

# PRASHANT SHANKAR KSHIRSAGAR

**Deputy General Manager – Quality Assurance | Metallurgical Quality Leader | 17.9 Years | Steel, Alloy & Stainless Steel**

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## EXECUTIVE SUMMARY

Senior Metallurgical Quality Leader with 17.9 years of progressive QA/QC leadership across integrated steel mills, stainless steel facilities, and downstream units (SMS, EAF, Continuous Casting, LSAW pipes, cold rolling, wire drawing). Proven track record of delivering zero major NCRs, 25% defect reduction, 96% First Pass Yield, 15% supplier rejection reduction, and ₹0.47 Cr annual cost savings through ISO 9001:2015 / IATF 16949 QMS governance, Six Sigma (Green Belt), Lean, SPC, MSA, and structured CAPA systems. Directed QA teams of 15–17 professionals, led internal, external, and customer audits with 100% compliance, and championed CTQ institutionalization, COPQ elimination, and cross-functional continuous improvement. Deep metallurgical expertise in heat treatment, microstructure analysis, inclusion rating, NDT (MT Level II, UT Level II), and material testing to IS/ASTM/EN/BIS/API standards. Proficient in SAP-QM, Minitab, and digital quality-reporting systems. Positioned to lead enterprise-wide quality governance and metallurgical excellence across integrated steel manufacturing operations.

## CORE COMPETENCIES — METALLURGY & QUALITY

- **Quality Systems & Governance:** ISO 9001:2015, IATF 16949, ISO 14001, OHSAS 18001, Internal/Customer/Supplier Audits, CTQ Deployment, Control Plans, CAPA, Zero-NCR Governance
- **Leadership & Stakeholder Management:** Cross-Functional Leadership, Team Development, Supplier Quality Management, Vendor Development, Customer Quality Management, Quality Culture Building
- **Continuous Improvement & Problem Solving:** Lean Manufacturing, Six Sigma Green Belt, COPQ Reduction, Yield Improvement, 8D, Root Cause Analysis, 5-Why, Fishbone, Kaizen, Poka-Yoke
- **Quality Engineering & Statistical Tools:** SPC, MSA, Cp/Cpk, PFMEA, APQP, PPAP, Statistical Analysis, Quality KPI Dashboards, Process Capability Improvement
- **Metallurgy, Steelmaking & Testing:** Steelmaking (EAF, LRF, SMS), Continuous Casting, Hot & Cold Rolling, LSAW Pipes, Wire Drawing, Heat Treatment, Metallography, Inclusion Rating, Mechanical & Chemical Testing, Failure Analysis, UT Level II, MT Level II
- **Digital Systems & Laboratory Management:** Metallurgical Lab Management, SAP-QM, Minitab, Oracle NetSuite, SPC Software, Digital Quality Dashboards

## CAREER SNAPSHOT

- **Deputy General Manager – Quality Assurance** — ICC Co. Ltd., Nalagarh (H.P.) — Team: 15 | Cold Rolling, Punching & Flame Hardening Lines (*Feb 2021 – Mar 2025*)
- **Production Quality Engineer (SQM)** — Titus Industrial, Rajkot (US Export Supply Chain) — Team: 3 | Carbon Steel Pipe Fittings & Forged Flanges (*Dec 2019 – Jul 2020*)
- **Senior Manager – Quality Assurance** — Nevatia Steel & Alloys Pvt. Ltd. — Team: 17 | Stainless Steel Wire Drawing & Solution Annealing (2 Plants) (*Apr 2015 – Oct 2019*)
- **Melter – SIEMENS VAI EAF (100 MT)** — Qatar Steel Company, Qatar — Primary Steelmaking Operations (*Dec 2013 – Feb 2015*)
- **Senior Process Engineer** — Bekaert Mukand Wire Industries Pvt. Ltd. & N.V. Bekaert SA, Belgium — Team: 4 | SS Wire Drawing (*May 2011 – May 2013*)
- **Assistant Manager / Senior Engineer – QA** — Welspun Corp Ltd. — LSAW Pipe Mill, API 5L PSL1/PSL2 Metallurgical Compliance (*May 2008 – Apr 2011*)
- **Senior Engineer – Quality** — Sanyo Special Steel (formerly Mahindra Ugine Steel Co.) — Steel Melting Shop & Hot Rolling Mill (*Feb 2006 – May 2008*)
- **Graduate Engineer Trainee** — Evonith Value Steel (formerly Lloyds Steel) — EAF, Continuous Casting & Hot Rolling Rotation (*Feb 2005 – Feb 2006*)

## PROFESSIONAL EXPERIENCE

**Deputy General Manager – Quality | ICC Co. Ltd., Nalagarh (H.P.) | Feb 2021 – Mar 2025**

*QA Head | Team of 15 | Cold Rolling, Punching & Flame Hardening Lines | ISO 9001:2015*

- Served as Principal Custodian of ISO 9001:2015 QMS across all plant operations, directing documentation integrity and audit readiness, achieving zero major NCRs across surveillance and recertification cycles; institutionalized CTQ parameters and control plans benchmarked to ISO 9001 and BIS requirements.
- Directed internal rejection analysis for in-process and finished goods and implemented process-level CAPAs through weekly cross-functional reviews, achieving 25% defect reduction and 96% First Pass Yield, and lowering COPQ.

- Deployed SPC and MSA-based controls across cold rolling, punching and flame hardening lines, sustaining Cp/Cpk  $\geq 1.33$  for all critical characteristics; introduced Poka-Yoke systems and visual management, achieving an 18% operational efficiency gain.
- Led the end-to-end customer complaint and field-failure cycle using structured RCA (8D, Fishbone, 5-Why, PFMEA); reduced customer complaints by 15% and delivered 98.5% first-time customer approvals.
- Designed and executed structured supplier audits; enforced RM metallurgical specifications for grades C-60, C-70, SAE 52100 and 83WV3, reducing supplier rejection by 15% and delivering ₹10 L/year in cost efficiencies.
- Institutionalized heat-treatment parameters (annealing, hardening, tempering) across round/flat/card wire lines, improving hardness uniformity from 85% to 96%; architected and commissioned an advanced metallurgical laboratory (Strohlein C&S analyzers, micro-hardness systems, digital microscopy, MPI, Fujifilm Prescale) aligned to ASTM E45/E112.
- Mentored a QA/QC team of 15+ through structured competency programs (SPC, MSA, 7QC, CAPA, 8D), raising technical competency from 1-star to 4-star level, and led annual Quality Month (2021–2024) driving organization-wide quality culture.

**Production Quality Engineer (SQM) | Titus Industrial, Rajkot — Supplier to Dallas, USA | Dec 2019 – Jul 2020**

*Team of 3 | Carbon Steel Pipe Fittings, ASTM A234-17 Gr.WPB | Global Supplier Quality Management*

- Directed QA for forged flanges, butt-weld fittings, reducers, TEEs, hot induction bends and spools, ensuring compliance to ASTM, ISO and Titus customer requirements.
- Led due diligence and multi-stage process audits across mill material, in-process and final inspection stages, securing full compliance with ASTM, ISO and customer benchmarks.
- Partnered with the US Engineering/R&D team to resolve pre-production quality deviations, executing data-driven RCA and CAPA to eliminate field-failure recurrence.
- Authored and institutionalized SOPs for inspection and testing, and maintained traceability of FMTR reports in Oracle NetSuite for management review.

**Senior Manager – Quality Assurance | Nevatia Steel & Alloys Pvt. Ltd., Tarapur-MIDC | Apr 2015 – Oct 2019**

*QA Head, 2 Plants | Stainless Steel (200/300/400 Series) | Team of 17 | Wire Drawing, Strand & Solution Annealing*

- Developed metallurgical specifications, SOPs and QAPs per ISO 16949, ASTM, EN and customer-specific standards, ensuring full audit readiness and issuing EN 10204-3.1 test certificates with complete documentation control.
- Enhanced supplier quality through rigorous audits and metallurgical RM reviews, delivering ₹11.6 L + ₹5–6 L annual cost savings through redesigned packing and in-house PMI testing, plus ₹1.87 L laboratory cost reduction.
- Led APQP and PPAP for new stainless steel products; developed a 17/7 pH mandrel and modified wrap/bend test machines, achieving zero-defect performance via structured 8D/7QC/5-Why/PFMEA-based complaint investigations.
- Implemented MSA/SPC controls for solution annealing, pickling, rinsing, coating and wire drawing, achieving a 10% efficiency gain; maintained zero lost-time incidents throughout tenure.

**Melter — SIEMENS VAI EAF (100 MT Capacity) | Qatar Steel Company, Qatar | Dec 2013 – Feb 2015**

*Steelmaking | EAF Operation | ASTM A615 & A706 Gr.60/75/80 | Low-Carbon Grade Production*

- Directed end-to-end EAF steelmaking — scrap charging, melting, refining, sampling, EBT tapping and real-time quality inspections — achieving a record heat-tapping rate of 12 heats in 8 hours.
- Engineered an EBT sand-storage modification that reduced tapping cycle time by 3 minutes; maintained production logs and analytical reports for management review.

**Senior Process Engineer | Bekaert Mukand Wire Industries Pvt. Ltd. & N.V. Bekaert SA, Belgium | May 2011 – May 2013**

*Team of 4 | Wire Drawing, Stainless Steel | Belgium Technology Centre Collaboration*

- Developed a Long Bearing Length Pressure Die and drove SS wire process/quality improvements in collaboration with Bekaert Technology Centre, Belgium; installed online Eddy-Current testing during wire drawing.
- Led Kaizen for machine-development projects, reducing wire entanglement scrap by 5% through payoff discharger modification, and standardized speed/load charts to accelerate production cycles.

**Graduate Engineer → Assistant Manager | Evonith Value Steel (Lloyds Steel) | Sanyo Special Steel (MUSCO) | Welspun Corp Ltd. | Feb 2005 – Apr 2011**

*QA/QC | EAF, LRF, Continuous Casting, HRM, LSAW Pipes | API 5L PSL1/PSL2 | ASTM/EN/BS/DIN/BIS Standards*

- Led QA, process control and metallurgical testing (tensile, impact, hardness, grain size, inclusion rating, microstructure) to ISO/ASTM/API conformance across EAF, LRF, CC and pipe manufacturing.
- Authored QAPs, RMTS and MPS for global clients specifying Carbon Equivalent (CE) limits for PSL 1 & PSL 2 LSAW pipe steel, securing domestic and international order approvals.
- Achieved a 20% UT rejection reduction; led scrap-reduction projects using RCA (5-Why, Fishbone) and CAPA, and developed a BP mould segregation and polishing method that minimized ingot surface defects.

## KEY CAREER ACCOMPLISHMENTS

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- **Cost Leadership:** Delivered ₹0.47 Cr annual savings through optimized wire-rod sourcing, re-engineered packaging, in-house PMI/metallurgical testing and reduced NABL calibration costs; achieved €700–€800 p.a. savings in Belgium through vendor negotiations.
- **Customer Excellence:** Achieved 10% reduction in customer complaints via zero-defect systems (8D, Fishbone, 5-Why, PFMEA, CAPA), delivering 98.5% first-time customer approvals.
- **Supplier QMS Governance:** Directed supplier quality excellence through rigorous audits — 15% supplier rejection reduction and ₹28 L+ annual savings — via RM metallurgical validation and vendor capability development.
- **Metallurgical Innovation:** Engineered next-generation metallurgical lab capabilities — computerized tensile/micro-hardness systems, automated MSA/calibration, wet-chemical lab upgrades and decarb measurement — ensuring precision and data integrity.
- **Lean & Process Reliability:** Spearheaded Kaizen/Lean improvements (gas-flow meters, discharger redesign, lubrication innovation, Poka-Yoke systems), delivering an 18% efficiency gain and a 20% yield improvement.
- **Heat Treatment Excellence:** Modernized HT operations through burner upgrades and quench-uniformity controls, achieving a 20% hardness uniformity gain, 96% FPY and improved metallurgical stability.
- **QMS Documentation & Governance:** Standardized SOPs, PFMEA, SPC, MSA, inspection formats and calibration regimes; led department-wise internal audit execution with zero major NCRs across ISO 9001:2015 and IATF 16949 recertification cycles.
- **Safety & People Development:** Championed EHS excellence (HIRA, Aspect-Impact, REACH/RoHS, 5S), maintaining zero accidents; mentored 100+ employees through competency frameworks, 8D, 7QC and MSA/Gage R&R training.

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

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- QMS Internal Auditor — IATF 16949:2016, ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 (Bureau Veritas; S Cube Annotech; Kirthi Consultants)
- Magnetic Particle Testing (MT) Level II & Ultrasonic Testing (UT) Level II — Insight Quality Services (ISO 9001 & NCB/ISNT certified)
- Lean Six Sigma Green Belt — N.V. Bekaert SA, Belgium
- Eddy Current Testing (SS Wire) & Die Shop: Reworking of TC/ND/PCD — N.V. Bekaert SA, Belgium/Slovakia
- Project Management for Technologists — Bekaert Belgium (Stanwick Management)
- Systematic Problem Solving in Manufacturing — Mahindra Institute of Quality
- Stainless Steel Welding Made Easy — IIW-India, Mumbai

## INFORMATION TECHNOLOGY & DIGITAL TOOLS

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- **Enterprise Systems:** SAP-QM, Oracle NetSuite, ERP systems, Zoho-CRM (customer complaint management)
- **Quality & Statistical Tools:** Minitab, SPC Software, CAPA Management Tools
- **Productivity & Collaboration:** Microsoft Office (Word, Excel, PowerPoint, Outlook), MS Project, Slack, MS Teams, Zoom, Adobe Acrobat

## ACADEMIC CREDENTIALS

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- B.E., Metallurgical Engineering — Government College of Engineering (COEP), Pune | 2004 | 64.13%
- Diploma, Metallurgical Engineering — Government Polytechnic (GPP), Pune | 2001 | 78.60%

## AWARDS & RECOGNITION

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- Scholarship Recipient — Alegaonkar Trust & Sir Ratan Tata Trust (School & Engineering College), awarded annually
- Winner, Bumper Round — Executive Talent Search Competition, TMA Boisar
- Successfully led and organized the "Quality Month" celebration program continuously from 2015 to 2024

## PERSONAL DETAILS

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- Languages Known: Marathi, Hindi, English | Marital Status: Married | Passport valid till 2030