




Dr. N. Sivasurian

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Professional Summary

Senior lubricant technologist and R&D person with ~34 years of experience at Indian Oil Corporation Ltd.'s R&D Centre, specializing in industrial lubricants and specialty fluids. Deep expertise in Metalworking Oils, with a proven track record in product development, OEM engagement, and large-scale implementation. A major career achievement includes the **successful development and commercialization of hot rolling oils**, now operational in top steel plants such as **SAIL, Tata Steel, JSL, and JSW**—resulting from years of rigorous research, field trials, and process integration. Now seeking consulting opportunities to apply this depth of knowledge to industry challenges and innovation initiatives.

Core Areas of Expertise

- Metalworking Fluids (Hot/Cold/ Rolling oils, Cutting fluids, Quenching Oils , Etc)
 - Rust Preventive Oils, Rubber Process Oils, Engine Coolants
 - Agro Spray Oils & Other Industrial Specialties
 - Custom Formulation & Application-Specific Lubricant Design
 - Field Troubleshooting & Performance Optimization
 - OEM Liaison & Product Qualification
 - Lab-to-Plant Commercialization of R&D Products
 - Lubricant Quality Control & Testing (ASTM, ISO, BIS)
 - Technical Training & Mentorship
 - R&D Project Management & Cross-Functional Collaboration
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Professional Experience

Job Title	Organization	Duration	Location
Research Manager	Indian Oil Corporation Ltd. (R&D Centre)	~34 years	Faridabad, Haryana

Key Achievements & Responsibilities

- Led development and commercialization of high-performance hot rolling oils now adopted by major steel companies (SAIL, Tata Steel, JSL, JSW)
 - Designed and optimized cutting fluids, quenching oils, rust preventives Oils, and Speciality products for varied industrial needs
 - Worked closely with OEMs for technical validation, plant-level trials, and product approvals
 - Conducted root cause analysis and resolved lubrication-related failures in critical applications
 - Built and mentored teams of chemists and engineers within IOCL's R&D ecosystem
 - Translated lab-scale innovations into commercially viable and widely adopted products
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Education

- **Ph.D. in Chemistry**
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Certifications & Memberships

Member - Society of Tribologists and Lubrication Engineers (STLE)

Life member - Indian Society of Analytical Scientists

Consulting Services Offered

✅ Currently interested for consulting engagements in:

- Lubricant product development & field performance optimization particularly in the area of metal working fluids
- OEM liaison and support for product trials and approvals
- Troubleshooting lubrication issues in plant environments
- Customizing industrial formulations based on process needs
- Technical training for engineers and sales professionals
- R&D advisory for innovation and commercialization pathways
- Audits for QC, testing protocols, and regulatory alignment