

RAJ DALWALA

CONSTRUCTION ESTIMATOR – Quantity Takeoff, Cost Estimation & Bluebeam Support

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SKILLS

- **Quantity Takeoffs & Cost Estimation:** Detailed takeoffs for concrete, soil, asphalt, waterproofing systems.
- **Material Pricing & Bid Support:** Cost analysis, vendor pricing, scope reviews, bid comparison documentation.
- **Construction Drawings & Specs:** Interpreting technical drawings, CSI divisions, MasterFormat standards.
- **Microsoft Excel & Bluebeam:** Cost breakdown templates, data reports, drawing markups, digital takeoffs.
- **AutoCAD & Revit Knowledge:** 2D layouts, material schedules, model views, and construction coordination.

WORK EXPERIENCE

Quality Control Technician

Henry Company

February 2022 – December 2025

Ontario

- Conducted over 250 ASTM-compliant tests on air barriers, roofing & waterproofing materials, ensuring 98% consistency in performance metrics & improving laboratory testing throughout across ongoing quality operations.
- Verified raw material composition and product integrity via data-backed cost evaluation, supporting procurement and production teams while reducing operational variances by 12% and enhancing specification adherence rates.
- Reviewed & updated quality control plans & test protocols, providing technical reports & performance summaries that improved process traceability by 20% across manufacturing and compliance documentation workflows.
- Executed root cause investigations on rejected batches and implemented 15 corrective actions, decreasing defect indices by 25% and material wastage across composite membrane production lines maintaining audit accuracy.
- Collaborated with service & technical teams to clarify product tolerances, resolving 40+ client queries monthly & enabling integration of field data into product manuals for enhanced engineering and construction applicability.

Construction Materials Technician (Field & Laboratory)

Wood Environment & Infrastructure Solutions

May 2021 – February 2022

Ontario

- Conducted over 300 aggregate, concrete, and soil tests for Toronto-based infrastructure projects, ensuring laboratory precision and improving reporting by 27% through adherence to MTO and project testing standards.
- Performed field concreting assessments including slump, air content & compressive strength testing, verifying compliance across 90% of on-site pours & enabling daily calibration of sensors & field instrumentation systems.
- Prepared detailed field & laboratory documentation incorporating calibration, density & moisture data, streamlining review procedures by 20% and improving readability & audit alignment with project technical regulations.
- Ensured strict compliance with Ministry of Transportation guidelines, recording 100% sample traceability, documentation accuracy & reduction of retest intervals across geotechnical evaluation records & certification forms.
- Facilitated geotechnical investigations with material classification and borehole sampling, enhancing coordination between design and testing teams and contributing to 15 verified construction quality assessment deliverables.

Materials Testing Technician

Jems Multi-Tech Consultancy

June 2018 – July 2019

India

- Performed 400+ laboratory evaluations on soil, cement, and concrete materials, documenting strength parameters and correlation data that boosted test accuracy by 15% within structural foundation quality assurance programs.
- Executed plate load, slab load and standard penetration tests in geotechnical field conditions, reducing retesting cycles by 10% through the data calibration and alignment with BIS and ASTM field performance protocols.
- Prepared analytical test summaries & field logs summarizing project progress, improving coordination between laboratory & site engineers & supporting early verification of material suitability across infrastructure workflows.
- Maintained calibration logs and equipment certification records, ensuring 100% equipment compliance during client audits and strengthening laboratory readiness for multi-material testing and client verification procedures.
- Coordinated senior engineers in diagnosing performance inconsistencies, correlating dataset deviations, and formulating recommendations that enhanced client satisfaction and field investigation turnaround time by 25%.

EDUCATION

Master of Engineering (Civil Engineering)

University of Windsor, Windsor

September 2019 – December 2020

Bachelor of Engineering (Civil Engineering)

Birla Vishvakarma Mahavidyalaya Engineering College, India

May 2014 – May 2018

CERTIFICATIONS

- **Certified Associate in Project Management (CAPM®) - PMI**