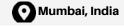
STRUCTURAL ENGINEER | CIVIL ENGINEER | PUNE UNIVERSITY









SKILLS

STRUCTURAL

- Producing structural analysis models from architectural drawings
- Breaking down complex problems through applying fundamental engineering principles
- Prioritising tasks to meet project deadlines
- Effectively communicating with people of engineering and non-engineering backgrounds

SOFTWARE

- ETABS used on various projects involving design & analysis of RCC framed structures
- STAAD PRO used to analyse steel & concrete elements
- RCDC used to design concrete elements shearwall,column,beam ,slab,column,pilecap,etc
- AutoCAD used to draft 2D engineering drawings
- Comprehensive understanding of Microsoft Office Suite

EDUCATION

MIT-SDE, PUNE

MBA/PGDM-CPM

Dec 2023 - Dec 2025

• CGPA-Currently pursuing

Vishwakarma Institute of Information Technology, PUNE

- Bachelor of Civil Engineering
- CGPA: 8.56 / 10

Oct 2017 - Mar 2020

Smt.SSP Polytechnic Chopda, Jalgaon

- Diploma In Civil Engineering
- Marks: 88%

Oct 2014 - Mar 2017

GN Systech Consulting Engineers Pvt. Ltd. | JAN 2024 - PRESENT Senior Structural Engineer | Mumbai,

MAJOR PROJECTS

CRYSTAL ANTARA, THANE, 55-STORY RESIDENTIAL SKYSCRAPER

- Optimized the design of a 55-story residential tower by reducing shear wall thickness while ensuring structural integrity.
- Performed **serviceability limit state** (SLS) and **limit state method** (LSM) checks to validate the design.
- Conducted structural analysis and design using ETABS software, adhering to IS codes (IS 456, IS 1893, Tall Building Code 16700).
- Completed a **peer review** of the structural design in collaboration with **Epicons Consultant Pvt. Ltd.**
- **Designed and detailed shear wall**s, slabs, and beams, ensuring compliance with industry standards.
- Performed gust wind calculations as per IS 875 (Part 3) for wind load evaluation.
- Positively communicated and coordinated outputs with other disciplines when optimising the design for client desires .
- Designed underground water tanks (UGT) and septic tanks following IS 3370 standards.
- Conducted **sensitivity analysis** using **upper-bound** and **lower-bound** methods to assess structural behavior.
- Performed dynamic analysis using ETABS and scaled base shear for static and dynamic cases.

PEER REVIEW & OPTIMIZATION OF PRE-ENGINEERED BUILDING (PEB)-M/S. SUPRIYA LIFESCIENCE LTD. -AMBERNATH

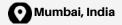
- Conducted peer review and structural optimization of a PEB structure.
- Verified proper load applications as per client requirements and design standards.
- Checked wind load calculations using hand calculations & MS Excel and validated results.
- Performed a detailed study of the STAAD Pro model and provided structural improvement suggestions.
- Assessed structural integrity by checking the **utilization ratio to ensure** safety and efficiency.
- Ensured compliance with IS 800 for steel structures and IS 1893 for seismic design.
- Reviewed connection design and member adequacy to enhance structural stability.
- Suggested cost-effective modifications to improve material efficiency without compromising strength.
- Collaborated with the client to address design concerns and provide structural recommendations.

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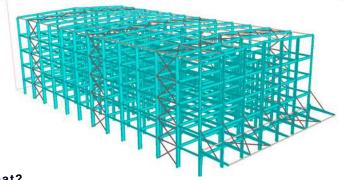






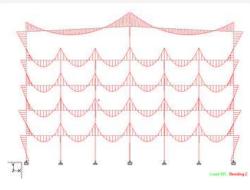


PEER REVIEW - PRE-ENGINEERED BUILDING (PEB)-AMBERNATH



What?

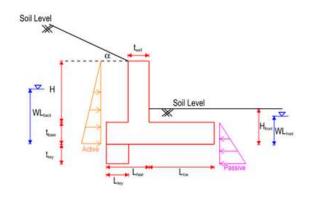
- Designed and prepared calculation reports for main portal frame members, purlins, and bracing in a PEB structure.
- Reviewed and provided detailed mark-ups for the drafting team to ensure accurate structural detailing.



How?

- Performed structural analysis using STAAD Pro and developed critical load case combinations in Excel.
- Calculated design loads and documented design iterations in MS Word for reporting.
- Reviewed and marked up structural drawings to ensure compliance with design standards.

RETAINING WALL DESIGN - UNDER GROUND WATER TANK & SPT



What?

- Design a reinforced concrete cantilever retaining wall that retains a sloped embankment of soil.
- Designed UGT and STP tanks using IS 3370 and the cantilever wall method for various structures.

How?

- Performed soil, hydrostatic and surcharge load calculations
- Performed stability checks on the wall (i.e sliding, overturning and bearing)
- Used hand calculations to derive the design actions on wall
- Verified calculations using Tekla Tedds
- Applied concrete design principles to size reinforcement
- performed structural analysis for UGT & SPT in G+55 floor buildings and other structures to ensure stability.

BLUE JET HEALTHCARE LTD-MAHAD, AMBERNATH-CHEMICAL PLANTS

What?

- Designed a chemical plant structure using STAAD Pro and ETABS, optimizing steel members as per structural requirements.
- Designed beams, columns, decking sheets, and mezzanine floors for reactor floors and pipe rack structures in the chemical plant.
- Applied loadings as per client inputs and arranged reactions based on tonnage for accurate design.
- Checked member capacities and ensured compliance with IS 800 and IS 1893 for seismic safety.

- Performed structural analysis and optimization in STAAD Pro and ETABS, ensuring cost-effective and safe design.
- Created and analyzed critical load case combinations for different plant structures.
- Verified steel member capacities using KL/R ratio from IS 800 table to ensure stability.
- Coordinated with clients and project teams to incorporate specific load requirements and optimize the structure accordingly.

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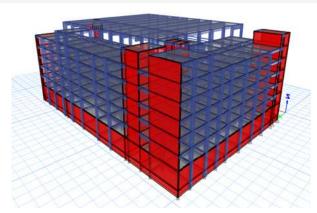






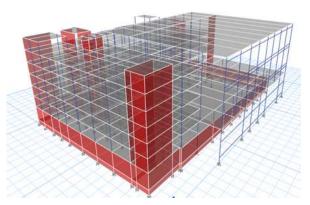


MULTI-STOREY SCHOOL BUILDING -MUSCAT, OMAN



What?

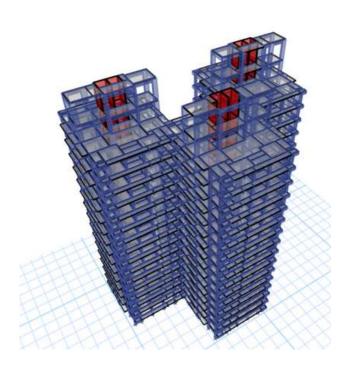
- Designed a school building in Muscat, Oman, with 2 basement floors for parking & swimming pool and 4 above-ground floors using ETABS.
- · Applied structural checks as per BS code, ensuring compliance with safety and performance standards.
- Designed a terrace floor with a golf course and other amenities, incorporating structural load considerations.
- Used post-tensioned (PT) beams in the auditorium and swimming pool areas to achieve the required clear spans as per client requirements.



How?

- Performed structural analysis in ETABS, applying wind and seismic drift checks for stability.
- Verified mass participation ratio, soft story behavior, and other structural integrity checks as per BS code.
- Used BS code load combinations to ensure accurate load distribution and proper load application.
- Optimized the structural system by incorporating PT beams in large-span areas to meet architectural and functional needs.

EBONY-ENSAARA METRO PARK ,PIPLA ,NAGPUR (G+15) RESIDENTIAL TOWER



What?

- Designed a G+15 residential building using ETABS, ensuring compliance with IS 456, IS 1893, and IS 875 (wind load checks).
- Prepared a comprehensive Design Basis Report (DBR) and developed detailed foundation drawings, RCC floor plans, and slab designs for structural integrity.
- · Coordinated with the client's structural team and architects to align structural design with project requirements.

- Performed structural analysis in ETABS, applying seismic and wind load checks as per IS codes.
- Developed and reviewed all structural drawings in coordination with the drafting team for accuracy.
- Ensured proper load path and stability through optimized foundation and slab designs.
- Worked closely with multidisciplinary teams to ensure efficient execution and adherence to design standards.

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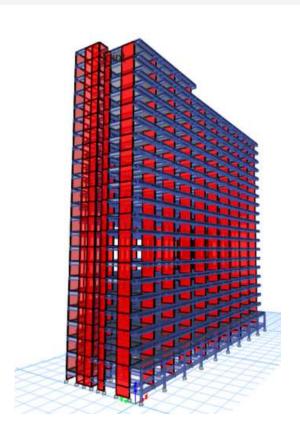








ACE SIGNATURE IT PARK-CIRCLE WAGALE ESTATE, THANE WEST. (G+20)



What?

- Designed a G+20 commercial building using ETABS and RCDC, incorporating shear wall and SMRF (Special Moment Resisting Frame) system for lateral stability.
- Performed structural analysis and applied all checks as per IS 456, IS 1893 (seismic), IS 875 Part 3 (wind load), and IS 13920 (ductile detailing).
- Coordinated with the client's structural team, architects, and other stakeholders to ensure compliance with project requirements.

How?

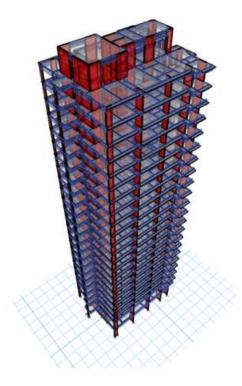
- Optimized the structural system for strength, stability, and cost efficiency while adhering to engineering standards.
- Performed seismic, wind, and serviceability assessments, ensuring compliance with IS 456, IS 1893, IS 875 Part 3, and IS 13920.
- Designed shear walls and SMRF elements to enhance lateral load resistance and ductile performance as per IS 13920.
- Reviewed and finalized structural drawings with precision and clarity to ensure smooth execution.
- Coordinated with multidisciplinary teams, facilitating efficient project execution and implementation.

ADITYA TRIDENT- (G+24) - RESIDENTIAL BUILDING ,NAGPUR

What?

- Designed a G+24 residential building using ETABS, ensuring compliance with IS 456, IS 1893, IS 875 Part 3, and IS 16700.
- Developed structural framing plans, coordinated with architects, and implemented the Special Moment Resisting Frame (SMRF) system for lateral stability.
- Performed static and dynamic analysis using the response spectrum method, base shear scaling, and conducted wind drift, seismic drift, and diaphragm displacement checks.

- Optimized the framing system for structural efficiency and architectural feasibility.
- Conducted structural analysis in ETABS, including static, dynamic, and response spectrum analysis.
- Applied base shear scaling and SMRF system to enhance seismic performance and lateral stability.
- Reviewed and validated structural models for compliance with all serviceability and design checks..

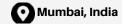


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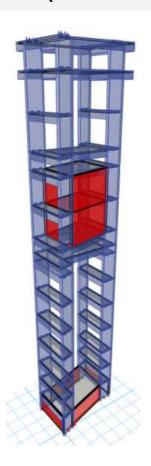


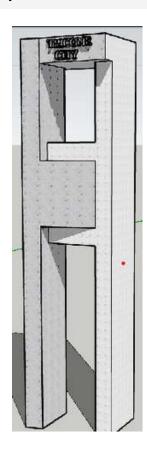






OHWT (45M HEIGHT)CLUB HOUSE - TRICONE CITY -INDORE





What?

- Designed a 45m overhead water tank using ETABS, ensuring compliance with IS 456, IS 1893, and IS 3370 Part 4.
- Applied all loads as per client requirements, including water pressure on tank walls, wind, and seismic loads.
- Performed structural safety checks, analyzing the tank in both empty and full conditions to ensure stability.
- Designed staging (support structure) and optimized column and bracing elements for seismic and wind load resistance.

How?

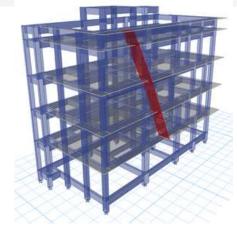
- Modeled and analyzed the water tank in ETABS, incorporating wind and seismic drift checks as per IS codes.
- Designed the bottom slab and shear walls to withstand hydrostatic pressure and structural forces.
- Performed reinforcement detailing for durability and crack control, ensuring long-term performance and water tightness.
- · Verified overall stability, strength, and serviceability by ensuring full compliance with Indian Standard codes.

BANGALURU GUEST HOUSE-DID CONSULTANTS (G+4)



What?

- Designed the RCC structure while maintaining the architectural elevation.
- Incorporated floating columns to achieve the required elevation.
- Prepared the Design Basis Report (DBR) for client
- Coordinated with the client for design approvals and execution.
- Developed foundation drawings and reviewed structural detailing (slabs, staircase, etc.)



- Used ETABS for structural analysis and design.
- Ensured compliance with IS 456 & IS 1893.
- Collaborated with architects to integrate structural solutions without compromising aesthetics.
- · Worked closely with the drafting team to ensure accurate detailing.
- · Verified and refined drawings before submission to ensure accuracy and constructability

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Sushila Consulting Engineers Pvt. Ltd. |

DEC 2023 - JAN 2024 Structural Engineer | PUNE,

- Applied extensive structural engineering expertise to the design and analysis of diverse construction projects.
- Developed and reviewed detailed **RCC drawings**, ensuring compliance with industry standards and project specifications.
- Collaborated with architects, contractors, and stakeholders to optimize structural designs and address potential challenges.
- Conducted structural assessments, providing recommendations for improvements and modifications as needed
- Performed quantity estimation and structural design using **STAAD.Pro**, contributing to the successful execution of residential apartment projects.

Freelance Structural Engineer

OCT 2020 - NOV 2023 Structural Engineer | Maharashtra

- Designed and executed over 30 residential bungalows using ETABS and STAAD.Pro, ensuring structural stability and compliance with relevant codes.
- Performed complete structural analysis and design, including load calculations, **foundation design**, and **beam-column** sizing as per client requirements.
- Developed detailed RCC and steel drawings, coordinating with architects and MEP consultants to ensure seamless integration of structural elements.
- Provided on-site execution support, overseeing construction to ensure adherence to design specifications and quality standards.
- · Optimized structural designs to enhance cost efficiency without compromising safety and durability.
- Ensured compliance with local building codes and IS standards, addressing site-specific challenges effectively.
- Collaborated closely with contractors and site engineers, resolving technical issues and facilitating smooth project execution.