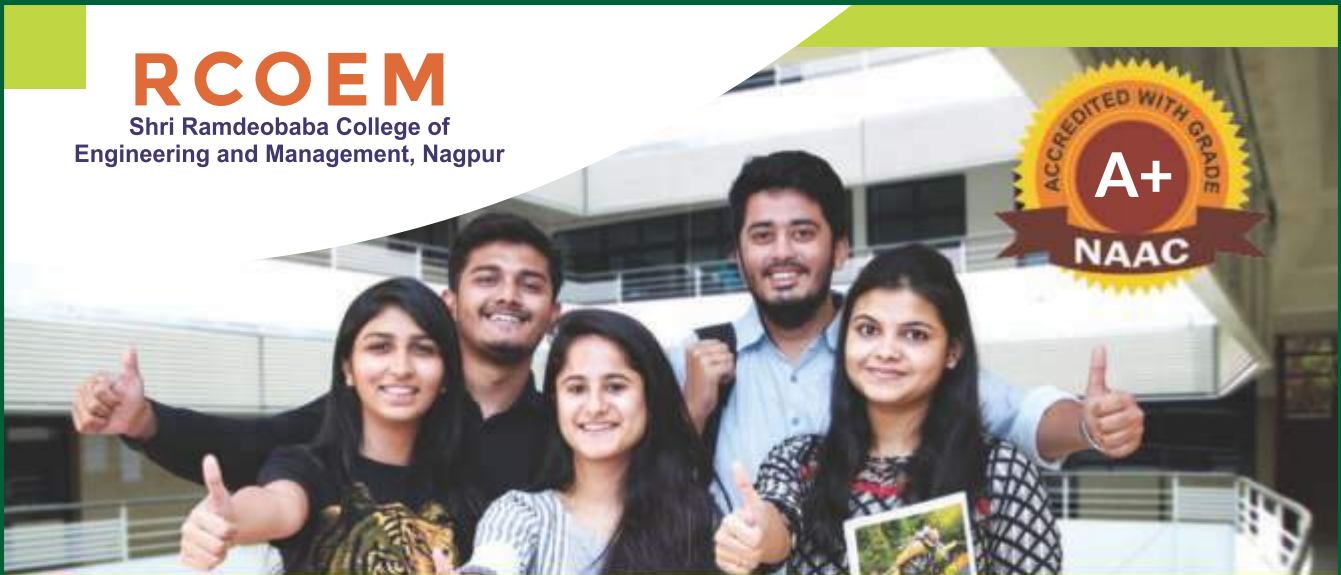


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RCOEM

Shri Ramdeobaba College of
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COMPETITION
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OUTLOOK

MAJOR CONSULTANCY PROJECTS UNDERTAKEN BY FACULTY:

- ◆ Technical Enhancement of the Moodle-LMS Software
- ◆ Setting up the Mechatronics Laboratory
- ◆ Separation of Essential Oil and Methanol from its Mixture.
- ◆ Online Job Portal Web Application through MS Asp.Net.
- ◆ Induction Motor Testing
- ◆ Geotechnical Investigation
- ◆ Assessment of Structural Stability
- ◆ Productivity Study
- ◆ Design & Development of Packaging Machine
- ◆ Preparation of Detailed Project Report for various Government organisation
- ◆ Manpower Study
- ◆ Employee Satisfaction Survey
- ◆ Design of LED Display Driver
- ◆ Soil investigation
- ◆ Compressive Strength of Concrete
- ◆ Training Need Analysis for Employee

MAJOR TRAINING PROGRAMS UNDERTAKEN BY FACULTY:

- ◆ Cyber Security
- ◆ Data Analysis and Presentation
- ◆ Data Visualization & Presentation Skills
- ◆ IT Security & Cyber Laws
- ◆ Six Sigma
- ◆ Solid Modelling, 3-D Printing, IOT, Creativity & Design Thinking
- ◆ Microsoft Azure Architect AZ-305
- ◆ Data Analytics with Knime & Tableau
- ◆ Digital Marketing
- ◆ Project Management
- ◆ MOST Training Program
- ◆ Behaviour Change
- ◆ Effective Leadership & Group Dynamics
- ◆ Communication Skills
- ◆ Basic & Advance Excel
- ◆ Etiquettes & Mannerism

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