



**VIJAY TANKS & VESSELS (P) LTD.**

SINCE 1956

**EVOLVING**  
**IDEAS**  
**RESOLVING**  
**CHALLENGES**



Oil & Gas Storage Terminals | Heavy Process Equipment

# INTRODUCTION

## Our Business

We are a global industrial engineering company in the energy sector and amongst the world's leading players for Storage Tanks & Process Equipment.

We are in our sixth decade of operations with over 5000 projects delivered across the Indian subcontinent, the Middle East, Australia, Africa & the Americas.

We have an extensive and world class portfolio of references that include some of the world's largest oil & gas storage terminals and heavy process equipment with single piece weights of up to 1425Mt.

## Our People

We are a team of 500+ engineers and 5000+ crew deployed across VTV's offices, manufacturing facilities and project sites.

Every critical aspect of a project is managed by us, directly, with our highly skilled in-house resources. This hands-on operational philosophy gives us a superior ability to capture details relevant to project management, leading to enhanced value for our customers in terms of competitive costs, on-time delivery and high-quality workmanship.

Our people operate within a flat hierarchy. We empower and encourage them to take direct ownership of their work. This ensures a strong sense of personal commitment, allows a high degree of responsiveness and sharpens our result focus.



**30+**  
Countries



**65+**  
Years



**5000+**  
Orders



**500,000+**  
MT fabricated



# BRIEF HISTORY

## The Early Years 1956-63



Founded by R Ramanujan as Vijay Industries. Furnace revamp assignment opens floodgates for mechanical contracting work at the Standard Vacuum & Burmah-Shell Refineries in Bombay.

Built the entire tank-farm for India's first three indigenous refineries and emerged as India's first Tank building company

## Building Blocks & Technology Renaissance 1964-73



License arrangement with Graver Tank Manufacturing Co. for Floating Roof & Cryogenic Tank technology.

Built India's first cryogenic LOX/LIN Storage Tanks, High Pressure LPG Spheres and Asia's largest Crude Oil Storage Terminal. Supplied first Crude Distillation column for Esso Refinery from Mulund Works.

Drafted the Indian Standard Code IS:803 for Storage Tanks

## Global Footprint & Turnkey Contracting 1974-85



Developed a strong presence in the Middle East & African markets.

Turnkey projects for Refrigerated Ammonia & Pressurized LPG Storage and Handling Facilities in the Indian market

With 45 concurrent projects operating across India and 13 international territories, VTV grew into one of India's largest EPC Contractors in the Oil & Gas sector

## Innovation & Consolidation 1986-95



Built India's first Cryogenic Ethylene Storage Tanks

Introduced Tank construction by hydraulic jacking in the Indian market. Developed a patented jacking process to build the world's first Varaha Sphere.

Relocated Headquarters & Works to Vadodara with a focus on the growing domestic market demand

## New Benchmarks in Scale 1996-01



Designed and built one of the world's largest crude oil and product storage terminals at RIL Jamnagar Refinery over three phases with a total capacity of 33.75 Million Barrels, including 24 Nos. 92M Dia. x 20M Ht. Double Deck Floating Roof Tanks and involving 113,615 MT of steel fabrication.

Built India's first LNG Tank at Petronet LNG's Dahej Terminal and India's largest LPG mounded storage terminal at GAIL, Pata.

Ranked amongst India's top 500 unlisted companies.

## Growth in Heavy Engineering 2002-11



Pioneered the field fabrication of over dimensioned columns, including Crude & Vacuum Distillation Columns, Coke Drums, Naptha Cracker Columns and Paraxylene Unit Columns

Established Kandla SEZ Works. Shipped Bullets to Tunisia and New Caledonia and ODC Columns for Mangalore Refinery's PFCC Unit

Turnkey project for Atmospheric/Low Pressure Tanks and Pressurised/Cryogenic Spheres for Borouge 2 Petrochemical expansion project in Ruwais, UAE.

## Integration & Expansion 2012-22



FEED + EPCC project for Multi-product oil storage and handling terminal for Gulf Petrochem at Pipavav port.

Heavy Engineering Division expanded with Jamnagar and Kandla Coastal Yard facilities brought on stream. World's largest shop built sphere shipped to the Gorgon LNG Project in Australia and high pressure stacked heat exchangers for Oryx, Qatar

EPCC contracts for Cryogenic Ethylene / Propylene Storage Systems at Opal, Dahej & HMEL, Bhatinda and Refrigerated Ammonia/LPG Storage Terminals at RFCL, Ramagundam, BPCL, Haldia & IOC, Kandla.

“ Amongst India's oldest indigenously founded Engineering & Construction Companies ”

# ABOUT US

We have a strong core competence over a wide range of critical oil & gas storage and process equipment. These are delivered through four strategically located heavy fabrication plants and a large complement of specialized field construction teams. This anchors our execution of large scale and complex multidisciplinary Lumpsum Turnkey (LSTK) Projects for Storage Terminals



ECD

HED

ISD

STORAGE TANKS

PROCESS EQUIPMENT

SERVICE PORTFOLIO

Our business is organised into three distinct divisions that leverage our core product portfolio

## ENGINEERING & CONSTRUCTION DIVISION

Turnkey projects for Storage Terminals

- Low Temperature & Cryogenic Storage Tanks
- Low Pressure Storage Tanks
- Atmospheric Storage Tanks
- High Pressure Spheres
- Mounded Storage Bullets
- Silos & Gas Holders

## HEAVY ENGINEERING DIVISION

Design & Supply of Critical Process Equipment

- Columns & Pressure Vessels
- Shell & Tube Heat Exchangers
- Air Cooled Heat Exchangers
- Reactors & Separators
- Deaerators & Desalters
- Fired Heaters & Furnaces

## INDUSTRIAL SERVICES DIVISION

For greenfield projects and maintenance turnarounds

- Composite Electro-Mechanical Works
- Pipe Spools & CKD Tanks
- Modular Units & Process Skids
- Tube Bundle Replacement
- Equipment Revamp
- Tank Inspection, Repair & Revalidation

# ENGINEERING & CONSTRUCTION DIVISION

Basic & detailed engineering, procurement, construction and commissioning of Oil & Gas Storage Terminals, including Civil & Structural, Mechanical & Piping, E&I works and all associated facilities on a lumpsum turnkey basis

- From concept to commissioning
- Annual field fabrication capacity of 30,000 Mt.
- Only Indian company with in-house capabilities to deliver the entire range of storage solutions



# ENGINEERING & CONSTRUCTION DIVISION



**3 Nos.**  
9% Ni. Cryogenic Ethylene Spheres

**8.5M Dia.**  
India's largest Mounded Bullet

**60+**  
Cryogenic & Refrigerated Storage Tanks

**92M Dia**  
India's largest floating roof tank

**100+**  
Dome & floating Roof Air Raising Operations



**100%**  
Involved in every Refinery/ Petchem project in India

**350+**  
Spheres Designed and Built

**1986**  
India's first Cryogenic Ethylene Tank

**51,000 MT**  
Steel tonnage on one Tank Terminal

**170,000 Cu.M.**  
Largest capacity LNG Tank



# HEAVY ENGINEERING DIVISION

Design & supply of critical process equipment, including field fabrication, assembly and heavy lift erection works.

- 4 Facilities spread across 55 Acres catering to the domestic and export markets
- Coastal Unit for large Modules and ODC equipment
- Annual shop fabrication capacity of 30,000 Mt.

SANKARDA WORKS



JAMNAGAR WORKS



KANDLA SEZ WORKS



KANDLA COASTAL YARD



# HEAVY ENGINEERING DIVISION



**1st**

Vertical Plate Coke  
Drum in India

**1 Km**

Distance From Kandla  
Coastal Yard to Port

**4 & 13**

Plants      Bays

**16.7M**

Largest diameter  
export shipment

**100 MT**

Maximum EoT  
capacity in Bay



**103M**

Tallest Propylene  
Fractionator Column

**160mm**

Maximum plate  
rolling capacity

**550 MT**

Maximum single piece  
shipment weight

**1964**

Established 1st  
pressure vessel plant

**20,000 SqM**

Aggregate covered  
shopfloor area



# INDUSTRIAL SERVICES DIVISION

This division offers discrete services that leverage our multidisciplinary engineering capabilities and fabrication infrastructure. Our services under this division are extended to markets worldwide and cater to greenfield / brownfield projects and maintenance / turnaround activities. Some of our key engagements under this division are:

- Contract for yard piping on an LAB project at IOC, Gujarat Refinery
- Supply of Carbon, Alloy & Stainless Steel pipe spools for the Burrup Fertiliser Project in Australia.
- Design & Supply of Tanks / Spheres / Spheroids in CKD condition for projects in the Middle East, Africa, Australia & the Americas
- Inspection, design analysis and revalidation of cryogenic tanks for Gasco, Abu Dhabi



**30+**

Engineering team located across two offices

**78mm**

Max thickness of sphere petal pressed

**100+**

Shut down revamp jobs handled

**245 Kg/cm<sup>2</sup>**

Max Design pressure of tube bundle replaced

**1,250 MT**

Crane capacity mobilised for heavy lift erection work

**2,000 MT**

Annual structural fabrication capacity

**21,750 MT**

Tonnage of CKD Tanks shipped worldwide

**200,000" Dia**

Annual piping fabrication capacity

# CORE COMPETENCIES

## Design



- Niche design capabilities
- Multi-disciplinary expertise with best in class software tools
- Fabrication detailing based on end-user feedback

## Project Management



- Guided by detail
- Integrated and proactive approach
- Systems supported by experience

## Procurement



- Long term and worldwide supply chain relationships
- Emphasis on quality and schedule
- Creating value through strategic partnerships

## Welding & QA QC



- Long legacy of automation and innovation
- Quality ethic based on hands on execution philosophy
- Uncompromising drive for improvement

## Construction & Fabrication



- Global scale capacity
- Deeply institutionalized in-house capabilities
- Insightfully designed construction processes

## Infrastructure & Logistics



- Strong field mobilization infrastructure
- Strategically located fabrication facilities
- Extensive experience in multi-modal transport of ODC equipment

## HSE



- An EHS culture guided but not controlled by statistics
- People centric and systems oriented approach
- Preventive care through continuous vigilance



# INDUSTRIES & CLIENTELE



## Oil & Gas

Snamprogetti / Saudi Aramco, KSA  
Petrofac / British Gas, Tunisia  
Daelim / KOC, Kuwait  
Ingersoll Rand / ONGC, Mumbai



## Refinery

JGC / KNPC, Kuwait  
ABB / Essar Oil, Jamnagar  
Basrah Refinery, Iraq  
Tecnimont / RIL, Jamnagar



## Petrochemical

Toyo / IOC, Panipat  
TR/Borouge, UAE  
Praxair / HPL, Haldia  
EIL / HMEL, Bathinda



## Marketing Terminals

Aker Kvaerner / Elf Gas, Mangalore  
ENOC, UAE  
Engico / Brega Petroleum, Libya  
EIL / BPCL, Haldia



## LNG

IHI / Petronet LNG, Dahej  
Bechtel / ConocoPhillips, Egypt  
Flour / LNG Canada, Kitimat  
Kellog-JGC / Chevron, Australia



## Chemical

Trust Chemicals, Egypt  
Technip / Chemplast, Karaikal  
Chiyoda / PRC, India  
Thyssen Krupp / DPL, Dahej



## Fertiliser

Snamprogetti / Omifco, Oman  
L&T / HURL, Sindhri  
PDIL / RCF, Trombay  
RFCL / EIL, Ramagundam



## Metals & Mining

FW / Inco, New Caledonia  
Midrex / Shadeed Iron & Steel, Oman  
Kobe Steel / Qasco, Qatar  
Lurgi / Jindal, Angul



## Power

BHEL / Gecol, Libya  
Bechtel / Enron, Dabhol  
Nuclear Power Corp., India  
BARC, Trombay





**A LEGACY OF PARTNERSHIP  
A COMMITMENT TO SERVICE**



**VIJAY TANKS & VESSELS (P) LTD.**

SINCE 1956

2<sup>nd</sup> Floor, Sears Towers, Gotri Sevasi Main Road, Sevasi,  
Vadodara - 391 101, Gujarat, India

+91265 7127 500 / 513 / 514  
ho@vijaytanks.com  
www.vijaytanks.com

Branch Offices:  
Mumbai | New Delhi | Chennai

Fabrication Plants:  
Sankarda | Jamnagar | Kandla SEZ | Kandla Coastal Yard

