



Name : Ashim Roy Chowdhury

Division/Unit : SQC & OR Division

Place of Work : SQC & OR UNIT, Indian Statistical Institute, Bangalore

Designation : Senior Technical Officer

Date of Joining: 01-11-1980

Date of Birth : 05-02-1956

Mobile : 9739322475

Educational Qualification:

1. P.G. Diploma in SQC & OR from Indian Statistical Institute
2. M.STAT. (SQC & OR Specialisation) from Indian Statistical Institute
3. B.Sc (Hons.) from Ashutosh College, Kolkata

ACTIVITIES AT A GLANCE:

A. Papers published in Journal:

1. Paper titled "Reduction of Gold Plating Thickness Variation" jointly authored by Shri Ashim Roy Chowdhury & Shri G. Krishna Prasad has been published in "Quality Engineering" Journal, Vol.11,Part-1,September,1998,pp 61-67.
2. Paper titled "Reduction of Defects in Wave Soldering Process" jointly by A.Roy Chowdhury & Satabdi Mitra has been published in "Quality Engineering" Journal, 12(3),439-445(2000).
3. Paper titled "Control Panel Temperature Test: Slashing Measurement Error Through Experimentation" jointly authored by Shri Devashees Das, Shri D.Mukherjee and Shri Ashim Roy Chowdhury, published in the QR Journal of IAQR in May,1987 issue.

4. Paper titled “Replacing Destructive by Non –Destructive Testing” ” jointly authored by Shri Ashim Roy Chowdhury & Shri E. Krubakaran published in the QR Journal of IAQR in September,1982 issue.

B. Paper published in refereed books:

5. Paper titled “ Improvement of Life of Flat Springs” by A.Roy Chowdhury has been included in pages 84-87 in the book “Quality Case Studies”, Vol -1(November 1989) edited by Prof. C.R.Prasad and brought out by SQC ^& OR Division,Indian Statistical Institute.
6. Paper titled “Improvement of Grinding Process of Valve Seat to Meet Export Needs” by A.Roy Chowdhury has been included in pages 173-176 in the book “Quality Case Studies”, Vol -1(November 1989) edited by Prof. C.R.Prasad and brought out by SQC & OR Division, Indian Statistical Institute.
7. Paper titled “Process optimization through Designed Experiments: Two Case Studies” by Shri A.R.chowdhury,J.Rajesh and G.K.Prasad published in the book titled “ Quality Improvement Through Statistical Methods”- edited by Prof. Bovas Abraham and published by BIRKHAUSER,Boston,1998,pages 263-274.

C. Paper Published in Conference Proceedings:

8. Paper titled “ Minimising rework on Coils used in H.V.Roating Machines” by Shri N. Vasantha Kumar , V.Jagadish Rao, & A.Roy Chowdhury has been published in the “Asian Congress on Quality and reliability”(1989) – conference proceedings. The paper appears in pages 819-820 of the volume titled “Quality for Progress and Development”brought by Prof. P.K.Bose, Prof. S.P.Mukherjee and Prof. K.G.Ramamurthy.
9. Paper titled “Process Development- A Step towards TQC” by Shri S.Krishnan, N.Hariharakrisnan, N. Narayanan and A.Roy Chowdhury has been published in the Conference Proceedings titled “1990-ASQC- Quality Congress Transactions- San Francisco”, pages 863-867.
10. Paper titled “To Establish Process Parameters in Stretched Acrylic Drilling” by Shri Ashim Roy Chowdhury and Shri M. Mariappan has been published in the conference proceedings of 3rd National convention of National Institution of Quality and Reliability, held during 5-6 February,1993 at Madras in pages 4.16-4.19.
11. Paper titled “To minimize the Non conformance in Radial thickness of Chrome Piston Rings” by Shri Ashim Roy Chowdhury has been published in pages 240-246 in the conference proceedings of “International Convention on Quality Control Circles (ICQCC’97)” during 30Aug- 1Sep’1997 organized by China Quality Control Association.
12. Paper titled “Machine Capability Evaluation and Improvement””by Shri A.Roy Chowdhury and Shri C.V.Appa Rao is published in the conference proceedings of 8th National convention of National Institution of Quality and Reliability, held during 9-10 January,1998 at Bangalore in pages IA.21- IA.32.
13. Paper titled “ Achieving More Uniform Silicon Composition in Al-Si alloy Melts by Shri A.Roy Chowdhury and Shri Prashant Deepak” is published in the form of extended abstract in pages 50-53 in the proceedings of the conference titled “Statistical Methods in Quality and Productivity- Current Trends” held at New Delhi, during 5-6 February, 1998 organized by SQC & OR Division, Indian Statistical Institute.

14. Presentation of Paper in Conference:

12. Presented a Paper titled “Eliminating the failures in Pull out Load Test” in 13th International Conference On Quality 2011, held in Bangalore, during 6-7 January,2011. The abstract was published in Conference proceedings.

13. Presented a Paper titled “Reduction of Visual Defects in Metal Injection Molded Parts” in International Congress on Productivity, Quality, Reliability, Optimization and Modelling at New Delhi, held during (7-8 February 2011). The abstract was published in Conference proceedings.

14. Presented a Paper titled “Achieving More Uniform Profile Depth Of Worm Through On-Line Process Control”. in the International Conference on Quality, Reliability and Operations Research (ICONQROR-2013), ISI Mumbai, January 7-9, 2013. The abstract was published in Conference proceedings.

E. Teaching in Academic Course:

Currently engaged as Faculty in MSQMS course since 2014 offered at SQC & OR UNIT ,ISI, Bangalore & SQC & OR UNIT ,ISI, Hyderabad.

F. Training & Consultancy Services

Engaged in General and In plant Training Programmes since 1980. Currently the training programs are oriented in the line of “Understanding and Implementation of Six Sigma methodology in an organisation”. In this connection enumerable number of Master Black Belt, Black Belt & Green Belt training programs are conducted by me both as General and In plant Programs. Consultancy work mainly focuses on hand holding sessions which means project guidance right from identification of the six sigma project up to implementation and closure of the project. A formal presentation of the Project work before management is usually done highlighting the methodologies used and benefits achieved.

Some of the projects supervised by me in last few years (as on 27 Nov’2017) are listed as follows:

1. Robust Optimization of Start System Parameters for Quick Engine Starts for Motor Vehicle
2. Improvement in Rated Production in Poly coating Machine – 1
3. Reduction in Edge Related Issues (%)
4. Increase in Condensate recovery (%)
5. Reduction in Domestic Water Consumption (KL/Person/Day)
6. Reduction in Size Press Coating defects (Seconds %)
7. BEV 1PE Productivity improvement in Poly – 2
8. Reduction of BEV 2 PE & BAR 2PE Overall Loss%
9. Finished Goods(FG) Stock lot reduction
10. POLY-2 –Stoppage Reduction
11. Packing cost reduction
12. Productivity improvement in Indobev1pe 185
13. Reduction of LDPE excess consumption by 25% from the current level.
14. PE-1 Machine productivity improvement in Bev2pe grade
15. Reduction of sheeting losses in poly grades
16. Reduction of losses in Reel orders in poly 1pe & 2pe grades
17. Non Stock Inventory reduction of Engineering spares & consumables
18. BEV 2PE Rated Productivity improvement in Poly – 1
19. OEE improvement in Disc Chippers
20. Reduction of Shives in Pulp Mill
21. Reduction of Blotches in PM-4
22. Reduction in (%) turbidity (Submicron particles) of supernatant obtained from fermentation process
23. Recovery improvement of Recombinant Protein Production at Cell Separation stage
24. Optimization of Continuous Chromatography

25. A Study of Process Parameters Affecting the removal of process related key compound below specified limit and increasing the process Yield
26. Optimization of Process Parameters for Tool Life improvement.
27. Reduction of customer rejection and process capability improvement in metal clamp”
28. Reduction of In-House Rejection and Process Capability Improvement in Pump Housing for an Auto application
29. Reduction of cycle time in Finish Match Grinding process
30. A Study and Analysis of Process Parameters Affecting a certain Process of Insulin precursor for improving process Yield- A Statistical Approach
31. Defining Process Design Space for XYZ fermentation product
32. “Reducing Rejection & Rework in of Cam Brake auto parts”
33. Reduction of in-house rejection in a conventional high pressure pump supplied for a passenger car application
34. Increase in Overall count of Vehicle tracking devices using Quality Tools
35. Optimization of Turning process to reduce the variation in diameter of Bush
36. Reduce the delay in Disposing Revalidation of PPAP’s
37. First pass Yield improvement in Finish Match Grinding
38. To reduce rejection of Cylinders due to ovality
39. To reduce rework rate of part no xxx ID ovality in turning process
40. To reduce the shrinkage of internal splines due to HT distortion

G. North East Programme

In order to spread the knowledge of Quality management using Statistical methodology Trainings were imparted through six Sigma green Belt program & Program on Statistical Process Control in various places of North-Eastern part of our country. The programs were held at Guwahati, Shillong (St. Anthony’s College), Dibrugarh(Dibrugarh University),Silchar(Assam University),Tezpur (Tezpur University) & Agartala (Agartala University).

H. MISCELLANEOUS

1. Acted as Head,SQC & OR Unit, Bangalore during April,2004 to May,2007
2. Acted as Co-ordinating specialist , “Cell for Specialist Development”, during 1991-92.
3. Acted as Chairman of Programme Committee for 13th International Conference On Quality 2011, held in Bangalore, during 6-7 January,2011.
4. Acted as Member ,Organizing Committee for International Conference On Quality & Reliability (ICQRE),2011
5. Completed the “International Training Programme on ‘Total Quality Management’ arranged under the auspices and sponsorship of the Swedish Board for Investment & Technical Support (BITS) organized by the Swedish Management Group from March 15,1994 to May 25, 1994.
6. Successfully completed five day training program under National Registration Scheme for Assessors of Quality System- a Lead assessors programme for ISO 9000 Quality system in 1994.
7. Successfully completed Lead assessor programme on ISO 14000 a system for Environment ,Health & Safety (EHS) in 1996.
8. Was engaged in training and project supervision work as a part of Six Sigma Implementation in Iran Khodro Co. (IKCO).