

RAHUL AGARWAL

SUMMARY

Structural Engineer with about 12 years of experience in residential, commercial, infrastructural and industrial projects.

EMPLOYMENT

May 2008 – Present Capstone Consultants Pvt. Ltd. <i>Founder & Managing Director</i>	Mumbai, India
April 2005 – April 2008 Sharad R. Shah Consultants <i>Structural Designer</i>	Mumbai, India
May 2003 – June 2003 Airports Authority of India <i>Trainee</i>	Mumbai, India

EDUCATION

2000 – 2005 IIT Bombay <i>Bachelor of Technology in Civil Engineering</i> <i>Master of Technology in Structural Engineering</i> CPI: 9.17/10	Mumbai, India
2000 Delhi Public School, Mathura Road <i>AISSCE (Class XII): CBSE Board</i> Aggregate: 78%	Delhi, India
1998 The Scindia School <i>AISSCE (Class X): CBSE Board</i> Aggregate: 85%	Gwalior, India

STRUCTURAL AND DRAFTING PACKAGES

ETABS, SAFE, PCAColumn, EnerCalc, StaadPro, ANSYS, Risa Tower, AutoCAD, RebarCAD and MathCAD

ACADEMIC PROJECTS

Dual Degree Project (May 04 – April 05): Preprocessor in AUTOCAD

In this project an interface between AUTOCAD and ANSYS was created in the form of a software tool in VBA. This software tool automates the process of structural modeling and its use can considerably reduce the time and efforts in design of high rise structures.

B.Tech Seminar (Jan-Apr 03): Strategies for Controlling Vibrations of Structures

Advanced structural control mechanisms which use Active, Passive and Hybrid devices for earthquake and wind mitigation were studied. Their use and effectiveness in real life structures was also studied.

LIST OF PROJECTS

Residential / Commercial / Institutional

- Lodha Aurum, Residential Building, Kanjurmarg (G+24)
- Lodha Aurum, Grande Residential Buildings, Kanjurmarg (G+36)
- Lodha Supremus, Commercial Building, Kanjurmarg (B+G+14)
- Lodha iThink C, Office Building, Kanjurmarg (G+10)
- Elpro Housing, Residential Building, Pune (G+13)
- Elpro Global International School, Chinchawad, Pune (B+G+5)
- Lodha Casa Ignis, Residential Building, Thane (B+G+18)
- Lodha Casa Ultima, Residential Building, Thane (B+G+28)
- Nanotechnology Department, Mumbai University (G+3)
- CDKD Hospital Building, Mumbai (G+17)
- MTNL Telephone Exchange building, Vashi (G+5)
- Form Work for Sans Souci Residential Building, Mumbai
- Silver Skyline (G+18), Andheri (w)
- Lotus Jai Neptune (G+18), Malad (w)

Industrial

- Design of Site Assembly Shop for Nuclear Power project at Kalpakkam
- Domestic Cargo Complex, Santacruz Airport, Mumbai (B+G+1)
- Design of Power Equipment Manufacturing Plant, NBPPL, Chittoor (A.P.)
- Design of Fabrication plant for BHEL, Varanasi
- Design of Retrofits for LPG plant, ONGC, Uran
- Printing Press building, Times of India, Lucknow
- Printing Press building, Times of India, Nagpur
- Printing Press building, Times of India, Sahibabad
- Factory for J.V. Roulements, Vadodara
- Design of Steel Fabrication Facility for Bk Koks, Bhilai

Structural Assessment

- Structural assessment of R&D lab building for Godrej Sara Lee Ltd.
- Structural assessment of Rolls Royce facility at Turbhe for blast vibrations
- Structural assessment of DMS Plant for Rio Tinto at Chhatarpur (M.P.)
- Seismic Assessment of Office Building, Goldman Sachs, Mumbai
- Structural Assessment & Capacity Augmentation for John Deere plant at Pune
- Structural assessment of Halliburton facility at Barmer (Raj.)
- Seismic Assessment of Residential Buildings for Cipla Ltd. at Sikkim

Infrastructural

- Design of Telecom towers (4G deployment) for Reliance Industries Ltd.
- Design of Telecom towers for VIOM Networks Ltd.
- Design of Form work system for Mumbai Metro, Ghatkopar Station
- Conducted Scaffolding training program at manufacturing facilities of Reliance Industries Ltd (Vadodara & Jamnagar)
- Guyed Wind Masts and Latticed Towers, Shah Industries, Bangalore
- Design of Wind Turbine Towers for ABS Ltd., Mumbai
- Design of Solar Plant Structures for Ganges Internationale
- Preliminary Structural Design & Planning of Kurla Elevated Railway Line & Station

Global Projects:

- Broxbourne & Ware College Buildings, UK
- Carol Johnson Residence, California, USA
- Ramadoss Residence, Arizona, USA
- Royal Terrace Apartments, Guernsey
- Woods Residence, Arizona, USA
- Social Security Building, St. Kitts, West Indies
- Gemini Apartment Building, Dubai
- Pre-engineered Building, British Columbia, Canada
- Virtual Project Management, New York, USA

DESCRIPTION OF SELECTED PROJECTS

■ Commercial Towers, Lodha Group, Thane, India

- Project consisted of two towers, each 12 stories tall. Total built-up area of project was 1,200,000 sf.
- Analyzed the building using ETABS 9.1.6.
- Designed lateral load resisting system consisting of shear walls and gravity

load resisting system consisting of flat slabs and columns.

- o Designed spread and combined footings for the foundations.

■ **Printing press building, Times of India, Lucknow, India**

- o Project included a four story structure housing the printing machines, newspaper godowns and offices.
- o Analyzed the building using Staad-Pro.
- o Designed the structural elements including steel beams/girders, steel columns and concrete slabs.

■ **Domestic cargo Complex, Santacruz Airport, Mumbai, India**

- o Three storey structure including a basement with a built up area of approx. 1 lakh sqft.
- o Composite structure consisting of steel beam & columns, RCC retaining walls and RCC slabs was designed.
- o The structure was analysed using Staad-Pro and designed in accordance with IS-456, IS-800, IS-1893 & IS-875.

■ **Nanotechnology Department, Mumbai University, Mumbai, India**

- o Project was a four story structure consisting of moment frames
- o Analyzed the building using ETABS 9.1.6.
- o Designed foundation system consisting of concrete piles.
- o Designed all structural elements using IS-456 & IS-1893.