

## 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.

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### 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 |
|-----------|--------------|----------|----------|
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**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

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## **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