



VIJAY TANKS & VESSELS (P) LTD.

SINCE 1958

EVOLVING IDEAS RESOLVING CHALLENGES



Oil & Gas Storage Terminals | Heavy Process Equipment



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

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 1425 Mt.

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



60+
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 2012-20



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.

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

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

Reactors & Separators

Columns & Towers

Pressure Vessels

Shell & Tube Heat Exchangers

Air Cooled Heat Exchangers

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

ECD

STORAGE TANKS

HED

PROCESS EQUIPMENT

ISD

SERVICES PORTFOLIO

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

8.5 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 and 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



1 Km

Distance from Kāndla
Coastal Yard to Port

1st

Vertical Plate Coke
Drum in India

4 & 13

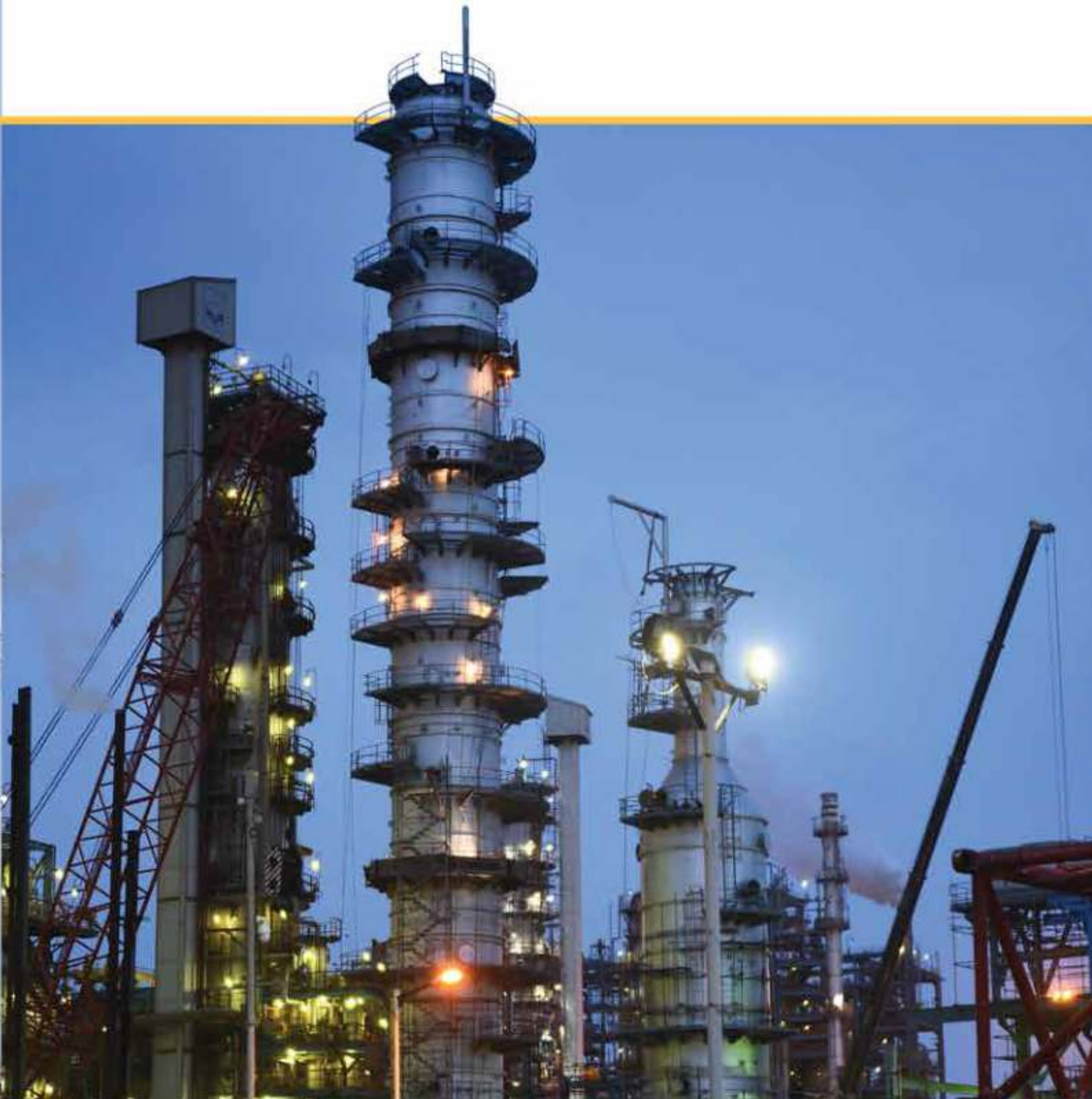
Plants Bays

16.7M

Largest diameter
export shipment

100 MT

Maximum EoT
capacity in Bay



103 M

Tallest Propylene
Fractionator Column

150mm

Maximum plate
rolling capacity

550MT

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 multi-disciplinary engineering and fabrication infrastructure and capabilities. 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 THK

Max thickness of sphere
petal pressed

100+

Shut down revamp jobs
handled

245 Kg/cm²

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

2,00,000" 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 & QAQC

- 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
Kellogg-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



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VIJAY TANKS & VESSELS (P) LTD.

SINCE 1956

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Fabrication Plants:

Sankarda | Jamnagar | Kandla SEZ | Kandla Coastal Yard

