



# MOHAMMED HAMZA MOHAMMED ALI

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## OBJECTIVE

I am looking for a challenging job with a rapidly growing organization that can provide me with a range of goals and job objectives within a contemporary and economical business setting.

## EXPERIENCE

- **A&T Engineering Pvt. Ltd.**

*Mar-2021 - Present*

Design Engineer

- Designing of Mechanically Stabilized Earth / Reinforced Soil wall using relevant codes such as BS, IRC, FHWA standards etc.
- Calculations of Safe Bearing Capacity and Settlement Calculations of soil ( From Geotechnical Investigation Report submitted by client)
- Preparation of Ground improvements schemes for soft soils using geocell and geogrid whichever is necessary.
- Preparation of MSE wall panel BoQ and soil reinforcements BoQ
- QA & QC Documentation (soil)
- Hands on experience in Estimation of soil Reinforcements like Geocell quantity
- Preparation of level sheets and wall area of MSEW structures
- Checking of the Elevation Drawing and design sections of MSE wall Structures and coordination with Darughtmen.
- Responsible in Handling Geotechnical Laboratory Testing of soils
- Preparing Geotechnical Report from tested soil samples
- Also Responsible for the Geosynthetic product Testing in the laboratory including (Geotextile, Geocell, Geostrips, Geogrid & Geocomposite etc.) using relevant standards such as IS,RDSO, BS - EN, ISO & ASTM etc
- Hands on experience in creating New UTM for the lab (including All grips for the Geosynthetic Materials testing)

- **Chennai Metro Rail Limited**

*Dec-2016 - Jan-2017*

Implant Trainee

## EDUCATION

- **Sharda University, Delhi NCR**

*2017 - 2019*

M.Tech Geotechnical Engineering,  
77%

- **Saveetha school of engineering, Chennai**

*2013 - 2017*

B.E Civil Engineering,  
76%

- **Islamia Higher Secondary School, Pernambut, Tamil Nadu**

*20011-2013*

SSLC & HSC

## DESIGN SKILLS

- - Design of RS wall & Gabion walls using IRC, BS, FHWA
  - Bearing capacity and settlement calculations of shallow and deep foundation,
  - Preparing Ground Improvements Scheme for weak soils using soil replacement , Geocell and Geogrid.
  - QA & QC Documentation,
  - Global Stability Analysis using ReSSA+
  - Geotechnical Laboratory Testing of soils,
  - Geosynthetics material testing using IS, BS -EN, ISO, ASTM, RDSO etc.
  - Design and analysis of Diaphragm walls, Sheet pile walls
  - Rock Mechanics\* (RQD / RMR )

## SOFTWARE SKILLS

- Plaxis 2D & 3D
- Stadd Pro
- Auto Cad
- Geo 5
- ReSSA+
- Ms Office

## ACHIEVEMENTS & AWARDS

- Earned a certificate in NPTEL online Program conducted in association with IIT Kharagpur on the subject Foundation Engineering

## PROJECTS

- **Designing of MSE wall**  
Construction of Four lane Green Field Delhi- Amritsar-Katra Expressway Pkg-VI under Bharatmala pariyojna
  - Designs of MSE wall
  - Calculation of SBC & Settlements and Report Submission
  - Global Stability (Full& Partial Height)
  - Cordination & Checking of Elevation Drawing
- **Mixing of Stone Dust in soil to Use as MSE wall Backfill**  
Construction of Eight Lane of Vadodara KIM Expressway (Kim to Ankleshwar Section)  
Objective was to reduce PI value & increase shear strength of soil then to use it as Reinforced backfill

## LANGUAGES

- English
- Tamil
- urdu
- Hindi
- arabic (Beginner)