

TRUPTI DATTATRAY BANKAR

Navi Mumbai, Koparkhairane

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Professional Summary

Dynamic R&D Executive and Quality Control Analyst with extensive hands-on experience in oil and gas drilling chemicals, laboratory-based formulation evaluation, and HPLC analysis. Skilled in OBM and WBM mud testing, lubricity, extreme pressure, and high-performance analysis. Proven ability in work coordination, analytical problem-solving, and precise documentation. Adept at supporting product development, performance optimization, quality control, and compliance with industry standards in regulated chemical environments.

Work Experience

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| Fineotex Chemicals Limited | May 2025 – Present |
| R&D EXECUTIVE | |
| <ul style="list-style-type: none">• Conduct R&D and performance evaluation of oil and gas drilling chemicals for upstream applications.• Perform laboratory testing of Water Based Mud (WBM) and Oil Based Mud (OBM) systems.• Evaluate mud parameters including density, rheology, gel strength, fluid loss, and pH.• Conduct lubricity testing to assess friction reduction and torque control.• Perform Extreme Pressure (EP) testing to evaluate load-carrying capacity.• Carry out High Pressure and High Temperature (HPHT) testing for downhole simulation.• Analyze polyamine-based shale inhibitors for shale stability and hydration control.• Perform basic oil and gas laboratory tests such as alkalinity, calcium hardness, chloride content, salinity, and solids analysis. | |

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| Cheryl Laboratories Pvt. Ltd. | Sep 2021 – July 2024 |
| QUALITY CONTROL ANALYST | |
| <ul style="list-style-type: none">• Routine analysis of assay, dissolution, and related substances for solid and liquid oral dosage forms.• Analysis of raw materials through physical and chemical testing as per SOPs.• Calibration of laboratory instruments including HPLC, UV, FTIR, pH meter, refractometer, melting apparatus, potentiometer, Karl Fischer, and analytical balance.• Maintained instrument logbooks, HPLC column usage records, standard consumption, and temperature and humidity records.• Trained new employees in laboratory protocols, safety procedures, and instrument handling. | |

Education

SSC – 75.80%

R.F.Naik Vidyalaya school . Bonkode. Koparkhairane

HSC - 50.22%

R.F.Naik Vidyalaya school . Bonkode. Koparkhairane

Bachelor of science (B.S.) - Chemistry

K.J. Somaiya College of Science and Commerce, Vidhyavihar ,
Mumbai Graduated With 'A' Grade

Skills

- Oil and Gas Drilling Chemical Testing
- OBM and WBM Mud Analysis
- Lubricity, EP, and HPHT Testing
- Polyamine and Shale Inhibitor Evaluation
- HPLC Operation and Instrument Calibration
- Quality Control and Regulatory Compliance
- Reporting and Documentation
- Microsoft Office and Excel
- Time Management and Team Coordination

Languages

English, Marathi, Hindi