

Dr. Sandip Bhattacharyya

New Product Development | Quality Management | Customer Management | Relationship Management

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Key Skills

Research & Development

New Product Development

Customer Management

Total Quality Management

Quality Assurance and Control

Team Building & Leadership

Relationship Management

Risk Management

Process Excellence

Incident Management

Regulatory Compliance

Safety & Implementation

Total Productive Maintenance

Profile Summary

- ▶ Enterprising professional with **over 29 years** of experience
- ▶ Contributed as Technical Lead in R&D, Quality Assurance and Total Quality Management of Bearing Division
- ▶ Acted as Technical and Administrative Lead at Scientific Services; played a major role in operations encompassing BIS and LR standardization, Failure Analysis, Quality Inspection, Material Specification, Metallography, In- Process Control, Product Quality Assurance
- ▶ Awarded with Dr. K S Krishnan Fellowship from Department of Atomic Energy, Govt. of India, Post-Doctoral Fellowship from Max Planck Institute, Stuttgart, Germany and Essar Gold Medal from IIM
- ▶ Successfully **published over 70 international papers** and **filed 5 patents**; participated in **30 International Conferences**
- ▶ Analysed technological advances and industry trend to advise the organization's governing body in scientific matters
- ▶ Coordinated research activities by recruiting qualified researchers; managed personnel and evaluated performance
- ▶ Excellence in **transforming quality function into a robust quality unit** that delivers maximum output with zero defects and driving capability improvement of processes, systems & people through implementation of quality pillars
- ▶ Expertise in **managing strategic & operational performance** involving development & implementation of standardized quality systems in manufacturing as well as R&D sites
- ▶ Skilled in implementing framework of **quality standards and designed processes** for **dramatic improvements & other external strategic demands**

Soft Skills



Communicator



Thinker



Innovator



Collaborator



Intuitive

Personal Details

Date of Birth: 24th November 1967

Languages Known: English, Hindi, Bengali

Address: Flat No. 2/B, Aloktika Apartment, Raindranagar, Midnapur - 721101

Career Timeline (Recent 3 Associations)

Century Extrusions Ltd.
as Metallurgist

Tata Steel, as Chief - Scientific
Services (Resigned on
21/04/2019)

Jun'13 – Jun'14

Jul'95 – Jul'97

Since Jun'97

IIT as Research Associate

Education

- ▶ **Ph.D. (Metallurgy)** from IIT, Kharagpur in 1997
- ▶ **M.E. (Metallurgy)** from Bengal Engineering and Science University, Shibpur in 1990
- ▶ **B.E. (Metallurgy)** from Bengal Engineering and Science University, Shibpur in 1988

Work Experience

Since Jun'97 with Tata Steel

Growth Path/Deputations:

Jun'97 – Mar'03:	Head R&D – Bearing Division
Mar'03 – Dec'04:	Head Quality Assurance - Bearing Division
Dec'04 – Mar'08:	Head Metallography, Scientific Services - Metallurgical Lab, Scientific Services, R&D and SS
Apr'08 – Jun'10:	Head Improvement Group - Bearing Division
Jul'10 – Jan'11:	Head Metallurgical Lab & QA Group - Metallurgical Lab, Scientific Services, R&D and SS
Jan'11 – May'15:	Head, Scientific Services - Scientific Services, R&D and SS
Since Jun'15:	Chief, Scientific Services, Jamshedpur/Kalinganagar - Technology and New Materials Business

Key Result Areas:

- Leading the development and implementation of strategies for meeting upcoming needs of customer captured through yearly VOCs through new equipment/facilities, new set ups, digitalization and automation
- Steering the implementation of new techniques of characterization and testing YOY (Sinter Metallography at TSK, 7 Kg Pilot Coke Oven, IR- based Instant Moisture Analyzer for coal; overall 13 new test methods introduced in FY19)
- Ensuring 100% MOU compliance in meeting customer's specific requirements within time
- Directing the development of satellite labs (TSBSL Shahibabad, Tarapore) for faster technical service and support
- Acting as Custodian of product standardization entailing BIS and LR license requirements (FY19: 29 new grades/dimensions granted for inclusions, first time Lloyds Certificate for TSK (HSM and SMS))
- Working as Conscience Keeper of process control through Chemical and Mechanical Testing and Analysis of incoming, finished materials while ensuring zero non-compliant material getting dispatched to end customer
- Administering the testing of long products and 100% quality assurance of incoming/purchased bulk materials
- Imbibing a culture of improvement across all 10 labs including projects and daily management
- Facilitating compliance to quality measures and maintenance of appropriate requisite documentation and records
- Evolving guidelines / standard operating procedures to ensure maximum capacity utilization for overall productivity enhancement and minimum rejection
- Coordinating with cross-functional teams inclusive of Quality and Regulatory needs to proactively resolve the internal and external guidelines and regulations
- Investigating and assuring maintenance of product and technology trend information to assist in developing idea generation sessions to effectuate new concepts and products
- Controlling the R&D needs pertaining to innovation and productivity to support delivery of innovation revenue and productivity savings

Highlights:

- Set-up LD Slag Testing Lab for LD slag quality assurance and certification in collaboration with IBMD
- Headed the development and implementation of state of the art testing and characterization facilities at greenfield project of TSK catering to 3 MTPA in Phase 1; on the move to cater to TSK 8 MTPA
- Led a diverse group of 10 labs across TATA STEEL Jamshedpur and Kalinganagar to ensure compliance with technical requirements of testing, analysis and characterization in steel business
- Recognized as one of the first amongst core manufacturing labs to get attributed to NABL ISO IEC 17025:2005 early in 2005 and then revised version in 2018 for both Jamshedpur and Kalinganagar locations, global reliability, accuracy and competency in testing and characterization the brands
- Conducted metallurgical root cause analysis of end product defects and failed components for process improvement
- Rendered customer support across all business units of Tata Steel encompassing raw materials characterization of Sinter, Coke, Coal, Pellet, Iron Ore; drove product analysis and certification
- Proactively contributed in life enhancement of components through metallurgical characterization
- Acted as Lead ISO: IEC 17025:2017 across all labs including new incumbent labs of Kalinganagar
- Established knowledge repository through high impact factor journal publications, conference exposures, test methods
- Acknowledged for best sub-community in Knowledge Management, several APEX level awards for projects

Previous Experience

Jul'95 – Jun'97 with IIT, Kharagpur as Research Associate

Jan'95 – Jul'95 with Century Extrusions Ltd., Kharagpur as Metallurgist

Feb'90 – Dec'94 with IIT, Kharagpur

Growth Path:

Feb'90 – Nov'94:	Research Scholar
Dec'94 – Dec'94:	Research Associate

Professional Affiliations

- Life Member of Indian Institute of Metals
- Life Member of Indian Society of Non-Destructive Testing
- Life Member of Society for Engineering Failure Analysis