



SPECIALISTS IN  
**STRUCTURAL ENGINEERING**



## GET IN TOUCH



+91 9176972727



info@jacobengineers.in



www.jacobengineers.in



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## ABOUT US

Our skilled team offers innovative yet traditional structural solutions, using state-of-the-art tools for precise results. Adhering to global codes, we outsource services internationally and meet deadlines diligently. Our in-house lab ensures detailed development of solutions, delivering excellence every step of the way. Building the Future, One Structure at a Time - Unleashing Precision and Innovation in Structural Engineering Excellence.

- Technical Expertise
- Sustainability
- Adaptability
- Regulatory Compliance
- Ethical Standards
- Adhere to safety & Quality

**3000+**  
PROJECTS  
COMPLETED

**100+**  
EXPERIENCED  
TEAM MEMBERS

**600+**  
CLIENTS  
WORLDWIDE

Mr. Cibi Jacob completed his Civil Engineering degree from the College of Engineering Guindy, Anna University, Chennai. He pursued his master's in Structural Engineering from the prestigious institution, Indian Institute of Technology (IIT) Delhi

He was the recipient of the prestigious DAAD Sandwich Model Scholarship for taking up research work in Germany. At the Technical, he had carried out extensive research in the field of Earthquake Engineering

His research interests include Earthquake Resistant Design of Structures, Seismic Reliability, and Performance-based Design. Numbers of his works have been published in international journals. He has actively participated in many conferences and work-shops in the field of Civil Engineering.

He has worked with diverse projects scattered all over India. He was employed at Larsen and Toubro Construction division, where he has made significant contributions to many large scale industrial projects. His rich experience and deep technical expertise is reflected in his work.

**CIBI JACOB**  
CHIEF CONSULTANT



# OUR EXPERTISE

- 01 . Structural Engineering
- 02 . Structural Forensics
- 03 . Peer Review
- 04 . Construction Support
- 05 . Retrofitting
- 06 . Project Management
- 07 . Geo-Technical Services
- 08 . Surveying
- 09 . Material Testing
- 10 . Training
- 11 . Outsourcing

# 01



## STRUCTURAL ENGINEERING

Our structural engineering services cover a gamut of requirements like new construction of industrial, commercial, high-rise and residential buildings, bridges, tunnels and tensile structures and expansions. We use cutting-edge technology for comprehensive structural analysis and design that covers factors like fire resistance, vibration and dynamic response to natural disasters, seismic and blast induced forces.

- ◆ Steel Structures
- ◆ RCC Structures
- ◆ Pre-engineered Buildings
- ◆ Glass and aluminum structures
- ◆ Composite Structures
- ◆ Pre-stressed concrete structures
- ◆ Timber structures
- ◆ Light weight structures
- ◆ Precast structures



# 02

## STRUCTURAL FORENSICS

Our structural forensic methodology is adept in investigating materials, products or structures to find out the likely cause of failure or non-performance. Structural forensics involves the investigation of failures or performance issues in buildings, bridges, and other structures. Our expert team analyzes the causes of structural problems and provides solutions to prevent future issues, ensuring the safety and longevity of your assets.

- ◆ Investigation of Structural Failures
- ◆ Failure Analysis and Evaluation
- ◆ Expert Witness Testimony
- ◆ Remediation and Repair
- ◆ Code Compliance and Regulatory Compliance Assessment
- ◆ Lessons Learned and Preventive Measures
- ◆ Stability Report/Certificate



# 03

## PEER REVIEW

Architects or lawyers or developers looking for a neutral third-party opinion on structural designs can rest assured of transparent and unbiased evaluation. We conduct a thorough verification of the structural model and results provided and perform independent analysis based on the client's requirements. Peer review is a critical evaluation process conducted by experts to assess the quality, accuracy, and completeness of design. Our peer review services help ensure that your projects meet the highest standards of excellence and reliability.

- ◆ Validation of Engineering Calculations
- ◆ Assessment of Design Considerations
- ◆ Evaluation of Structural Safety
- ◆ Identification of Potential Design Flaws
- ◆ Compliance with Regulatory Standards
- ◆ Feedback for Improvement
- ◆ Value Engineering





# 04

## CONSTRUCTION SUPPORT

We focus on temporary structures design and on-time construction assistance, thereby ensuring safety of workers, smooth progress and avoiding failures. Our holistic approach ensures the stability of both permanent and temporary structures.

### WE SUPPORT ON

- ◆ Construction Documentation Review
- ◆ On-Site Inspections
- ◆ Construction Issue Resolution
- ◆ Quality Assurance/Quality Control (QA/QC)
- ◆ Structural Modifications and Value Engineering
- ◆ Construction Progress Reports and Documentation
- ◆ Design of Temporary Structures



# 05

## RETROFITTING

We understand that seismic retrofitting is much more complex than conventional repair or rehabilitation, which is why we carry out a streamlined retrofit analysis with team of experts. The first step is to assess the condition of the structure, and then we evaluate the seismic forces and finally choose the most suitable retrofit strategies and construction.

### WE ASSIST YOU WITH

- ◆ Strength evaluation using NDT
- ◆ Repairs
- ◆ Rehabilitation
- ◆ Seismic retrofitting
- ◆ Retrofitting for enhanced loads



# 06

## PROJECT MANAGEMENT

Project management entails organizing, carrying out, and overseeing different tasks. This is to achieve the successful completion of construction projects. Effective project management is essential for any construction to ensure the accomplishment of tasks with the needed level of quality, on schedule, and on budget. We are serving you with turnkey construction services. Being the best structural engineering company, we have excellent and proficient engineers who handle the projects.

### WE SUPPORT ON

- ◆ Project Planning
- ◆ Resource Allocation
- ◆ Vendor Management
- ◆ Team Management
- ◆ Time Management
- ◆ Cost Control
- ◆ Quality Assurance
- ◆ Risk Management
- ◆ Communication
- ◆ Regulatory Compliance
- ◆ Documentation and Reporting
- ◆ Safety Management
- ◆ Project Closure



# 07

## GEO-TECHNICAL SERVICES

With years of experience, Jacob Engineer have provided geotechnical engineering services for various projects in PAN India. We provide services from in-depth soil analysis to innovative ground improvement techniques, with tailored solutions for resilient foundations. Trust us to navigate the complexities beneath the surface, ensuring the success and durability of your construction projects.

### WE ASSIST YOU WITH

- ◆ Bore hole method
- ◆ Dynamic cone Penetration test
- ◆ Field CBR
- ◆ Plate Load
- ◆ Ground Improvement
- ◆ Field Density
- ◆ Standard Penetration Test (SPT)





# 08

## SURVEYING

Surveying stands as a vital component in both building and infrastructure projects, ensuring the safety, durability, and efficiency of structures. Jacob Engineers, top structural engineering firm, offering diverse services, emphasize surveying as a foundational element crucial for the success of construction projects. With our state-of-the-art equipment and advanced tools, we deliver error-free solutions. These cutting-edge technologies enable precise surveys, ensuring accuracy and providing detailed information for enhanced project insights. The list of surveys we perform

### WE SUPPORT ON

- ◆ Topographical Survey
- ◆ Contour Survey
- ◆ As-Built Survey
- ◆ Building Marking and Property Layout Marking
- ◆ Drone Survey



# 09

## MATERIAL TESTING LABORATORY

With decades of experience in this field, we possess an in-house laboratory setup. Our state-of-the-art lab facility is equipped with cutting-edge technologies, enabling us to conduct a wide range of tests and experiments on various testing methods. Our modernized and advanced equipment ensures the delivery of error-free solutions across all the services we provide. Consequently, we are able to offer comprehensive, end-to-end solutions to our clients, establishing us as a one-stop shop for turnkey structural engineering services. This helps clients to rely on us as we are able to provide proper and detailed reports. The tests helps to give zero error solutions are

### WE ASSIST YOU WITH

- ◆ Civil Material Tests
- ◆ Water Tests
- ◆ Road Work Tests
- ◆ NDT Tests
- ◆ Quality Management



# 10

## TRAINING

Build and rebuild our world to make it safer, more sustainable and more efficient. Discover new ways to take your existing skill set to new heights.

- ◆ Interactive Sessions
- ◆ Live Designing Sessions
- ◆ Knowledge Sharing by Industry Experts
- ◆ Fully Equipped Library
- ◆ On Going Project Site Visits
- ◆ BIM Modeling
- ◆ Career Support



# 11

## OUTSOURCING

Rendering top-notch outsourcing services while adhering to international codes for clients worldwide at their respective timings. Understanding the needs of our global clients, we propose the following services

- ◆ Structural Analysis & Design
- ◆ Peer Review
- ◆ Retrofitting Designs
- ◆ Structural Detailing (RCC and Steel)
- ◆ Value Engineering
- ◆ BIM Modeling
- ◆ Construction Support /  
Design of Temporary Structures
- ◆ Quantity Surveying / Project Estimations
- ◆ Finite Element Analysis
- ◆ Design of other structures (Aluminium, Timber, Bridges, Glass, Towers, Chimney, Silo, machine foundations etc.,)







ESTANCIA IT PARK  
CHENNAI

NORTH PLAZA BLOCK



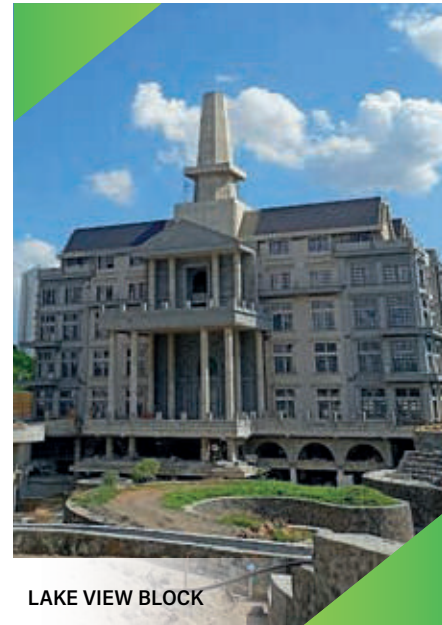
CASAGRANDE - VIVA CITY  
ELECTRONIC CITY, BANGALORE



MULTI LEVEL CAR PARKING



SOUTH PLAZA BLOCK



LAKE VIEW BLOCK



KOCHAR PROPERTIES - GAGAN CITY  
PORUR





**150MLD DESALINATION PLANT**  
CHENNAI



**GYPSUM SILO**  
ANDHRA PRADESH



**GROUT FACTORY**  
GUJARAT



**UTILITY BUILDING**  
BANGALORE



**INJECTION MOULDING FACTORY**  
BANGALORE



**FACTORY BUILDING**  
ALAMATHI

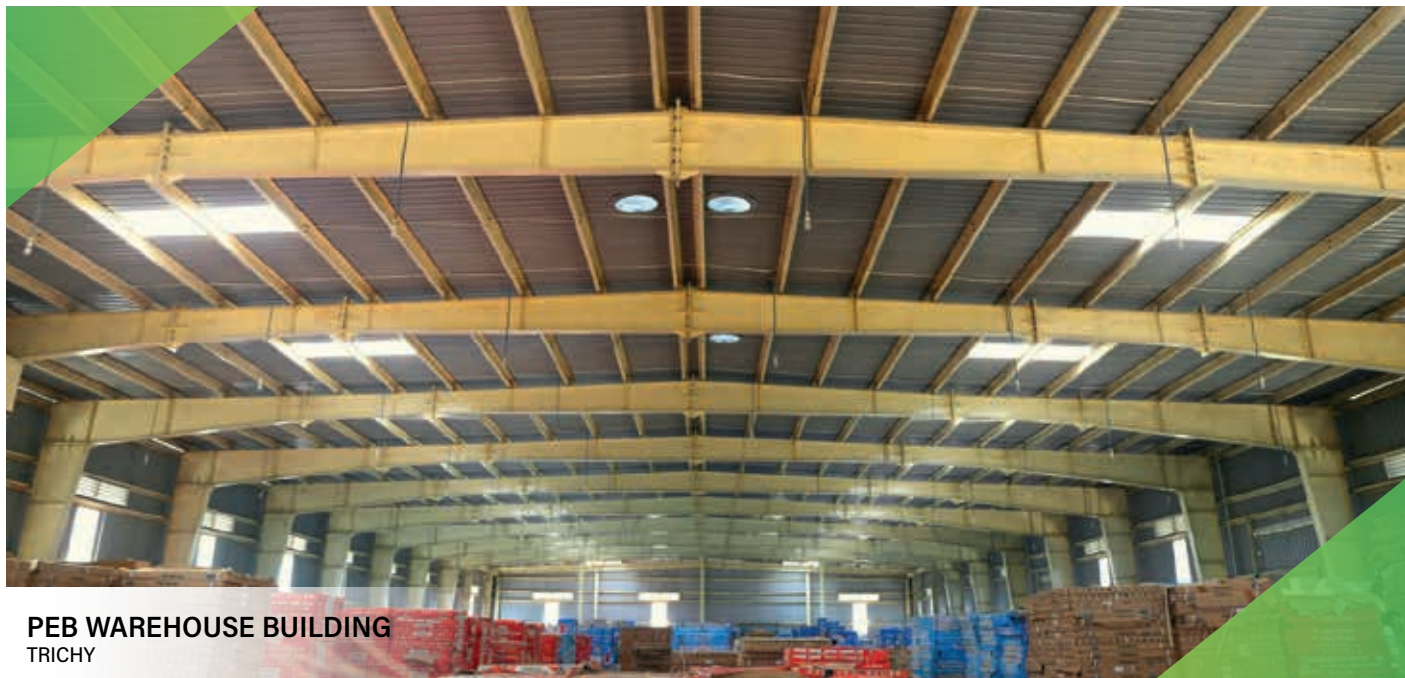




**PEB WAREHOUSE BUILDING**  
CHENNAI



**TASK PRESSING FACTORY**  
CHENNAI



**PEB WAREHOUSE BUILDING**  
TRICHY



**PACKAGING FACTORY**  
CHENNAI





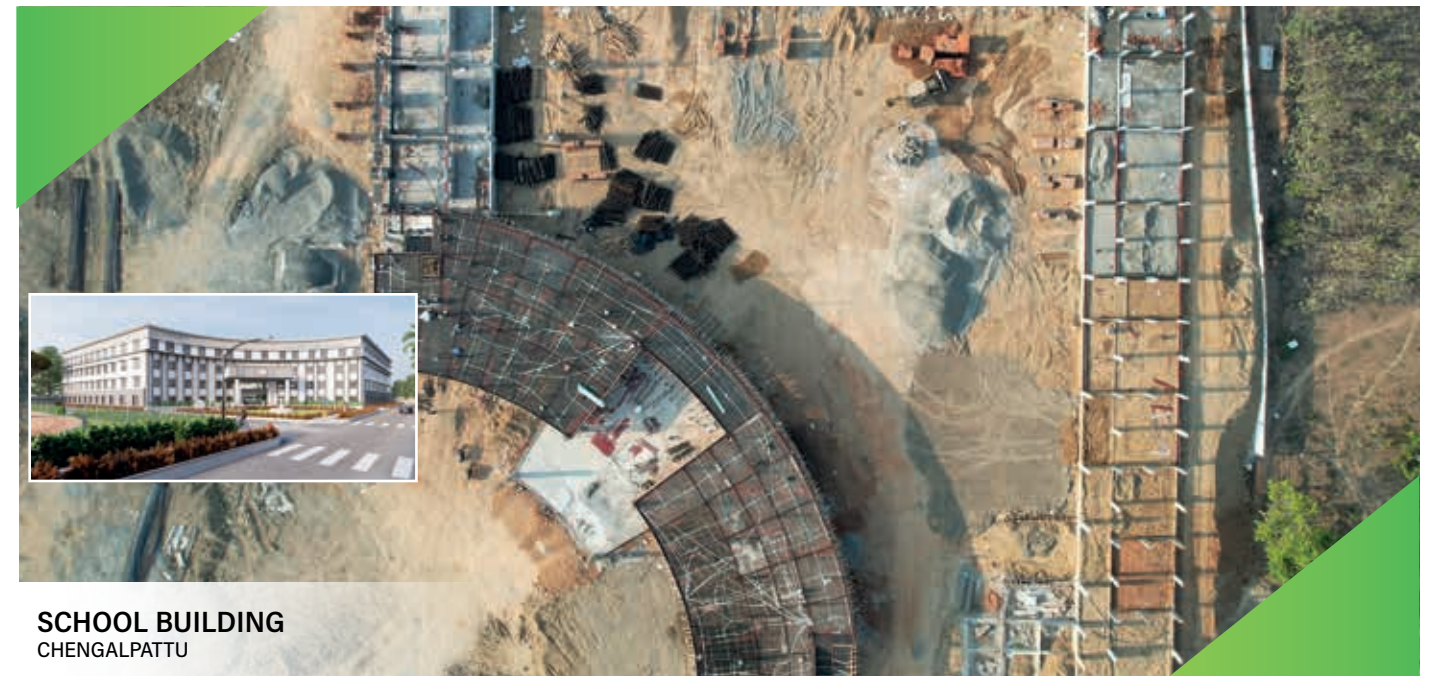
**SCHOOL BUILDING**  
PUTHUR



**SCHOOL BUILDING**  
MADHAVARAM



**SCHOOL BUILDING**  
PADAPPAI



**SCHOOL BUILDING**  
CHENGALPATTU





SCHOOL BUILDING  
KOVILANCHERI



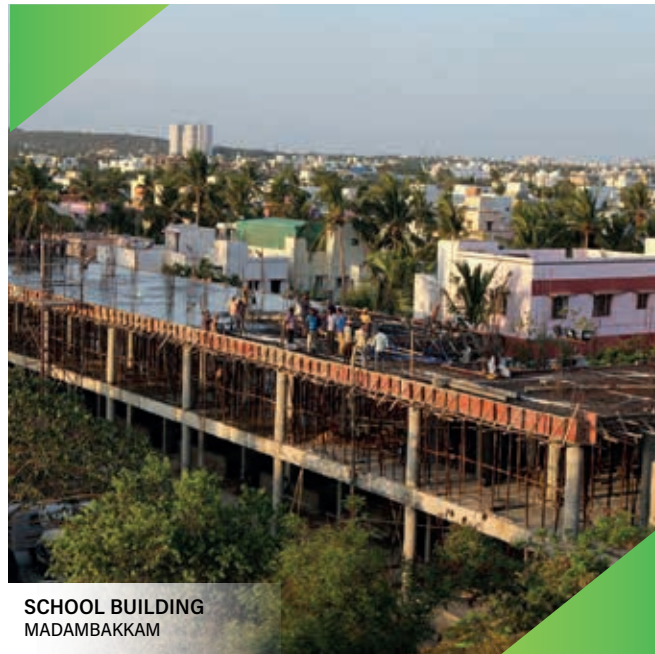
SCHOOL ADMIN BUILDING  
SELAIYUR



CAR FACTORY  
CHENNAI



SCHOOL AUDITORIUM  
PUTHUR



SCHOOL BUILDING  
MADAMBAKKAM



SALT FACTORY  
TUTICORIN





**WAREHOUSE BUILDING**  
CHENNAI



**CROMA SHOWROOM**  
VELLORE



**COMMERCIAL BUILDING**  
TAMBARAM



**COMMERCIAL BUILDING**  
SELAYUR



**COMMERCIAL BUILDING**  
PALLAVARAM



**MARRIAGE HALL**  
REDHILLS





**INDIAN INSTITUTE OF SCIENCE**  
BANGALORE



**FACTORY BUILDING**  
BANGALORE



**TAO TEMPLE**  
UTHANDI



**WAREHOUSE BUILDING**  
NOOMBAL



**CLOCK TOWER**  
TAMBARAM



**'Y' SHAPPED COLUMN**  
PADAPPAI



**TREE HOUSE**  
HOSUR





**MARRIAGE HALL**  
REDHILLS



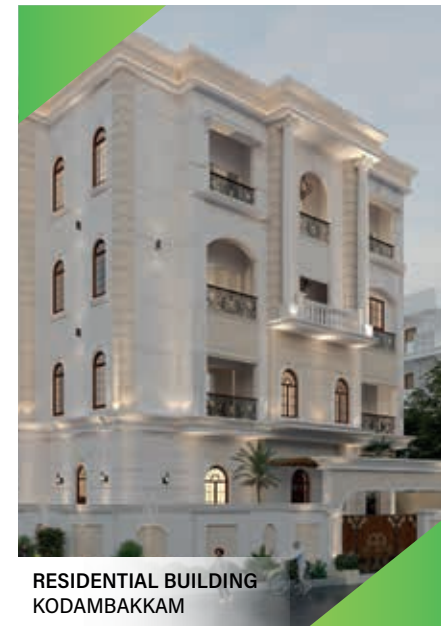
**BREEZE APARTMENT**  
MANNIVAKKAM



**MARRIAGE HALL**  
PUZHAL



**APARTMENT BUILDING**  
KK NAGAR



**RESIDENTIAL BUILDING**  
KODAMBAKKAM



**APARTMENT BUILDING**  
GUDUVANCHERI



# OUR GLOBAL CLIENTELE



## GLOBAL FOOTPRINTS:

### HEAD OFFICE

**CHENNAI**

No.7, 100 Feet Road,  
Rajeshwari Nagar Extn,  
Selaiyur,  
Chennai - 600073,  
India.

### BRANCH OFFICES

**BANGLORE**

No.10, 3rd Main Road,  
RMV II Stage,  
Bengaluru,  
Karnataka - 560094,  
India.

**USA**

No.276, 5th Avenue,  
New York - 10001,  
USA.