

MONFRAULINE GOGOI

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PROFILE

I completed my B.Tech in Civil Engineering from NIT Silchar. I am in the first semester pursuing MS in BTCM at IIT Madras. I am the only child of my family hailing from Guwahati, Assam. As the Wiseman said, it is tough to reach the top but tougher still to maintain that spot so too I believe that since I made it to IIT Madras, my productive years at this hallowed institute would only propel and inspire me to enhance my skills and master the art and science of Civil Engineering and thus contribute to the field as profoundly, efficiently as possible. The challenge shall keep me motivated and focussed. Currently I am working on the topic "Construction Contracts and Claims Management - Automation of Contract Quality Assessment using Generative AI" under Dr. Murali Jagannathan.

EDUCATION

2023 – present	MS in Building Technology and Construction Management INDIAN INSTITUTE OF TECHNOLOGY, MADRAS
2018 – 2022	B.Tech in Civil Engineering, 8.05 CGPA NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR
2018	All India Senior School Certificate Examination (CBSE), 83.6% MAHARISHI VIDYA MANDIR, SILPUKHURI, GUWAHATI
2016	All India Secondary School Examination (CBSE), 10 CGPA MAHARISHI VIDYA MANDIR, PANIKHAITI, GUWAHATI

INTERNSHIPS

July 2021 – August 2021	Civil Maintenance Department of Numaligarh Refinery Limited, Category 1 Mini Ratna CPSE (online)
May 2021 – August 2021	Satyendra Nath Bose Summer Internship Program 2021, NIT Silchar (online)
May 2021	Application of Remote Sensing and Geographic Information System in Water Resource under Assam Survey and Settlement Training Centre (online)
December 2020	Brahmaputra Bridge Construction Division under PWD Guwahati (offline)
December 2019	District Territorial Road Division under PWD Bongaigaon (offline)

RESEARCH INTERESTS

- Construction Management
- Construction Contracts and Claims Management
- Dispute Resolution
- Construction Planning and Control

PROJECTS (B.TECH FINAL YEAR THESIS)

January 2022 – April 2022

PERFORMANCE OF PAVEMENT SUBGRADE USING LIME STABILISED SOIL

My final year project was on the topic "Lime stabilization of Clayey Soil" under Dr. Kh. Lakshman Singh Sir. Soil Stabilization is the alteration of the soil properties by chemical or physical means in order to enhance the engineering properties of the soil beneath the road or any construction projects. The key goal of the soil stabilization is to increase the bearing potential of the soil and its weathering resistance. Unstable soils may cause major problems for pavements or structures, therefore soil stabilization is necessary to ensure the good soil stability so that the load of the structure can be maintained effectively as well as saving time and money compared to method of cutting and replacing unstable soil. This paper presents an analysis of lime as admixture in improving Maximum Dry Density, Optimum Moisture Content and California Bearing Ratio. The addition of lime to clayey soil increases its overall strength that enhances its bearing capacity, increases its plastic limit which reduces its plasticity index which in turn increases the workability of the soil. Soil with high plasticity index has low bearing strength. Experiments that we performed were Specific Gravity Test, Atterberg Limit Test, Compaction Test and lastly California Bearing Ratio Test. We started out experiments from 1% to 5% lime and we obtained our Optimum values in 4% lime. The Maximum Dry Density Optimum Moisture Content increased from 1% to 4% of lime and then decreased at 5% of lime.

SKILLS

- AUTOCAD
- STAADPRO
- MATLAB
- C++
- C

LANGUAGES

- Assamese
- English
- Hindi
- Sanskrit

HOBBIES AND EXTRA-CURRICULAR ACTIVITIES

- NCC A Grade in C Certificate
- Trekking and Rock Climbing
- Rifle Shooting
- Reading Detective Novels
- Penchant for learning languages
- Playing Flute