Abhilash Sanjay Ghumadwar

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PROFESSIONAL EXPERIENCE

• Mumbai Railway Vikas Corporation Ltd., (A PSU of Govt. of India, Ministry of Railways) (15,5)

(15,Sept,2020–Present) (22,Dec,2022–Present)

Senior Project Engineer

Execution of Station Improvement Work at Neral Station consisting of Buildings, Overhead Water Tank, Underground Water Tanks, Foot over bridge, Deck, Platform covering etc.,

- De-launching execution of FOB (N-Type Truss) at Kasara Station.
- Checking Designs of Station Improvement Work of Mumbai Suburban Railway (MUTP-IIIA) funded by AIIB.
- Project Engineer

(15,Sept,2020-21,Dec,2022)

- Site visits, Planning, Approval of Station Improvement Works of Mumbai Suburban Railway
- Preparing Quotations and Executing Geotechnical Survey.
- Involved in evaluation of Detailed Design Consultancy Proposal for Station Improvement Work.
- Checking Designs of Station Improvement Works of Mumbai Suburban Railway
- Preparing Quantity Estimation and Bill of Quantities (BOQs) for Station Improvement Work Tender.
- Involved in preparation of Works Tender Document and Evaluation for Station Improvement Work
- Execution of Station Improvement work at Neral Station of Central Railway.

Indian Institute of Technology, Kanpur

(August, 2018 – April, 2020)

Teaching Assistant

- Reinforced Concrete Design

(Spring,2019)

- Structural Dynamics

(Autumn,2019)

- Experimental Methods in Structural Engineering

(Spring, 2020)

- Stability of Structures

(Spring, 2020)

ACADEMIC QUALIFICATIONS			
Degree	Institution	Year	CPI/Percentage
M.Tech(Structural Engineering)	IIT Kanpur, Kanpur	2022	9.64/10
B.Tech(Civil Engineering)	Govt. College of Engg., Amravati	2018	7.89/10
XII(MSBHSE)	Shivaji Science College, Nagpur	2014	83.85 %
X(MSBSE)	Somalwar High School, Nagpur	2012	90.73 %

SCHOLASTIC ACHIEVEMENTS

- Secured 99.65 percentile in GATE 2018 among 1.5 lakh aspirants (AIR 529).
- Academic Excellence Award at IIT Kanpur (March-2020).

RELLEVANT COURSES

Structural Dynamics | Random Vibrations | Engg. Mechanics | Finite Element Methods |
 | Structural Health Monitoring | Earthquake Analysis and Design of Structures | Stability of Structures |
 | Strength of Materials | Structural Analysis | Design of Steel & RCC Structures | Geotechnical Engg. |

ACADEMIC PROJECTS

On Use of Peak Factors in Response Spectrum Based Modal Combination Rules for Seismic Response.
 (M.Tech Thesis) [Dr.Vinay Kumar Gupta]

- Generating Wavelet based time histories for a desired Target Spectrum.
- Modelling Non-Stationarity Peak Factor to determine Peak Floor Response of structure during Earthquake.
- Designing of Lateral Force Resisting System using
 Steel Special Moment Resisting Frame (SMRF) (Group Project)
 Earthquake Analysis and Design of Structures (CE 629)

- Modeled Five Story Office Building using member available in European and Indian Standard.
- Analyzed structure using SAP 2000, Designed using IS: 800-2007, IS: 1893(Part 1)-2016 and FEMA 350 -2000.
- Probabilistic Seismic Hazard Analysis (Term Paper)
 Earthquake Analysis and Design of Structures (CE 629A)

(April, 2019.

• Natural Excitation Technique-ERA (Term Project)

(April, 2019)

Vibration based Structural Health Monitoring for CE Application (CE 725A)

- Determined first natural frequencies and mode shapes of structure using Output Only Method in both longitudinal and lateral directions.
- Response spectrum analysis for floor acceleration (Term Paper)
 Random Vibrations (CE 721A)

(April, 2019)

• Experimental Study of Reinforced Concrete Beam Model (Team Project)

Experimental Mothodo in Structural Engineering (CF 623A)

(April, 2019)

- Experimental Methods in Structural Engineering (CE 623A)
 - Designed Prototype Beam for a given problem statement & modelled it using Similitude Laws.
 - Tested Model Beam to validate result against Theoretical Ultimate Load.
- B.Tech Project (April, 2018)
 - Experimental Investigation of Geo-Polymer Concrete Pavement Blocks
 - Studied chemical reaction taking place in Geo-Polymer concrete.
 - Determined proportion of material quantity desired for Pavement Block's target strength and cost of product.

INTERNSHIP EXPERIENCE

Balaji Structural Consultancy (Rajapeth, Amravati, Maharashtra)

(25,Nov,2016–25,Jan,2017)

- Developed reinforced concrete steel design worksheets on Excel.
- Assisted in analysis and structural designing using STADD Pro. in projects including residential, commercial building.
- Inspection of construction progress of hotel site as a Site Engineer.

TECHNICAL SKILLS

- Engineering Software: MATLAB, AUTOCAD, ETABS, SAP 2000, STAAD PRO, PRIMAVERA.
- Other Software: MS-WORD, POWER-POINT, EXCEL, LATEX.