

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

Fineotex Chemicals Limited

May 2025 – Present

R&D EXECUTIVE

- 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.

Cheryl Laboratories Pvt. Ltd.

Sep 2021 – July 2024

QUALITY CONTROL ANALYST

- 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