



COMPANY INTRODUCTION AND OVERVIEW OF MAJOR GAS & OIL PROJECTS

AN UPCOMING MULTINATIONAL COMPLETE LPG ENGINEERING COMPANY



8 Service Branch
Offices in India



Over 150
Employees



Concept to Commissioning
and Beyond



Over 700 Installations
Worldwide



Award Winning
Team



Latest Fabrication
Equipment

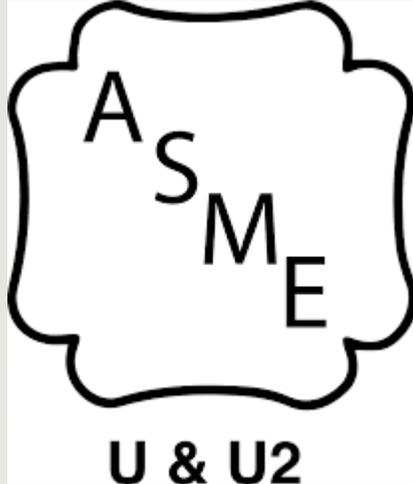
A LEADING OIL AND GAS EPC CONTRACTOR

SPECIALISED IN STORAGE AND HANDLING FACILITIES

1. OVER 1000 COMPLETED PROJECTS WORLD WIDE
2. OVER 300 PERMENANT EMPLOYEES AND OVER 1000 CONTRACT EMPLOYEES
3. THREE WORLD WIDE OFFICES NAMELY - MUMBAI, NAIROBI AND DUBAI
4. STRONG FINANCIALS
5. ETHICAL PROJECT EXECUTION



MANUFACTURING CAPABILITIES



**SHOP APPROVAL
FOR ASME
U, U2 AND R STAMP**



**SHOP APPROVAL
FOR PRESSURE VESSEL
MANUFACTURE**



**SHOP APPROVAL
FOR CRYOGENIC TANK
MANUFACTURE**





www.optechengineering.com

An ISO 9000:2008 Certified Company

Optech Engineering Private Limited, incorporated in 2005 by two experienced technocrats Siddhartha Desai (Chemical Engineer) and Trisit Bhuiyan (Mechanical Engineer), is dedicated to create a benchmark in the Global hydrocarbon sector. Optech Engineering is committed in delivering high quality products and innovative technology to its customers.



In order to give our customer the end to end solution company has four main wings

OPFAB Fabrication of Pressure Vessels and Process Equipments

OPCON Turnkey Projects for Hydrocarbon Storage and Handling

OPSERV 24x7 Operation and Maintenance of Customers Assets

OPTTEST Periodic Non Destructive and Statutory Testing Services



Shop Approved for
Pressure Vessel

Approved Auto
LPG Installer

PESO
(DEPARTMENT OF EXPLOSIVES)
NAGPUR



ISO 9001:2008
Certified Company





OPFAB

THE FABRICATION SHOP



Our ISO 9001-2008 certified Pressure Vessel Fabrication Facility at Murbad, Thane Dist, (India) is a state of the art facility with most modern equipments to handle a job of 10 meters height and 40 meters in length and 20 meters in width.

- Total Area of 3000 SqM
- 15MT Demag OT crane
- Plate rolling Machine for 60mm x 3m wide plate
- Trolley Mounted Column and Boom Welding Machine with Rotators
- All In-house NDT facilities

We have decades experience in Designing vessels as per the ASME, PD5500, IS 2825, AD MERKBLATT standards and Our Process is certified by LRIS, BVIS, DNV, TUV, PDIL, Mec Elec and many reputed firms.

Our Products include:

- LPG / Propane Storage Tanks
- Ammonia Storage Vessels
- CO₂, H₂, N₂ and other Industrial Gas Pressure Vessel
- Large Capacity Vaporisers and Heat Exchangers
- Speciality Structures and Process Skids
- Stainless Steel Storage Tanks and Vessels
- Containerised Bottling Plants

DESIGN AND MANUFACTURING STANDARDS FOLLOWED:



CODE FOR PRESSURE VESSEL DESIGN:



MANUFACTURING FACILITY- MURBAD



PLOT NO 17/89/86+H48
TOTAL AREA OF 6000 Sq m

HYDRAULIC PRESS – 750MT

2500 Sq m of LAYDOWN
AREA
FOR
SPHERE FABRICATION AND
MOCK ASSEMBLY

MANUFACTURING FACILITY- BADLAPUR

PLOT NO F-12
TOTAL AREA OF 20000 Sq m

HYDRAULIC PRESS

- 1500MT
- 1500 MT
- 1000 MT

5000 Sq m of LAYDOWN
AREA
FOR
SPHERE FABRICATION AND
MOCK ASSEMBLY



MANUFACTURING FACILITY- RATE CONTRACT WUHAN, CHINA



WUHAN CHINA
TOTAL AREA OF 60,000 Sq m

HYDRAULIC PRESS

- 16000MT x 4.5m wide
- 10000 MT x 4.5 m wide
- 8000 MT x 4.5 m wide
- 5000 MT x 10m wide

40,000 Sq m of LAYDOWN
AREA

FOR
SPHERE FABRICATION AND
MOCK ASSEMBLY

MANUFACTURING FACILITY- SETUP ON LONG TERM LEASE IN VADODRA, INDIA



VADODRA INDIA
TOTAL AREA OF 20,000 Sq m

PLATE BENDING MACHINE
- 28mm Thick X 2500 mm wide
capacity

HYDRAULIC PRESS
-2000 Ton, 1500 Ton, 1200 Ton

DRILLING MACHINE

-32mm

CENTER LATHE

-14" Dia, 6" Dia

20,000 Sq m of LAYDOWN
AREA
FOR
SPHERE FABRICATION
ASSEMBLY AND TESTING



OPCON

PROJECTS AND CONSTRUCTION DIVISION



With over a two decades of experience of promoters in the large scale projects, Customers are assured of innovative and reliable designs, well coordinated project execution, Fast and quality Construction in all projects.

Over 700 projects to its credit in India and abroad makes Optech a Reliable Company to choose for your projects.

Our ISO Certified Design, Procurement and Execution process assures lower costs and better quality for our customers.

Our Core Expertise is mainly in the following areas:

- **PROPANE /LPG Storage and Handling Import Terminals and Bulk Storage Facilities with Indigenous & Imported Equipments**
- **LNG Storage Terminals for small Industries**
- **Large Crude Oil Terminals and Floating Roof Storage Tanks**
- **Auto LPG Dispensing Station Skid Mounted and Elaborate**
- **LPG Bottling Plants**
- **Large Diameter and Specialty Process / Utility Piping**
- **All Types of Industrial Hydrocarbon and Chemical Storage Facilities**
- **Innovative Instrumentation and Control Systems**

COMPLETE CONCEPT TO COMMISSIONING



OPTECH



OPSERV

24x7 ONSITE SERVICES



An innovative “Business Process Outsourcing” for Large manufacturing companies to save costs and improve safety at your hydrocarbon storage and handling facilities.

Optech offers a dedicated well trained team to operate and maintain your Hydrocarbon storage and handling facilities on 24x7 basis.

What we offer:

- Regularly Trained technical manpower for round the clock operation of facilities
- Maintenance schedules prepared and followed meticulously
- All statutory compliances taken care
- Spares planning
- Safety Drills and Regular Improvements with KAIZEN
- Backed by large OEMs and Service Providers for any Break down



OPTECH



OPTEST

NON DESTRUCTIVE TESTING AND CERTIFICATIONS



In our best endeavor to become a complete solutions company, Optech has its fourth division which undertakes all the “Non Destructive Testing Procedures and Statutory Certifications” for Hydrocarbon storage and handling facilities.

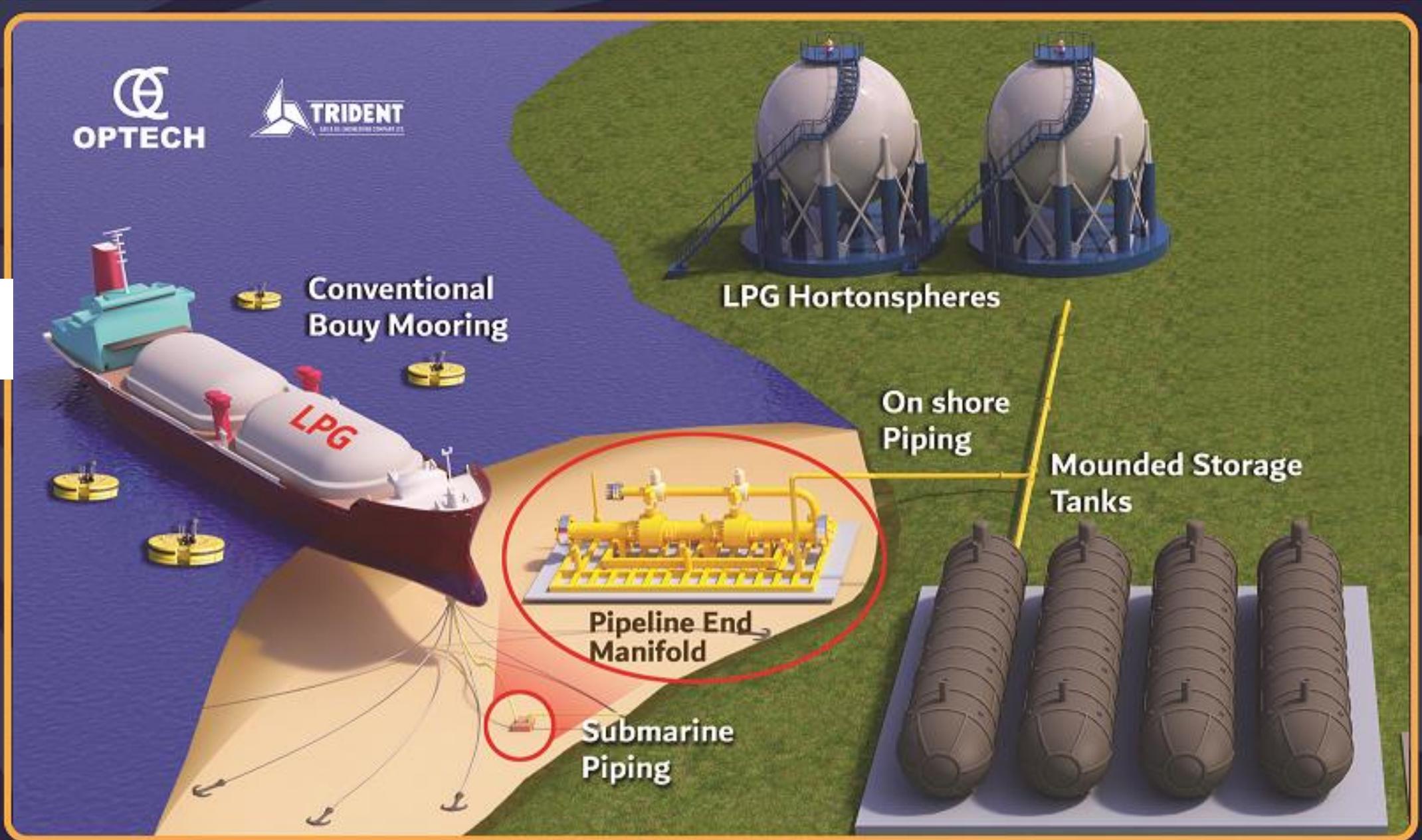
Our Expertise is Follows:

- Large Diameter Horton spheres and Pressure Vessels Rectifications
- Floating Roof Storage Tanks (API 650)
- Auto LPG Stations and underground storage tanks
- LPG/Propane Bulk terminals
- Radiographic Inspection (ASME Sec VIII Div 1 and Sec IX)
- Wet Fluorescent Magnetic Particle Inspection (ASTM-A-709 / T-700)
- Hardness Test (ASTM-E-110-89)
- Dye Penetration Test (ASTM-E-165-89)
- Ultrasonic Flaw Detection Test (ASME Sec VIII Div 1 App12)
- Ultrasonic Thickness Measurement (ASTM-A-4535-89)
- Hydro Testing (ASME Sec VIII Div 1/2)



OPTECH

WE BUILD LPG ASSETS END TO END SUPPLY CHAIN



WE BUILD LPG ASSETS END TO END SUPPLY CHAIN



Large & Satellite Bottling Plants



Road Tankers



Industrial Installation & Vaporisers

Auto LPG Stations



LPG/AMMONIA CARGO MARINE CLASS HANDLING SYSTEM



MARINE

5000 CBM X 3 NOS VESSELS

4000CBM X 1 NOS VESSELS

RIVER

4000CBM X 2 NOS VESSELS



OPTECH

API 620 R DOUBLE WALLED TANKS



RECONSTRUCTION
OF 45000CM X 2
NOSTANKS



API 650 EFR, IFR, CRT, DRT



EFR

10000 CUM X 4 NOS

IFR

10000 CUM X 6 NOS IFR

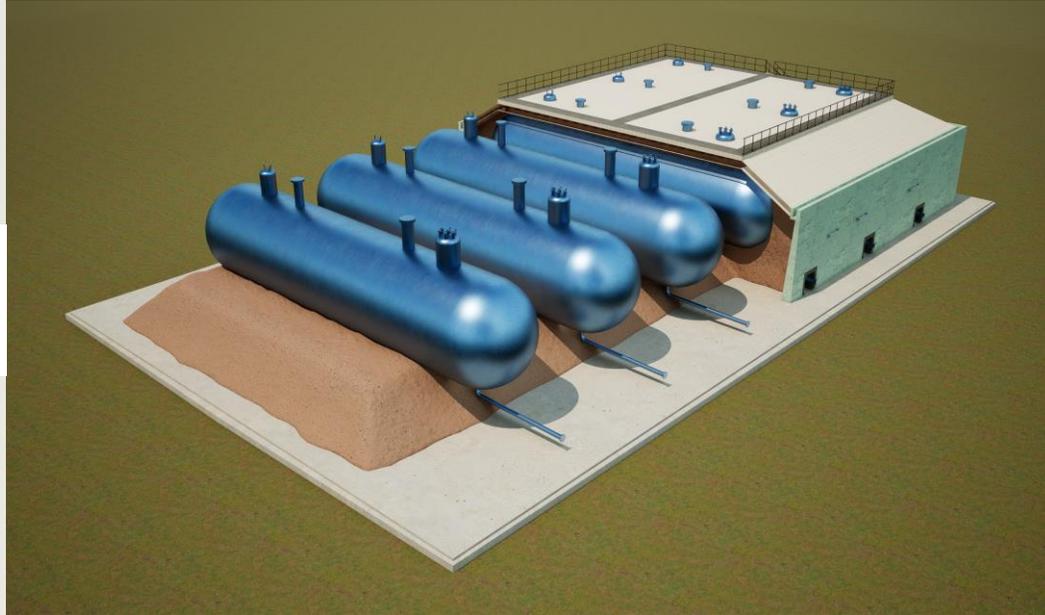
CRT

7500 CUM X 4 NOS



OPTECH

LARGE DIAMETER MOUNDED BULLETS



Sr No	Name of the Customer	Location	Total Storage in Cubid Meters
1	African Gas and Oil Limited	Mombasa, Kenya	51750
2	CITY Gas	Dhaka, Bangladesh	20700
3	Oilcom (Under Execution)	Dar, tanzania	30000
4	Nepal Gas	Kathmandu, Nepal	2108
5	Lake Gas	Tanga, Tanzania	2108
6	SOMGAS (Under Execution)	Mogadishu, Somalia	5100
7	Stockgap Limited, Nigeria	Abuja	6600
8	Stockgap Limited, Nigeria	Ogun	2790
9	Stockgap Limited, Nigeria	PortHarCourt	1260
10	Stockgap Limited, Nigeria	Gombe	4400
11	GAS Terminaling / ASIKO Energy, Nigeria	Lagos	11250
12	JSJVL	Mongla, Bangladesh	4400
13	JSJVL	Dhaka, Bangladesh	3200

MAXIMUM BULLET DIAMETER 13.30 METER

LARGE DIAMETER ABOVEGROUND SPHERES



Sr No	Name of the Customer	Location	Total Storage in Cubid Meters
C	HORTONSPHERE S OUTSIDE OF INDIA		o
1	JSJVL	Mongla, Bangladesh	3840
2	Manjis Gas	Dar, Tanzania	5000
3	Universal Gas	Bangladesh	6000
4	Lake Gas	Mombasa	20000
5	Som Gas	Berbera	15000
6	Banadir Gas	Mogadishu	10000

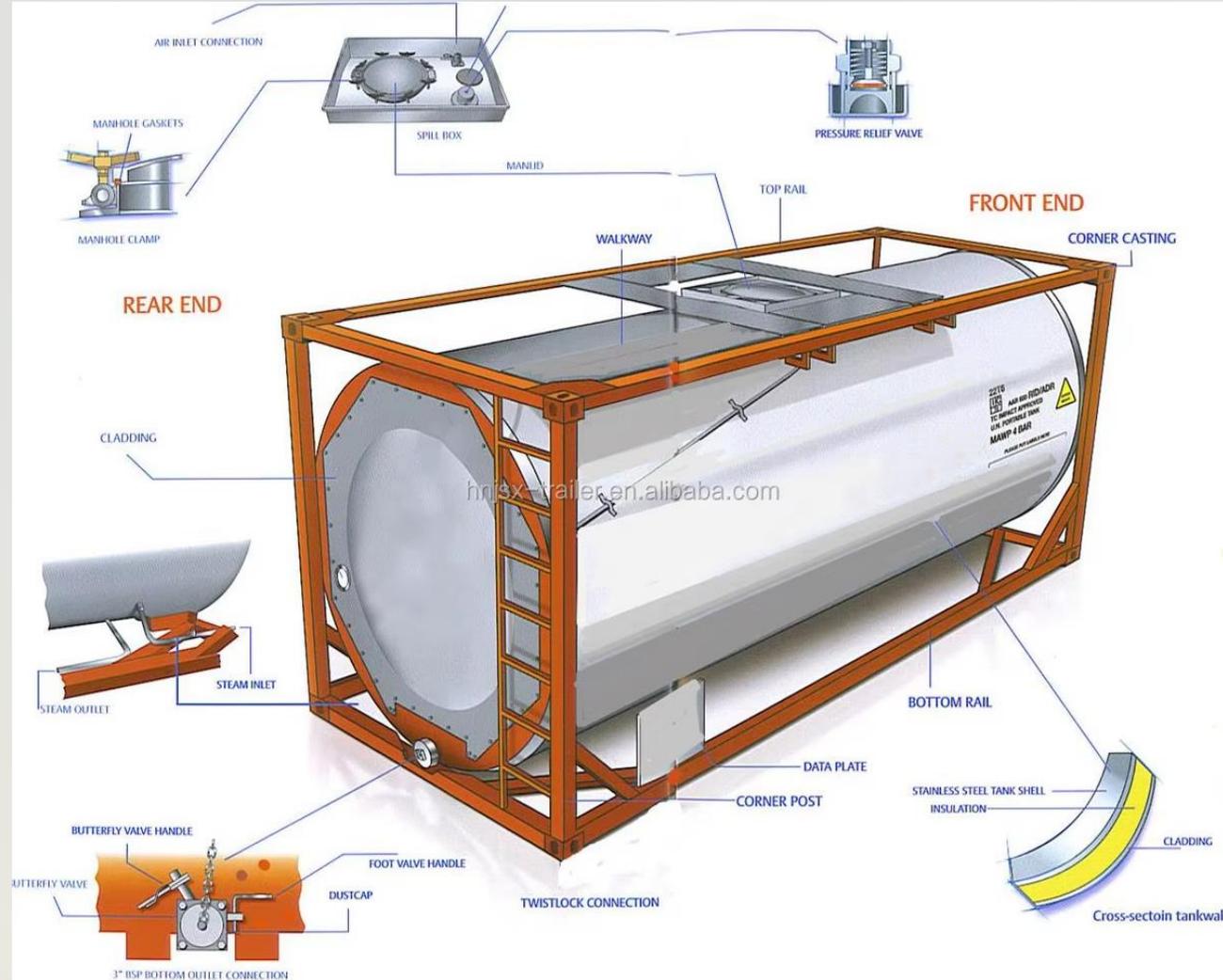
LARGE DIAMETER MOUNDED SPHERES



CRYOGENIC CONTAINERS



ISO T20, T50, T75 CONTAINERS



The image features a light beige background with a large, faint, light blue circle centered in the upper half. In the four corners, there are decorative line-art elements resembling circuit traces or a stylized tree structure, with thin blue lines and small white circles at their ends.

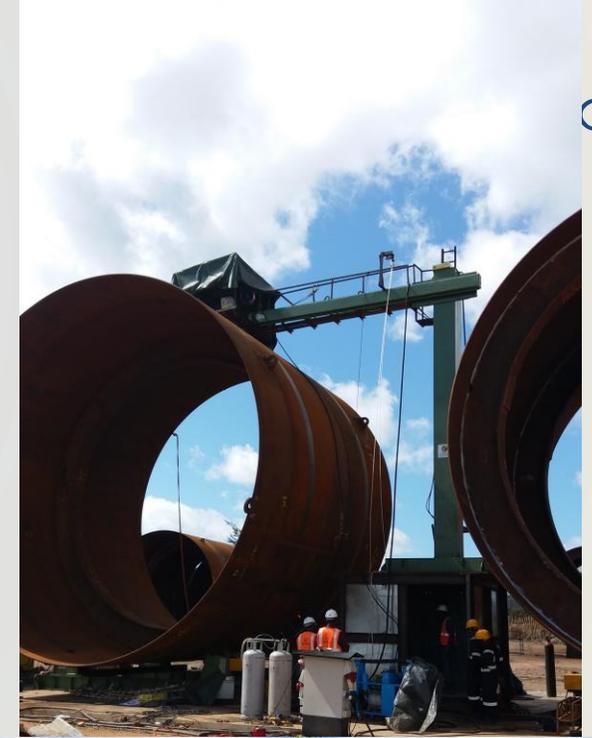
IN AFRICA

CONSTRUCTION OF MOUNDED TYPE 1650 MT X 15 NOS TANKS, TOTAL 25,000MT LPG IMPORT TERMINAL AT MOMBASA IMPORT TERMINAL, MOMBASA, KENYA

Design code	: ASME Sec VIII Div 2
Design Pressure	: 17.24 Bar at the Top
Capacity each of Bullet	: 3450 Cu M
Thickness of Shell	: 38 mm
Diameter of Sphere Length	: 8.0 meter Diameter c 68 meter



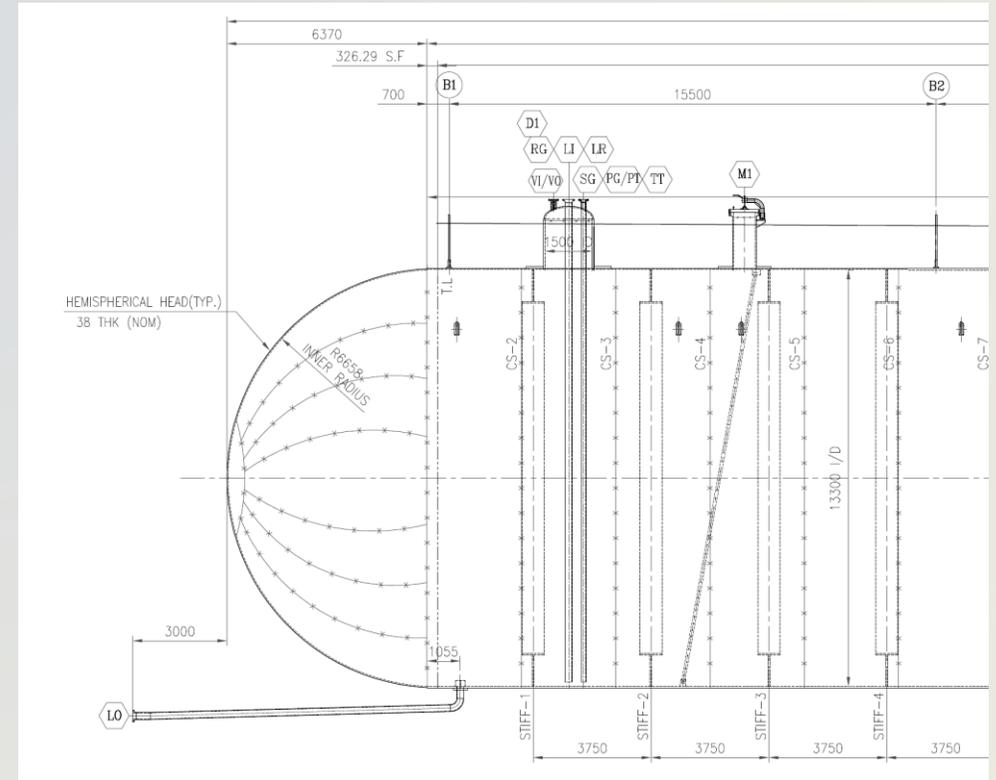
OPTECH





CONSTRUCTION OF MOUNDED TYPE 3500 MT X 4 NOS TANKS, TOTAL 15,000MT LPG IMPORT TERMINAL AT DAR, TANZANIA

Design code	: ASME Sec VIII Div 2
Design Pressure	: 17.24 Bar at the Top
Capacity each of Bullet	: 7800 Cu M
Thickness of Shell	: 54 mm
Diameter of Sphere	: 13.3 meter Diameter c 60 meter
Length	



CONSTRUCTION OF 4 NOS X 2500 MT LPG IMPORT TERMINAL WITH JETTY PIPING AT KENYA, MOMBASA

Design code	: ASME Sec VIII Div 2
Design Pressure	: 17.5 Bar at the Top
Capacity each of Sphere	: 5000 Cu M
Thickness of Shell	: 44mm
Diameter of Sphere	: 21.25m
Ship Unloading Rate	: 450MT/ Hr



CONSTRUCTION OF 6500MT LPG IMPORT TERMINAL WITH JETTY PIPING AT BERBERA, SOMALILAND

Design code	: ASME Sec VIII Div 2
Design Pressure	: 13.5 Bar at the Top
Capacity each of Sphere	: 5000 Cu M
Thickness of Shell	: 36mm (SA 537 Class 2)
Diameter of Sphere	: 21.25m
Ship Unloading Rate	: 350MT/ Hr



CONSTRUCTION OF 2 NOS X 2500 MT LPG IMPORT TERMINAL WITH JETTY PIPING AT MOGADISHU, SOMALIA

Design code	: ASME Sec VIII Div 2
Design Pressure	: 13.5 Bar at the Top
Capacity each of Sphere	: 5000 Cu M
Thickness of Shell	: 36mm (SA 537 Class 2)
Diameter of Sphere	: 21.25m
Ship Unloading Rate	: 450MT/ Hr



CONSTRUCTION OF 2500 MT LPG IMPORT TERMINAL WITH JETTY PIPING AT KIGAMBONI, DAR ES SALAAM, TANZANIA.

Design code	: ASME Sec VIII Div 2
Design Pressure	: 14.5 Bar at the Top
Capacity each of Sphere	: 5000 Cu M
Thickness of Shell	: 40mm
Diameter of Sphere	: 22m
Ship Unloading Rate	: 250MT/ Hr



SHIP UNLOADING PIPING

SIZE : 12 INCH

ONSHORE : 4000 METER

OFFSHORE : 1500 METER

OTHER FACILITIES

PIG RECEIVING FACILITY

CONNECTION TO CBM JETTY



RE-CONSTRUCTION OF 10000 KL CRUDE OIL FLOATING ROOF TANK AT OIL AND NATURAL GAS CORPORATION, ANKLSHWAR, INDIA

Design code	: API 650
Capacity each of Tank: 10,000 Cu M	
Type	: External Floating rood Tank
Design Pressure	: Atm
Thickness of Shell	: 10/12 mm
Size of Tank	: 34 meter Diameter x 12 meter
Height	



PETROLEUM TERMINAL IN SOMALIA X 2 TERMINALS

Design code	: API 650
Product	: PETROL/DIESEL/JET KERO
Capacity each of Tank	: 10,000 KL x 6 Nos
Type of Tank	: Floating Roof Tank
Size of Tank	: 34m x 13.2m
Ship Unloading Rate	: 1000MT Per Hr



PETROLEUM TERMINAL IN NIGERIA

Design code	: API 650
Product	: PETROL/DIESEL/JET KERO
Capacity each of Tank	: 5000 KL x 4 Nos
Type of Tank	: Floating Roof Tank
Size of Tank	: 25m x 17m
Ship Unloading Rate	: 250MT Per Hr



The image features a light beige background with a subtle, large-scale pattern of overlapping circles. In the four corners, there are decorative elements consisting of thin blue lines that branch out and terminate in small white circles, resembling a stylized circuit board or network diagram.

IN OTHER PART OF THE WORLD

CONSTRUCTION OF MOUNDED TYPE 1650 MT X 6 NOS TANKS, TOTAL 10,000MT LPG IMPORT TERMINAL AT DHAKA, BANGLADESH



OPTECH

Design code	: ASME Sec VIII Div 2
Design Pressure	: 17.24 Bar at the Top
Capacity each of Bullet	: 3450 Cu M
Thickness of Shell	: 38 mm
Diameter of Sphere Length	: 8.0 meter Diameter c 68 meter

2500MT LPG BARGE X 3 NOS -CLASS APPROVED

Design code	: ASME Sec VIII Div 2 + IGC
Design Pressure	: 13.0 Bar at the Top
Capacity each of Bullet	: 2502 Cu M X 2 – On One Barge
Thickness of Shell	: 44 mm / 60mm
Diameter of Bullet	: 11.0 meter Diameter
Class Approval	: RINA, China



CONSTRUCTION OF MOUNDED TYPE 3000 MT X 4 NOS TANKS, TOTAL 12,000MT LPG IMPORT TERMINAL AT DHAKA, BANGLADESH

Design code	: ASME Sec VIII Div 2
Design Pressure	: 15.00 Bar at the Top
Capacity each of Bullet	: 6000 Cu M
Thickness of Shell	: 38 mm
Diameter of Sphere Length	: 10.8 meter Diameter c 69 meter



OPTECH



2000MT LPG BARGE -CLASS APPROVED

Design code : ASME Sec VIII Div 2 + IGC

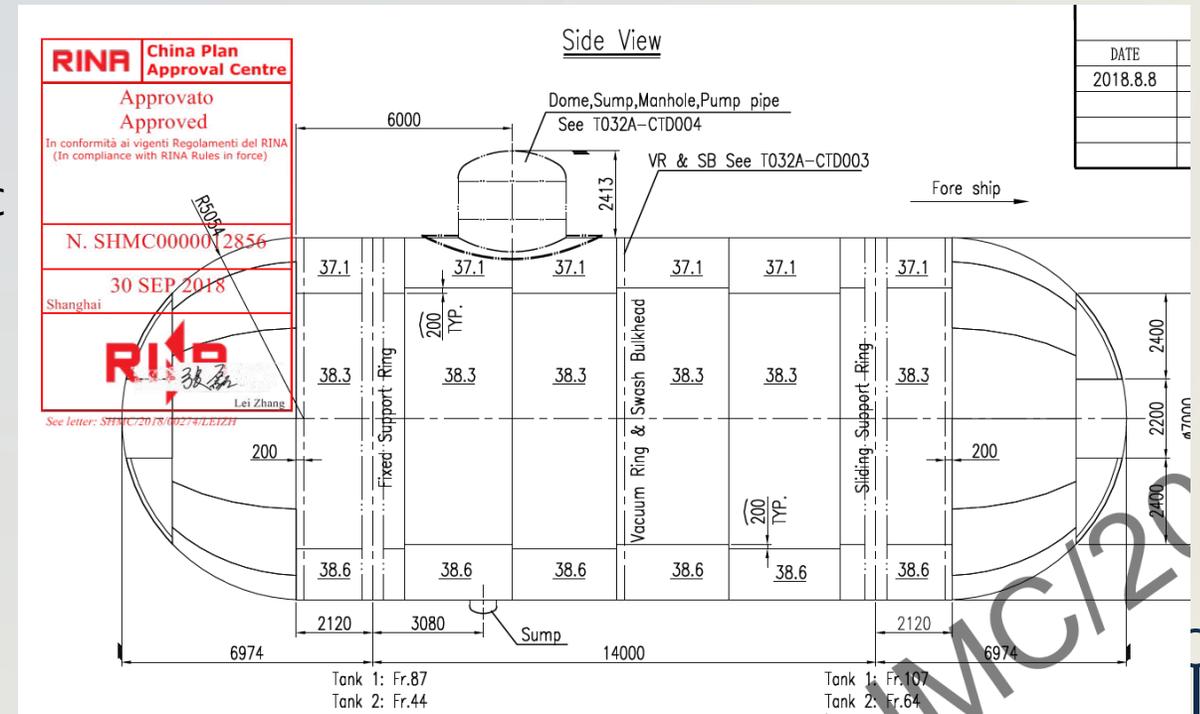
Design Pressure : 17.5 Bar at the Top

Capacity each of Bullet : 1982 Cu M X 2
– On One Barge

Thickness of Shell : 39 mm

Diameter of Bullet : 10.1 meter Diameter

Class Approval : RINA, China



CONSTRUCTION OF MOUNDED TYPE 1000 MT X 2 NOS TANKS, TOTAL 2,000MT LPG IMPORT TERMINAL AT MONGLA IMPORT TERMINAL, BANGLADESH

Design code : ASME Sec VIII Div 2

Design Pressure : 17.24 Bar at the Top

Capacity each of Bullet : 2100 Cu M

Thickness of Shell : 46 mm

Diameter of Sphere : 10.0 meter Diameter
x 34 meter Length



OPTECH

CONSTRUCTION OF 3000 MT LPG IMPORT TERMINAL WITH JETTY PIPING AT SITAKUNDO, CHITTAGONG, BANGLADESH



OPTECH

Design code

: ASME Sec VIII Div 2

Design Pressure

: 14.5 Bar at the Top

Capacity each Sphere

: 3000 Cu M

Thickness of Shell

: 38mm

Diameter of Sphere

: 18m

Ship Unloading Rate

: 200MT/ Hr



RE CONSTRUCTION OF 15000 MT X 2 NOS LPG REFRIGERATED STORAGE TANKS AT INDIAN OIL CORPORATION LIMITED, KANDLA IMPORT TERMINAL, GUJARAT, INDIA



OPTECH

Storage capacity per tank	15000 MT
Design code	API 620
Appendix R / 1990	
Inside diameter of Inner Shell	45200 mm
Inside diameter of Outer Shell	46800 mm
Height of Inner Shell,	18400 mm
Height of Outer Shell	20000 mm



CONSTRUCTION OF 2000 MT LPG IMPORT TERMINAL WITH JETTY PIPING AT MONGLA IMPORT TERMINAL, BANGLADESH

Design code	: ASME Sec VIII Div 2
Design Pressure	: 14.5 Bar at the Top
Capacity each Sphere	: 3840 Cu M
Thickness of Shell	: 42mm
Diameter of Sphere	: 20m
Ship Unloading Rate	: 200MT/ Hr



OPTECH



EPC CONSTRUCTION OF 20,000 CYLINDER PER DAY FILLING CAPACITY LPG BOTTLING PLANT FOR INDIAN OIL CORPORATION LIMITED, MYSORE, KARNATAKA, INDIA

Bottling plant Configuration:



OPTECH

Storage Capacity
Mounded Type

: 600 MT X 3 Nos LPG Bullets ,

Filling Shed

: 24 Head Carousel x 2 Nos
Supplied by M/s Kosan Crisplant

Tanker loading shed

: 8 Nos Tanker Loading, Unloading
shed with latest equipment in Place



EPC CONSTRUCTION OF 20,000 CYLINDER PER DAY FILLING CAPACITY LPG BOTTLING PLANT FOR INDIAN OIL CORPORATION LIMITED, THIRUNELVELI, INDIA

Bottling plant Configuration:



- Storage Capacity : 600 MT X 3 Nos LPG Bullets ,
Mounded Type
- Filling Shed : 24 Head Carousel x 2 Nos
Supplied by M/s Kosan Crisplant
- Tanker loading shed : 8 Nos Tanker Loading, Unloading
shed with latest equipment in Place



EPC CONTRACT FOR 1000MT LPG RATED MOUNDED TYPE INSTALLATION AT NEPAL GAS COMPANY, KATHMANDU BOTTLING PLANT, NEPAL. ALONG WITH 24 HEAD CAROUSEL AND COMPLETE BOTTLING PLANT.



Design code : ASME Sec VIII Div 2

Design Pressure : 14.5 Bar at the Top

Capacity each of Bullet : 1054 Cu M

Thickness of Shell : 28mm

Size of Bullet : 6.3 meter Diameter c 35 meter Length

Filling Shed : 24 Head Carousel of SIRAGA Make, All Filing Shed Equipment, Valve replacement without the cylinder evacuation.

