

## **RESUME**

**SNEHAL M. BHARGUDE**

**MSc. Analytical Chemistry**

DOB: 8 February, 2001

¶ Juinagar, Navi Mumbai, India

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• **CAREER OBJECTIVE**

To obtain a challenging position in an environment where I can best utilize my skills and education and provide me an opportunity for personal development while making a real contribution to the progress and achievement of the organization.

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• **EDUCATIONAL QUALIFICATION**

| <b>FORMAL EDUCATION</b>   |                              |             |                        |
|---------------------------|------------------------------|-------------|------------------------|
| <b>Examination</b>        | <b>Institute &amp; Board</b> | <b>Year</b> | <b>Percentage/CGPI</b> |
| MSc. Analytical Chemistry | University of Mumbai         | 2023        | 8.23 CGPI              |
| BSc. Chemistry            | University of Mumbai         | 2021        | 6.99 CGPI              |
| H.S.C.E                   | Maharashtra State Board      | 2018        | 57.69 %                |
| S.S.C.E                   | CBSE                         | 2016        | 9.3 CGPI               |

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• **INSTRUMENTS HANDLED**

UV spectrophotometer, pH meter, Conductivity meter, Refractometer, Coulometric Karl Fischer instrument, PMCC Flash point tester, COC flash point tester, TAN Delta Tester, RPVOT, Oxidation Stability apparatus, Four ball tester, ICP, FTIR, Stabinger Viscometer, Colorimeter, Pour point tester, Electric Balance, etc.

- **WORK EXPERIENCE (September 2023 - Present)**

Officer in R&D and QC at APAR Ind. Ltd., Rabale

- **Projects:**

- Hands-on experience in ester synthesis, including reaction optimization, purification, and quality evaluation of specialty esters for industrial applications.
- Activation of Raney Nickel catalyst for hydrogenation applications in used oil treatment to improve color and odor.
- Development, Formulation, and performance testing of various industrial lubricant blends including Chain oils, Metal-working fluids (straight, semi-synthetic, synthetic), RPO-based oils, and specialty lubricants. Conducted Product benchmarking, compatibility studies, demulsification performance, rust prevention, foaming, and tribological evaluation for improved operational reliability.
- Method development for thermal analysis method (THW) to evaluate performance of oil and lubricants.

- **Quality Control:**

- AdBlue Product Quality and Compliance: Performed AdBlue testing in accordance with ISO 22241-2, including Biuret and Aldehyde determination, Phosphate content, trace metals via ICP, along with RI, Conductivity, Density, and insoluble content evaluation. Ensured regulatory compliance for SCR systems, enhanced product reliability, and supported customer approvals.
- Regulatory Water Quality Testing: Carried out chemical and physical analysis of drinking water and Effluent Treatment Plant samples as per MPCB regulatory guidelines, including parameters, such as pH, TDS/TSS, COD, BOD, Hardness, chloride, sulphates, oil & grease, Heavy metals, and microbiological checks where required. Ensured statutory compliance, accurate documentation, and timely reporting to support environmental and safety requirements

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- **IT LITERACY**

- MS-CIT
  - Microsoft Word, Advanced Excel, PowerPoint
  - English GCC TBC – 30 W.P.M
  - Marathi GCC TBC – 30 W.P.M
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- **TECHNICAL SKILLS**

- Good command over managing chemical instrumentation and executing laboratory experiments
  - Sound knowledge of various formulation process
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- **LANGUAGE SKILLS**

English, Hindi, Marathi

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- **DECLARATION**

I hereby declare that the information furnished above is true to the best of my knowledge.

**Place:**

**Date:**

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**Snehal Mangesh Bhargude**

