



Q-ZINE

Bimonthly Newsletter

National Institution for Quality & Reliability Chennai Branch

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SEPT. - OCTOBER 2016

From Chairman...



Dear NIQRians,

My advance Diwali Greetings!

It gives me immense pleasure to communicate with you all through this Newsletter. First of all my heartfelt thanks for the trust reposed on me by all of you to lead the Chennai Branch. My predecessors of the Chennai Branch have left me with great benchmarks which we are now trying to sustain and change it. Towards this, we have now come out with a mission called Mission 2020 which essentially means that we target to touch 20000 hearts with the Quality Message in the next one year!

In order to achieve this feat, we are now working on designing a course which will be in line with the current industry trends, that is Industry 4.0. Our Nation has to embrace the

concepts of Industry 4.0 and use it as a main tool to compete in the Global Market. This knowledge about Industry 4.0 needs to be spread across our Indian Industry and all the quality professionals need to re-skill themselves in line with Industry 4.0 concepts.

We are trying to attempt this with our aforementioned course which will be disseminated across our Nation through the various arms of NIQR. This will serve both the purpose of spreading the message and also for making NIQR more visible.

Your suggestions and ideas are most welcome.

With kind regards,

K MANIKANDAN

From Secretary...



Warm wishes.

The 28th Annual General Body Meeting of the NIQR Chennai Branch was held on 14th September 2016 at Hotel Radha Regent, Chennai. We are happy to inform that we had a record turnout of members & guests for the AGM in recent times, 129.

A new set of Executive Committee Members was inducted in the AGM and a new panel of Office bearers was elected for 2016-2018. I sincerely express my heartfelt thanks for the trust reposed on me by all of you by electing me as Secretary of Chennai Branch for the second time.

The outgoing team has set some benchmarks for the next 2 years in many of the activities.

- National Convention
- New Members
- Lecture Meetings
- Newsletters
- New Student Chapters

With all your support, we look to move forward towards greater heights in the coming years.

Wishing all of you and your family members a **HAPPY AND SAFE DEEPAVALI.**

C V GOWRI SANKAR





NIQR welcomes the new members who joined during Sept. - Oct. 2016

INDIVIDUAL LIFE MEMBERS

Mr. N. Anbuchezhian - Head of Process Excellence, Caterpillar India Pvt. Ltd

Mr. P. Nageshwara Rao - Chief Technology Officer R & D, TAFE Ltd.

Dr. S. Karthikeyan – Professor & HOD Mechanical Engineering, SRM University

Mr. K. Ravikumar - Asst Professor, SRM University

Mr. P. C. Raghunathan – Asst. Gen. Manager, Schwing Stetter (India) Pvt Ltd.

Mr. I. Kumar – Asst. Gen. Manager, Daimler Benz India

Mr. R. Anandakumar – Gen. Manager - Quality, Schwing Stetter (India) Pvt Ltd.

Mr. N. Sundaram – Asst. Gen. Manager - Ennore, Ashok Leyland Ltd.

Mr. K. V. Natarajan – Plant Head - Ennore, Ashok Leyland Ltd.

Mr. Sayani. S. Haribabu – Businessman

and 12 Individual Annual members

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NIQR Chennai Branch AGM

The 28th Annual General Body Meeting of NIQR, Chennai Branch was held on Wednesday, the 14th September 2016 at Hotel Radha Regent, Chennai. This year 129 Members and Guests attended the AGM, which is the highest in our history. The proceedings started with the invocation song.

Mr. S. Rajasekaran, Chairman – NIQR Chennai Branch welcomed the members present. After the confirmation of the 27th AGM minutes which was held on 1st August 2015, Mr. C. V. Gowri Sankar, Secretary – NIQR Chennai Branch presented the annual report for 2015-2016. Mr. C. Sundaravadivelu, Treasurer - Chennai Branch presented the audited statement of accounts for the period 01-04-2015 to 31-03-2016.

The new set of Executive Committee Members and Office Bearers was announced, inducted and approved for the period 2016-2018 by the members present. The new Chairman Mr. K. Manikandan, Head – Supplier Quality,

Ashok Leyland Ltd., received the NIQR Branch Quality Key from the outgoing Chairman Mr. S. Rajasekaran and addressed the Members.

Mr. C V Gowri Sankar, Secretary proposed the vote of thanks.

A movie prepared by Mr. C V Gowri Sankar about all the events of NIQR for the last 2 years was screened and all the members present appreciated it.



NIQR Chennai Branch New Executive Committee Members for 2016 -2018

Office Bearers

Chairman - **Mr. K. Manikandan**
 Vice Chairman - **Mr. V. Raghavan**
 Vice Chairman - **Dr. P. Ramesh**
 Secretary - **Mr. C. V. Gowri Sankar**
 Joint Secretary - **Mr. S. Kumar**
 Treasurer - **Mr. S. Sundar**

Executive Committee Members

Mr. Aravindha Krishnamachari
 Mr. S. S. Balasubramanian
 Mr. P.T. Bharaniperumal
 Maj. V. V. Chandrasekharan
 Mr. T.M. Gopala Pillai
 Dr. V. M. Gunasekaran
 Mr. N. Jagannatha Rao
 Mr. P. Kothandaraman
 Mr. S. Murugan

Executive Committee Members

Mr. P. Nageshwara Rao
 Mr. A. Pradeep
 Mr. R. Sethuraman
 Mr. C. Sundaravadivelu
 Prof. C. Uthayakumar
 Mr. S. Rajasekaran

Co-opted EC Members

Mr. D. Daniel
 Mr. S. Kavin Kumar
 Mr. G. Pandurengan
 Mr. S. M. Rajavikkiraman
 Mr. R. Sriram
 Mr. K. Saravanakumar
 Mr. V K Venkatramani



Monthly Evening Lecture Programs August 2016

Mr. P. Nageshwar Rao, Chief Technology Officer, TAFE Ltd., delivered an excellent lecture on “SMART MANUFACTURING” on 31st August 2016 at NIQR Conference Hall.

Mr. S. Rajasekaran, Chairman - NIQR Chennai Branch presided over the lecture and welcomed the members present and Mr. P. K. Aggarwal, National Vice President - NIQR spoke about NIQR and its activities and introduced the speaker.

Mr. P. Nageshwar Rao started the session emphasizing the importance of being SMART to INVENT anything in today’s industrial scenario. He explained smart manufacturing with some examples – Perkins Engine Plant in Hosur.

Mr. P. N. Rao gave an insight into Industry 4.0 and the evolution from Industry 1.0. He explained how the parameters like movement, throw and speed of machines are visualized digitally and made use of in manufacturing process.

He then dwelled on how product development is becoming completely virtual; getting a casting right first time has become possible today; the integrated approach towards machine design, fixture design brings them upfront in the manufacturing cycle, reducing the time to customer to 10% compared to traditional manufacturing.

He wanted all to be agile than just flexible by building in intelligence in the system including behaviour of humans.

Dr. P Ramesh, Co-opted National Executive Council Member

- NIQR summed up the proceedings crediting Mr. Rao with making the audience smart.

Mr. P. K. Aggarwal released NIQR Chennai Branch Newsletter for July – August and the session came to an end with vote of thanks by Mr. C V Gowri Sankar, Secretary - NIQR Chennai Branch.



Mr. P. Nageshwar Rao is an M tech from IIT and specialized in rotor dynamics. He is working in TAFE for the past 17 years and currently heading COE (centre of excellence) for tractor division and is the Chief Technology Officer, responsible for technology development in the field of drive train, power train, mobile hydraulics and control systems & attribute management like NVH and perceived quality. Earlier he was working in Ashok Leyland for 16 years in various areas of Product Development covering all the functions.

He has more than 10 patents to his credit and has presented technical papers in national and international forums.

Monthly Evening Lecture Programs September 2016

Mr. P. R. Iyer, NIQR Life Member & Retired AGM, NTPC & Mr. Saswat Das, Roof Top Solar Cell Manufacturer delivered a lecture on “Solar PV power and its Prospects” on 28th September 2016 at NIQR Conference Hall.

Dr. P. Ramesh, Vice Chairman - NIQR Chennai Branch presided over the lecture and welcomed the members present and Mr. C. V. Gowri Sankar, Secretary NIQR Chennai Branch spoke about NIQR and its activities and introduced the speakers.

Mr. P. R. Iyer gave an overview of today’s energy scenario and was confident solar power may become cheaper than coal by 2023 with depleting stock of coal.

Mr. Saswat Das straightaway advocated everyone should concentrate on reducing power consumption and gave many tips. He gave different patterns of energy consumption with Industries consuming 40% and domestic & agriculture 60%. It was very interesting to see that a large amount of coal energy is used to get a very small output of light energy at the user point. He advocated the use of energy efficient equipments to save on natural resources.

Mr. Das then took up the solar model and explained the process flow in three solar models, namely mono crystalline, poly crystalline and thin film. He dwelt at length about the net meter and its pros & cons. He broke the myth about the seasonal variation of output; high temperature summer months actually do not give high outputs. He concluded his

lecture giving details about the cost structure of solar power generation.

The Q&A session was very lively and informative and Dr. P Ramesh summed up the proceedings – he said the audience felt happy to have some myths broken by the lecture. Mr. A Pradeep, EC Member, NIQR Chennai Branch proposed the vote of thanks.



Mr. P. Rajamony Iyer, fondly called P R Iyer did B.E., Electrical Engineering in R.E.C, Warangal and Business Management in Administrative Staff College of India, Hyderabad. He had an excellent professional career; the highlights being set up of systems and processes for materials management for 6x600 MW power plant built by KSK Mahanadi Power at Nariyara, Chattisgarh, and reorganization of inventory control for Nathpa Jhakri Power Corporation (N.J.PC).



Mr. Saswat Das, a Marine Engineer by education and experience, had 15 years of shipping industry experience with Maersk - A. P. Moller. Worked in various capacities from Engineer to Technical manager and also as a security Advisor (SSA). Currently he is the Director of Sunmeister Energy Pvt. Ltd(OPC) . which is engaged in Energy Auditing, Designing and Integration of Solar/hybrid power plants .

Training Program on Quality Awareness on 26th & 27th August 2016

NIQR Chennai Branch organised a two day training program on Quality Awareness for shop floor operatives on 26th & 27th August 2016 at NIQR Conference Hall. There were 23 participants.

Mr. C. V. Gowri Sankar, Secretary NIQR Chennai Branch was the coordinator.

Mr. V. Rajagopalan Life Member, NIQR Chennai Branch and Mr. C. V. Gowri Sankar were the faculties. The topics covered include Changing Scenario & Working together, 5S, Kaizen & TPM, 7QC Tools, QMS and Quality Circle including a case study presentation.

In the valedictory function, Mr. S. Rajasekaran, Chairman NIQR Chennai Branch gave an overview of smart manufacturing and distributed the training certificates to the participants. The feedback from the participants was excellent.



Training Program on Quality Awareness on 21st & 22nd September 2016

NIQR Chennai Branch organised a two day training program on Quality Awareness for shop floor operatives on 21st & 22nd September 2016 at NIQR Conference Hall. There were 19 participants.

Mr. C. V. Gowri Sankar, Secretary NIQR Chennai Branch was the coordinator.

Mr. V. Rajagopalan Life Member, NIQR Chennai Branch and Mr. C. V. Gowri Sankar were the faculties. The topics covered include Changing Scenario & Working together, 5S, Kaizen & TPM, 7QC Tools, QMS and Quality Circle.

A QC team from Ashok Leyland Ltd gave a live case study presentation. Mr. Kannan, Senior member of the team spoke about the nuances of Quality Circles and made the participants feel at home and enjoy the presentation better.

In the valedictory function, the members of QC team from Ashok Leyland distributed the training certificates to the participants. The feedback from the participants was excellent.



NIQR Head Quarters AGM

The 25th Annual General Body Meeting of NIQR, Head Quarters was held on Wednesday, the 14th September 2016 at Hotel Radha Regent, Chennai at 7.30 PM. Mr. R Sivanesan, National President – NIQR welcomed the Members present . After the confirmation of the 24th AGM minutes which was held on 1st August 2015, Mr. G. Rangarajan, National Secretary – NIQR presented the Annual Report for 2015-2016. Dr. R. Srinivasan, National Treasurer – NIQR presented the audited statement of accounts for the period 01-04-2015 to 31-03-2016.

The new set of Executive Committee Members and Office Bearers were announced, inducted and approved by the Members present for the period 2016-2018. As the new President Mr. P K Aggarwal could not attend the event, Dr V Swaminathan, National Vice President - NIQR received NIQR Head Quarters Quality Key from the outgoing President Mr. R.Sivanesan and addressed the Members. Mr. S. Rajasekaran, the new National Vice President - NIQR read the message from Mr. P.K. Aggarwal, the new National President - NIQR.

Mr. K. Sridharan Balaji, the new National Secretary – NIQR proposed the vote of thanks.

A movie prepared by Mr. C V Gowri Sankar about the 15th NIQR National Convention was screened and all the members present appreciated it.

The AGM came to a conclusion with the National Anthem followed by Dinner.



Selvi. **R.Deepa** from Meenakshi Sundararajan Engineering College, Selvi. **N.Srividya** from SRM University - Vadapalani Campus and Selvi. **S.Rajakumari** from Sri Sai Ram Engineering College were presented NIQR Special Award for Paper Presentation on “Skill India for Sustainable Global Quality” by Mr.R.Sivanesan, National President - NIQR.



New Executive council Members for NIQR Head Quarters - for 2016 - 2018

Office Bearers

President - Mr. Pradeep Kumar Aggarwal
 Vice President - Dr. V. Swaminathan
 Vice President - Mr. S. Rajasekaran
 Secretary - Mr. K. Sridharan Balaji
 Treasurer - Mr. S. Muralishankar
 Joint Secretary - Mr. V. Venkatesh
 Ex- Officio - Mr. R. Sivanesan

Executive Council Members

Mr. R. Ananda Kumar
 Mr. N. Anbuhezhan
 Mr. C. Athi Pagavan
 Ms. K.S.Babai
 Mr. L.N. Gurusurthi
 Mr. Kamal Basha
 Prof. D. R. Kiran
 Mr. Pradeep Dwivedi
 Mr. S. Ramachandran

Mr. G. Rangarajan
 Dr. R. Srinivasan
 Mr. S.Vanchinathan
 Dr. Vinod Surana
 Mr. R. Mohanakrishnan

Co-opted EC Members

Mr. I. Kumar
 Mr. G.S. Venkatesh Kumar
 Mr. K. Vijayakumar

Members in News



Dr. V Swaminathan, National Vice President – NIQR presented a paper on “End to End Strategy for Enhancing Competitiveness by Implementing TQM” in One day Seminar on “INTO THE FUTURE” organized and conducted by Institute of Indian Foundrymen - Southern Region & Chennai Chapter during their 66th National Foundry Day Celebrations on 17-08-2016 at Chennai



Shri. S. Murali Shankar, Managing Director, Super Auto Forge Pvt. Ltd., Chennai and National Treasurer - NIQR was the Chief Guest at the symposium "KRATORQ16" organised by Department of Mechanical Engineering - SRM University, Vadapalani Campus, Chennai on 23/09/2016.



Prof. D.R.Kiran, National Council Member – NIQR has published a book titled "Total Quality Management- Key Concepts and Case Studies" and it was launched at the monthly meeting of the American Society of Quality at Hilton Embassy Suites, Boston on 20th September 2016. The book was again released at the monthly meeting of Association of Facilities Engineers on 22nd September 2016.



ASSOCHAM Tamil Nadu had organised a one day Summit on Enhancing Sustainable Employability: Perspective & Practices on 12th October 2016 at Hotel Leela Palace, Chennai. **Dr. Ms. K.S. Babai**, Principal, Meenakshi Sundrararajan Engineering College and NIQR National Council Member was one of the panelists for the Panel Discussion on Careers – Pathways, Partnership & Programs.

Mr. P.T. Bharaniperumal, Sr. Manager – CQ – Supplier Quality, Ashok Leyland Ltd., & ECM, NIQR Chennai Branch participated in the summit on behalf of NIQR.



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Glimpses of NIQR Delhi NCR Branch Activities

NIQR Student Chapter Amity University

NIQR was invited by Amity University to its Annual Corporate Meet on 2nd September 2016. Amity University acknowledges the presence of NIQR members amongst the various Organisations like Honda Car India Ltd., Delhi Metro Corporation Ltd, NTPC, Reliance Jio Communication Ltd & BHEL Bangalore.



Mr. R.B. Madhekar, Vice Chairman - NIQR Delhi NCR Branch was facilitated with the Best Manufacturing Excellence Guide Award. This award was presented to him for his crucial guidance to students for various projects.



Mr. Lokesh Pandey, Secretary - NIQR Delhi NCR Branch was facilitated with the Young Quality Leadership award. This award was presented to him appreciating his contribution to Field of Quality Revolution. He conveyed to students the message “Break the comfort zone to achieve the Excellence” or you will never achieve the excellence without challenging yourself every day.



Mr. A.K. Tomer, Chairman - NIQR Delhi NCR Branch was facilitated with the Best Quality Leadership Award. This award was presented to him to speed up the Quality Journey for Maruti Suzuki India Ltd. His insight to young professional is to practice Quality in Day to Day life. Mr. Vipin Garg received the award on behalf of Mr. Tomer.

NIQR Delhi NCR has already established a student chapter of 40 members with Amity University. The Branch is continuously guiding students through various lectures & industry visits.

Students Meet at Global College of Engineering, Amritsar

NIQR Delhi NCR Branch organised a students' meet at Global College of Engineering, Amritsar in September 2016. Mr. Vipin Garg, Vice Chairman NIQR Delhi NCR Branch presided over the function. 300 students from Global College of Engineering, Amritsar & Lovely Professional University, Jalandhar participated in the meet held at the campus of Global Engineering College.

Mr. Ranjan Vasishtha, Joint Secretary NIQR Delhi NCR Branch introduced NIQR amongst the students and explained the benefits they will get through NIQR for their career development by narrowing the Industry - Academia gap.

Mr. Vipin Garg in his Keynote address emphasized that a support system is needed to ensure a focused involvement of both academia and industry. He wanted the Institutions to develop systems and procedures to ensure that industry expectations are met without any compromise on academic aspirations. Initially, academia should conceive and take up short term, small budget projects which would instill confidence in industry and encourage it to start development projects.

He urged the Industry also to give a fresh look to its R&D efforts. This process must be guided by a complete shift from trading set up to a technologically - driven entrepreneurial set up. Academia should tilt the focus of basic research to applicative research. Research initiatives involving industry people with flexible formats could serve as the first step in this direction.

Mr. Parveen Yadav proposed a vote of thanks





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United
GROUP OF COMPANIES

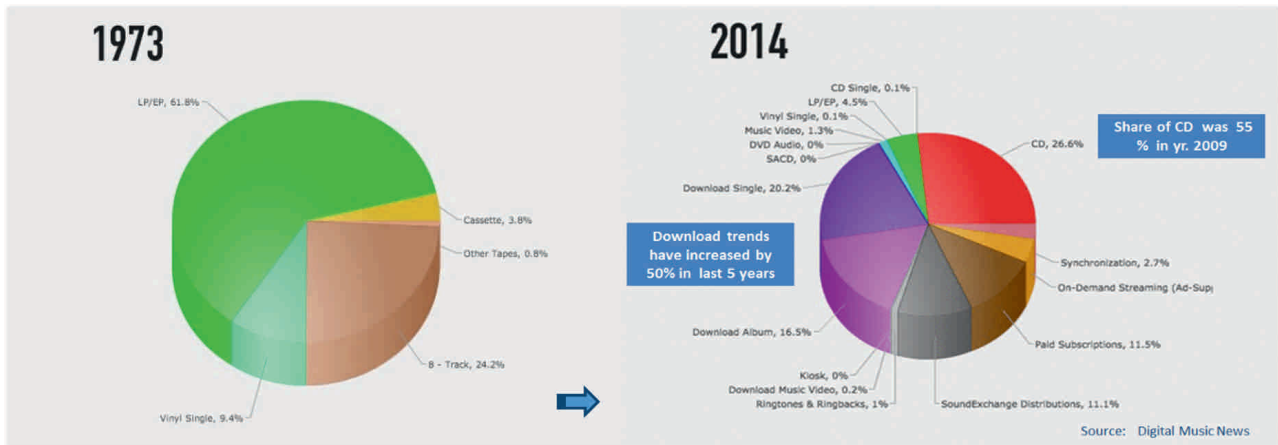
UNITED GROUP OF COMPANIES
Manufacturer of Ductile & Grey Iron Castings

United Group of Companies is promoted by Shri B. Govindarajan, a well known technocrat having more than 3 decades of experience in the foundry industry, now is a renowned establishment in South India that produces SG (Ductile Iron) & Grey Iron castings, with the help of highly dedicated work force & cutting edge technology. The other Directors are also experienced in the line.

Plant	United Foundries Private Limited	Unicast Alloys Private Limited	Hitech Die Cast Private Limited	Expansion Plan BY 2016
Location	12-D, SIPCOT Industrial Complex, Ranipet	Achipatti post, Pollachi, Coimbatore	Achipatti post, Pollachi, Coimbatore	
Year of establishment	1979	1990	1993	
Land Area	18564 Sq m	28524 Sq m	11344 Sq m	
Built up area	9908 Sq m	9234 Sq m	6250 Sq m	
1 Induction Furnace	1 ton - 750 KW - 1 No 0.5 ton - 450 KW - 1 No 1 ton - 450 KW Crucible - 1 No	1.5 ton - 1250 KW - 2 No's	1 ton - 1250 KW - 2 No's 1 ton 750 KW - 1 No.	1.5 ton Tritrack 3000 KW
2 Mold Line Type (Green Sand Process)	Vertical High Pressure line, DISA2110 Mk2 Horizontal High Pressure Line, SINTO	ARPA-300 ARPA-900	ARPA-300 ARPA-450	KOYO Horizontal High Pressure Line MICHEL, SACS, SINGER, SINTO
3 Mold line: Match Plate / Box Size (LengthxWidthxHeight in mm)	DISA : 500 x 400 x 315 SINTO : 340 x 440 x 120	ARPA-300 : 520 x 400 x 150 ARPA-300 : 520 x 520 x 150 ARPA-900 : 1000 x 800 x 300	ARPA-300 : 520 x 400 x 150 ARPA-450 : 600 x 650 x 200 ARPA-450 : 600 x 750 x 200	700 x 600 x 250
4 Weight Range (Single Piece)	DISA : 0.5 Kg to 10 Kg maximum SINTO : 0.3 Kg to 8 Kg Maximum	5 Kg to 125 Kg Max	5 Kg to 50 Kg / Piece	5 Kg to 50 Kg
5 Core Type	Co2, Cold Box	Co2, No Bake, Oil, Air Set, Cold Box	Co2, Air Set, Cold Box	Co2, No Bake, Oil, Air Ser
6 Heat Treatment	2 ton Boggle Type Electrical Furnace	3 ton Boggle Type Electrical Furnace		
7 Laboratory Facilities, available in all units	SPECTRO ; CE Meter ; Brinell Hardness Tester ; Tensile ; Microscope Image Analyser ; Magnetic Particle Inspection ; Ultrasonic testing			
8 Sand Plant & Testing Facilities, available in all units	Sand plant equipped with Sand cooling system & dust collection system. Testing facility - G.C.S Machine, Permeability, Compactibility, Moisture, Mold hardness tester & Sieve Analysis			
9 Installed Capacity per annum	12000 tons	15000 tons	12000 tons	24000 tons

Win Your Customers through Sustainable Transformation

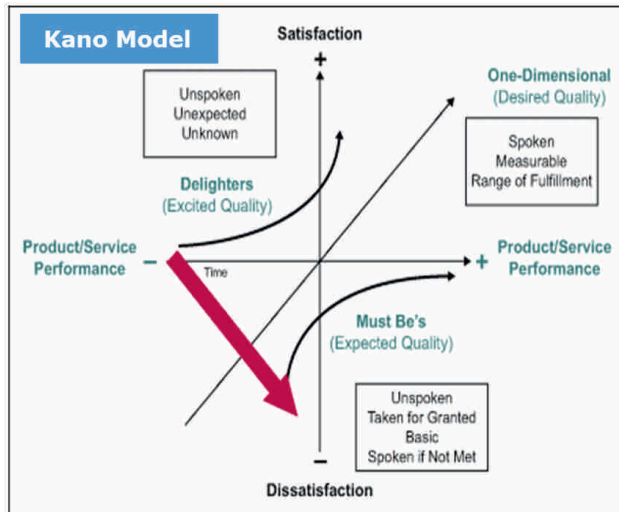
We always wish to be our customers' First Choice. At the same time we also know that customer needs are fast changing. I would like to take an example of music Industry



This clearly shows that “What delights customers Today will become their expectation Tomorrow”. Keeping our focus of the “Quality”, “Cost” & “Delivery”, we try to address the following basic expectations of our customers from our product or services: Reliable, Durable, Attractive, Value for Money and Excellent sales & support. But in this race we often forget the most important “WOW” factor. To win, it’s important to understand Your Customers & their requirements:

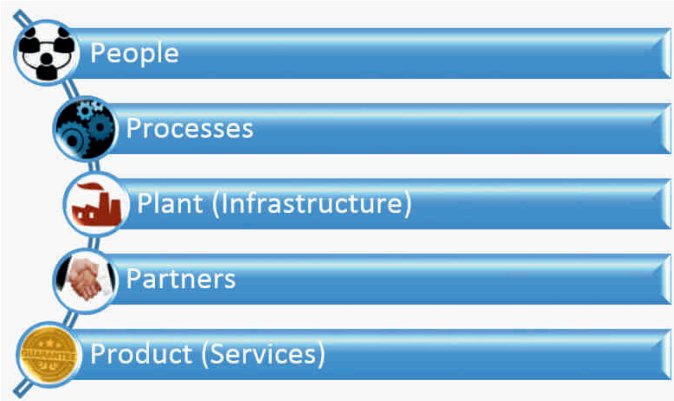
- Who is your customer? – Define differently
- Connect with your customers to know how much better or worse is your product or service helping them
- Understand customer’s needs in terms of what can help them better

There is a need to “Focus on the Customer – not on Product or Service. Understand the difference between **Customer Satisfaction & Delight**:



- Satisfying basic needs allows a company to get into the market.
- Satisfying performance needs allows a company to remain in the market.
- Satisfying excitement needs allows company to excel, to be world class

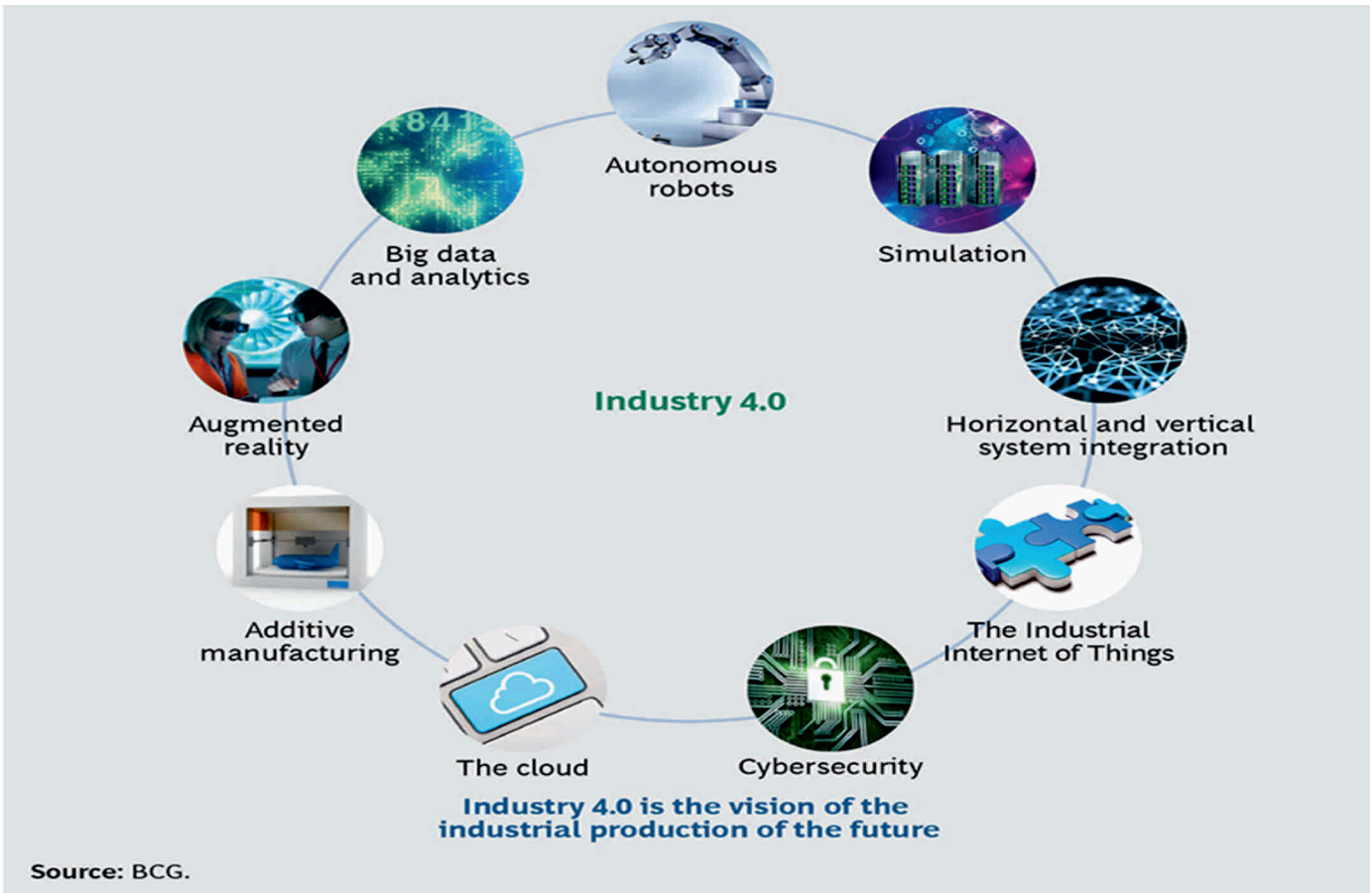
We need to introspect ourselves through each one of the following 5P's of our business and identify the need for a transformation – a sustainable transformation.



For example, make your operators aware of the “Effect of Defect “.



Message is very loud and clear. We need to transform. Technology is fast changing to help us in this direction.



While we need to use the opportunities made available with the latest technology, we also need to put our best efforts towards improving skill & will of the People - associated with us in our business, our partners and across the country. This will help in making our dream of “Make in India” come true.



By **Mr. Pradeep Kumar Aggarwal**
National President - NIQR and Vice President - Corp. Quality, TAFE Ltd.



**MISSION 2020
NIQR**

Coming Soon...

QFI

**A program to align our Industry and
Quality Practitioners to**

INDUSTRY 4.0

NIQR is on its Mission 2020

Forthcoming events



Shri L S N Gupta Memorial Lecture Meeting on 19th November 2016 at 6.30PM
Mr. R. Vasu,
Vice President QHSC, Brakes India Pvt. Ltd.
will deliver the memorial Lecture
at Hotel Radha Regent, Chennai



Prof CY Krishna Murthi Memorial Lecture Meeting on 5th November 2016 at 6.30PM
Mr. Hariharan Mathurubutham,
Vice President - Delivery Excellence
Cognizant Technology Solutions will deliver the memorial Lecture
at Hotel Radha Regent, Chennai

NIQR National Head Quarters Announces Second Annual Competition on **SIX SIGMA Case Study Presentation**



On 26th November 2016 (Saturday) at The Westin Chennai Velachery
154, Velachery Main Road, Velachery, Chennai - 600 042.

For further details, Please Contact - NIQR Office



National Institution for Quality & Reliability

Chennai Branch Newsletter September - October 2016

Editorial Committee:

Mr.C.V. Gowri Sankar, Secretary - NIQR Chennai Branch

Mr. I. Daniel Jeyaraj - Administrative Officer