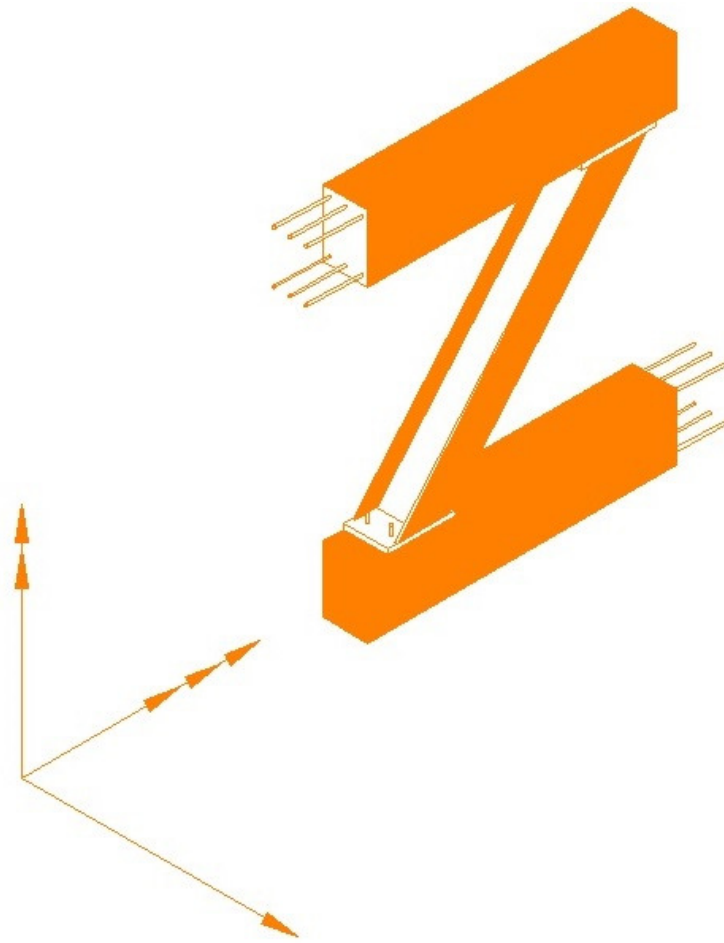# Z-Axis Engineering Solutions

Adding Depth To Solutions

Introduction

Z-Axis Engineering Solutions (formerly *Sindhoo Soft*), is an STPI (Software Technology Parks of India) registered company and was established in 1999. It is the fruit of strong marriage between Civil Engineering and Software. It is the brainchild of Mr.Someshwar Ganti and Mr. Rajmohan Bobde, both young professionals with vast experience in the Civil Engineering and Software, in various capacities and in various countries.

Z-Axis Engineering Solutions is into Automation of Civil Engineering works by developing customized software and also design & develop complex designs for clients in the field of Pre - Engineered Buildings / Metallic Buildings & R.C.C structures and have won accolades and appreciations for work done from overseas and domestic cliental.

Being structural designers and using vast experience in Designing of Civil Engineering structures clubbed with atop of the line Software Engineers, we have been able to provide relief to problems in constructions, as well as provided software solutions for the same.

In short we are the Best in the Industry to Design Industrial and Commercial buildings and we have designed complex Industrial projects such as Cement plants, Pharmaceutical plants apart from the residential and commercial structures. We also develop customized Civil Engineering related software that immensely reduces man hours.

Vision

Provide Unique Solutions & Services which are Better than the best. Civil Engineering fraternity should crave for our services and our products should be a VERB to them. We will "Grow Together" to become 500+ strong company in the next 5 years and be known for our Ethical values and time bound commitments, besides our excellence.

Strengths

∫ Design of Industrial, Commercial & Residential structures (Structural Steel & RCC)

∫ Detailing of Pre Engineered Buildings, Structural Steel Buildings

∫ Software Development for Civil Engineering companies, RCC & Structural steel Design and Detailing packages.

Software Products

Developing customized software for Civil Engineering Companies in Auto LISP, AutoCAD VBA, ObjectARX, C++, Delphi & C#.Net to expedite their design and detailing work, in hours rather than days and weeks.

SPAAD : *Steel Platform Analysis and Design.*

This helps the Design Engineer to design Steel Platform members in hours rather than days.

RCC Beam Detailer : *Program to Generate Beam Layout and RCC Beam Details.*

This helps a Detailer to generate Beam Layout and LS of the beams in the floor, it also generate Steel Take Off, Concrete Take off & Shuttering area of the floor.

I.Design & Detailing Works

Client: Sagar Cements, Mattapally, Nalgonda Dist.

(In association with Sanskruthi Design Concepts, Tarnaka)

Design & Detailing of:

    1)   RAW MILL BUILDING

Building with 45.35M ht. with vertical rolling mill, having duct supports at various levels.

    2)   CEMENT MILL BUILDING

Building with 38.0M ht. with two mill foundations, fan foundations etc.

    3)   BAG HOUSE BUILDING

Building with 9.236M supporting bag house system on 19.236M level.

    4)   COOLER BUILDING

Building with 25.30M having the total cooler equipment supported at 5.00M level floor of the building

    5)   COAL MILL BUILDING

Building with mill foundations, booster fan foundations etc.

    6)   RAW MILL COMPLEX

Duct load calculation and Design of Duct supporting RCC and steel tower structures to support Raw mill Inlet and outlet ducts, ESP inlet and outlet ducts, Bypass duct (at junction box) , Preheater down comer duct, PH fan outlet duct, GCT inlet and outlet ducts, etc.
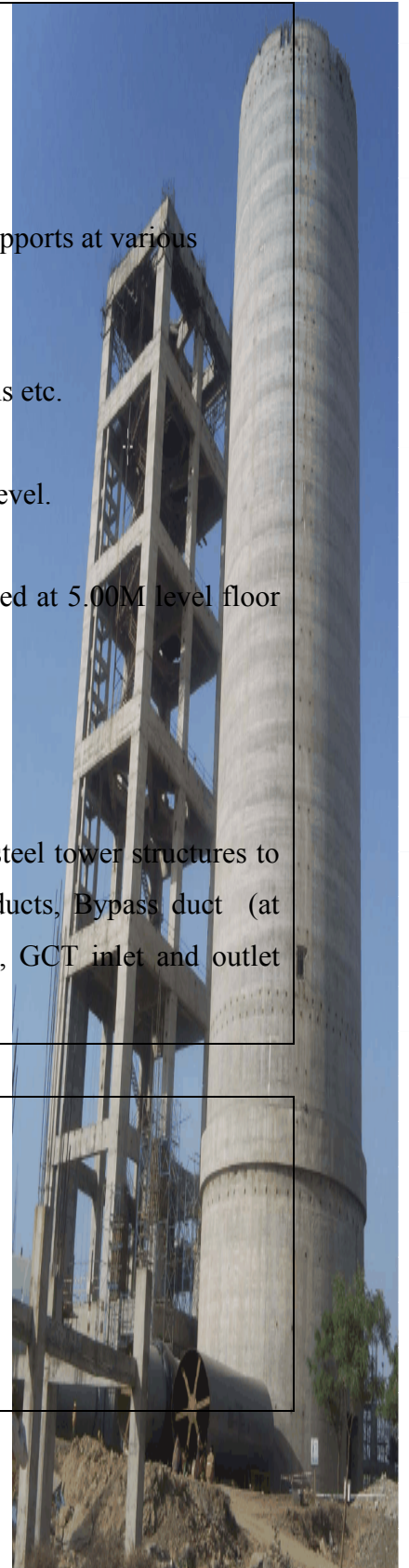
Client: My Home Industries Limited

 Design & Detailing of:

    1)   Covering Shed for Stacker & Reclaimers

    2)   Wagon Tippler House

    3)   Wagon Loading Area

Client: Bharathi Cement Corp. Ltd. Line2 (in association with FL Smidth)

Design & Detailing of:

      1)   Cement Mill Hopper Building

      2)   Cement Mill Building, Mill foundations, platforms, sheds and gantries etc.

      3)   Bag House Building, duct supporting structures, mill fans & booster fans foundation

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Client: InHaus Consultants, Bangalore

Design & Detailing of:

      1)   Apartment at Indiranagar, Bangalore

      2)   Residential Apartment at Bouduppal, Hyderabad

      3)   A Duplex House at Tukaramgate, Secunderabad

      4)   Duplex Houses at Attapur, Hyderabad

      5)   Group Housing at Gachibowli, Hyderabad

Client: The India Cements Ltd. (in association with FL Smidth)

Design & Detailing of Cement Mill Building

Client: Lalitha Cements, Nalgonda.

Design & Detailing of Coal Storage Silo and Laterite storage silo

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Client: Maruthi Cements, Nepal

Design & Detailing of Cement Storage Silo of 30 mts height &14 mts diametre (with SBC 20 /Sq Mt) falling under Seismic zone 4

Project: Delhi Public School at Gachibowli, Hyderabad.

Project: Junior College building at Metpally, Kareemnagar Dist.

Project: Commercial complex at Nizamabad.

II. Software Projects

Client: NCI Building Systems L.P, U.S.A

Project: *Main Frame Detailing program*
Description: This program will generate the Shop Details of a Main frame; generate a Full Scaled Cross Section of the Main Frame

Programming languages Used: Delphi, SQL

Client: NCI Building Systems L.P, U.S.A

Project: *End Wall Detailing system*
Description: This program will generate the Shop Details of the End Wall Frame of a PEB Building.

The program generates Dxf or Dwg drawing files that can be edited by AutoCAD if required.

Programming languages Used: Delphi, SQL

Client: NCI Building Systems L.P, U.S.A

Project: *Building Detailing System*
Description: This program will detail a Box shaped PEB Building, this will generate Erection Drawings (Anchor Bolt Plans, Wall/Roof Framing And Sheeting plans) Shop sketches of the Main Frames & End Walls of the Building, also generates a Bill of Material of all the parts of the building.

Programming languages Used: Delphi, SQL

Client: NCI Building Systems L.P, U.S.A

Project: *Software Development*
Description: Building Detailing System for P.E.B building (to generate Erection Drawings, Shop Drawings, Bill of Materials etc)

Client: Robertson Ceco Building Corporation, U.S.A

Project: *Software Development*
Description: CMI Automation program in Auto LISP, to automate the Generation of CMI (conditional Matrix interface) files of the Client

Client: FL Smidth Designs

Project: *Software Development*
Description: Design modules for RCC elements like column, beam, slabs, pedestal, footings and walls

Client: FL Smidth Designs

Project: *Software Development*
Description: Analysis & design of Kiln foundations with Solid & H type piers

Client: FL Smidth Designs

Project: *Software Development*
Description: Analysis & design of open and closed cable tunnels, with side walls, base slab and top slab members

Client: FL Smidth Designs

Project: *Software Development*
Description: Analysis & Design of Conveyor Galleries elements like Trestles, Beams, Gantries, walk ways, roof members, and foundations etc

Client: FL Smidth Designs

Project: *Software Development*
Description: Analysis & Design of Compressor House elements like Beams, Columns, foundation etc

Client: FL Smidth Designs

Project: *Software Development*
Description: Analysis & Design of Pipe Rack Galleries elements like Trestles, Beams, foundations etc.

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