



ENGINEERING SERVICES

COMMITTED TO EXCELLENCE IN ENGINEERING

ENGINEERING DESIGN & SIMULATION

PoleVault Technologies Pvt. Ltd. is engaged in IT and Engineering Services with focus on end-to-end solutions in Structural and Mechanical design solutions for customers in India and abroad. Having worked with International Engineering companies, we have evolved processes for excellent service in the System Design & 3D-Modeling, Engineering Analysis and Bill of Materials, and even helped them understand issues ahead of fabrication / erection.

PoleVault focuses on quality, privacy and timely delivery of the design drawings. PoleVault has established a sound base of 2D and 3D Computer Aided Design, Drafting (CADD) systems and sound processes for development from initial concepts through to final design solution with confidence.

In CAD, PoleVault's staff has experience in 3-D modeling and Simulation especially the Engineering Design viz. Structural, Thermal, Harmonic, Transient (Time-varying) Dynamic. This expertise has been built on years of experience in solving engineering problems of Railway Plants, Powerhouse structures, turbine and generator barrel casings and scroll casings of Power Generation Units of major Hydro Power organizations in India, French Engineering Companies, Telecom Giants in US and India, and Indian Defence Labs.

PoleVault specializes in not only in the Engineering Design, but also helps organizations build sound engineering systems for the optimization of both Capex and Opex.

OUR FOCUS

Focus of PoleVault is: intertwine Engineering solution into the regular processes of the organizations and solve their pain points, and productivity issues. We clearly understand that technology has to give definite benefits to the customer. Therefore we sincerely work for the expected end result by deploying the right tools and delivering high quality services. The design development cycle includes strict Quality Assurance iterations. In addition to this, PoleVault Beta pro-

grams involve rigorous customer feedback and pre-release testing including defect fixes. This means the end Design is verified and tested in-house in PoleVault before it is finally released to the customer.

MODELING & DESIGN

In Engineering Modeling and Design, we cover the following areas, but are not limited to:

- a. 3D Modeling in CATIA V5, AutoCAD, and Pro/Engineer Wild Fire 3.0
- b. Structural Models & Design - Civil and Aerospace
- c. Finite Element Analysis - ANSYS, NASTRAN, ABACUS - Thermal Analysis, Structural Analysis, Computational Fluid Dynamics (CFD) Analysis, Harmonic Analysis, Transient Analysis.
- d. Algorithm development for geometry and shape generation in Graphics pre-processors
- e. Algorithm and parametric programs for post-processing the results of a Finite Element and Finite Volume applications,
- f. Modeling and design of Industrial Piping Systems and their implementation

DRAFTING

In the area of Drafting, the domain of your drawings is not an issue at PoleVault. Once the requirements are received, the factors that given utmost importance are: Objective of the drawing, Independent Drawing Components, Assembly requirements, Layers, Colors, Sheet sizes, and Standards.

This process involves setting of standards for drafting that are universally accepted or are fine-tuned to customer's specific requirements. A number of iterations are done with the customer and details explored and worked out to the point of delivery in terms of expected output against given requirements. At PoleVault we are focused on effective delivery to meet the requirements of our customers to:

- i. Maximize the value being added by our work,
- ii. Create competitive advantage for our customers by reducing associated costs.

Design drafting includes

- a. 2D and 3D Modeling, visualization
- b. Detailed Design & Fabrication Drawings
- c. Bill of Materials and Quantities
- d. Site specific Erection and Fabrication notes

OUR APPROACH

PoleVault works to solve customer's problem in an efficient and innovative way. We first understand the project in its completeness, including stated and implied objectives, before starting the design and drafting process so as to put appropriate quality checks and deliver maximum quality in the first go.

Each engineering design problem and associated drawings are audited by senior engineers for further quality checks based on the standards laid out and as finalized with the customer according to the scope and requirements of accuracy. The quality process involves checking and rechecking of the design and drawings by a team of professionals and an auditor who is constantly in touch with the customer for any specific changes that customer might request during the process or otherwise, before shipment.

WE, THE PEOPLE

Our people possess an 'in-depth' understanding of Engineering Systems functionality and their business objectives, with specific expertise ranging from conceptual design, development and analysis, through to detailed drafting and providing advice for erection, fabrication and / or manufacture.

Privacy and confidentiality of customer data is prime for us and they are handled accordingly with utmost care and responsibility. Each team member at PoleVault is committed to safeguard the intellectual property of the customer. We, at PoleVault, have in-built clauses in the Non Disclosure Agreement with the customer to ensure privacy of drawings and design data and return the same once the work is completed.

CUSTOMERS

PoleVault's expertise has been built on years of experience for working as Consultants and / or Service Providers for Engineering Design problems of Railway Plants, Powerhouse Structures, Turbine and Generator Barrel Casing, Scroll casing of Power Generation Units, and other special Steel and RCC Structures and Machine Foundations for

- a. Legris India Pvt Ltd, Gurgaon (A Parker-Hannifin group co.)
- b. Service providers to Sprint and T-Mobile in Texas, USA
- c. IRCON International Ltd. / Rail Coach Factory, Kapurthala
- d. GTL Infrastructure Ltd.
- d. Vodafone Essar Group
- e. Nathpa Jhakri Power Corporation,
- f. Satluj Jal Vidyut Nigam Limited, and
- g. Indian Defence Labs like Terminal Ballistics Research Lab



HOW DO WE SERVE OUR CUSTOMERS?

PoleVault first assesses the need of the customer, the inputs and specific delivery requirements. These are thoroughly analyzed and then key people who would work on the project are asked to raise questions and interact with the customer to be on the same level of understanding to solve the problem with respect to stated and implied objectives. A project schedule and methodology is developed, and customer informed about the delivery dates.

Prior to the delivery dates, the details and results are discussed and finalized in the form of design drawings and reports. The documents are finally released on the scheduled delivery date.

Call us now to free yourself from the pain of solving your Engineering design problems and drawings, and have a relaxed mind to focus on your business!

☎ Call us at +91-172-503-5480 or +91-98153-30009 or write to us at info@polevault.in

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PoleVault Technologies Pvt. Ltd.,
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