

# QCFI - VADODARA CHAPTER

## 30<sup>th</sup> Annual Convention on Quality Concepts



### THEME

## Quality Concepts for Cultural Breakthrough

# Invite

**For Quality Circles 6<sup>th</sup> September (Friday) &  
Allied Concepts 7<sup>th</sup> September (Saturday)**

Dear Members,

We extend our warm welcome to the 30<sup>th</sup> State Level Annual Convention at Hotel Grand Mercure (Surya Palace), Opp. Parsi Agiyari, Sayajigunj, Vadodara, Gujarat.

It will be our pleasure to honour all of the participants with trophies & certificates for their efforts and offer them gifts to remember the event.

We request you to cascade down this information to the participants that it will be a great learning experience for them.

Do come to share your learning, your knowledge, your quality experiences, your efforts and your gains. Let us add on to each others' success in every sphere of life.

Wishing you the best & looking forward for your confirmation.

**Governing Council Members  
QCFI VADODARA CHAPTER**

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### OUR COMMERCIALS

To participate in the VCCQC-19, each participating team will consist of minimum six members for QC presentation and minimum three members for Allied Concepts (Five-S, Kaizen, Lean Quality Circle, Six Sigma, WCM Circles, TPM Circles). We need the names of the Quality Circle and team members.

QCFI expects nothing less than excellence	One Soft Copy of Presentation may be forwarded to us in qcfcivc2015@gmail.com and/or one CD of the Case Study Presentation to be submitted latest by 20th August, 2019			
Presentation Time	12 Min.			
Question / Answer Time	3 Min.			
Minimum delegates for each presentation	6 for QC and not less than 3 for Allied.			
Fee per Participant/Delegate	Participants	Fee Rs.	GST @18%	Total Amount
	1	3,700.00	666.00	4,366.00
Fee for QC Case Study	6	22,200.00	3996.00	26,196.00
Fee for Allied Concepts case study	3	11,100.00	1998.00	13,098.00
<b>Date</b>	<b>6<sup>th</sup> September 2019 for QC (Friday)</b> <b>7<sup>th</sup> September 2019 for Allied Concepts (Saturday)</b>			
<b>Venue</b>	<b>Hotel Grand Mercure (Surya Palace) Opp. Parsi Agiyari, Sayajigunj, Vadodara, Gujarat.</b>			
<b>Time</b>	<b>7:30 AM to 5:30 PM</b>			

**We Request our Sponsor to be Generous for a Noble Cause.**

### Advertisement for Souvenir - VCCQC - 2019

Location	Type of Printing	Rate
Front Inside Cover	Multi Color	Rs. 40,000/- + GST
Back Inside Cover	Multi Color	Rs. 40,000/- + GST
Back Outside Cover	Multi Color	Rs. 50,000/- + GST
Full Front (Frist/Second) Page	Multi Color	Rs. 40,000/- + GST
Full Rear (Frist/Second) Page	Multi Color	Rs. 40,000/- + GST
Full Page	Multi Color	Rs. 30,000/- + GST
Half Page	Multi Color	Rs. 15,000/- + GST

### SPONSORSHIP

SPONSORSHIP FOR	RATE
Banner at Entrance, Banners at Stage	30,000/-
Entertainment Sponsor	31,000/-



**We request all participating QC's and Allied teams to send the abstract of their presentations for publication in the compendium. (Last Date 20/08/2019)**

**A sample abstract published last year is given below for your ready reference**

Name of The Organisation :

**SAIL BHILAI STEEL PLANT**

Name of The QC/ Allied Team :

**PIKA-TECH**

Name of The Facilitator :

**G PRADEEP KUMAR**

**M.: +91 9407983715**

**Email ID : gpradeepkumar@sail-bhilaisteel.com**

Name of The Leader :

**S.P.SINGH**

**M.: +91 9407986133**

**Email ID : 67spsinghs@gmail.com**

### Team Members

**S.P.SINGH  
F.R.VERMA  
SANTOSH INGALE  
SANDEEP BEDPURIYA  
NITESH KUMAR  
NARENDRA PODWAL**

### Group or Individual Photograph of the team



✓ Tick the Method followed: → 12 steps of Deming Wheel DMAIC  Other

- 1. PROBLEM:-** There was big deposition of material (Grease & Dust particle of Blast Furnace gas) in the spindle head of Blast Furnace gas stop cock and thus obstructing the proper flow of gas into the system. Hence in many heating walls, it became difficult to maintain the temperature even after full opening of gas, and thus the quality of coke got adversely affected.
- 2. SOLUTION EVOLVED:-** The group decided to carry out cleaning of stop cock by carrying out swabbing of the stop cock with a nylon or wire brush of sufficient size.
- 3. PROCESS OF IMPLEMENTATION:-** To enable swabbing of stop cock through the reversing valve, the design of valve was critically studied and the scheme for swabbing was developed. It was obvious that the reversing valve pendulum with arm and top cover had to be taken out for swabbing. To cover the top of reversing valve body, a blank top cover plate with a hole at center for cleaning with the swabbing brush. The profile similar to the top flange with holes for securing was drilled in the 8mm thick cover plate, and a 70 mm diameter hole was drilled in center to insert the swabbing brush. An annular packing for sealing the gap between them was also cut and pasted to the dummy cover plate. Cleaning brush for cleaning of stop cock of dia 150mm was required with sufficient length of rod for handling. Appropriate size of wire brush was procured and 1.2 m MS rod was welded at the end of brush. Free end of rod was bent for handling the brush.
- 4. DIFFICULTIES/RESISTANCE FACED IN THE IMPLEMENTATION PROCESSED:-** Swabbing in blast furnace gas valve has not been attempted anywhere earlier in coke oven batteries. There are various associated dangers while carrying out swabbing-
  - Swabbing is carried out on gas after opening stop cock, so there are chances of gas leakage.
  - Fire or localized explosion may also occur during swabbing due to gas leaking out.
  - In case of hard deposits, the swabbing brush may get stuck up in stop cock while swabbing, making situation worse.
  - The side tunnel area where the reversing valves are located is quite congested and confined.
- 5. EFFECTIVENESS OF IMPLEMENTATION:-** Thus a safe yet innovative approach towards carrying out swabbing of stop cocks of blast furnace gas was successfully developed and resulted into maintaining of proper heating regime.
- 6. TANGIBLE & INTANGIBLE BENEFIT:-** • Improvement in coke quality lowered the coke consumption required in blast furnace for hot metal production. • Manpower saved from frequent regulation for adjustment of gas was utilized for other scheduled jobs. • Improved coke quality due to better gas flow regulation leading to uniform temperature. • Significant lowering in coke breeze generation as screen loss at blast furnace junction house. • Manpower saving from frequent regulation was utilized for other scheduled jobs of battery. • The process of swabbing in a large size blast furnace stop cock valve could be carried out in totally safe work environment created during the actual job. • Uniformity in oven temperature was achieved. • Zeroing of chances of oven stickey due to low temperature. • Improvement in oven wall temperature led to better life of silica refractory brick-work of oven wall. • Uniformity in the gas opening was achieved, which facilitates for maintenance of heating regime. • Enhancement of morale of persons working with safe and effective methodology adopted for the job.

**Financial savings:** Recurring financial savings estimated

1. Cost saving on account of reduction in load of frequent regulation = Rs. 12.64 lacs

2. Saving on account of improvement in blast furnace coke quality (M10 micum index) **Rs 166.8 lacs**

**TOTAL FINANCIAL SAVINGS ESTIMATED = 12.64 + 166.8 = Rs179.44 lacs**





## Programme Schedule on 6<sup>th</sup> & 7<sup>th</sup> September 2019

Sr. No.	Event	Schedule
1	Registration / Breakfast	07:30 Hrs. to 08:30 Hrs.
2	Inaugural Session	08:40 Hrs. to 09:45 Hrs.
3	Presentation by the Teams in Parallel Sessions	10:00 Hrs. to 13:00 Hrs.
4	Lunch (will continue as the presentations go on)	<b>12:30 Hrs. to 14:30 Hrs.</b>
5	Knowledge Test/Quiz in Two Halls	14:30 Hrs. to 15:30 Hrs.
6	Entertainment Programme	15:30 Hrs. to 16:30 Hrs.
7	Valedictory/Prizes/Awards Distribution and Vote of Thanks/National Anthem	16:30 Hrs. to 18:00 Hrs.

**Note:** Special privileges are offered in participation fee to permanent (15 years) Institutional Members: 250/- Discount per participant in CCQC and Rs.500/- in NCQC.

For Online Fund Transfer	
Fee are to be paid by DD/Cheque/Direct Bank Deposit/Transfer payable at Vadodara in favour of "Quality Circle Forum of India-Vadodara Chapter" So as to reach QCFI, Vadodara Office by 20th August 2019	Account Name : Quality Circle Forum of India-Vadodara Chapter Name of Bank : Bank of Baroda Branch Name : Manjalpur Bank Account No. : 01940100030249 IFSC/TRGS Code : BARBOMAJALP (Fifth Character is Zero) MICR Code : 390012033

### INDUSTRIAL VISIT

6th September 2019 (Friday) | 7th September 2019 (Saturday)

Timing : 9:30 am to 4:00 pm

#### CONTACT PERSON

Sqn. Ldr. P.Das : 9879890709  
Mr. Alope Chatteraj : 9426721309  
Mr. S.A. Dholakia : 9898906122

Mrs. Achala Kashikar : 9408944046  
Ms. Samruddhi Kulkarni : 8320996458

### QCFI - VADODARA CHAPTER

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