

MOHAN INDRAGOPAL

Lab Head | Research & Development | Process Optimization

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SUMMARY

Experienced professional with extensive laboratory technical and operations expertise. Focusing on quality improvement, cost reduction, and efficiency. Minimizing material and chemical wastage and implementing line balancing in the workplace. Having good knowledge of analytical instruments like ICP-MS/OES/XRF/AAS/IC. My skills extend to Capex management. Create an ergonomic and safe working environment, maintain zero accidents, and diffuse safety culture according to Health & Safety and Environment. I am skilled in consumer testing for products such as ZDHC, MRSL, ROHS, REACH, SVHC, Water and Soil regulatory testing. I am well-versed in method validations. Have testing knowledge of environmental samples, biological samples, food, water, oils, petrochemical products, textiles, toys, paints, dyes, polymers, and rubber.

EXPERIENCE/ACCOMPLISHMENTS

Senior Research Associate-Soil and Water Research Lab-
College of Agriculture

Sultan Qaboos University

05/2016 - Present Muscat, Oman

- Oversaw a team of 10 researchers and technicians to achieve a considerable increase in laboratory efficiency through process improvements.
- Implemented a new data management system that enhanced reporting accuracy and reduced time spent on administrative tasks.
- Prepare and set up experiments.
Ensuring equipment and materials are readily available Ensure student and staff safety and adhere to laboratory procedures.
- Maintain lab safety; clean and organize laboratory in compliance with university regulations.
- Overseeing and monitoring lab equipment, instruments, and material are properly maintained, repaired, or replaced if required.
- Prepare and maintain students records, lab reports, manuals, syllabi, and lab portfolios. Schedule lab sessions and assist in proctoring exams.
- Involved in learning strategies and effective teaching applications Guide and mentor students on experimental techniques, theory, safety protocols, data collection, and analysis.
- Evaluating and providing feedback to students on their lab report assignments and their performances.
- Supervising, assisting, and clarifying the lab-related subject and assignments Mentoring on lab sessions, experiments, and testing them Evaluate the student's performance using appraisal tools.
- Support faculty on their research work and contribute to the development of professional activities.

KEY ACHIEVEMENTS



Successful Audit

Proactively involved in various Audits
*National Accreditation Board of Calibration and Testing Laboratory ISO17025 (NABL)
*Deutsches Akkreditierungs System
Prüfwesen GmbH (DAP - Germany)
*Bureau of Indian standards(BIS)
*Export inspection council of India (EICI)



Proficiency Testing

Significantly participated in the Proficiency Program conducted by IIS-Netherlands, APHA, FAPAS, LGC-UK, and PDO-Oman.



Research

Instrumental in securing a \$250,000 fund for Soil and Water research lab, which expanded the lab's capabilities and resources significantly.

SKILLS

Laboratory Management

Research and Development

Budgeting & Cost Control

Quality Assurance

Analytical Skills

Data Analysis

Method Validations

ISO17025

Analytical Chemistry

Water Quality

Soil Chemistry

EXPERIENCE/ACCOMPLISHMENTS

Laboratory Head-Inorganic Lab

SGS India Pvt Ltd

06/2004 - 04/2016 Chennai, India

- Managed day-to-day operations of a busy third party lab, ensuring 99% on-time delivery of test results to clients.
- Introduced a lean inventory system that cut waste by 25% and ensured continuous availability of critical lab materials.
- Collaborated with IT to upgrade laboratory information systems, boosting data accessibility and supporting better outcomes.
- Supervised a team of 10 laboratory personnel.
- Manage reporting, monitoring, resources, and laboratory personnel.
- Work closely with team members to provide effective solutions to support business and quality objectives.
- Ensure adherence to regulatory requirements, budgets, and schedules.
- Establish and improve procedures and processes by addressing issues and risks.
- Establish employee management solutions to improve productivity and efficiency.
- Ensure that the results of tests given are performed with the stipulated date and give back to the concerned chemist.
- Capable of performing audits, team management, conducting training sessions, and product development areas
- Ensure that the stocks of consumables/spares are maintained as per requirements.
- Ensure that all the logbooks are maintained.
- Preparing SOPs for test methods.
- Proper training needs for the section to QAM and LM. Ensure the QHSE in the concerned domain.
- Ensure that safe work practices are followed in the section. Ensure all the instruments are properly calibrated in the section for operation.

EDUCATION

Bachelor's Degree in Chemistry

University of Madras-DAGAC

06/1999 - 05/2002 Chennai, India

Master's Degree in Chemistry

University of Madras-Pachaiyappas College

06/2002 - 05/2004 Chennai, India

MBA in Total Quality Management-Part time

IIBMS

2009 - 2011 Pune, India

LANGUAGES

Tamil

Native



English

Proficient



ANALYTICAL EXPERTISE

Acquired Expertise in Various Analytical Methods, Calibration & Maintenance of Analytical Instruments / Equipment

XRF, ICP-MS, ICP-OES, AAS, TOC, IC, CHNS, GC-MS, UV-VIS Spectrophotometer, Microwave Digester, and so on. Maintenance & Calibration of ICP-MS, ICP-OES, AAS, XRF.

Involved in Method Validations of Metals as per ICH guidelines.

Analysis of various tests involved in water & soil quality checks.

Analysis of water samples as per IS, APHA, EPA methods.

Analysis of Soil and Sediments samples as per IS, APHA, EPA methods.

Trace metal analysis of Food and Agricultural products as per AOAC methods.

Analysis of precious and refractory Elements by ICP-MS.

Trace metal analysis in Crude oil, Naphtha, Motor spirit, High speed diesel using ICP.

Testing environmental, biological, food, water, oils, petrochemical products, textiles, toys, paints, dyes, polymers, and rubber samples as per APHA, EPA, AOAC, ASTM test methods.