



CHAPTER LEVEL CONVENTION AND COMPETITION ON QUALITY CONCEPTS

30th
CCQC 2019

Sankalp

Volume 2 issue 3

SOUVENIR

**Theme: "Quality Concept For
Cultural Breakthrough"**

SUNDAY, 20TH OCT. 2019

www.qcfinagpur.in



Department of Management Technology
Shri Ramdeobaba College of
Engineering and Management
www.rk nec.edu



QUALITY CIRCLE FORUM OF INDIA Nagpur Chapter

Professional membership scheme

Dear Quality Aspirants,
Warm Greetings!! QCFI Nagpur Chapter invites
quality aspirants to join QCFI.

For membership related queries, you may
contact to **Mr. Vivek A Shrouty Secretary,**
QCFI Nagpur Chapter, Nagpur

Mob.: 7507045308

Email: gcfi.nagpur@gmail.com

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Cover Page and Souvenir

Designed by



Mr. Mayur Chapate
Head IT Cell, QCFI - Nagpur Chapter

30th
CCQC 2019
Sankalp
Volume 2 issue 3



EDITOR'S DESK



VIVEK SHROUTY
Secretary
QCFI –Nagpur Chapter

Dear Participants,
My warmest greetings to the delegates of CCQC 2019.

It gives me immense pleasure to publish this issue of SANKALP an e- Newsletter of QCFI Nagpur chapter in the form of SOUVENIER on occasion of CCQC – 2019.

I am thankful to all who associated with the CCQC-2019 for their excellent involvement to make CCQC-2019 a grand success.

I take this opportunity to appreciate and acknowledge the contribution made by the authors for their article which will add value and learning to the readers.

This souvenir contents the article, poems, and cartoons on the quality concepts. Also success story of Quality Circle in the organization help to learn the lesson to improve and excel. I am thankful to Mr. Mayor Chapate for designing this colourful Souvenir-SANKALP with his artistic view with full dedication.

Last but not least, QCFI, Nagpur Chapter is grateful to the sponsors and advertisers for their support to bring out this colourful Souvenir-SANKALP.

Best Wishes
VIVEK SHROUTY
Secretary

CHAIRMAN'S MESSAGE



AK Jain

**Chairman – QCFI- Nagpur Chapter
Director – QCFI Board**

My warmest greetings to the delegates of CCQC-2019.

It is a great pleasure and honour for me to invite and welcome all of you in Orange City, Nagpur, a fastest emerging Smart City, for participating in 30th Chapter Convention of Quality Concepts, CCQC-2019 which is going to be held at Shri Ramdeobaba College of Engineering and Management on 20th October 2019.

For this CCQC-2019 theme is "Quality Concepts for Cultural Breakthrough". And this will be true, when you all learn the new things at this CCQC-2019, same will be implemented for improvement at your organizations.

I am thankful to the management of Shri Ramdeobaba College of Engineering and Management for providing the excellent venue for this convention and their active participation to make this event a grand success.

I would like to thank and appreciate Governing Council members, Nagpur Chapter for efforts and time spared to execute this CCQC-2019.

My special recognition and thanks to Dr.Rajiv B. Khaire of Shri Ramdeobaba College of Engineering and Management for their advice and guidance. I extend my best wishes to participant for their success.

Warm Regards

AK Jain

Chairman – QCFI- Nagpur Chapter

Director – QCFI Board

VICE CHAIRMAN'S MESSAGE



Ashok S Gadge
Vice Chairman,
QCFI, Nagpur Chapter, Nagpur

It is my pleasure to welcome all my participants of CCQC-2019, my honourable G C members and our respected Guests.

I am confident with your lively participation, that, this CCQC-2019 will be a benchmark in learning the exploration of Quality concepts. The convention day is flooded with various competitions such as essay writing, slogans, posters, best speaker, models, page setting, Knowledge test etc. to enlighten each other.

I strongly believe to the demand of the world of competition for new developments. I thereby assessed the forthcoming march of Indian Industries towards "MAKE IN INDIA" based on application of Quality concepts through the flow of QCFI, i.e. "Innovation is the way of survival". In an attempt of realisation of involvement of all Quality Followers with exposure to each other's novel Introduction, QCFI Nagpur has found out a way. We have arranged a Quality Concept Propagation Award Competition among all associated Organisation. Here all organisations will submit and open out their efforts and success stories.

They will be suitably awarded within 30 criteria. Everybody will be closer to others innovative approaches and trace their pathway.

My sincere thanks to Shri Vivek A. Shrouy , Secretary QCFI, Nagpur for his untiring contribution in releasing this Souvenir, "SANKALP" , a vision for us.

My Best Wishes

Ashok S Gadge

Vice Chairman, QCFI, Nagpur Chapter, Nagpur

VICE CHAIRMAN'S MESSAGE



Manohar P Hedaoo

**Vice Chairman
QCFI, Nagpur Chapter, Nagpur**

Dear GC Members,

I express my sincere thanks to all the member organization to increase their participation with Quality Circle Forum of India.

The basic idea behind QC Circle activities to contribute and make it worthwhile to live and build a happy bright workshop. Display human capabilities fully and eventually draw infinite possibilities. I hope that the Indian people will promote QC Circle activities according to the above General Principles and I wish you success in developing Indian industry through QC circle activities.

QC Circle activities were begun in 1962. Now, the activities have been promoted among 43 countries in the world and have gained a solid result. I am sure that QC circle activities, whose basic idea is to respect humanity. And the activities are helpful to improve Quality and productivity and more over to build a happy bright workshop.

The Quality Circle Fundamentals are as follows:

The QC Circle is a small group to perform voluntarily Quality Control activities within the same workshop. This small group carries on continuously as a part of Company-wide Quality Control activities for self-development and mutual development and utilizing quality control techniques with all the members participating.

Therefore in reference with quality, I would like to mention the quote from renowned authorities as

"Quality in a service or products is not what you put in to it. It is what the client or Customer gets out of it."

— Peter Drucker

Thanks and Regards

Manohar P Hedaoo

Vice Chairman, QCFI, Nagpur Chapter, Nagpur

GOVERNOR'S MESSAGE

Banwarilal Purohit



सत्यमेव जयते
GOVERNOR
TAMIL NADU

RAJ BHAVAN,
Chennai-600 022.



MESSAGE

It is a matter of great pleasure that Department of Management Technology of Shri Ramdeobaba College of Engineering and Management (RCOEM) is hosting CCQC-2019: Chapter Convention on Quality Concepts with theme "Quality Concept for Cultural Breakthrough" on 20th October 2019.

The Convention is organised by QCFI-Nagpur Chapter that is involved to improve not only the Quality of product & services; but also quality of employees as human being. I find the theme very relevant in the backdrop of ever changing business scenario. The Convention will have presentations and discussions on Quality Circle, Kaizen, 5S, 6 Sigma, Poka Yoke, and TPM. The themes identified are apt and relevant in the current challenges faced by the industry. I am sure that CCQC-2019 will bring out the best practices of quality by professionals of different industries from across India.

The invited experts would help delegates to understand the importance of quality concept that will raise the competence of individual employee. I am confident that deliberation during Convention will go a long way to help the industry and society.

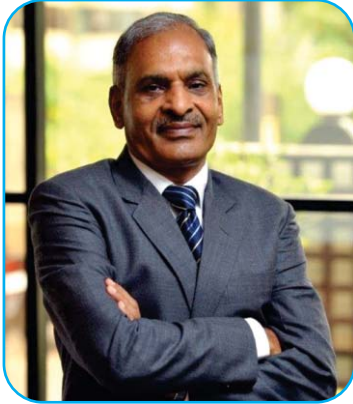
On this remarkable occasion, I welcome all dignitaries, invited guests, delegates from industry and participants for the Convention.

My best wishes to all of you for sharing and spreading Quality Concepts.

(BANWARILAL PUROHIT)

Chennai,
18th September, 2019

Message by Chairman: Solar Industries India Ltd.



Shri Satyanarayan N Nuwal
Chairman,
Solar Group

It gives me immense pleasure to know that the Quality Circle Forum of India; Nagpur chapter shall be organising their annual convention on 20th Oct 2019.

QCFI has been doing a yeoman service in the field of business, engineering and manufacturing by providing constant education to all the stake holders on the concepts of Quality. QCFI has endeavoured to inculcate the quality culture by going beyond the traditional concept of quality which calls for adherence to the product specifications alone. An organisation striving to become a global leader must go beyond the conventional concepts to adopt modern concepts such as Quality Circles, TPM, 5-S, Six Sigma, Poka Yoka, Kaizen etc. to provide Customer's Delight.

QCFI has been successful in creating an echo system by bringing various organisations on a common platform to create awareness on modern Quality concepts, for sharing of experiences, sharing of best practices, in creating a sense of competition and by encouraging all the stake holders to excel in their respective fields.

I would like to thank QCFI for providing training to our organisation on modern Quality concepts which will help us in realising our vision to emerge as a global leader in industrial & military explosives with focus on Quality, Safety & Reliability. We sincerely believe that with focus on Quality, Safety and Reliability automatically fall in line. Safety & Reliability are the two most important attributes, especially for an explosive factory to emerge as a global leader.

I convey my best wishes to the QCFI Board and particularly QCFI Nagpur Chapter that their annual convention at Nagpur may be a grand success. I am sure this convention will help the industry in sharing their best practices and in sharing knowledge on the complete gamut of Quality Management Systems.

I wish the program a great success.

PRINCIPAL'S MESSAGE



Dr. Rajesh S. Pande
Principal-RCOEM

My Greetings to all Participants and Delegates of CCQC-2019. It gives me immense pleasure to be associated in 30th Chapter Convention on Quality Concepts. On behalf of QCFI Nagpur Chapter and as a Host Institution, I extend warm welcome to all the Participants and Delegates.

The theme of Chapter Convention "Quality Concept for Cultural Breakthrough" is relevant in today's changing Technological and Social scenario. The deliberations and discussion during the Chapter Convention will help everyone to improve Professional and Personal Life.

I have been associated with QCFI, Nagpur chapter and it is my observation that the Chapter is working hard in Manufacturing and Service Industries. The focus of QCFI Nagpur Chapter in its endeavour, is to improve not only the Quality of product and services; but also quality of employees as human being.

We at Shri Ramdeobaba College of Engineering and Management, Nagpur; take pride in delivering the Quality education with focus on Research, Consultancy and Training which makes our Faculty and Students distinct from others.

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

Best Wishes.

Dr. Rajesh S. Pande
Principal, RCOEM

Governing Council Members

Quality Circle Forum of India, Nagpur Chapter



Mr. Anil Kumar Jain
Executive Director,
Solar Industries limited, Nagpur
Chairman-QCFI Nagpur Chapter, Director-QCFI Board



Mr. Ashok S Gadge
HR Consultant, Nagpur
Vice Chairman



Mr. Manohar Hedao
Ex. CGM, MSEB
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Mr. Mayur Chapate
Head IT Cell



Mr. Vijay Gandhewar
GC Member



Mr. Shibu Thomas
GC Member



Mr. Amol Joshi
GC Member



Mr. A.D. Mahakulkar
GC Member



Dr. Dilip V Gupta
GC Member



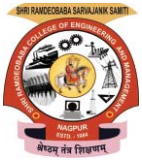
Mr. G Murli
GC Member



Mr. Ashutosh Tripathi
GC Member



Mr. AK Chaturvedi
GC Member



Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur



About RCOEM

Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur was established in 1984 by Shri Ramdeobaba Sarvajanic Samiti (SRSS), a charitable trust which has been involved in community service for over four decades. Founder Chairman of RCOEM Shri Banwarilal Purohit, Hon'ble Governor of Tamilnadu, is guiding force behind college success. An ISO 9001:2008 certified Autonomous College that is permanently Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University & has been awarded "A" Grade by NAAC. The college is considered as one of the best institutions in the country and offers 9 Under Graduate & 7 Post Graduate Programmes in Engineering and other Post Graduate Programmes viz. MBA, MBA (Integrated) and MCA.

Latest Rankings:

- ◆ National Institutional Ranking Framework (NIRF), MHRD - Government of India, ranked 112 in 2019.
- ◆ RCOEM has got INDIA TODAY RANKING of 23 in All India Private Engineering Colleges Category.
- ◆ RCOEM ranked '27th' among all Private Engineering Colleges of India as per Outlook survey 2019.
- ◆ RCOEM ranked '53rd' among all Engineering Colleges of India as per Outlook survey 2019.

RCOEM is known for excellent and well qualified faculty. College boasts of 134 faculty members who hold doctorate that is Ph.D degree in their respective subjects. Many faculty members have brought laurels to the institute by way of awards, honours and prizes at National and International level. Students are groomed under the expert guidance of the faculty members in academic and co-curricular areas. Guided by experienced and qualified faculty members the College has been providing training and consultancies to various corporate in India. Faculty member have undertaken Consultancy Projects to the tune of 2.3 Crore in the last 3 years. RCOEM has received grants of more than 2 Crore from various Government agencies such as Department of Science & Technology (DST), Department of Information Technology (DIT), AICTE etc. for conducting research activities.

The college has been selected as the top institution in Maharashtra by Rajiv Gandhi Science and Technology Commission for the implementation of scheme of Technology Information, Forecasting, and Assessment Council (TIFAC), by RGSTC, Govt. of Maharashtra and MSME Internship scheme consistently for last 3 years. To give momentum to innovation, entrepreneurship and incubation support related activities, the College has incorporated dynamic RCOEM TBI Foundation, a Section 8 Company. It provides all the necessary support including funding.

With globalization and increasing need for international exposure to academia, RCOEM has forged ties with various universities of USA, UK, France, Germany and Australia. The primary aim of these collaborations is to foster advancement in teaching, research and academic collaboration and to create avenues for enhancing student and faculty experience, enhanced employability with development of curriculum, practical approach, soft skill development and creativity.

The college has strong ties with its Alumni. The Alumni Association is giving scholarship to bright students in addition to Tuition fee Waiver scheme of Institute. Association also donates technical education aid that helps deserving students.

The college is moving towards a unique milestone in its journey to be Self-Financed University under the able leadership of Dr. Rajesh Pande, Principal – RCOEM.

We warmly welcome the delegates of CCQC-2019.

SUCCESS STORY



NASHIK PLANT

Definition

Sparsh Circle is a title used by CEAT for Quality Circle.

CEAT applies Sparsh tag for all QBM activities carried out in all plants. In "SPARSH", S stands for Sustainable, P for Productive, A for accurate, R for reliable, S for safe and H for healing.

SPARSH CIRCLE is a small group of 5 to 6 employees working in the same work area or doing similar type of work that voluntarily meet regularly every week at decided day and time for half or an hour to identify, analyse and resolve work related (Quality, Cost, Delivery, Safety, MURI, Productivity, 5S, Morale, Environment) any problems.

Concept

Every person, no matter where in the organization, desires to do quality work.

- ◆ He/ she would like to be respected, encouraged, recognized & would like to contribute to the growth, welfare of his family, society & organization.
- ◆ It recognizes that the workman on the job has the most knowledge on that particular job.
- ◆ Team work can be more effective and can contribute more than individual effort.

Objective

The objective for our organization was to ensure that each member initially practices the learning of Sparsh Circle at home with family members then in society through which he gains confidence, happiness and satisfaction of doing some satisfactory/creative accomplishment, past that he can utilize the same learning at his work place.

Apart from our above basic objective some other are mentioned below:-

- ◆ Self & mutual development.
- ◆ Change in attitude.
- ◆ To enrich quality in life of employees.
- ◆ To tap the hidden potential of the employees.
- ◆ Improvement in communication.
- ◆ Improve participation.
- ◆ Group working.
- ◆ Problem solving at grass root level.
- ◆ Job satisfaction.

Structure

The initial team has one leader selected by the members during training itself. The team is been supported, guided by a guide nominated by the department head. The manager of that department is the facilitator, who looks after the functioning of the team and its progress. The head of department (HOD) ensures smooth running of teams and helps if team faces any difficulty. Coordinator organizes trainings and monitors every activity of team and publishes all reports related to Sparsh Circle. They organize reviews of Sparsh Circle progress with plant leadership management team. Organize internal Plant competition, reward & recognition of teams. Help teams to participate in external competition. The structure is visible in fig 1.



fig 1.

CEAT's aim to approach for Sparsh Circle

High % of People Involvement in improvement activities was a desideratum of CEAT Nashik: Initially till FY15 the People Involvement KPI was measured through people's involvement in Kaizen, CLIT & QIP activities.

In FY16 the criteria of measurement was amended and considering CLIT in people involvement measuring was stopped. This resulted in sink of our FY15 people involvement score from 70.8 % to 15.1%.

Referring the Sparsh House fig2, it is seen that the foundation/base for all Sparsh activities is employee involvement & development and hence in FY16 ambitious target of 75% was determined for people involvement.

It was decided to measure the score considering the people involvement percentage in improvement activities such as Sparsh Circle, Kaizen & QIP.

This activity was also essential for building/strengthening trust among workman and management.



fig2

Sparsh Circle LOGO

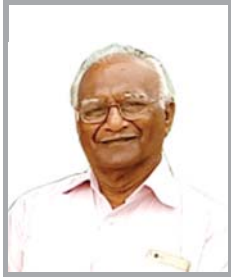
People (employees) chain/circle resembling a team, surrounding/protecting CEAT as an organization, fig 3.



fig 3.

Fy16: Management decided to launch Sparsh Circle activity from May 2015. Activity plan (fig4) was drafted and a suitable trainer was explored as per our requirement.

CEAT		CEAT Limited Nasik												
Project Theme :		Activity schedule - F-16												
To Enhance People Involvement Through QC Circle activities		Responsibility	Sparsh Circle in Nasik Plant										Members	
		Managing Point / Check point	QC Projects Completed by Circles										From	To
		Division	Department										From	To
		Resp	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Introduction Training to Officers	SR / HRS												
2	QC Team formation (First Batch)	HRS												
3	Training to QC leaders and Members	Co/Prod (SR)												
4	Facilitator Training	AP/HRS												
5	QC Manual Preparation	AP												
6	Sparsh Circle launch	Co/Prod (SR)												
7	QC Standards (Manual, SOP, WI, Forms) release to plant	SR/Co/Prod												
8	Projects Initiation	HRS												
9	Projects Review	HRS												
10	Projects Evaluation	AP/HRS												
11	Project Presentation to Plant level	HRS												
12	Internal QC Competition (Sparsh Sparsh)	Co/Prod (SR)												
13	Preparation for External Convention	Co/Prod (SR)												
14	Participation in External Convention	HRS												
15	Recognition to Winners	SR												



Mr. Ashok S Gadge
 HR Consultant, Nagpur,
 Vice Chairman, QCFI Nagpur Chapter

Mr. Ashok Gadge a renowned chairperson from QCFI Nagpur chapter, a person loaded with rich experience in Quality Circle field was approached for training our CEAT employees.

As per the activity chart, training for plant leadership management team, facilitator and guides was scheduled

Training:

Training calendar for workman was drafted. A Batch of 10 teams, each team consisting of 5 to 6 members were formed in every department and were imparted training as per the schedule fixed. We had 7 days training scheduled for every batch. The nominated Guide from staff/management was imparted training along with team members. The concept of 7 days training was established keeping in mind the need of trust building, past history of Nashik plant and mindset/attitude of workers of plant having average age of 43 and generally above 20 plus years of experience. The 6 days training is spread in 3 different phase. In 1st phase, 2days training, in 2nd phase, 2 days training & in 3rd phase, 2days training was scheduled.



Training in Progress

In 1st phase training, the present market scenario, organizations need of an hour, survival of fittest is elaborated. Importance of Sparsh Circle in personal family life & society is explained with lot of examples and homework. The existence of Quality Circle in ancient India, presently in India and abroad countries success stories is shared and why those organization/country opted for Quality Circle is shared. So a structured approach to amend the attitude, approach of workmen to get involved in such activities is done.

In 2nd phase the actual detailed working is taught along with many personal & work place related examples. 12 steps problem solving methodology is taught in detail. A matrix of tools versus steps is taught as seen in fig 5

		MATRIX OF PROBLEM SOLVING STEPS Versus TOOLS (MODIFIED)													
		समस्या के समाधान की क्षमता, जब जफ़्त हो तब उपयुक्त तकनीकों के उपयोग पर शिज़र करता है													
		Tools & Techniques Used by Sparsh Circle Team													
Normal 7 steps of problem solving	No.	Suggested 12 steps for problem solving	समस्या के हल के लिए 12 स्टेप पर सुझाव	Data Collection	Stratification	Pareto Analysis	Cause & Effect Diagram	Scatter Diagram	Histogram	Graphs & Control Chart	Flow Diagram	PDCA	Brainstorming	Priority/ Rate	5W/ 5M/ 5M Chart
Reason for improvement	1	Identification of work related problem	कार्य की जगह के समस्याओं की पहचान												
	2	Selection of problem	समस्या का चयन												
Current situation	3	Define the problem	समस्या की परिभाषा												
	4	Analyze the problem	समस्या का विश्लेषण												
Analysis	5	Identification of causes	समस्या के कारणों की पहचान												
	6	Finding out the root causes	समस्या के मूल कारणों को ढूँढना												
Action	7	Data Analysis	डेटा का विश्लेषण												
	8	Developing solution	समस्या का समाधान												
Check	9	Forecasting problem of recurrence	पुनरावृत्ति समस्याओं के प्रतिष्ठा को पहचानना												
	10	Regular implementation & check performance	नियमित कार्यान्वयन और प्रदर्शन की जांच												
Standardization	11	Regular implementation	नियमित कार्यान्वयन												
Conclusion	12	Follow-up/ review	अनुसरण करें/अभिलेख												

fig 5

In 3rd phase the 12 steps methodology is briefed and actual problem solving is practiced. By the end of 3rd phase it is seen that participants are fully motivated and the Sparsh Circle methodology is grasped by them thoroughly

Shop floor Meetings:

Every team has to declare during 3rd phase training the name of team, nominate the leader of team & particular day of department meeting. On this fixed day and decided time the meetings of team members take place. Guide of the team guides the team to carry out meeting and in problem solving steps if required.



Department meeting

Review Mechanism

The role of Guide, facilitator is well defined during training. QBM members play role of coordinator who keep daily track of department meetings. The track of daily meeting is published daily through various media (created whatsapp app group). Weekly/monthly meeting compliance is published through mail and facilitator/Head of Department are asked to intervene in case of low meeting compliance. Initially we have kept target of 80%, minimum requirement of meeting compliance. The review of project progress is done and regular review of facilitator/HOD with plant leadership management teams is scheduled. Every month, facilitator reports card of each team is submitted by each facilitators.

Presentation in front Top Management:

The teams whose projects get completed get an opportunity to present their projects in front Plant Head every week & month. Many teams get opportunity to present in front Senior VP/ED/MD. The team members are then felicitated by the managers with HERO/SUPER HERO badges/CEAT Key chains



Internal Sparsh Circle competition

Sharing of details is done with plant management team for getting approval, after approval an activity plan is prepared and accordingly within our plant a competition is organized between teams who have completed their projects. In FY17 at the end of the financial year we organized the 1st competition. We celebrated the event with title "Sparsh Circle Premier League 1". Total 57 teams participated out of 72 teams.

Competition took place in a span of 5 to 6 days having gap in between ,every day 10 to 12 teams presented their project and were been felicitated with GOLD/SILVER & BRONZE trophies and a certificate to every team member. One internal and one external Judge were invited from different plants and organization to assess the team's project presentation. Assessment is also done as per guidelines of QCFI.

In FY18 we organized Sparsh Circle premier league 2.Total 100 teams participated out of 102 teams. A well in advance promotion campaign is organized before the competition to build the enthusiasm among teams and rest of employees.Banners of competition details are displayed all over plant for awareness among all employees. Dates of competition are published well in advance.



Event promotion trolley and banners of awareness displayed in plant

Dates are shared with managers to arrange the availability of teams on those particular competition days. Judges are informed in advance. All trophies and every team member's certificates are being prepared.Promotion trolley & Posters.

Every teams slot is fixed and as per that the teams are available and teams share their project in front the judges. All other teams are available and they observe the team's project. At the end of competition day, awards to winning teams are distributed together by Plant leadership management teams & Union committee members. Many members share their positive view with respect to this initiative and benefits they and their family have gained. Many share slogans, poems on Sparsh Circle activity. All teams are awarded with trophies and members with certificate of participation.

As the competition gets over the winning teams photos are displayed all over plant.



Presentation in competition, Award ceremony & winning teams Photos displayed in plant.



Mining ■
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*India's Largest manufacturer of
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Supreme[®]
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Solarcast-P
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Solar Cord
 Detonating Cord



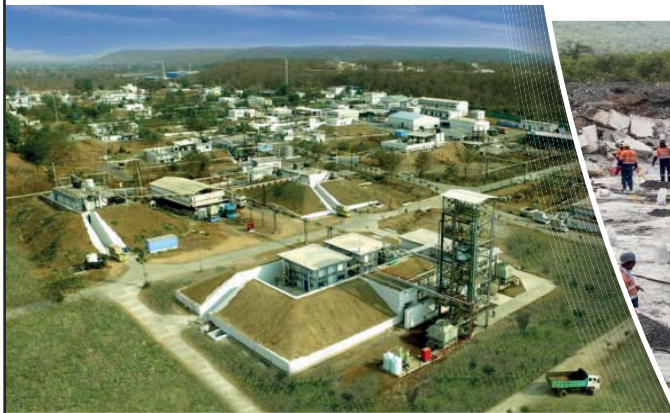
Microdet-1
 Programmable Electronic Detonator



- Superpower 90**
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Safety • Quality • Reliability
- SolarPrime**
Safety • Quality • Reliability
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- Solar Coal 1**
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- Solar Coal 3**
Safety • Quality • Reliability
- Solar Coal 5**
Safety • Quality • Reliability

Packaged

Accessories



Bulk

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Economic Explosives Limited

Solar House, 14, Kachimet, Amravati Road, Nagpur-23, INDIA
 ☎ +91 712-6634555/57 ☎ +91 712-2500200-201
 ✉ solar@solargroup.com 🌐 www.solargroup.com

Safety • Quality • Reliability

30th
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 Volume 2 issue 3

EMPOWER COMMUNITIES WITH SUSTAINABLE LIVELIHOODS

At JSW Foundation, we are committed to empower citizens with better health, education, skill enhancement, and employment opportunities. Our initiatives are aimed at encouraging sustainable development in the areas of agriculture, environment, conservation of heritage sites and art, and promotion of sports.



OUR CONTRIBUTIONS IN NAGPUR DISTRICT:

- 37 defunct Bore Wells rejuvenated
- 60 TCM water conserved to bring 102 hectares of land under irrigation
- 18 model Anganwadi
- 59 students were given Udaan scholarship

External Sparsh Circle competition

CEAT Nashik has always encouraged their Sparsh Circle teams to participate in various external competition events such as CCQC & NCQC. Following table fig 6 shows the participation details. The received awards are displayed in plant and these teams are then felicitated in front of all employees in the plant.

YEAR	EVENT	PLACE	TEAMS NUMBER	AWARD
FY16	CCQC	Nagpur	2	2 Gold
FY17	CCQC	Nagpur/Mumbai	9	6 Gold, 2 Silver & 1 Bronze
	NCQC	Raipur	3	3 Gold
FY18	CCQC	Nagpur / Mumbai	9	8 Gold & 1 Silver
	NCQC	Mysore	3	3 Gold
FY19	CCQC	Mumbai/Nagpur	10	6 Gold & 4 Silver
	NCQC	Gwalior	3	1 Gold, 1 Silver, 1 Bronze



Felicitation of winning teams in Plant

Teams demonstration during various plant visitors' visit/ Audits

A great positive difference is visible now versus past years as Sparsh Circle team's involvement in demonstrating their project work in front Top Management shop floor visits and various audits.



VIP Visitors shop floor Visit



5S Auditor shop floor Visit



ED Sir shop floor Visit



MD Sir shop floor Visit

Improvement in various Plant key performance indicators

The cumulative focused approach by CEAT Nashik team resulted in formation of 107 teams in a span of less than 3 year time, involving 520 workmen which is 37.6 % of total employees. Every team is active and have submitted 398 projects from FY16 to FY18. The target of 2 projects/team/year is achieved from last 2 years. The same achievement is seen in graphical form below.

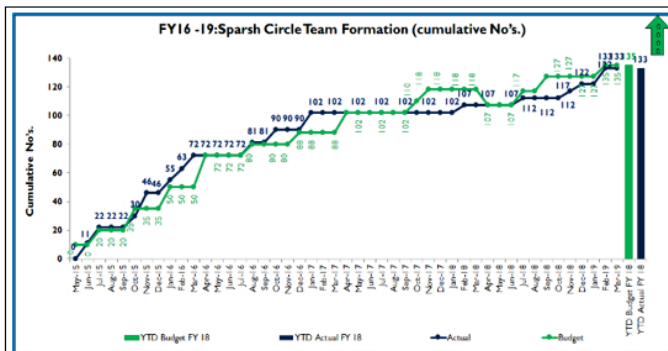


Fig 7

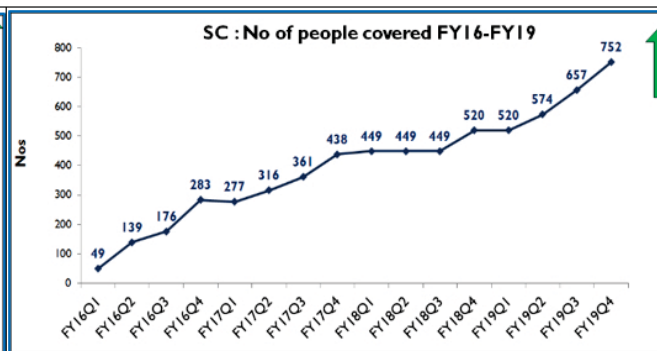


Fig 8

Fig 7: From FY16 to FY19, 133 Teams got formed, trained & rolled out in shop floor

Fig 8: Total 752 workmen are involved in Sparsh Circle activity out of 1337, 56.4 % of total employee's involvement.

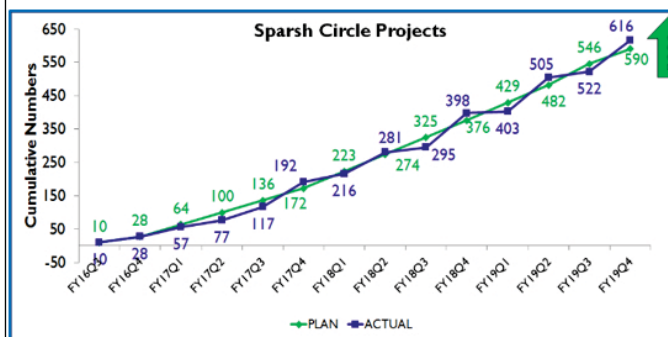


Fig 9

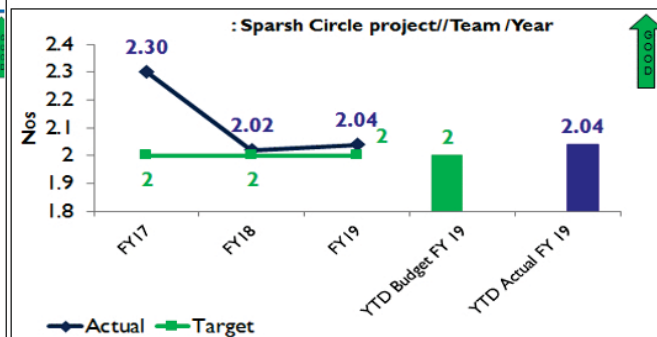


Fig 10

Fig 9: Cumulative 616 projects completed from FY16 to FY19

Fig 10: 2 projects/team/year, target has been achieved from FY17, FY18 & FY19

All above activities resulted in priceless benefits for our organization as

- ◆ The other employees of plant other than Sparsh Circle members also got motivated and morally boosted and started involving in improvement activities such as kaizen.
- ◆ Our people involvement in executing Kaizen enhanced, seen in fig 11.
- ◆ Our Plant 5S score improved exceptionally well, fig 12.
- ◆ % People Involvement in improvement activities drastically improved by 86.5% , Ref fig 13.

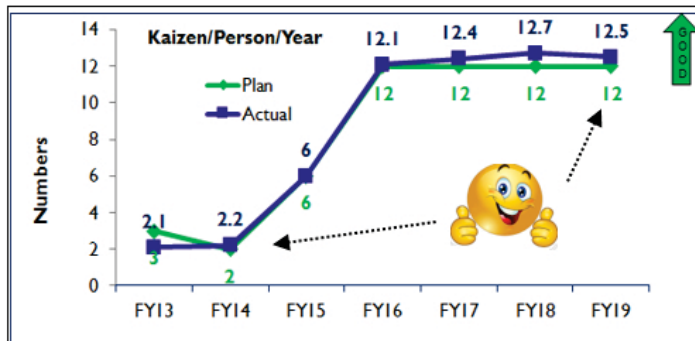


Fig 11

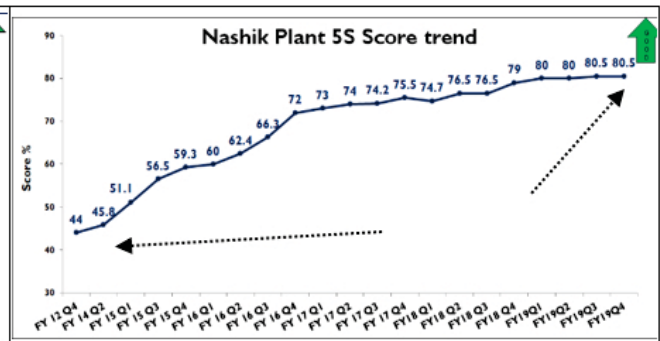


Fig 12

Fig 11: Kaizen /person/year improved 53% since FY15

Fig 12: Plant 5S Score improved 45 % since FY15

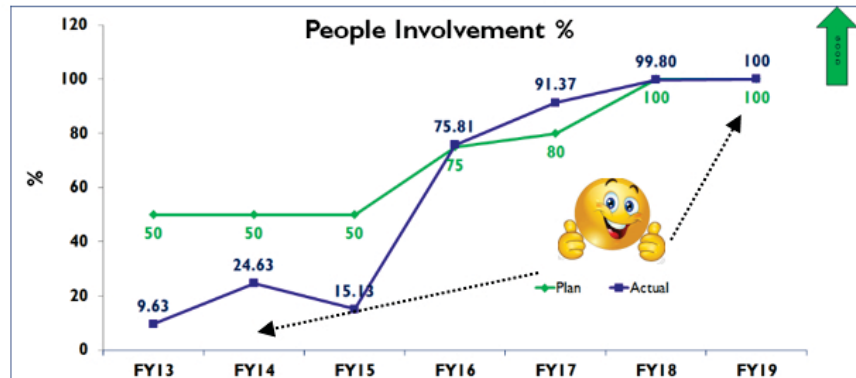


Fig 13

Fig 13: People involvement % improved to 100, 86.5 % improvement since FY15.

Intangible benefits for our employees were observed as

- ◆ CEAT received prestigious DEMING award.
- ◆ Our employee's got motivational boost & morale level improved.
- ◆ Good change in attitude was experienced.
- ◆ Our workmen eagerly participated to show case their improvement work in front all delegates visiting our premise.
- ◆ Workmen shared their personal self development examples which they experienced with their family, with us in various forums.
- ◆ Some of the workmen started writing poems/slogans on Sparsh Circle activities running in plant and shared during Sparsh Circle Competition.

For CEAT Nashik plant, SPARSH CIRCLE is one of the Key process for transformation from 'One-upmanship' culture & disengagement to Trust Base work environment and positive engagement in improvement initiatives.

Way forward:

CEAT Nashik has focused aim to involve 100 % of employees in Sparsh Circle activity by year 2021

Felicitation of Hon. Shri. Jayant Bobde Sir, Chief Engineer CSTPS, Chnadrapur.



Hon. Chief Engineer Shri. Jayant Bobde Sir had retired from MAHAGENCO (CSTPS Chandrapur) on May 2019.

On behalf of QCFI Nagpur Chapter Shri. Dr. Anil M Kathoye & Shri. Surendra Nishanrao felicitate him for his outstanding contribution & unflinching support extended towards upbringing & nurturing the Quality Circle movement at CSTPS.

*Thank
you*





Manohar P Hedao

Vice Chairman
QCFI, Nagpur Chapter, Nagpur

ENERGY CONSERVATION WITH QUALITY CONTROL

1. Introduction:

The Indian Power Sector has witnessed significant changes and development in the past decades. In spite of massive addition in generation capacity, the power sector is still unable to bring the gap between the demand and supply. The cost of setting of additional generation capacity to meet the increasing energy demands is very high and also adds to the degradation of the environment. Hence the list cost option available to bring the gap between demand and supply is by adopting energy conservation measures and optimally utilizing the existing generation capacity. Presently peak shortages are about 10.6 % and energy shortage of about 8.5%. The overall electricity saving potential in different sectors is about 15%. The initiative has taken by the Govt. of India & State Govt. for energy conservation. It will help global warming climate, change and energy security of the country

2.What is Energy Conservation?

Energy conservation is the effort made to reduce the consumption of energy by using less of an energy services. This can be achieved either by using more efficiently (using less energy for constant service) or by reducing the amount of service used (for example, by driving less).

What is Need of Energy Conservation?

Energy conservation plays a very important role because utilization of non-renewable resources also impacts our environment. Especially usage of fossil fuels supplies to air and water pollution such as carbon dioxide is produced when oil, coal and gas combust in power stations, heating systems and engines of car.

3.What are The Types of Energy Conservation?

Solar Energy

Wind Energy

Geothermal Energy

Hydrogen Energy

Tidal Energy

Wave Energy

Hydroelectric Energy

Biomass Energy

4. How we can conserve Energy?

Adjust your day to day behaviours

Replace your light bulbs

Use smart power strips

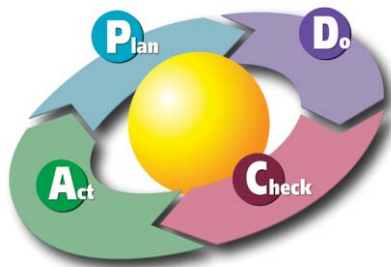
Install a programmable or smart thermostat

Purchase energy efficient appliances

Reduce your water heating expenses

5. Effect of Energy Conservation in Maharashtra

Around 3000 government buildings in Maharashtra will become green with a proposal to retrofit lighting and cooling applications with energy efficient ones. An agreement to this effect was signed between Efficiency Services Ltd (EESL) and the state government which would be implemented under a joint venture by the Union Ministry of Power. EESL would install around 26,500 energy efficient air-conditioners, 1.1 million LED lights and 250,000 ceiling fans resulting in about 120 million units saving or around 48 % reduction from base line consumption.



हिंदी कविता



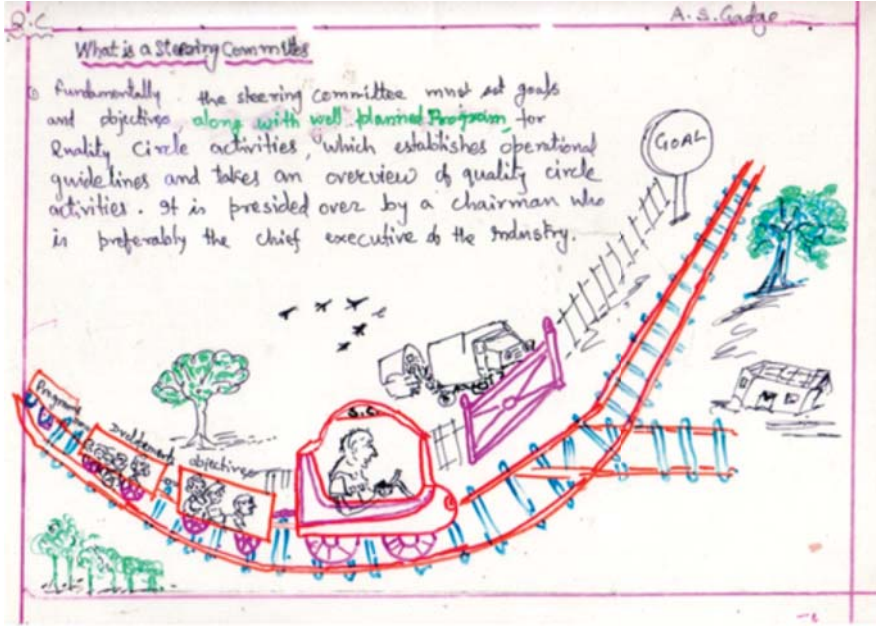
Aniket Elkunchwar
Sr. Manager, Operations dept
VIPL, Reliance power, Butibori

गुणवत्ता

उची गुणवत्ता का ध्यास है हमे।
उचा लक्ष पाना है हमे।
बेहतर से बेहतर होना है हमे।
सबसे अच्छा कार्य करना है हमे।
सोच को थोड़ा बदलना है हमे।
अछी आदतो को अपनाना है हमे।
गुणवत्ता कोई मुकाम नही।
निरन्तर प्रयासोका सफर है यही।

Learning through Cartoons

What Is Steering Committes?



Slogen

असेल गुणवत्तेची हमी प्रत्येका मनी, तर संपन्नता नांदेल आपल्या दारी.

Atul Deo

JSW Coated Products Limited,
Kalmeshwar, Nagpur

If you are in competition, Keep **QUALITY** in your Mission.

Abhay V. Girhare

JSW Coated Products Limited,
Kalmeshwar, Nagpur



Mayur Chapate

Sr. Manager, Reliance Power , Butibori
GC Member ,QCFI, Nagpur Chapter, Nagpur

The New Way of Thinking - BEST OUT OF WASTE

"Creativity, as has been said, consists largely of rearranging what we know in order to find out what we do not know. Hence, to think creatively, we must be able to look afresh at what we normally take for granted." – **George Kneller.**

BEST OUT OF WASTE is one such craft which follows this environmental friendly principle and at the same time creates useful and creative objects out of waste products. Making the best out of waste has been a part of human life since the early ages. It was the human creative mind that gave birth to this extraordinary idea of using unwanted material in a useful way. Be it the used plastic can, used water bottle, dumped tyres etc; each and every thing can have reuse value in this world – either as a useful raw material or as a decorative item for your house or office.

The values like preservation, recycling, conservation, reduce, reuse etc are imbibed on the young heart and minds by demonstrating this noble act of caring our environment. It helps the people to develop their fine motor skills while using different kinds of material and also encourages them to use waste material for making decorative and useable items in their work area. It's a time where company has a scrapyard for scrap material ,it was amazing to see how scraps could be transformed into such useful and beautiful articles.

This habit of getting the best out of waste should be instilled in kids from an early age, not only to teach them about recycling but also to encourage their creativity.

Why Create Craft from Waste?

In today's world recycling has a very important place. There are a lot of things around that are labelled as dump. But the irony is that most of the dump collected is useful for others if recycled. In 5S terminology, we called it as SEIRI Museum where we keep items that are not needed by someone but can be used by others as per their need.



Hence utilizing the best from unwanted things has become a generic necessity of every human's life. These craft from waste activities can be incorporated into your kid's childhood to make for a greener future.

Art and Craft Ideas from Waste Material

Starting with recycled craft ideas is the best way to introduce how to make the best out of unwanted stuff. There are numerous activities which you can do using waste materials and other craft materials like coloured papers, scissors and sticking glue. The BEST OUT OF WASTE art and craft ideas from waste materials include fun, educational activities as well as the chance to make your own homemade gifts. These crafts activities can also be repeated and shared amongst friends.



Importance of Teaching Craft from Waste at Young Age

As children grow up, they have a wide variety of technology to play around with like laptops, games consoles, tablets and mobile phones, meaning sometimes they can miss out on the importance of spending time creating their own crafts.

Therefore, it becomes highly important to incorporate arts & crafts into their life at very young age. This way it will be easier for children to maintain their interest in making crafts for years to come and help save the environment at the same time by encouraging them to create art from waste materials.

QCCF is thus encouraging the people to develop the 5S methodology at their workplace where they spend majority of the working time, probably more than what they spend at home. They realize instant benefit in the activity. The attitudinal change helps at home too which becomes the way of life. Thus by adapting 5S with Best out of waste, we can spread the message all around in neighborhood, club, society, community.





Role of Quality concepts in the success of “Make in India”

“Your pride for your country should not come after your country becomes great; your country becomes great because of your pride in it.”— Idowu Koyenikan.

Surajkumar Senapati

(Sr. Manager), Vidarbha Industries
Power Limited (Reliance Power Limited)
QCFI Life member 049914 118619, Nagpur Chapter

“Make in India” has been the buzz word in the business world since the time this scheme was announced by the Government of India, with an aim to facilitate job creation, foster innovation, enhance skill development and protect intellectual property. It aims to propel the Micro, Small and Medium scale Enterprises (SMEs) in becoming one of the significant contributors to the GDP of India and also aid in large scale employment opportunities for the enthusiastic youth of the country. China developed itself into a manufacturing hub for the world in the last 40 years solely by investing heavily in the manufacturing sector as well as basic industrial skills in its workers. In order to replicate such success, India has to create an environment which attracts investments from leading firms globally, and expose our talent pool to the latest technology, expertise and best practices followed by them. This would serve as a two pronged solution for our GDP growth as well as the rising unemployment issue.

But the above idea seems to be easier said than done as it would not be easy to replicate China's success to the same level in the present global economic scenario. China's manufacturing sector produced quality products at low costs which none of the competitors could match. This played a vital role in its rise in the global economy as a heavyweight and all top brands of the world queued up to setup their production units in China to make their products more competitive in the global markets.

Use of Quality concepts as a magic wand

India has never been known as an export hub for its products as they could never withstand the competition from the global brands just because of their inferiority in terms of quality. Implementation of quality concepts like Total Quality Management (TQM), 5S, Kaizen, Lean Six Sigma etc. would not only improve the output quality, but also improve the productivity of the system as a whole. The major impacts of defective products is that rework has to be done, material is wasted in this process, but more importantly – the energy, time and labor consumed for the whole rework process adds to the cost of production and consequently has an adverse impact on the environment as well.

This is also one of the reasons why Indian products lag behind in cost competitiveness and thus lose ground to foreign brands in the domestic as well as the global markets. Quality is not only restricted to the Top Management or any specific department in any organization, it requires the contribution of one and all. Quality and Cost consciousness has to be imbibed into the day-to-day work culture itself to such an extent that preparation of all the Standards Operation Procedures of an organization, are done through brainstorming among employees and workmen of all levels. This will ensure that each and every task is performed with the help of optimum resources and in the least possible time. On account of these measures, the productivity will improve, cost of production will decrease and its subsequent environmental impact will reduce. In this scenario, the organizations would now focus more on removing bottlenecks through feasible modifications in the existing system for promoting high quality and low cost production.

Roadmap for the success of “Make in India”

'Zero defect, Zero effect' - a key phrase which has been associated with the “Make in India” campaign, focuses on making a product with zero defects at the same time having negligible adverse impact on the environment. The present focus is to promote sustainable development in the country by implementing high quality manufacturing standards at the same time, minimizing the corresponding environmental and ecological impact. The Indian manufacturing industry now has to strive for continual improvement in order to make an impact in the global markets and increase its market share in exports for ensuring its own sustainability as well as embracing the vision of shaping India into a global manufacturing hub for the world, which is already set on a path to become a reality.

“Excellence is the unlimited ability to improve the quality of what you have to offer” -Rick Pitino



SUCCESS STORY- SOLAR INDUSTRIES



SOLAR Industries bagged par excellence award at 5S National Conclave held at Surat. They propagated 5S at village level homes.





GUNWATTA MANDAL - The Learning Points in enhancing one's capabilities in student age.

Ashok S Gadge

Following are the learning points which focus on enhancing one's capabilities to excel.

1. Need of awareness of "acceleration to the personality construction" (of students).
2. Assessment test for the individual learner to know "in which of the seven learning modes/categories, he dwells" while earning the knowledge.
3. How to assess and enhance the dwelling time of student's (with the subjects)
4. How to enhance the dwelling time during study.
5. Lagging in memorization capacity within numerical memory.
6. How to develop memory in the text subject.
7. Dememorisation of unwanted things from the memory stock to develop positive memory.
8. How to achieve fast reading capacity / technique to minimum 600 words per minute.
9. To be able to achieve the skill of reading at speed of 1200 to 1800 words per minute.
10. To attain the speed of absorption of sense of the text at this higher speed.
11. How to skim / take out the brief from the text at the speed above 1200 words per minute (Skimming Process)
12. How to develop scanning capabilities of the text for the hidden meanings, predictions, and the objective of the writer, at higher speed and stabilize.
13. How to capture and retain the verbal memory during the lectures and speeches?
14. To evaluate the source of audio reception and reproduction.
15. To evaluate the source of audio reception and reproduction.
16. To expedite the brain cell activation (Numerically and through text material)
17. To relax against the "catastrophic event stress."
18. Attempt concentration through Instant Relaxation Technique (IRT).
19. How to get read of study monotony through DRT.
20. To reach mental relaxation and total body rest through Yoga- Nidra.
21. Presentation technique and submission stress at eleventh hours.
22. Study the interview technique.
23. Development of reproduction through Group Dynamics.
24. How to prepare for Exam/ What is meant by study?
25. Teacher's /Parent's positive approach to create favourable atmosphere for the mission of the younger's.
26. To study, develop and utilize optimum personality attributes.
27. To set aside the likely personality traits / challenges on the way of development.
28. Time management of the academic session from whole to part.
29. To maintain motivation to build a successful career.
30. To arrive at the appropriate goal and objects, in relevance to prospective.



Mahendra Pratap Singh

Dy. General Manager
QCFI Life member 049914120024 , Nagpur Chapter
Vidharbha Industries Power Limited (Reliance Power),Butibori

5S PHILOSOPHY – A QUALITY IMPROVEMENT TOOLS FOR SUSTAINABLE PERFORMANCE

Abstract

In Indian economy small-scale and cottage industries occupy an important place, because of their employment potential and their contribution to total industrial output and exports. Now-a -days this sector faces challenges to retain its prosperous position due to uprising of new competitors both in the national and international market. So, continuous improvement is required to overcome these challenges. Hence, a concept like 5S is gaining popularity these days. Quality control techniques aim towards the high quality, low cost, and shortening the production flow by eliminating waste.

Keywords

5s, seiri, seiton, seiso, seiketsu, shitsuke, lean manufacturing

Introduction

This paper is based on the implementation of 5S to enhance the productivity and quality of industry products. The 5S philosophy is a way of thinking, focusing on organizing work place in order to simplify the work environment and strives to reduce wastes while improving quality and safety. 5S is acronym made of five Japanese words: Seiri (sort), Seiton (set in order), Seiso (shine), Seiketsu (standardize) and Shitsuke (sustain) transliterated and translated into other languages among which English. In essence, these five terms represent the five steps toward operational and process excellence. 5S provides the foundation on which other lean methods, such as TPM, just-in-time production, and six sigma can be introduced.

Literature Review

5S system is a good starting point for all improvement efforts aiming to drive out waste from the manufacturing process and ultimately improving a company's bottom line production by improving products and services and lowering costs. Many manufacturing facilities ranging from SMEs to large scale industries have opted to follow the path towards a "5S" work-place organizational and housekeeping methodology as part of Continuous Improvement in order to achieve higher levels of quality through minimization of waste.

5S led to Process development by cost reduction, Shortening of time required for searching necessary things, The number of customers has been increased after maintaining a clean and neat layout, Travel time of materials is reduced which led to reduction of work hazards, Improvement of the internal communication processes. Establish the relationship among 5S, overall equipment effectiveness and manufacturing productivity. Three hypotheses regarding the relations among 5S, overall equipment effectiveness and manufacturing productivity had been specified and conceptual framework has been proposed for future work.

Methodology

The name 5S refers to a set of five terms borrowed from Japanese, all beginning with the letter 'S' when translated. The equivalent terms in English also begin with an 'S'. In essence, these five terms represent the five steps toward operational and process excellence.



Fig.2 5S Methodology

1. Sort

Sort, the first S, focuses on eliminating unnecessary items from the workplace that are not needed for current production operations. An effective visual method to identify these unneeded items is called "red tagging", which involves evaluating the necessity of each item in work area. Separate required tools, materials, and instructions from those that are not needed. Remove everything that is not necessary from work area.

So by using sort we can remove unwanted materials from work area. Hence there will less chances of material damage

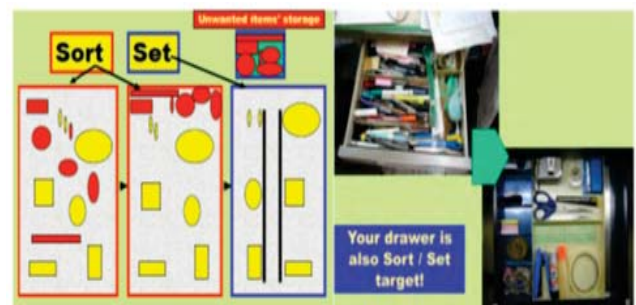


Fig.3 Sort and Set in order

2. Set in Order

Set in Order focuses on creating efficient and effective storage methods to arrange items so that they are easy to use and to label them so that they are easy to find and put away. Set in Order can only be implemented once the 1S, sort, has cleared the work area of unneeded items. Sort and organize all tools, equipment, files, data, material, and resources for quick, east location and use. Label all storage locations, tools and equipment. So by using Set in Order we can reduce hunting time for tools and equipment, files, data and material.



Fig.4 Sort and Set in order

3. Shine

Once the problem that has been clogging the work areas is eliminated and remaining items are organized, the next step is to thoroughly clean the work area. Daily follow-up cleaning is necessary to sustain this improvement. Working in clean environment enables workers to notice malfunctions in equipment such as leaks, vibrations, breakages, and misalignments. Set new standards for cleanliness.

Clean and remove all trash, grease and dirt. Everything must be clean, tidy, and neatly put in its appropriate place. Cleanliness provides safe workplace and makes potential problems noticeable e.g. equipments leaks, loose parts, missing guards, loose paper work or materials.



Fig.5 Shine

4. Standardize

Once the first three 5S's have been implemented, the next S is to standardize the best practices in the work area. Standardize the method to maintain the first three 5S's, creates a consistent approach with which task and procedures are done. Some of the tools used in standardizing the 5S procedures are: job cycle charts, visual cues (e.g. signs, display scoreboards), scheduling of "five-minute" 5S periods, and checklist.



Fig.6 Standardize

The second part is prevention-preventing accumulation of unneeded items, preventing procedures from breaking down, and preventing equipment and materials from getting dirty.

5. Sustain

Sustain, making habit of properly maintaining correct procedures is often the most difficult S to implement and achieve. Changing entrenched behaviors can be difficult and the tendency is often to return to the status quo and the comfort zone of the “old way” of doing things. Make 5S part of your culture, and incorporate it into the corporate philosophy. Build organizational commitment so that 5S becomes one of your organizational values so that everyone develops 5S as habit.



Fig.7 Sustain

Integrate 5S methodology into performance management system. Sustain focuses on defining a new status quo and standard of work place organization. Without sustain the achievement of the other 5S's will not last long.

Conclusion

The 5S method as a tool of Lean Management and Lean Manufacturing allows creating, implementing and maintaining and employee-friendly workplace. Acting appropriately in accordance with the 5S principles facilitates the creation of a well structure system, namely the production company.

The implementation of the entire system is relatively inexpensive, because the costs are very low when compare to the benefits achieve after the successful 5S implementation. The appropriate installation and maintenance of activities for the benefit of the system will make it possible to save space in the production hall, in the warehouse and offices so that the potential of the company surface may be fully used without being expanded. The methods can be improved by introducing target-coloring of toolbox table shadows, brushes, and the other tools require for each employee to always know their location.



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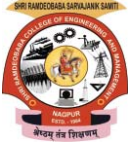
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HOST CHAPTER :
QCFI - VARANASI CHAPTER



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SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT

Established as

RAMDEOBABA UNIVERSITY

Maharashtra Act XIII of 2019, (W.e.f. 13th September 2019)



HIGHLIGHTS

- ◆ RCOEM has got INDIA TODAY Ranking '23' in All India Private Engineering Colleges category
- ◆ RCOEM ranked '27th' among all Private Engineering Colleges of India as per Outlook Survey 2019
- ◆ AND ranked '53rd' among all Engineering Colleges of India as per Outlook Survey 2019.
- ◆ RCOEM has got India Ranking '112' by National Institutional Ranking Framework 201

MAJOR CONSULTANCY PROJECTS UNDERTAKEN

- ◆ Enhancing the sensitivity of Electric Shock Protecting Unit
- ◆ Design & Development of Packaging Machine
- ◆ Design and developing of Aluminum Casting for Rota-Molding
- ◆ Preparation of Detailed Project Report for various Government organizations
- ◆ Manpower Study
- ◆ Employee Satisfaction Survey
- ◆ Design of LED Display Driver
- ◆ Air Craft Maintenance
- ◆ Electrical system design for Township development
- ◆ Testing of PVC Conduit Pipe for electrical and mechanical properties
- ◆ Soil Investigation
- ◆ Compressive Strength of Concrete
- ◆ Training Need Analysis for employee
- ◆ Optimization Audit and Training Needs Identification
- ◆ Primary Geotech Investigation
- ◆ Employee Engagement

MAJOR TRAINING PROGRAMS ORGANISED

- ◆ Project Management
- ◆ Strength of Materials
- ◆ Transportation Engineering
- ◆ Geotechnical Engineering
- ◆ Concrete Technology
- ◆ MOST Training Program
- ◆ Behavior Change
- ◆ Effective Leadership & Group Dynamics
- ◆ Communication Skills
- ◆ Team Building
- ◆ Presentation Skills
- ◆ Computer Literacy Program
- ◆ Basic Excel
- ◆ Advance Excel
- ◆ Etiquettes & Mannerism
- ◆ Mechatronics
- ◆ Industry 4.0