**Email:** [krishbala49@gmail.com](mailto:abishekgurumurthy@gmail.com)

4, Kannan Avenue Main Road, Old Perungalathur, Chennai- 63

**Phone:** +91-9487046716

**Balaji K**

# 

# Experience

|  |  |
| --- | --- |
| JUNIOR ENGINEER – DESIGN (2 Years 6 months) From June 2019*Makeorbuy contracting Pvt. Ltd., Bangalore. (Geodesic Techniques Pvt. Ltd. Group)* | |
| Roles & Responsibilities | Modelling the shelter structure or commercial high-rise structure as per inputsCalculating loads and load combinations with respect to codal provisions and applying it properly on the structureAnalyzing the structure using Staad pro/Etabs and studying the load pathsDesigning shelters/ High rise structure includes design of members, purlins, sheeting and their connections in accordance with codal provisionsDesign of foundations by using standard excel sheets as per IS 456Design of machine foundations as per IS 2974 for equipments.Preparing excel sheets for design, if required.Checking fabrication drawings & reviewing Tekla model as per the design given. |
| PEB/Shelter structures | |
| Shelter 1 | Designed the curved roof of area 15000 SQM using truss as per IS 800Foundation design as per IS codes |
| Shelter 2 | Design of pitched roof truss of area 17000 SQM as per IS 800Design of Isolated Footing complying with IS codal provisions |
| Shelter 3 | Development of complex truss geometry for purlin free roofDesigned the pitched roof truss of area 21000 SQM as per IS codeDesign of foundation as per IS 456 |
| Manufacturing Plant | Design of roof (Area = 34000 SQM) in 3 different configurations – (i) Space frame, (ii) Truss and (iii) Primary and Secondary Beams as per IS codes |
| Commercial/ Tall structures | |
| Commercial Building 1 (G+3) | Design of Steel Beams, Columns and braces as per IS codesDesign of Machine foundation as per IS 2974 |
| Commercial Building 2 (G+17) | Designed the chiller platform level members and connections.Designed and strengthened the columns using stiffeners, which are inadequate due to inclusion of chiller platform.Identified and designed additional beams required for inclusion of walls by the client.Design of Isolated Footing complying with IS codes |
| Commercial Building 3 (B2+G+30) | Developed AutoCAD script file to automate the generation of fabrication drawingsDeveloped my leadership skill by heading a team of 7 detailers and delivered the fabrication drawings much before the deadline by proper planning and motivation, under pressureCarried out checking of fabrication drawings of beams, columns and shear walls |
| Commercial building 4 (G+6) | Designed Composite Beams, CFT columns and BracesDesigned Shear tab and web splice connectionPrepared Floor-wise design report as a part of Work Breakdown Schedule |
| Commercial building 5 (G+14) | Controlling Modal behaviour and story drifts under team lead’s guidance |
| R&D | |
| Connection Program | Developed a part of back-end python program for connection design automation |
| Composite Beam Development | Worked as a part of Research and Development team for developing a new economical and low depth composite beam sectionStudied the basis in which moment – load interaction curves are formed in SP-16, as a part of composite beam development |
| Automation – Self Interest | |
| Staad - Loading | Automating Staad editor input using excel sheets as per IS codes & staad standards |
| Autocad - Drawings | Developing autocad script file by using excel for automated drawing generation |

# Academic Profile

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE | INSTITUTION | YEAR OF PASSING | PERCENTAGE |
| M.E. - Structural Engineering | MEPCO Sclenk Engineering College, Sivakasi. | 2019 | 89 |
| B.E. - Civil Engineering | Sri Sairam Engineering College, Chennai. | 2017 | 84.6 |
| Higher Secondary | S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai. | 2013 | 92.9 |
| Secondary | S.R.G.D.S. Matriculation Higher Secondary School, Thiruvannamalai. | 2011 | 94.2 |

# Accomplishment

* Completed the courses **“The comprehensive ETABS professional course (RCC and Steel)” and “Structural Steel design of Pipe racks”** in UDEMY
* Completed the IIT madras certification course on **PYTHON**
* 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)

# Software Skills

* Analysis & Design – Etabs and Staad Pro
* Modelling & Drafting – AutoCAD
* MS Excel
* Cad Script
* Python

# Areas of Interest

* Steel Structures Design
* Automation

# Publications

* A journal on “Development of brick as a Thermal and acoustic resistant building component” in International Journal of Engineering Research and Applications (IJERA).
* A journal on “Experimental study of removal of Fluoride in water using Bio-Material” in International Research Journal of Engineering and Technology (IRJET)

# Languages

# Tamil Native Proficiency

# English Professional working proficiency

# Telugu Limited Proficiency

# References

* Haridoss B,

Design Engineer,

Geodesic techniques pvt. ltd.

Contact No.: 9750423653.

* Naveen B,

Design Engineer,

Makeorbuy Contracting pvt. ltd.

(Geodesic Techniques pvt ltd group)

Contact No.: 8903043535.