

Keshav Kamboj

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OBJECTIVE

Experienced Geotechnical Engineer with a specialization in soil stabilization, ground improvement, and expertise in utilizing geosynthetic products. Seeking a challenging role to apply my skills and contribute to the success of geotechnical projects.

EDUCATION

IIT, Guwahati — M.Tech (Geotechnical Engineering)

AUGUST 2020 - JULY 2022

CGPA - 8.92

BIT, Meerut — B.Tech (Civil Engineering)

JULY 2013 - MAY 2017

Percentage - 83.84 %

EXPERIENCE

➤ **MTandT Limited, Noida — Executive Engineer**

AUGUST 2022 - PRESENT

- Led soil stabilization and ground improvement projects, implementing innovative techniques and geosynthetic solutions to enhance soil properties.
- Studying geotechnical investigation reports, analyzing soil conditions, and recommending appropriate stabilization methods.
- Designed and implemented ground improvement measures, including the use of geosynthetic reinforcements for slope stability and retaining wall applications.
- Prepared detailed project reports, highlighting the selection and performance of geosynthetic products in various applications.
- Utilized geotechnical software for analysis and design, with a focus on optimizing the use of geosynthetic materials.
- Conducted on-site inspections to monitor the installation and performance of geosynthetic products, ensuring compliance with project specifications.

- Worked closely with clients to understand project requirements and provided technical expertise in soil stabilization and ground improvement solutions.
- Designed the flexible pavement, formation layer of railways, reinforced embankment on soft sub-soil using geosynthetic products.
- Providing technical support to the sales team.
- Designed more than 25 projects, some of the major projects are under below -

S.No.	Client Name	Requirement of Client	Solution Provided
1.	AAI Surat	CBR available for native soil is 2.3%, their requirement is that CBR is to be increased to 15% below 150 mm from ground surface.	This was achieved by providing geotextile as a separation layer between subgrade and base layer. Base layer consists of 3 layers of geogrid along with (Native soil+ 2% hydrated lime + 30% EAF steel slag of size below 6 mm having CBR 32.1%) having depth as 300 mm.
2.	UPEIDA	Client provided a conventional design, based on that pavement need to optimized and there must be cost saving.	Pavement optimized by providing Geogrid PP 3030 at the interface of WMM and GSB along with 150 gsm Geotextile just below the geogrid for separation and cost saving is also achieved.
3.	Kalpatru Projects International Limited	Replace filter media behind bridge abutments, box culvert and retaining walls in railways (<i>EPC agreement for doubling between Khairar and Yamuna South Bank</i>).	For this case a technical proposal for geocomposite was prepared which was also approved by Railway in Kanpur region and will be implementing.
4.	Adani Logistics Limited	Ground improvement to improve the bearing capacity of subgrade for loads in range of 8 t/sqm at their warehouse facility – Moraiya near Ahmedabad.	Developed the customized design based on the given input data and same shall be validated by PLAXIS 2D to check for allowable settlement with both geogrid and geocell.
5.	Eastern Railways	Erosion control of the slope on Ahiran - Sujnipara Railway Doubling Project, West Bengal that will install quickly by replacing the stone pitching (conventional technique).	Proposed a technical proposal for slope stabilization/ erosion control by the application of reinforced geomat.

➤ **M/s Tushar Construction, Ghaziabad — Site Engineer**

Oct 2017 – Dec 2019

Name of Project	Location	Client	Project Features	Activities Performed
Restoration & development of four water bodies in the vicinity of Badkhal Lake	Faridabad (Haryana)	Faridabad Smart City Ltd.	Surveying, design, and construction of four water bodies including supply and laying of HDPE pipeline of 5 km length, construction of footpaths, ponds and horticulture work.	Material & manpower management, prepared daily and monthly progress reports, checked the quality of material, and planned the activities and project scheduled.

TRAINING

Firm Name	Location	Position	Duration	Project Features	Activities Performed
Supertech Limited	Meerut (UP)	Trainee	Two months (June 2016 – July 2016)	Layout, construction, and design of High Rise Tower at Meerut Sports City.	Monitoring of column casting, beam casting, slab casting, raft foundation casting and layout of column.

TECHNICAL SKILLS

- Soil stabilization and ground improvement
- Geosynthetic product selection and design
- Slope stability analysis
- Foundation design
- Laboratory testing

SOFT SKILLS

- Active Listening
- Communication Skills
- Time Management
- Discipline
- Punctuality

SOFTWARE SKILLS

- AutoCad 2D
- PLAXIS 2D
- SLOPE/W
- IITPAVE
- SIGMA/W
- HELICAP
- KENPAVE
- Rocscience RS 2
- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint

PROJECTS

S.No.	Name of Project	Project Level	Duration	Project Supervisor	Activities Performed
1.	Effect of chromium on the behavior of bentonite amended with organoclay	M.tech Project	June 2021 - May 2022	Dr. Anil Kumar Mishra.	Conducted various geotechnical experiments on the bentonite and bentonite amended with organoclay by using the different concentrations of chromium solution and distilled water and observing the effect on the various properties (Specific Gravity, Free Swell, Consolidation parameters, UCS, Liquidity Index, Plasticity Index) of both soils with an increase in concentration.
2.	Tunneling in difficult grounds in swelling rock and identification of swelling rock	M.Tech Project	May 2021	Dr. Sreedeeep Sekharan	Studied the behavior of swelling rock and created a model of the tunnel in a swelling material and analysis has done with and without a water table using RS 2 software.
3.	Planning and designing of a Duplex Residential Building	B.Tech Project	Aug 2016 – May 2017	Mr. Anuj Kataria	As per the guidelines of Meerut Development Authority, drawn a plan view and elevation view in AUTOCAD 2D software and then based on the dead load and live load designing of slab, beam, column, and foundation has been performed as per IS 456:2000 along with estimation and costing.

EXTRACURRICULAR ACTIVITIES

Leading a cricket team (MTandT Avengers), won the tournament and Best Batsmen Award.

NOV 2023

ACHIEVEMENTS

Prepared a technical proposal for geocomposite by replacing the conventional technique which was approved by North Central Railway, Kanpur region.

NOV 2023

CERTIFICATION

I, the undersigned, certify to the best of my knowledge and belief that:

- (i) This CV correctly describes my qualifications and my experience.
- (ii) I am committed to undertake the assignment within the validity of proposal.
- (iii) I did not write the terms of reference for this consulting services assignment.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

[Signature of expert or authorized representative of the firm]

Date: _____

Day/Month/Year