



# MUHAMMAD RAFIQUE

QA/QC Engineer (NEOM Approved)

## Profile

### Career Summary:

I have approximately Seven years of experience in the construction industry, with a strong passion for mega engineering projects. My expertise lies in constructing tunnels, roads, and buildings, including diverse shapes and sizes, excavation, and support work for slope stability. I excel in planning, monitoring, and executing works under contract drawings and specifications, ensuring the highest quality and safety standards through control blasting and various tests such as shotcrete, concrete, rock bolts, and pullout. I am adept at preparing comprehensive reports and working collaboratively with colleagues at all levels. My extensive knowledge of project drawings and standards contributes significantly to overall quality control and project success.

## Experience

### QA/QC ENGINEER

Nov 2022 - Present

Fast Construction Company (FCC), Tabuk

#### 1- Project :

#### NEOM LOT 2 & LOT 3.

**Project Name :** FCS JV-NEOM Spine infrastructure Running Tunnels (Mountain section)

**Position :** QA/QC ENGINEER

**Client :** NEOM

**Consultant :** Bechtel AECOM

**Contractors :** FCS JV(FCC)

### Professional Responsibilities :

- Quality check Making Reports (WIR).
- Performing previous inspection of site work and materials.
- Making corrective action reports for the workforce on site to follow standard of the project.
- Reviewing shop drawing before submitting to the consultant.
- Dealing with consultant and client on daily basis.
- Keeping the records of all reports, test result and documents related to QA/QC work.
- Coordination with other departments for site activities.
- Ensuring project packages meet agreed specification, budget, and timescale.
- Provide technical advice to construction/Project Manager to solve issues on site.
- Making proposal for activities on site for area and submitting to client.
- Coordinating with client for all issue occurring on site.
- Making MR (Material request) for different material needed on site.
- Witnessing Concrete pouring and its relative test on site. Keeping records for all the test reports.
- Preparing close out reports for Issuing for internal NCR for nonconformance to project specification or

## Personal details

- MUHAMMAD RAFIQUE
- rafiquemalik60@gmail.com
- +966582032470
- Tariq Ibn Ziyad, Al Nahdah, Tabuk 47915, Saudi Arabia  
M 47915 Tabuk ID No : 2535044297
- July 20, 1995
- Yes
- Male
- Pakistani
- [linkedin.com/in/rafique-malik-6a4228235](https://www.linkedin.com/in/rafique-malik-6a4228235)

## Certification

- QMS ISO 9001:2015 Lead Auditor
- ISO 9001:2015 Quality Management System (QMS)
- OSHA and IOSH
- AUTO CAD
- Learning Program: Management Cert Prep: Project Management Professional (PMP)®
- GIS
- Geographic Software

■ Operating System

■ All Pakistan Geoscientists Association( APGA)

## Skills

Project Management:	●●●●●
Compliance and Standards:	●●●●●
Documentation and Reporting:	●●●●●
Problem-Solving and Root Cause Analysis:	●●●●●
WIR, MIR, ITP's, Checklist, Method Statement, NCR and TSMS	●●●●●
All Quality Testing and Supervision	●●●●●
Concrete Quality Control:	●●●●●
Drawing Review and implementation	●●●●●
Safety Protocols:	●●●●●
Material Testing:	●●●●●
Communication and Teamwork:	●●●●●
Earthworks and Embankments:	●●●●●
Leadership and Management	●●●●●
Data Analysis Tools	●●●●●
Waterproofing Systems:	●●●●●
Geotechnical Analysis:	●●●●●
Quality Management Software	●●●●●
CAD and Design Software:	●●●●●
Team Work and Adaptability	●●●●●

- Drawing. Witnessing different test on site e.g., Slump test, Standard penetration test, Concrete temperature, Schmidt hammer test.
- Following up with procurement department for material required at site.
- Submitting WIR(request for Information) for missing info related to project.
- Attending Internal Meetings. Managing and supervising project sites.

### QA/QC ENGINEER

Jun 2021 - Oct 2022

China Gezhouba group of companies(CGGC), Mansehra, Pakistan

#### 2 - Project :

#### Suki Kinari Hydropower Project (884MW)

**Project Brief :** 884MW Suki Kinari Hydropower project is worth of US\$ 1.9 billion and the major components of the project are a 54.5m high Asphalt CFRD structure with gated spillways, Underground Powerhouse and Transformer Hall, 19.4km Head race tunnel, Tailrace Tunnel, Access Tunnels, N-15 Roads Tunnel

**Position:** QA/QC ENGINEER

**Client:** SK Hydro

**Consultant:** Mott-MacDonald Pakistan, Peas consultants,

**Contractors:** CGGC

#### Professional Responsibilities:

- Head race, Tailrace, Audits and roads tunnels Excavation work, Drill and blast, Mucking.
- Inspection and supervision of drilling, charging.
- Supervision of survey for mapping. And jointly mapping with geotechnical engineers.
- Primary support including Inspection and supervision of first layer Shotcrete. Inspection and supervision of drilling for anchor bolt spacing and grouting
- Inspection and supervision of steel Ribs, girder, I-beams, and wire mesh installation.
- Inspection and supervision of second layer Shotcrete
- Inspection of tunnel crown and invert under break.
- Secondary Support including Geo textile fixing, waterproofing membrane joint structure.
- Reinforcement and Form work inspection, concrete pouring, cable trench and drainage work grouting work.
- Consolidation grouting, Curtain grouting, backfill grouting. Daily progress reports and monthly reports.
- Concrete and steel lining work. Material approval request) and RFI (request for inspection).
- Develop a method statement for the activity, including risk assessment, job safety environmental analysis.
- Test Plan and Checklist based on project specifications, weekly and monthly work & equipment progress.
- Report Preparing monthly Take-off sheets for BOQ.
- Inspections and test plans (ITPs) for civil and architectural work. Execute the work of sub-contractors.
- Secondary Support including Geo textile fixing, waterproofing membrane joint, Structure.
- Reinforcement and Form work inspection, concrete pouring, cable trench and Grouting work.

### QA/QC Engineer

Apr 2019 - Jun 2021

Construction Planning Management (CPM/FINITE JV Consultant, Skardu

#### 3 - Project :

# Languages

English



Urdu



Arabic



Improvement, Upgradation and Widening Of Jaglot-Skardu Road Project  
Project Location (JSR-S1)

**Project :** Jaglot-Skardu Road Project Highways Project (167KM) (JSR-S1)

**Position :** QA/QC Engineer

**Client :** National Highways Authority (NHA)

**Consultant :** Construction Planning Management (CPM/FINITE JV  
Consultant

**Contractors :** Frontier Work Organization (FWO)

## Professional Responsibilities:

### Tunnels Work

- Roads tunnels Excavation work, Drill and blast, Mucking.
- Inspection and supervision of drilling, charging.
- Supervision of survey for mapping. And jointly mapping with geotechnical engineers.
- Primary support including Inspection and supervision of first layer Shotcrete.
- Inspection and supervision of drilling for anchor bolt spacing and grouting.
- Inspection and supervision of I-beams and wire mesh installation.
- Inspection and supervision of second layer Shotcrete.
- Inspection of tunnel crown and invert under break.
- Secondary Support including Geo textile fixing, waterproofing membrane joint structure Reinforcement.
- and Form work inspection, concrete pouring, cable trench and drainage work, Grouting work.
- Consolidation grouting, backfill grouting. Daily progress reports and monthly reports. ? Consulting with Consultants engineer issues and description.
- **Roads work:**
- Supervision and inspection of Concrete for Bridges.
- Supervision of multi-cell culverts, retaining walls, slope stability, support work grouting, and installation of anchor bolt wire mesh
- Box Culvert Ensuring the desired qualities testing of coarse and Fine aggregate.
- Supervising Lab related work by performing the strength test of cement.
- Rock classification and Geotechnical work supervision and data collection.
- Supervision of culvert. Bridges and concrete walls.
- Supervision and inspection of road Earthwork and fdt test supervision.
- Inspection and supervise the retaining and breast wall bed testing and concrete.
- Inspection and supervise the subgrade, subbase, and aggregate base testing.
- Supervised stability test, GMM, Gmb, Testing etc.
- Supervised the bridge and culvert concrete pouring and slump testing. Supervised the Slope stability as per the drawing

### QA/QC Engineer

Feb 2018 - Apr 2019

Frontier Work Organization (FWO), Skardu

#### 4 - Project :

Improvement, Upgradation and Widening Of Jaglot- Skardu Road Project  
(JSR-S1), Highways Project (167KM)

**Project Brief :** Jaglot- Skardu Road Project Highways Project (167KM) (JSR-S1)

**Position :** QA/QC Engineer

**Client :** National Highways Authority (NHA)

**Consultant :** CPM, Finite Engineer (JV)Consultant

**Contractors :** Frontier Work Organization (FWO)

**Professional Responsibilities:**

- The quality of work and safe excavation through control blasting and conducting various tests for
- Shotcrete, Concrete, rock bolts.
- Supervision the structure and earth worked e.g., culverts, bridges, retaining wall and slope stability.
- Asphalt Base and wearing coarse. Designing and Performing of Concrete for Bridge and Box Culvert
- Performing the desired qualities testing of Coarse aggregate and Fine aggregate.
- Performing Lab related work performing the strength test of cement performing on bridge
- Geo-technical investigation as a site geologist.
- Performing of job mix formula for Asphalt base and wearing coarse Testing of concrete cylinder of all classes of concrete.
- Performing and preparation of sand equivalent test of sand for concrete Performing and preparing of last
- angles abrasion test of aggregate of concrete and base coarse.
- Performing and preparing of CBR, proctor test, FDT, S. Gravity, of coarse aggregate.
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**Trainee Engineer**

**May 2017 - Jul 2017**

Shanghai Shenkai Petroleum Science and Technology CO.LTD, Islamabad Pakistan

**6 - Project :**

Kohat Oil Field

**Project Brief :** Kohat Oil and Gas Field RIG#04

**Position :** Trainee Engineer

**Client :** PPL.LTD

**Contractor:** Shanghai Shenkai

Consultant : PPL

**Professional Responsibilities:**

- Evaluate physical and chemical properties of drilling fluids. Recommend maintenance of the drilling fluids.
- Maintain inventory, Coordinate drilling fluid supervision, Communicate with the rig crews. Communicate with the head office, Be responsible for company equipment

**Trainee Engineer**

**Jul 2016 - Aug 2016**

Oil and Gas Development Company Ltd (OGDCL), Islamabad Pakistan

**6 - Project :**

Dadu Pakistan

**Project Brief :** Dadu And Ranikot Oil and Gas Field

**Position :** Trainee Engineer

**Client :** OGDCL

**Contractor:** OGDCL

**Professional Responsibilities:**

- Reservoir section: core pass to gamma ray's analyzer and to fine out the permeability and porosity of core.
- Sediment ology section: Make the thin section of slide of sample and observe the rock mineralogy and petrography.
- Micro-Paleontology section: To identify the fossils etc. Geochemistry

section: Chemistry of sample.

## Education

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**B.S (Hons) in Geology (16 Year)**

**Apr 2013 - Aug 2017**

The University Of Poonch Rawalakot AJK, Muzaffarabad

## Professional Training

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- HEC Awareness EIOSH
- Basic Oil & Gas Operation EIOSH.
- Basic Process Control Strategies.
- First AID CPR & AED for Adults.
- Hydrocarbon Exploration Techniques Conference (APGA)
- University Fieldwork in basin Mianwali Field, Northern Pakistan
- Islamabad (SSSPC), Six-week internship Program with OGDCL Islamabad
- Field Six-week Shanghai Songhai Scientific Petroleum
- Two months of work on the Jabbori Hydro Power Project as a structure geologist with GRC Company)