INDUSTRY: PROCESS INDUSTRY

L&T Technology Services provides detailed Engineering & Procurement Support to world No. 1 Home and Personal Care major for plant expansion at its Oral Care Facility in western India

CLIENT PROFILE

The client is a global company serving more than 200 countries and territories with consumer products and strong global brands in its core businesses – Oral Care, Personal Care, Home Care and Pet Nutrition. The client has a tightly defined strategy to grow its market share for key products, such as toothpaste, toothbrushes, bar and liquid soaps, deodorants/antiperspirants, dishwashing detergents, household cleaners, fabric conditioners and specialty pet food.

BUSINESS CHALLENGE

The client desired to set-up an Oral Care facility in the western India region to meet future and existing product demand. The client sought for an Engineering Service Provider with a one-stop solution for providing detail engineering for a Greenfield facility with minimal subcontracting.

OUR SOLUTION

L&T Technology Services provided complete detailed Engineering Services for the said Greenfield project from both offshore (L&T Technology Services Delivery Centers) and onsite (client's office) to provide cost and time advantages.

Scope of Engagement

The scope of engagement for L&T Technology Services included addition of 5-6 Finishing Lines, Making, and Raw Material & Finished Goods Warehouse expansion with the below services:

- Engineering Services for carrying out:
  - Detail Engineering
  - Design & Drawing of Expansion of Process Building & Warehouse Building
- Procurement Support
- Preparation of CAPEX Estimation

Detail Engineering Services included the following disciplines for expansion of facility:

- Process Engineering
- Mechanical & Piping Engineering
- HVAC
- Fire Protection System
- PHE
- Civil & Architectural Engineering
- Electrical Engineering
- Instrumentation Engineering
- Procurement Support Services
- Project Management Services

Approach

The approach included execution of work from our design centers in Baroda & Chennai as per project requirements in various stages as listed below:

Stage 1: Project Initiation

- Project kick-off
- Project planning
- Project deliverable milestones

Stage 2: Data Acquisition

- Review of data shared by client
- Site visits for data collection

Stage 3: Detail Design

- Document /Drawing generation
- Internal review
- Stage gate wise review by client

Stage 4: Design Finalization

- Design modification as per client review
- Design finalization
- Project document handover to client

Stage 5: Construction Phase

- Deployment of CM team
- Pre-commissioning support
- Project hand-over and close out

Tools & Technologies

- **Software tools:** AutoCAD, Staad Pro, PDMS, Caesar II, HAP, PipeNET, ETAP
- **Codes & Standards:** LEED 2009 New construction and Major Renovation rating system under USGBC guidelines, ASHRAE/ISHRAE Guidelines, CPIL Guidelines, ASME, IBR, IS codes, NFPA, NBC, SMACNA, BS. IEC, ISA, IEEE, CBIP, FM Global, WHO guidelines for drinking water supply, SP35 Handbook for plumbing.

BENEFITS DELIVERED

- Substantial increase in business volume
- Reduced project costs with agile and flexible team deployment from offshore
- Faster turnaround time leveraging proximity of L&T Technology Services' design center to the plant
- Market capitalization

ABOUT OUR PROCESS INDUSTRY PRACTICE

At L&T Technology Services, we deliver expertise and experience-driven solutions for the Plant Engineering Industry. We are an abled one-stop technology solution provider for all facets of engineering services across industries and geographical domains. We develop, design and optimize plant infrastructure and facilities that improve efficiency and safety, thereby meeting market demands with precision, professionalism and speed. We help our clients meet the twin objectives of lowering cost and delivering value. We have evolved and matured over our years of experience in the various process industry sector areas. We serve some of the leading global giants in Energy, Consumer Packaged Goods and Chemical sectors representing all segments of the value chain. Our global footprint allows us to offer a connected ecosystem which is crucial for customers with a global ambition.

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