



## Introduction

Perfect Solutions, a company having more than 150+ man years of collective experience is engaged in design, drawings and consultancy services for industries like dairy, food sector, chemical process industries, oil & gas sector, energy conservation, which are predominantly dependent on accuracy in design and drawing, has acquired rich experience and intern established excellent track record in this domain.

With increasing levels of digitization in the enterprise, the domain of engineering, design and drafting is now tightly linked to the domain of business information management. Common Enterprise Management Applications and technology platforms have driven information integration across the value stream to include engineering domain, allied services and the efficient management of capital assets.

The Design & Drafting Services Business Unit specializes in providing third party outsourcing service of creating, revising and maintaining 2-D/3-D computer aided drawings across multiple vertical industry domains.

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the benefit of inland and global customers**



# About Us

## Overview

### We are:

A company setup with an objective of providing Perfect Solutions to each of the domain area for various industries. The vast collective experience of more than 150 years acquired by the senior technocrats and enthusiastic but technically qualified young team has given the perfect blend of experience and youth to the company.

### We do:

The company is committed to give efficient and effective solutions to all the engineering problems of our clients, be it inland or overseas as per requirement.

However the company can undertake project management right from concept to commissioning, estimation to costing, designing of process, system, equipment, piping & utility to inspection, vendor identification and development to procurement.

Above domains are successfully delt with support of accurate design and drafting service which is provided through 2D/ 3D computer aided drawings. The Design & Drafting SBU is an integral element of Perfect Solutions's strategy to provide increased value to its customers as a truly broad-based design services company.

### Focus:

- Our world-class delivery model ensures seamless integration of your Design & Drawing activity into your main stream end-to-end processes.
- Our professional team, comprising of Mechanical, civil & structural designer, electrical , instrumentation, electronics, information technology and computer engineers, can provide desired services to our clients from various industries like
  - Chemical and process industry
  - Dairy and food
  - Breweries
  - Pharmaceutical
  - Tannin and cellulose industry
  - Offal and fish industry
  - Oil & gas

### Advantage

- In perfect Solutions You will find a flexible, committed& matured partner
- Willing to travel that extra mile willfully
- To Build a rewarding Relationship

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# Services

## Design & Drawing Service Business Unit:

With increasing levels of digitization in the enterprise, the domain of engineering, design and drafting is now tightly linked to the domain of business information management. Common Enterprise Management applications and technology platforms have driven information integration across the value stream to include engineering domain, allied services and the efficient management of capital assets. Perfect Solutions has rich experience and excellent track record in this domain. **The D & D Services Business Unit specializes in providing third party outsourcing service of creating, revising and maintaining 2-D/3-D computer aided drawings across multiple vertical industry domains.** The D & D SBU is an integral element of PS's strategy to provide increased value to its customers as a truly broad-based design services company.

**PEOPLE :** The D & D SBU, headed by a professional in this field of over 20 years of experience, has a combined base of nearly 150man-years of design and drawing prowess using Autocad and other 2 & 3 D design tools. **The D&D staff is put through a job rotation program to achieve both depth as well breadth of skills such as P & ID, Piping, Fabrication, Layout, and Electrical drawing.**

All of the operating staff work under the expert guidance of the company's young and dynamic CEO and other distinguished members of its advisory board that consists of outstanding individuals with long and successful track records in Engineering, Design & Drawing and Outsourcing/IT Management fields.

PERFECT SOLUTIONS

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We provide seamless Design & Drawing outsourcing services to help clients realize their project management, production management and document management strategies, using best-in-class technologies, efficient processes and state of the art competencies. **Our world-class delivery model ensures seamless integration of your Design & Drawing activity into your main stream end-to-end processes although delivered remotely from our center in Vadodara, India.**

**Domain Area:**

Drawings are divided into many different fields that are as follows:

- **Flow sheets**
- **P&IDs**
- **Layout drawings**
- **Equipment Layout drawings**
- **Civil drawings**
- **Structural drawings**
- **Foundation drawings**
- **Equipment General arrangement drawings**
- **Equipment fabrication drawings**
- **Fabrication drawings**
- **Electrical drawings**
- **Piping drawings**
  - Piping layout drawings
  - Piping sectional drawings
  - Material take off (MTO/BOM) for piping items
  - Nozzle orientations for fabricated equipments
  - Stress analysis
  - Piping isometrics drawings
  - Piping support drawings
  - 3D piping layouts and overviews
  - Stress analysis
- **3D Modeling**
- **As built drawings**
- **Documentation and change management through proper Software.**

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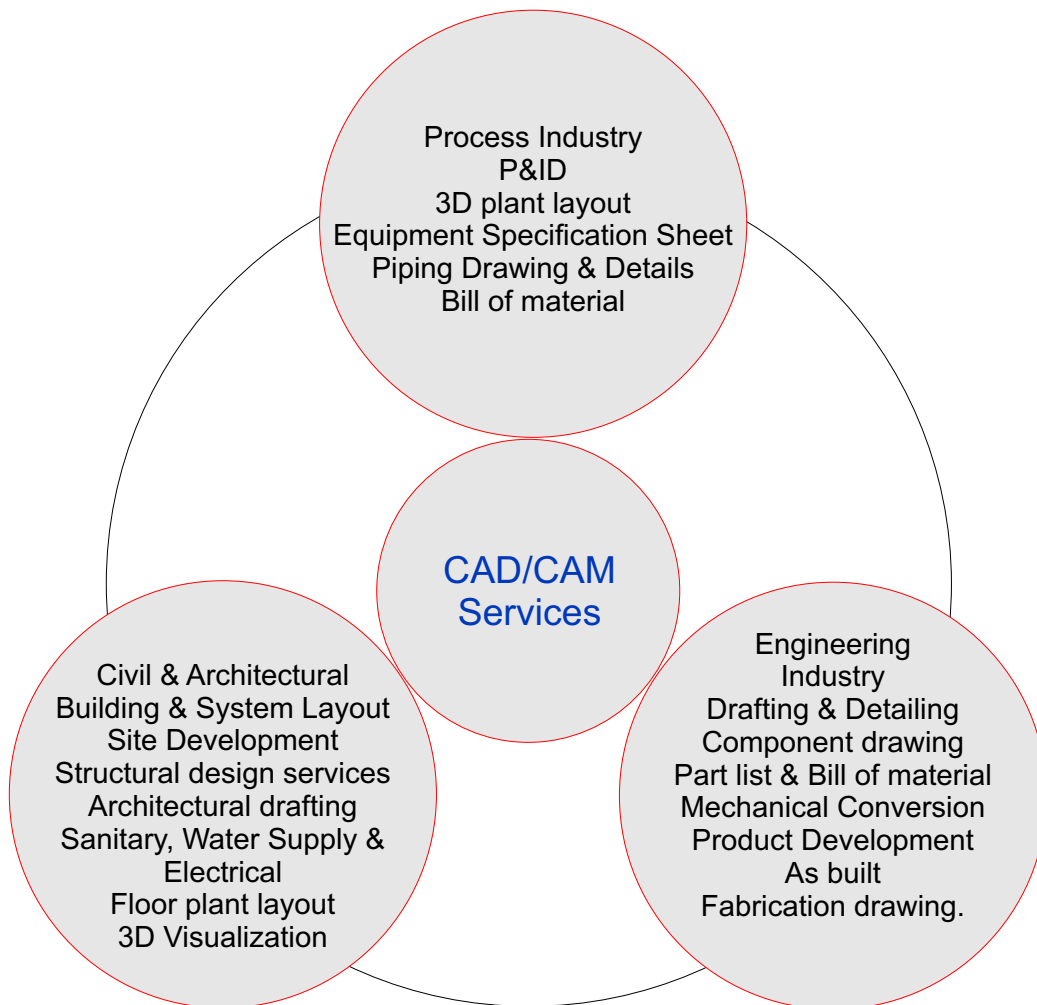


## CAD SERVICES:

At Perfect Solutions we offer paper to cad conversion and drafting service. All we require is your inclination and we have intention and infrastructure to deliver accurate dimension cad drawing .

There are numerous advantage for converting paper to cad based drawings:

- To store drawings in more organized manner.
- Eliminates misplacing drawings.
- Reproducibility and modification of drawings are easier.
- Easier to flow information via email.
- Immediate availability of required information.
- Carry the information where ever you go.



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### Consultancy:

Our engineering team, under the guidance of founder directors and associate directors whose collective experience is of more than 150 years. This has made the company richer in excellent and in depth knowledge in the field of engineering, manufacturing, inspection, erection, testing and commissioning in the field of evaporation, spray drying, conveying, storage, packaging, liquid processing and packaging, design of all utilities like steam, refrigeration, water and effluent treatment, pneumatics and electrical including generation, distribution and utilization. The company also possesses relevant civil architectural and structural designing including internal, external and industrial electrification.

The diversified knowledge can successfully be applied in various fields of chemical, dairy and food including breweries, pharmaceutical and bio-chemical, tannin and Cellulose industries, offal and Fish industries and environmental control other process industries.

### Domain Areas:

- Civil, architectural, structural and electrification
- Project management right from concept to commissioning
- Project estimation and costing
- Inspection of fabricated items including ss
- Equipment design
- Process system design
- Energy conservation studies and implementations
- Piping engineering
- Refrigeration systems
- Steam generation, distribution and utilization systems
- Water treatment system
- System and equipment problem solving & crisis management.
- Pneumatics and electricals
- Man power studies
- Procurement of equipments & systems
- Vendor identification and development

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## **Project Management**

### **Basic Engineering**

- Conceptualized planning
- Site survey.
- Evaluation of process synthesis.
- Preparing process flow diagram.
- Technical analysis and recommendation of equipment
- Evaluation of process synthesis.
- Preparing process flow diagram.

### **Detail Engineering:**

- Material Balance and Energy balance.
- Preparing Process & Instrumentation Diagram.
- Preparing Plant Layout.
- Designing of equipment.
- Sizing of equipment and technical specification data sheet for all the equipments.
- Selection of proper capacity of Utility required .
- Preparing of Isometric piping diagram, piping stress analysis, & Bill of Material.
- Civil, Structural, Mechanical & Electrical design & details.
- Safety systems.
- Issue of enquiry, Bid tabulation & Evaluation.
- Inspection of equipments.
- Assistance in Pre-commissioning & commissioning activity for plant operation.

### **Plant Operation:**

- Plant Operation.
- Implementation of Engineering details at site.
- Supervision of Site work.
- Co-ordination with various contractors.
- Preparation of Bar-chart and identifying the critical areas.
- Pre-commissioning management & deputation of specialties.
- Supervising no-load trials for all the equipments & Utility.
- Witnessing water trials for equipments, flushing of piping systems.
- Ensuring smooth functioning of project at water run trials.
- Actively involved in start up commercial operation of plant.
- Training of man-power at plant level.

### **Reverse Engineering:**

- Energy conservation for existing plant.
- Revamping the entire plant for increase in productivity & Yeild.
- Reduction of Cost of product
- Proper documentation of the plant for monitoring & performance analysis.
- De-bottlenecking of critical stage of plant.

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OUR  
TEAM

# Our Team

## Chairman & Managing Director:

Sadashiv M. Chaudhari

*(M. Tech. IIT Karagpur, India.)*

**Experience:** More than 30 years in Project management starting from designing, estimating, developing, executing and commissioning of more than 50 projects in various fields like Dairy, Spray drying systems, Evaporators, Conveying, breweries, energy conservation, utilities (like refrigeration, steam generation, power, etc), slaughter house, carcass, grain storage and handling systems, food processing. During his journey for excellence he has served companies like National Dairy Development Board, Kirloskar engineering, Dynamics group, L&T & GEA group & GCMMF apart from traveling extensively in countries like USA (Land of Lake), France, Finland, Germany, Australia and New Zealand for training and updating on latest technologies in various attributes.

## Directors:

**Ashok A. Vora**

*(B. E. Civil M. S. University, Baroda)*

**Experience:** More than 30 years of experience in project management starting from designing to completion of various structures in the field of industries, multistoried complexes, residential buildings, etc. He has worked in the field of soil mechanics while he was stationed at Washington DC-USA. During his tenure with NDDB and GCMMF he has extensively traveled in countries like Australia, New Zealand, England and Germany for acquiring knowledge on latest technologies. He has also gained enormous experience in marketing of food products while he was manager in GCMMF and was responsible for redistribution of products manufactured in the brand name of AMUL and DHARA in three states of India for a period of 7 years.

## Associate Directors:

**Saurabh Vakil**

*(MBA, University of California, Los Angeles (UCLA), USA.)*

*(MSEE, University of Dayton, Dayton, Ohio, USA.)*

*(BE (EE), M.S. University of Baroda, Baroda, India.)*

**Experience:** Accomplished entrepreneur, successful leader, and professional manager with multi-disciplinary expertise. Presently engaged in incubating global in-sourcing initiatives of world's leading medical device company based out of US and managing IT function of its Indian arm. Passion for developing off-shore capabilities to support global outsourcing objectives. Proven track record in working with cross geography teams and managing international relations. Expertise in defining IT strategy, administering budgets, formulating implementation plans & building successful partnership with strategic vendors. Experience in leading development and implementation of technology systems both in product and IT domains.

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### **Minesh J Patel**

*(B.E. Mech - M.S.U. Baroda.  
M.S. (Mech. Engineering) - WPI, Worcester, USA.)*

**Experience:** Worked with General Electric Turbine Plant at Lynn Massachusetts USA as Design Engineer, designing exhaust blades of different capacity of Gas Turbine. Joined Family business - Vaultex Industries as Production in Charge, Worked in Noveau Technologist Pvt. Ltd. as General Manager, Manufacturing stainless steel LPG tanks for automotive use. Well versed with AutoCAD (2D, Isometric & 3D drawing) and Tally accounting package.

### **Pranav Joshi**

*(M. Tech. (Structures) IIT MUMBAI)*

**Experience:** During 30 years of service he have been exposed to various types of civil/structural design and design coordination work related with different sectors like Residential, Commercial Complexes, Multistoried Complexes, Industrial structures of Oil & Gas Sector, Heavy Industrial Sector, Chemical, Pharmaceutical and Fertilizer Sectors, Water and Air pollution control plants, Sewage Treatment Plants, Sewage Pumping Stations, Liquid Retaining Structures and Industrial Sheds and Foundations. Design discussion for approval with consultants like EIL, TCE, UHDE, JACOBS-H&G, PDIL, DCPL etc. He has also been exposed to designing based on American standards.

### **Dr. N. B. Patel**

*(Bachelour of Veternary Science and Animal Husbandary)*

**Experience:** 30+ years in filed of Animal Husbandary and Project Management

During his tenture he has taken advance training in the field of dairy farm and herd management and also animal nutrition milking technology and processing in India, Germany and Japan. He has also been trained in Total Quality Management Programes at Japan. A nominated member of Veterinary council Gujarat State. His jorney from grass root level to the top as seen many weathers and sucessfully served organisations like Amul and NDDDB for Artificial Insemination and milk procurement programs. At SAG Bibaj apart from administration he has contributed to life stock production and management and liquid and frozen semen processes. Lastly he was MD Madhur Dairy Gandhinagar.

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## General Manager

**Sachin Chaudhari:**

*(B.E. Mech. - Pune University)*

**Experience:** Since inception of the company he has been giving services as general manager and under his expert guidance in the field of design, drawing and computer aided systems. He along with very senior official namely P. M. Vaidya is directing a team of 16 young engineers and operators. Sachin by virtue of his qualification and subsequently acquired high tech knowledge in the fields of 2D and 3D softwares: – AutoCAD, IDEAS-9, UNIGRAPHICS, Solid Edge, PDMS (Plant Design Management System) has made company establish high standard of quality. As a result of which he has been repeatedly interacting with company of reputes like GEA Process India Ltd, L&T e-Solutions, Chitawon dairy Nepal, Paras Group, Heinz & GAIL, etc

## Project Manager

**Pramod Vaidya**

*(Diploma in Mechanical Engineering from M.S.U.of Vadodara)*

During 20+ years of experience he has acquired proficiency in following fields other than piping engineering: knowledge of Dairy Project & Fabrication Drawings

## SOFTWARE KNOWLEDGE

- Good working knowledge of **Intergraph PDS-3D**,
- Good working knowledge of **Intergraph PDS-2D**
- Thorough working knowledge of **AutoCAD.**, 3-D solid modeling. Able to provide effective training in AutoCAD.
- Good working knowledge of Bentley **Micro Station.**
- **CODES & STANDARDS** - Exposure to ANSI and Indian Standards.

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# Clients

Clients

## Design and Drawings

- GEA PROCESS ENGINEERING (Formally L&T-NIRO) - BARODA.
- L&T-e ENGINEERING SOLUTIONS BARODA
- GAIL
- FOOD & BIOTECH ENGINEERS (INDIA) PVT. LTD. FARIDABAD
- BOISER DAIRY (AS BUILT)
- GODHARA DAIRY (AS BUILT)
- MOTHER DAIRY (AS BUILT)

## Consultancy

- KMF KARNATAKA (ALL 14 DAIRIES)
- CHITAWON GROUP OF COMPANIES NEPAL (CONCEPT TO COMPLETION)
- PARAS GROUP DELHI
- HEINZ
- AMUL

## Energy Conservation

- FOR DAIRIES UNDER GCMMF. (3 DAIRIES)
- POWER PLANT 3 MW (PROJECT REPORT SUBMITTED TO GCMMF)

**Consultancy and Energy Conservation is supported by our Design & Drawing Team.**

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## **Contact Us**

Please e-mail/call us on Following address to inquire how we can cater to your requirement. We will be more than happy to explain either in text or in person as to how the process works and how we can **FORGE ALONG TERM & SUCCESSFUL PARTNERSHIP**

C-60, Sainath Park,  
Saiyad Vasana Road,  
Vadodara - 390 015

**Tel:** +91 -265 - 2251880 (Land-Line & Fax)

**Cell:** +91 -9879430806 (Sachin Chaudhari)  
+91 -9825422448 (Ashok Vora)

**Email:** Perfectsolutions11@gmail.com  
Info@perfectsolutions.co.in

For More Information Please visit us on  
[www.perfectsolutions.co.in](http://www.perfectsolutions.co.in)

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