

Rashmi Ranjan Sethi

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QA CRM Lab,
Tata Steel Ltd, Kalinganagar.

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Education

2020-2022
M.TECH. IN MATERIALS ENGG.
Indian Institute of Science, Bangalore
CGPA : 7.7/10

2015-2019
B.TECH. IN METALLURGICAL ENGG.
Parala Maharaja Engineering College
Berhampur
CGPA : 7.98/10

2011-2013
XII
Ravenshaw Junior College
Percentage: 59.33%

Skills

CHARACTERIZATION
Optical Microscopy, SEM, XRD, EBSD.

METHODS
Statistical Analysis, Materials
Characterization, Failure Analysis

SOFTWARE
ANSYS, MS Office, Advance Excel, Origin,
Statistica

PROCESSING
Rolling, Extrusion, Thermal Treatment,
Alloy Processing

Coursework

Mechanical Behaviour of Materials
Electron Microscopy in Materials
Microstructural Engineering
Texture and Grain Boundaries
MySQL
Data Analysis

Experience

2022-2025 **Asst. Manager QA and Tech.** **Tata Steel, Kalinganagar**

CRM Lab Equipment stabilization

All laboratory equipment, including the turret punch press, CNC milling, Z150 robotic tensile machine, ICP-OES, Optical microscope, Stereo microscope, Depth profilometer and muffle furnaces has been successfully stabilized and calibrated

Testing Stabilization

Tensile testing, BH test, Band test, Bend test, Powdering, Roughness, Hardness, Metallography along with Chemical testing Coating wt., Sheet Fe/Cr By ICP-OES, Corrosion test (SST, Humidity Chamber).

New Product development and grade approval

All CRCA and CGL automotive grades IS 513 PART1, PART2, IS277, IS18385 BIS grade approval done following successful audit.

Audit and Client Experience

IATF, BIS, Several Automotive OEMs audits accomplished successfully.

Purchasing and Procurement

Procurement activities (UMC, USC, AMC creation and consumable purchases) have accomplished.

2022-2023 **Asst. Manager (Cold Rolling Mill)** **Tata Steel, Kalinganagar**

Optimized PLTCM trimming, reduced edge burr defect by 50 percentage. Improved TCM coolant pH, raising productivity by 30 percentage.

Project

2024-2025 **Lab Integrated management System**

Live dashboard containing visuals and tracking of all test data (both mech and chem). Auto-data flow for level1 lab Pc to MES system of TSL.

2023-2024 **Optimising Trimming parameter to eliminate Serrated edge**

Made problem solving guide. Reduce serrated edge upto 50 percentage in trimming coils

2021-2022 **Effect of asymmetric rolling on micro. of AM30 Mg alloy**

Project focusing on improving the mechanical properties of AM30 Mg alloy through asymmetric rolling and effect of microstructure.

Achievements

Annual Fresher Event

Organizer

Organized the Annual Fresher Event at PMEC Berhampur.

Inter-branch Cricket Tournament

Champion

Served as captain of MME department Cricket team.

Tata Steel Adventure Foundation

Participant

Successfully completed the outdoor leadership program trek to Mukta Top at an altitude of 11,800ft.