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**Balaji K**



# Experience

**Design Engineer - Trainee |** JUNE 2019 - Present

*Makeorbuy Contracting pvt. ltd., Peenya, Bengaluru*

* **COMPOSITE BEAM DEVELOPMENT**
* Worked as a part of Research and Development team for developing a new economical and low depth composite beam section.
* Learnt the design of composite beams and the impact of each element in design aspect.
* Studied the basis in which moment – load interaction curves are formed in SP-16, as a part of composite beam development.
* **GCC CLUB**
* GCC club is a 7 storey club building with badminton court, squash court, gym, restaurant and a terrace swimming pool. Designed the entire superstructure for **rhythmic vibration** in ETABS.
* **M-FAR**
* M-FAR is a 14 storey commercial building, in which I **controlled modal behaviour and storey drifts** by changing the position and type of bracing system.
* **MANUFACTURING PLANT**
* Designed the **roof structure** of beverage manufacturing unit of around 34000 sq.m area in two configurations – **Primary beam and Secondary Beam configuration** and **Space Frame**.
* **PANCHSHIL**
* Panchshil is a high-rise office building with 12 storeys, located in Pune. Designed the entire superstructure using ETABS in enquiry stage.
* **PHOENIX – EQUINOX**
* Equinox is a 30 storey Steel structure, situated near Hyderabad. It is an office building consisting of 4 towers.
* Understood the necessity of **automation** and developed an AutoCad script file for the fabrication drawings of columns in such a way that only entering the column ID will generate its fabrication drawing.
* Learnt the importance of **planning** and improved my **leadership skill** by heading a detailing team of 7 members and released drawings faster by proper planning and motivation, under pressure. Also, carried out reviewing and **checking of fabrication drawings**.
* **PHOENIX – 285**
* Phoenix -285, Hyderabad is an office building having 16 storeys. Designed **connections** for very few members as a training activity.

# Education

**Master of Engineering |** June 2017 - May 2019

*MEPCO Schlenk Engineering College, Sivakasi*.

Stream: Structural Engineering | CGPA: **8.75**

**Bachelor of Engineering |** June 2013 - May 2017

*Sri Sairam Engineering College, Chennai*

Stream: Civil Engineering | CGPA: **8.46**

**Higher Secondary |** June 2012 - April 2013

*S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai.*

Major: Biology | Percentage: **92.92%**

**Secondary |** June 2010 - April 2011

*S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai.*

Board: Matriculation | Percentage: **94.2%**

# 

# Areas of Interest

* Structural Analysis.
* Steel Structures Design.
* RC Design.

# Internship

**CHENNAI METRO RAIL LTD.**

* Studied the Structural and Architectural drawings of metro stations.
* The design and detailing of beams of metro stations are studied.

**SUJA DESIGNERS.**

* Learnt the basics of structural analysis.

# Accomplishment

* Won **Best Paper award** for paper on “Thermal and acoustic performance evaluation of bricks incorporating sewage treatment plant sludge” in International Conference on Innovations in Engineering, Science and Technology 2019 (ICIEST 2019).
* Published a journal on “Development of brick as a Thermal and acoustic resistant building component” in International Journal of Engineering Research and Applications.

# Abilities

* ETABS
* AUTOCAD
* STAAD PRO
* CAD SCRIPT

# References

* Haridoss B,

Design Engineer,

Geodesic techniques pvt. ltd.

Contact No.: 9750423653.

* Naveen B,

Design Engineer,

Makeorbuy Contracting pvt. ltd.

Contact No.: 8903043535.