



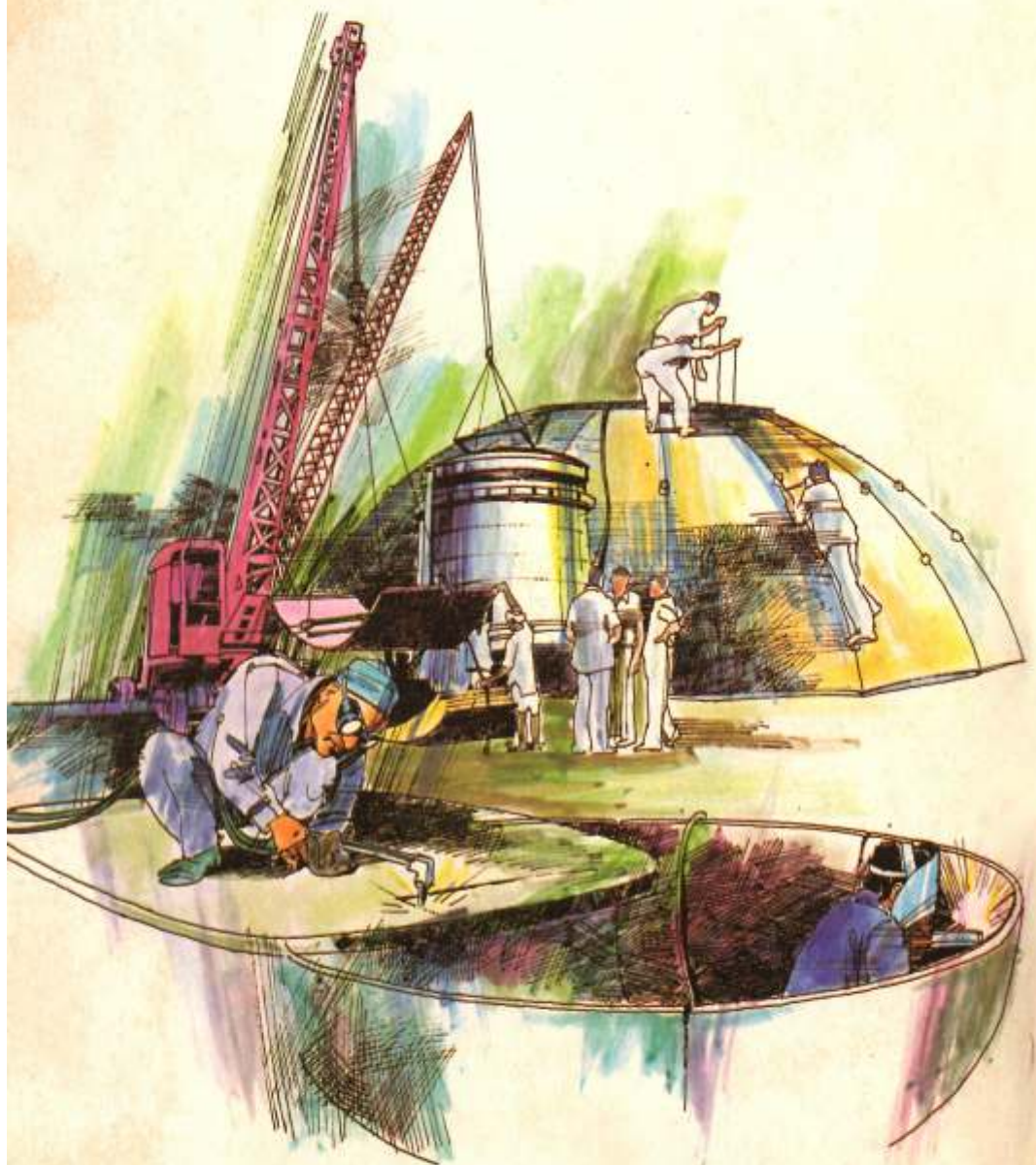
**VTV**

**VIJAY TANKS & VESSELS PRIVATE LIMITED**

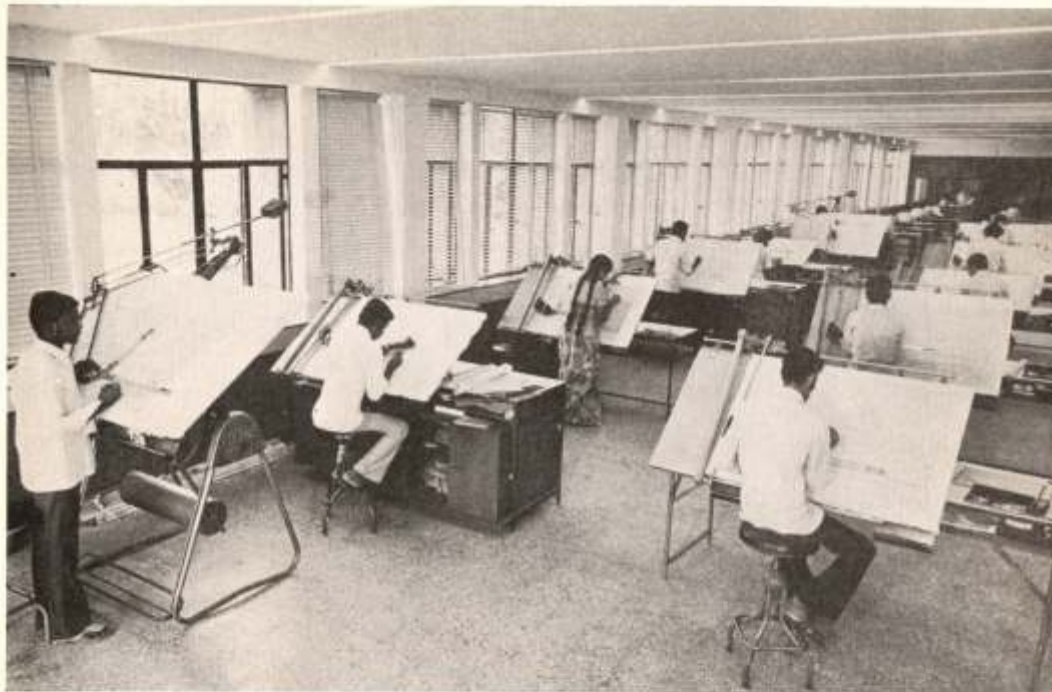


**VIJAY TANKS & VESSELS PRIVATE LIMITED**

93 L. B. S. Marg, Mulund (West), Bombay 400 080, India.  
Phone: 591894 — Telex: 011-4486



**VTV**  
CAPABILITY  
IN INDIA



*A view of design office at Mulund*

## VIJAY TANKS CAPABILITY

Vijay Tanks & Vessels Private Limited, Engineers and Constructors, have, since their inception 25 years ago, emerged as specialists in design and construction of large field erected floating roof tanks, cryogenic tanks, spheres, gas holders, pressure vessels, process columns and heat exchangers for the Refinery, Fertilizer, Petro-chemical, Power, Paper and Steel Industries, with a number of turn-key projects having been successfully completed on time in domestic and overseas markets.

The Company's impressive assignments that have earned for it a distinctive position in its field of activity include detailed engineering, construction and commissioning of —

- (a) Liquid Oxygen tanks with handling facilities for 3 steel plants;
- (b) Liquid Ammonia storage and handling facilities for a number of fertilizer plants in India;
- (c) Large crude oil storage terminals with handling facilities for a number of

refineries in India and overseas;

- (d) Large tank farms for refined products for a number of refineries in India and overseas;
- (e) High pressure storage spheres for liquefied petroleum gas for refineries in India and overseas;
- (f) Fractionating columns, pressure vessels, heat exchangers, alloy steel, clad steel & aluminium alloy vessels for refineries, fertilizer, petro-chemical, steel, power and paper industries.

Lists of contracts handled by the Company appended to this brochure, more particularly the technical & management consultancy assignment secured from State Establishment for Oil Refining and Gas Industry, (SEORGI), Baghdad, lend credence to its leadership.

VTV holds recognition from American Petroleum Institute for constructing tanks to API 650 & 620 codes.

As holders of licence for floating roof and cryogenic tanks from the world's renowned tank builders, Graver Tank & Mfg. Co., El Monte, California, VTV keeps abreast of contemporary advance in technology in tank design and construction.

### KEY NOTE— SELF RELIANCE

Self-reliance has led the Company to develop its own fabrication machinery—heavy plate benders, welding rectifiers, forging presses, positioners, TIG and MIG welding machines, automatic girth welders, perlite expanders, air lifting devices etc. Their largest hydraulic press can cold-form steel plates upto 100 mm thickness.

The Company has three works—two at Bombay and one at Madras. The main unit where pressure vessels are manufactured is located on a 9 acre land on the main Agra Road, Mulund, Bombay, where a covered area of 100,000 sq.ft. is housing metal fabrication facilities. Second factory is at Powai, Bombay, on a 3 acre land with a covered area of 25,000 sq.ft. housing the Drum/Barrel Plant as well as the Electrical Division manufacturing welding rectifiers, pneumatic tools and construction equipment to meet their growing project needs. The unit at Madras is located on a

5 acre land with a covered area of 25,000 sq.ft. where Bitumen drums and hatch covers for ships are manufactured.

VTV today offers the experience, the skills and the staff to assume responsibility for every project phase—from design to on-stream completion. Headquartered at Bombay, VTV has a well-knit field organisation, staffed with engineering, purchasing and construction personnel to work simultaneously at numerous project sites in India and abroad.

The Company employs about 3,500 men and 300 supervisory staff at works and construction sites to take care of their commitments. The Company has also developed a strong team of young dedicated engineers, currently 120 of them, who play a significant role in the Company's impressive growth.

### SOUND FINANCIAL STANDING

VTV's working funds exceed 150 million rupees with annual turnover around 300 million rupees.

Bankers are Syndicate Bank, Dena Bank, State Bank of India, and Grindlays Bank.

VTV's growth is largely due to its attitude towards its clients and its

progressive personnel policy. Timely execution of jobs with a high standard of workmanship to earn client's satisfaction is the Company's constant endeavour. This dedicated effort has paid its dividend in the form of steady and healthy growth.

VTV enjoys an excellent record of on-time job executions, largely due to combined efforts of its engineering, procurement and construction groups.

Within a period of three years, VTV has spread its overseas operations to cover nine countries—Kuwait, Saudi Arabia, Iraq, U.A.E., Syria, Libya, Kenya, Sri Lanka, Burma, Maldives and Bangladesh bagging contracts over U.S. Dollars 100 million. VTV has now the staff and the organisation to serve the needs of Petroleum, Petrochemical, and Fertiliser industry in overseas markets.

VTV's diversified activities include two new projects—

- (1) the formation of Marine Equipment Division for making hatch covers for ships and,
- (2) the making of paper and pulp machinery.

The pages of this brochure will convey, in a general way, the range and depth of VTV's capability.



*Crude heater constructed for 3.5 million tonne Petroleum Refinery in Gujarat*



*1000 tonne liquid oxygen double-wall tank at Rourkela Steel Plant*

## CLIENTS IN INDIA:

### 1. INDIAN OIL CORPORATION LIMITED

<p><b>Pipeline Division, Salaya Terminal</b> ..</p> <p><b>Haldia Refinery</b> .. .. .</p>	<p>10 nos. 90,000 M<sup>3</sup> Crude Oil floating roof tanks with ring wall foundations.</p> <p>Tank farm of 20 floating roof tanks and 77 Cone roof tanks aggregating 15,000 MT of steel work—including 5 crude oil floating roof tanks of 43,000 M<sup>3</sup> (70 M dia x 10.8 M high).</p> <p>Steel work for a 100 metre long x 30 metre wide maintenance repair shop.</p> <p>6 Pressure vessels for Dewaxing Unit. 3 Pressure vessels for ammonia service.</p>
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3 nos. 2500 cubic metre LPG Storage Spheres constructed for Bharat Petroleum, in Bombay



### Gujarat Refinery .. .. .

Tank farm of 110 floating roof and 60 cone roof tanks—including 4 crude oil floating roof tanks of 30,000 M<sup>3</sup> (56 M dia x 12.2 M high).

900 M<sup>3</sup> LPG storage sphere.

Clad steel vacuum column 6.4 M dia x 35 M High weighing approximately 180 MT.

Erection of first one million TPA atmospheric unit including heaters, piping and chimneys, 5 process vessels, 4 nos. C.S. columns, crude and vacuum heaters, 110 km of yard and process piping for 3 million tonne expansion unit.

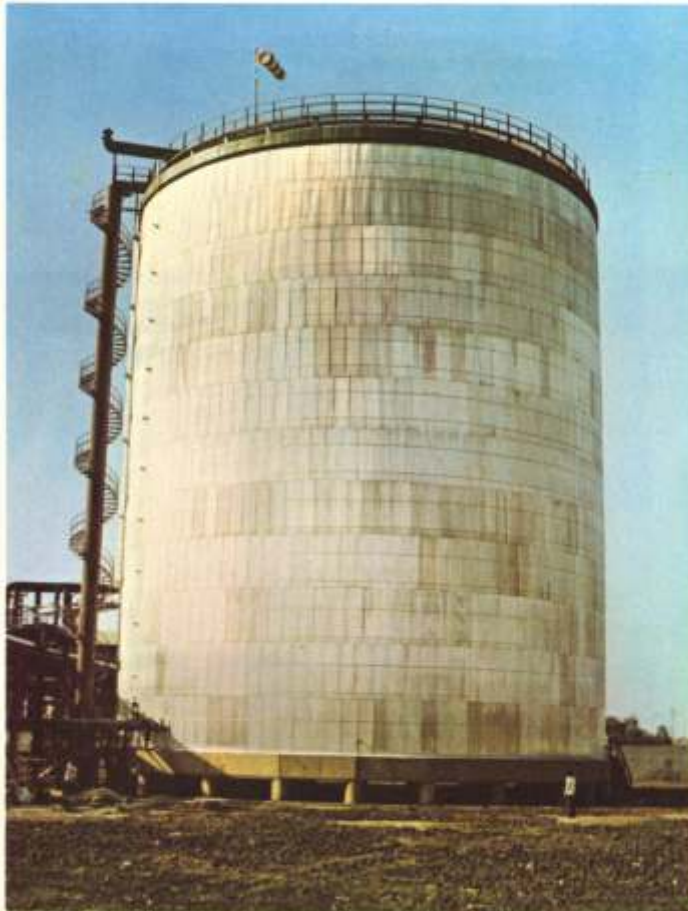
Detailed engineering & construction of pilot distillation facilities (pilot refining plant) consisting of civil foundations, buildings, equipments, tanks, heat exchangers and fired heaters, piping, electrical and instrumentation.



Stainless steel ammonia condenser under fabrication for heavy water project

<b>Gauhati Refinery</b>	..	..	..	400 M <sup>3</sup> capacity Horton sphere, 10,000 M <sup>3</sup> capacity floating roof tanks and 2 nos. of 2000 M <sup>3</sup> capacity cone roof tanks and interconnected piping works.
<b>Barauni Refinery</b>	..	..	..	7 Floating roof tanks including hard-top floaters with dome roof, 7 Cone roof tanks including one scroll tank.  Installation of 3 km underground piping.
<b>Mathura Refinery</b>	..	..	..	40 nos. pressure vessels.
<b>Marketing Division</b>	..	..	..	Oil terminal facilities at Port Blair, Andaman Islands, consisting of 3 storage tanks, civil works, pumphouse and pipeline manifold, 14" dock-line internal roads, truck and drum filling facilities, office building and warehouse.

A 15,000 cu.m. single wall liquid ammonia storage tank for GNFC, Bharuch



Bulk storage depots at Ahmedabad, Indore, Palghat, Salem, Trichy, Mangalore, Madurai, Tirunelveli and Calicut consisting of vertical and underground storage tanks, office building, pumphouse, stores/warehouse, roads, gantry for wagon loading/unloading, truck loading facility, drum filling arrangements.

Tank farms at Wadala, Shakurbasti, Willingdon Island, Ernakulam, Tondiarpet, Korukkupet, Garhada, Sabarmati, Sanatnagar and Tedepalli installations aggregating 8000 MT steel work.

40 nos. 200 KL underground storage tanks for aviation service at Palam, Bareilly, Poona and Santacruz Airports.

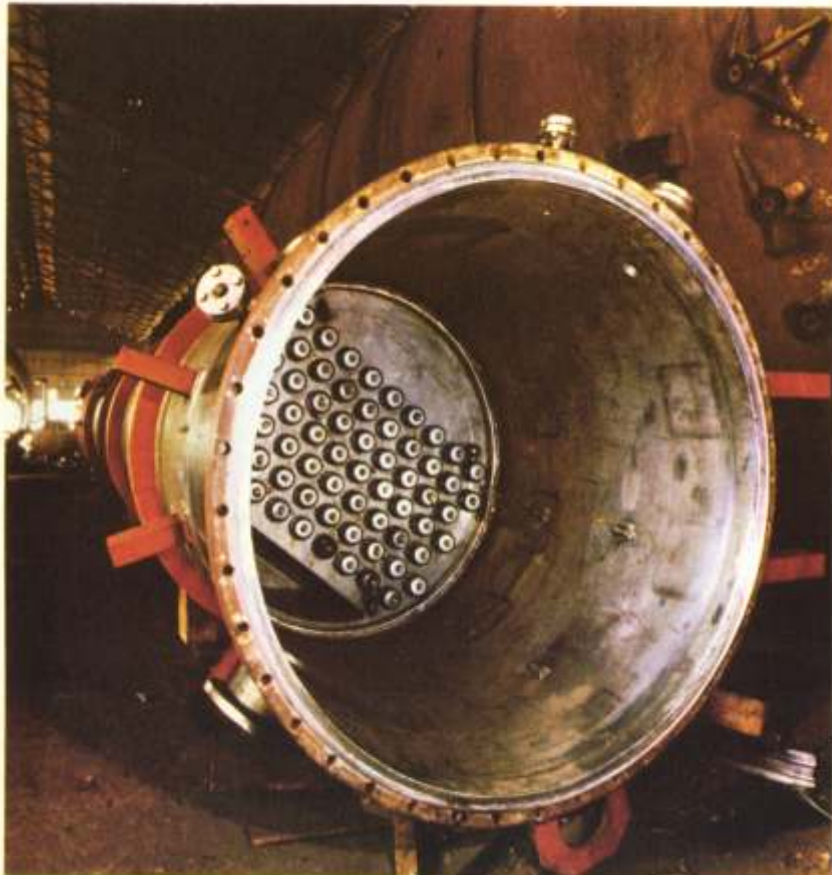
Pipeline network at Wadala, Shakurbasti, Willingdon Island, Ernakulam and Tondiarpet installations including pumphouse manifold.

<b>2. MADRAS REFINERIES LTD.</b>	..	..	..	Tank farm of 15 floating roof and 65 Cone roof tanks aggregating 12,000 MT of steel work including 4 crude oil floating roof tanks of 46,000 M <sup>3</sup> (64 M dia x 14.64 M high)  1,000 M <sup>3</sup> LPG storage sphere.  2 nos. 160 M <sup>3</sup> LPG storage bullets.
<b>3. COCHIN REFINERIES LTD.</b>	..	..	..	8 Floating roof tanks and 2 Cone roof tanks including 3 Crude oil floating roof tanks of 51,000 M <sup>3</sup> (66.75 M dia x 14.64 M high) 700 M <sup>3</sup> LPG storage sphere.
<b>4. INDIAN PETROCHEMICAL CORPORATION LIMITED</b>	..	..	..	8 spheres for storage of Butane, Butadiene etc.  137 Pressure vessels including 7 hydrogen bullets each of 50 M <sup>3</sup> capacity, design pressure 45 kg/cm <sup>2</sup> .  2 Wet seal gas holders 14 Columns including a 4.75 M dia x 40 M high, 4 M dia x 25 M high, 3.5 M dia x 3 M high and 2 M dia x 38 M high columns.
<b>5. HINDUSTAN PETROLEUM CORPORATION LIMITED</b>	..	..	..	7 nos. LPG storage spheres of following capacities: 1 no. 1350 M <sup>3</sup> , 1 no. 2500 M <sup>3</sup> , 2 nos. 195 M <sup>3</sup> and 3 nos. 1300 M <sup>3</sup> for their Bangalore & Nagpur depots.  3 nos. 400 M <sup>3</sup> LPG storage bullets 5 M dia x 52 M high crude distillation column.  39 Cone roof tanks, 5 Floating roof tanks, stainless steel cyclones and 15 Pressure vessels.  Bulk asphalt storage and handling facilities at Shakurbasti installation, tanks, heaters, pumphouse and all connected civil works.

- |  |  |
|--|--|
| 6. BHARAT PETROLEUM CORPORATION LTD. .. ..           | 3 nos. 2500 M <sup>3</sup> LPG storage spheres at Bombay, 2 nos. 1300 M <sup>3</sup> LPG storage spheres at Shakurbasti, New Delhi.<br><br>Relocation of bullets and interconnected works at Shakurbasti, New Delhi. |
| 7. BONGAIGAON REFINERY AND PETROCHEMICALS LTD. .. .. | 31 Floating roof tanks, 12 Cone roof tanks, 75 km of yard and process piping.  |
| 8. NAGPAL AMBADI PETROLEUM REFINING LTD. ... ..      | 92 Cone roof tanks and 14 Pressure vessels.  |
| 9. OIL INDIA LIMITED. .. ..                          | 1 Floating roof tank and 1 Bath type indirect heater.  |

10. BHABHA ATOMIC RESEARCH CENTRE
11. GUJARAT STATE FERTILIZERS CO. LTD.

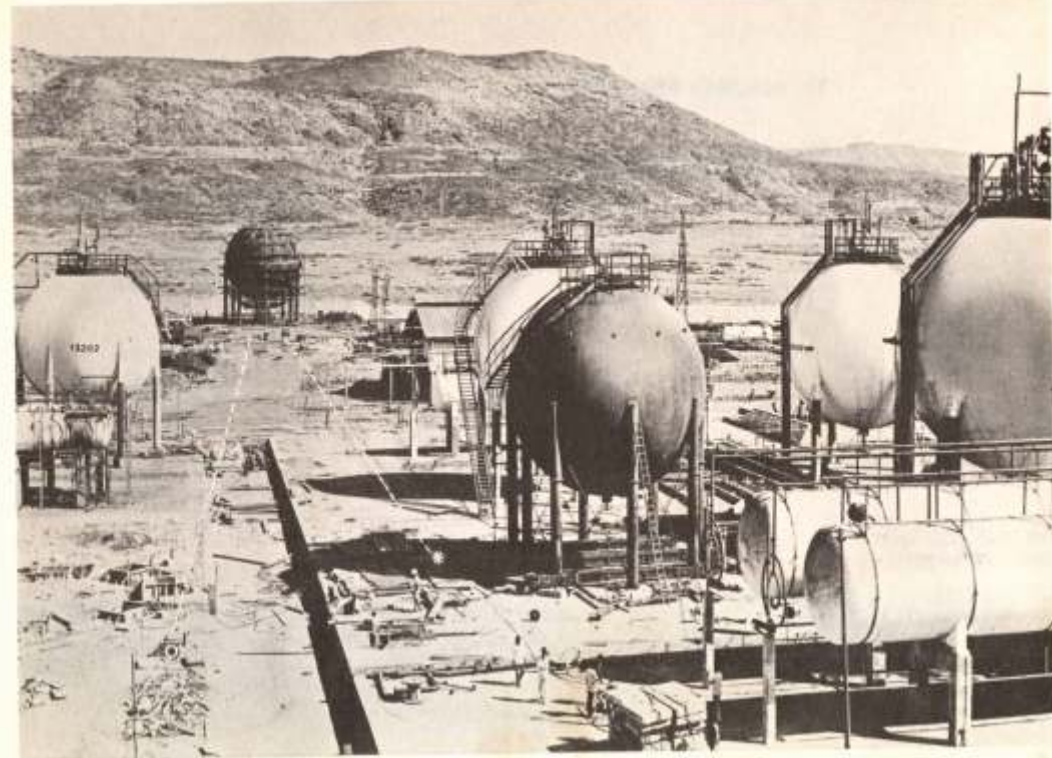
- 2 Carbon moly steel columns,  
3 Carbon steel columns and pressure vessels.
- 3 U tube heat exchangers with clad steel and carbon moly steel and stainless steel tubes.
- 3 Purge towers.
- 2,500 M<sup>3</sup> ammonia storage sphere with insulation and instrumentation.
- 2 Floating roof and one cone roof tanks, erection of chimney equipment and piping; construction of pumphouse and compressor house, storage chips silos.
- 1 no. 335 M<sup>3</sup> Nitrogen Storage Sphere.



← 1.6 M dia X 16 M high stainless steel recovered solution rectification column under final assembly for Hindustan Fertilizer Corp. Ltd., Durgapur

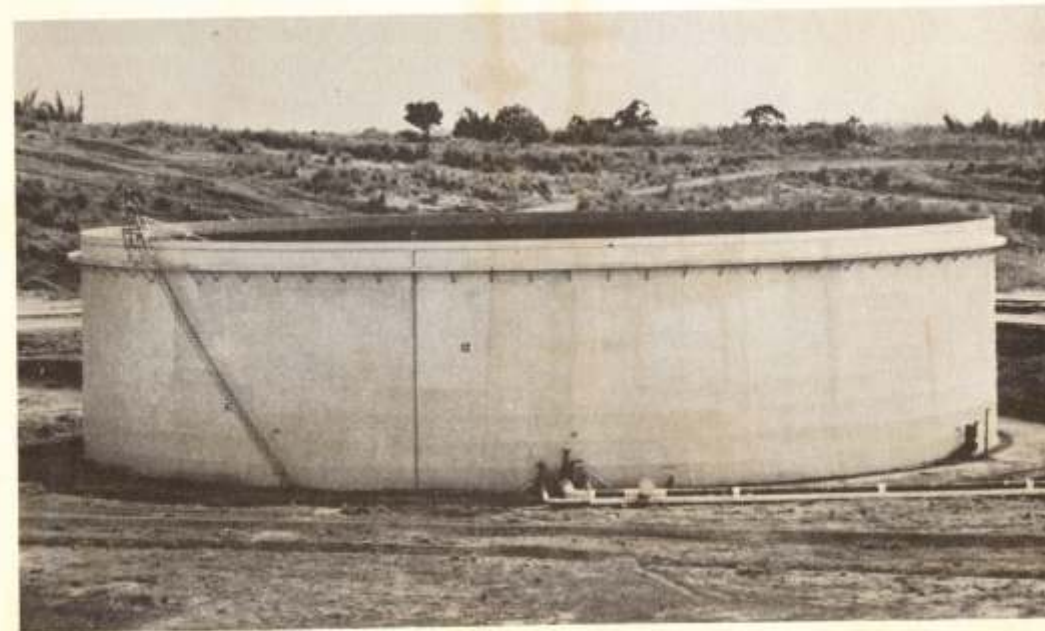


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|--|-------|---|
| 12. REACTOR RESEARCH CENTRE,<br>KALPAKKAM. .. ..                     | .. .. | 400 M <sup>3</sup> LPG sphere.  |
| 13. GUJARAT NARMADA VALLEY<br>FERTILIZERS CO. LTD. .. ..             | .. .. | One 15,000 M <sup>3</sup> capacity<br>atmospheric ammonia storage<br>tank.<br><br>17 pressure vessels including<br>2 nos. vessels made from carbon<br>moly steel.<br><br>7 nos. offsite tanks.<br><br>1 C2 Distillation tower.<br><br>1 Fuel Oil Suction heater.  |
| 14. FERTILIZER (PLANNING &<br>DEVELOPMENT) INDIA LTD. .. ..          | .. .. | 1 no. 10,000 MT atmospheric<br>ammonia storage tank for Haldia<br>unit, 4 nos. 5,000 MT<br>atmospheric ammonia storage<br>tanks for Nangal, Sindri, Barauni<br>and Durgapur units.<br><br>14 Cone roof tanks.<br>6 Stainless steel tanks.<br>2 Stainless steel heat exchangers.<br>25 Pressure vessels.<br>9 Carbon steel heat exchangers.<br>One 4.725 M I.D. x 48.7 M high,<br>and one 2.52/3.57 M I.D. x<br>45.91 M high carbon steel<br>columns, one 1.05 M I.D. x<br>36.3 M high stainless steel<br>column Reformer Gas boiler shell,<br>1 no. Boiler feed water heater and<br>1 no. Methanator from 1 chrome<br>moly steel.<br>HDS Reactor & H <sub>2</sub> S Absorber<br>from carbon moly steel. |
| 15. NATIONAL FERTILIZERS LTD.,<br>BHATINDA & PANIPAT PROJECTS. .. .. | .. .. | Two 2,500 M <sup>3</sup> liquid ammonia<br>storage spheres.<br>4 stainless steel columns<br>including 2, 1.8 M dia x 25 M<br>high columns.<br>4 Carbon steel columns.<br>6 Stainless steel tanks.<br>6 Pressure vessels.<br>20 Carbon steel storage tanks.  |
| 16. MANGALORE CHEMICALS AND<br>FERTILIZERS LTD. .. ..                | .. .. | 2 Floating roof tanks,<br>4 Cone roof tanks and<br>3 Stainless steel tanks.<br>30 M high flue gas stack.  |



*\* Propylene Sphere constructed at a distance and to be hauled to the running plant.*

*\* Ethylene Sphere (unpainted) constructed at a distance and hauled to its permanent position in a running Petrochemical Plant.*



*320,000 barrel crude oil floating roof tank ▶*



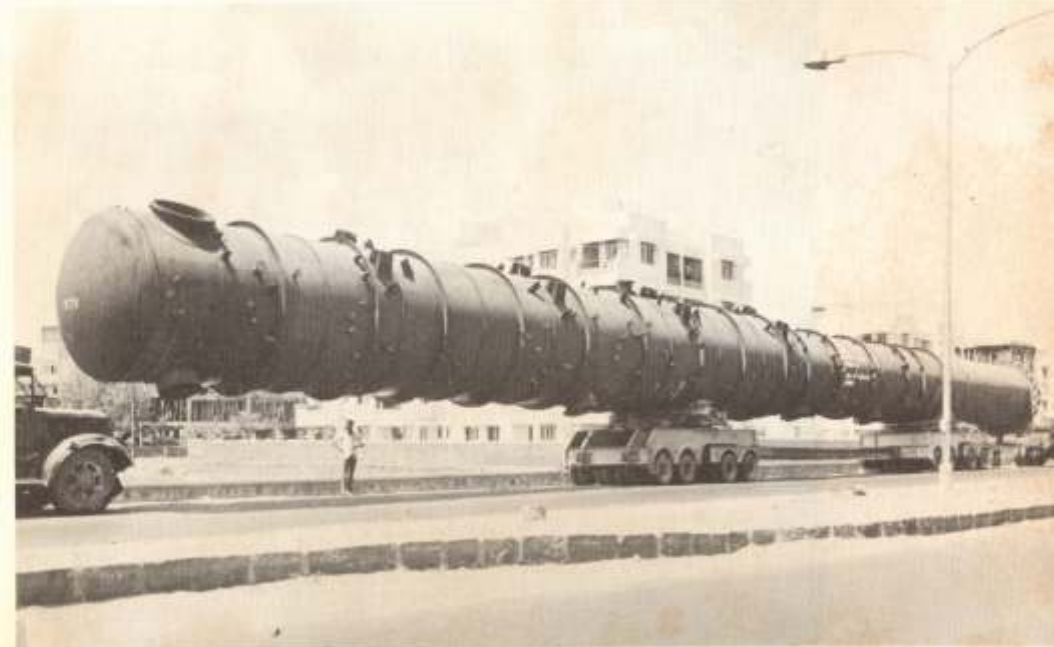
17. MADRAS FERTILIZERS LTD. .. .. 2 nos. 5,000 MT atmospheric ammonia storage tanks.
18. INDIAN FARMERS FERTILIZER CO-OPERATIVE LTD. .. .. 1 no. 10,000 MT atmospheric ammonia storage tank for Phulpur and 1 no. 10,000 MT atmospheric ammonia storage tank for Kalol.  
2 Floating roof tanks,  
12 Cone roof tanks,  
2 Stainless steel tanks and  
3 Pressure vessels.
19. COCHIN FERTILIZERS LTD. .. .. 1 no. 10,000 MT and 1 no. 5,000 MT atmospheric ammonia storage tanks.

*Pilot distillation facilities Plant for Gujarat Refinery to process feedstocks for producing speciality products*



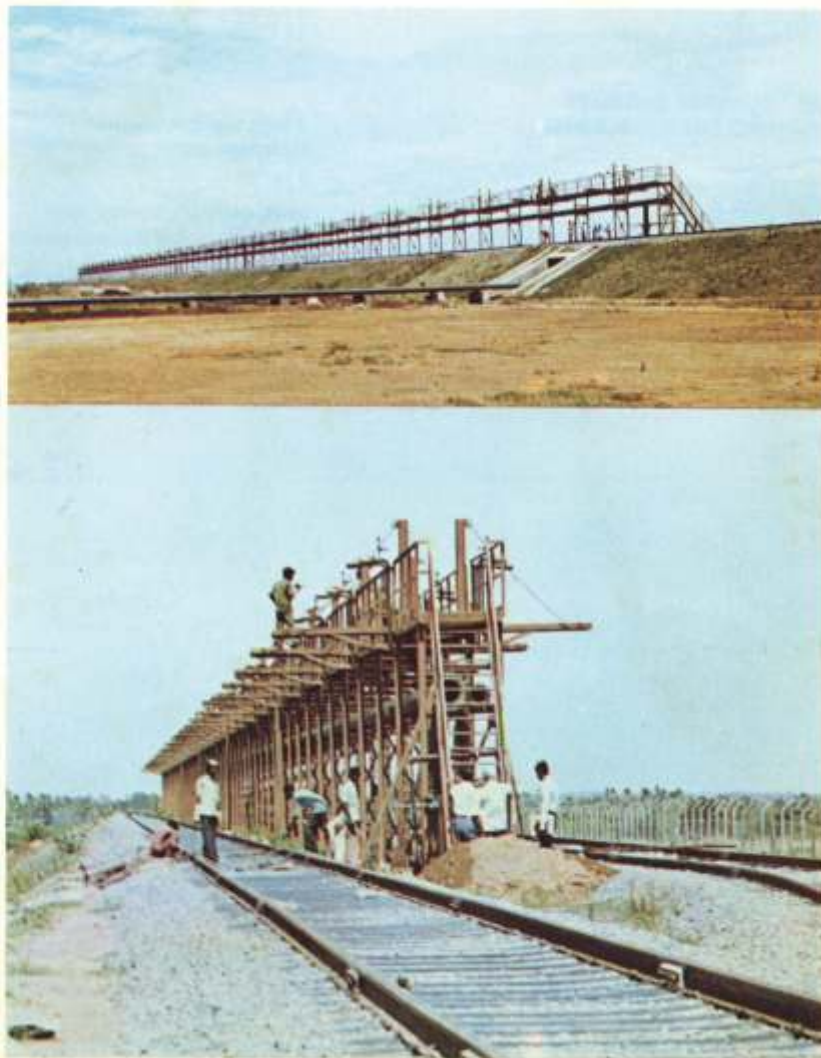
20. PLASTIC RESINS AND CHEMICALS LTD. .. .. 2 nos. 125 M<sup>3</sup> spheres for storage of inert gases, 4 Gas holders (single and double lift, wet sealed), one of 4,000 M<sup>3</sup> capacity.  
5 Distillation columns with bubble cap trays.  
5 process towers.  
Flare stack, air intake stack and acid purge stack.  
18 Heat exchangers.  
72 Pressure vessels.  
5 Floating roof tanks.  
12 Cone roof tanks.  
Hot well.
21. GUJARAT ALKALIES AND CHEMICALS LTD. .. .. 2 Wet seal gas holders.  
Hydrogen cooler and chlorine liquifier.  
2600 M<sup>3</sup> brine clarifier tank.  
14 Pressure and process vessels.
22. ASHOK PAPER MILLS LTD. .. .. Two 50 M<sup>3</sup> Chlorine storage tanks and one wet seal gas holder.

*3 M dia x 45 M long Distillation Column fabricated and transported in single piece*



23. NATIONAL ORGANIC CHEMICAL INDUSTRIES LTD. .. .. 400 M<sup>3</sup> high pressure liquid ethylene storage sphere including field stress relief and cold insulation.  
500 M<sup>3</sup> high pressure liquid propylene storage sphere.  
8 Storage tanks.  
15 Pressure vessels.

*A 60 LPG tank wagon unloading gantry for Salem Steel Plant*



24. POLYOLEFINS INDUSTRIES LTD. .. 2 Stainless steel reactor vessels.  
25. BHARAT HEAVY ELECTRICALS LTD. .. 3 Deaerators,  
3 120 M<sup>3</sup> capacity LPG Bullets, air receiver and other pressure vessels.  
26. BHARAT PUMPS & COMPRESSORS LTD. .. .. 15 nos. volume bottles/dampners.

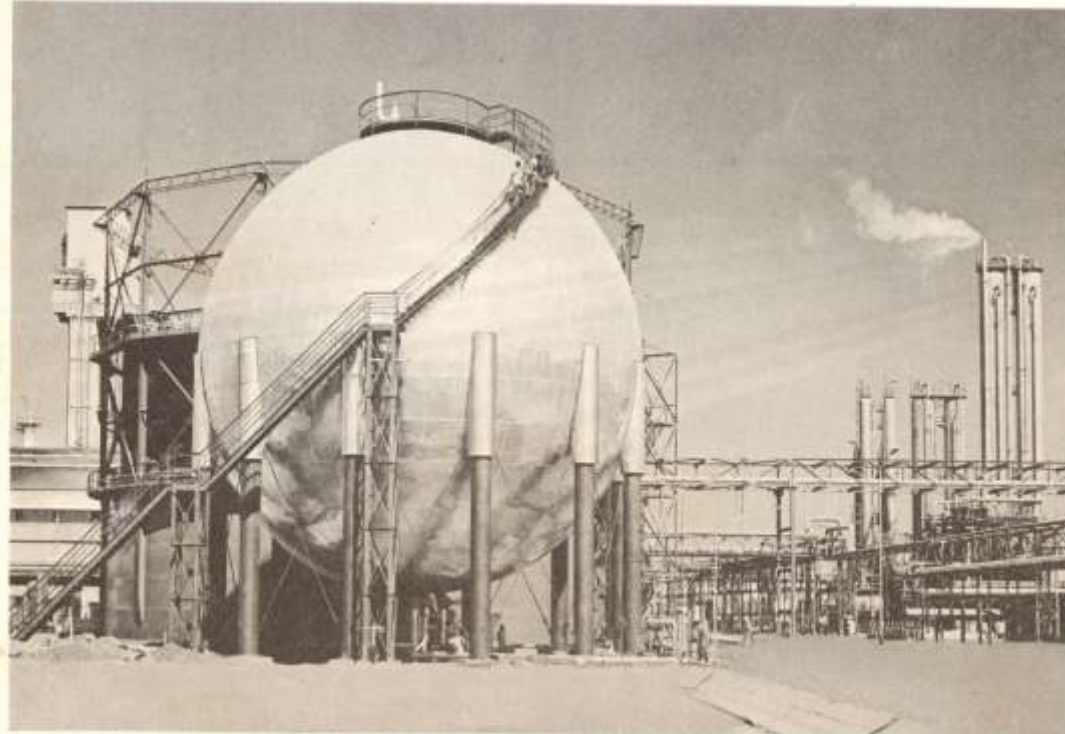
*A view of a Tank Farm and Piping in Bongaigaon Refinery where 43 tanks and 80 kms. of piping were constructed*



<b>27. SHREE RAYALASEEMA PAPER MILLS LTD.</b>	.. .. ..	4 nos. 100 M <sup>3</sup> Digesters and 5 nos. preheaters.
<b>28. WEST COAST PAPER MILLS LTD.</b>	..	One no. 80 M <sup>3</sup> Digester.
<b>29. ANDHRA PRADESH PAPER MILLS LTD.</b>	..	4 nos. 80 M <sup>3</sup> Digesters and 4 nos. preheaters.
<b>30. MYSORE PAPER MILLS LTD.</b>	.. ..	4 nos. 80 M <sup>3</sup> Digesters
<b>31. STEEL AUTHORITY OF INDIA LTD.</b>		
<b>Rourkela Steel Plant</b>	.. .. ..	1000 Tonne double-wall liquid oxygen tank (inner spherical tank made of aluminium alloy material and outer tank of carbon steel construction) operating at minus 183°C with perlite insulation under nitrogen blanketing, complete with product fill and delivery systems.

<b>Bhilai Steel Plant</b>	.. .. ..	2000 Tonne double-wall liquid oxygen tank (material used being aluminium alloy for inner tank and carbon steel for outer tank) operating at minus 183°C with perlite insulation under nitrogen blanketing and complete with product fill and delivery systems.
<b>Bokaro Steel Plant</b>	.. .. ..	2000 Tonne double-wall liquid oxygen tank (material used being aluminium alloy for inner tank and carbon steel for outer tank) operating at minus 183°C with perlite insulation under nitrogen blanketing.
<b>Salem Steel Project</b>	.. .. ..	LPG unloading, storage and handling facilities consisting of 3 nos. 500 MT capacity spheres, gantry for unloading LPG from 60 wagons at a time, compressor & vapouriser units with interconnected electrical, instrumentation and piping works at Salem.

17 M dia insulated ammonia storage sphere

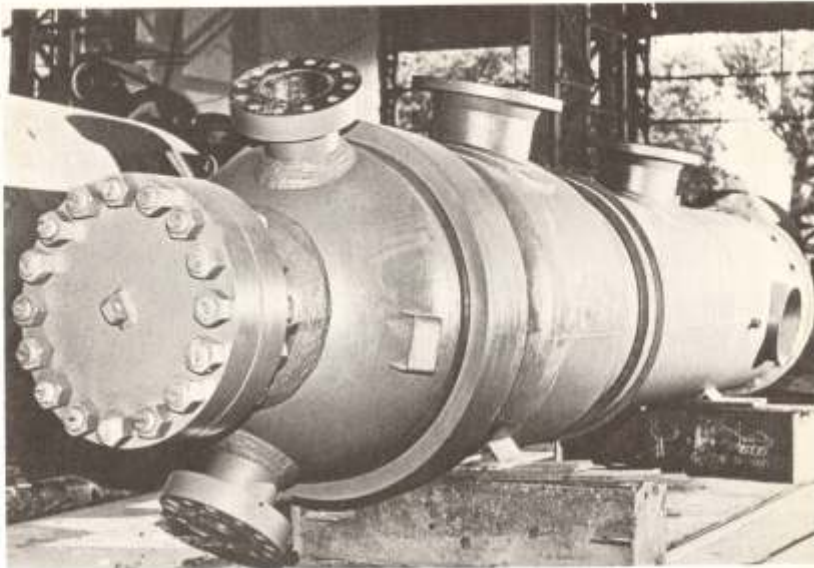


A 1.8 M dia x 39 M long shop-built fractionating column being shipped to a Fertilizer Project site

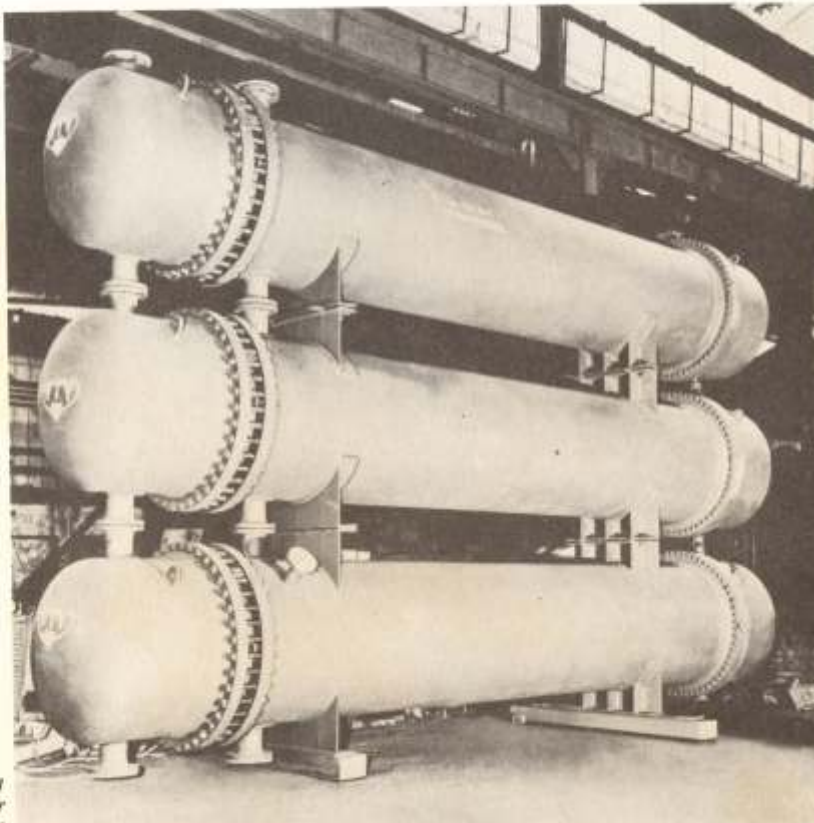




*Crude Oil Storage Terminal at Vadinar where 8 x 90,000 M<sup>3</sup> tanks were constructed*



*E. Boiler feed water heater made from alloy steel for a Fertilizer Project*



*A three-stage floating head heat exchanger for a Fertilizer Project*

**32. SOUTHERN PETROCHEMICAL INDUSTRIES LIMITED. .. ..**

Turn-key contract for construction of 1 no. 10,000 MT double wall atmospheric liquid ammonia storage tank complete with marine unloading refrigeration, handling and transfer facility at port of New Tuticorin.

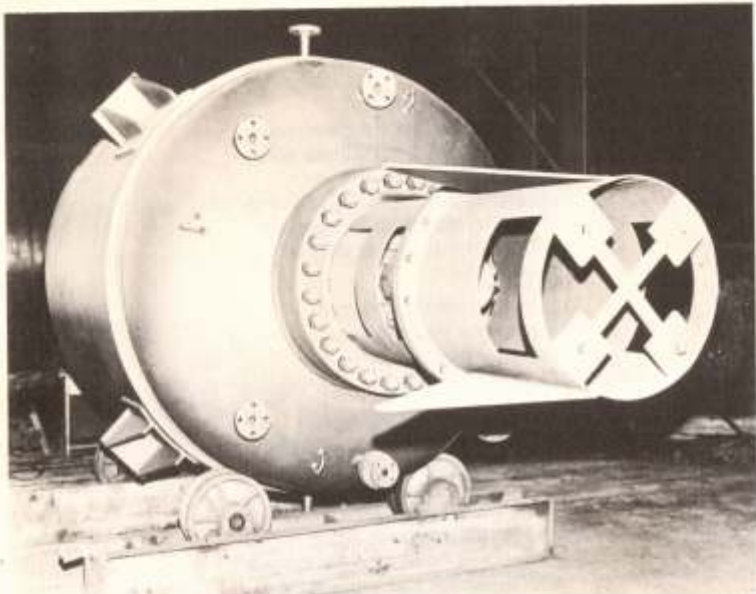
3 10,000 M<sup>3</sup> floating roof and 8 cone roof tanks including civil works.

**33. KERALA MINERALS AND METALS LTD., QUILON. .. ..**

Turn-key contract for design, engineering, fabrication, supply, erection and testing of 1 no. 100 MT capacity each double wall spheres with evacuated powder insulation for liquid oxygen and liquid nitrogen storage with pump-out and vapourising facilities for Titanium Dioxide Pigment Plant at Sankaramangalam, Quilon.

*100 M Pulp Digester—4 nos. supplied to a Paper Industry*





*High pressure Autoclave  
(Jacketed)  
for a Chemical Industry*



*The various stages of  
site assembly of shop  
fabricated Benfield  
Regenerator and  
Benfield Absorber*

*A 4.75 M dia x 40 M high fractionating column—  
under final assembly at a Petrochemical Complex*



*1,350 M<sup>3</sup> high pressure LPG storage sphere  
at Hindustan Petroleum Corporation*



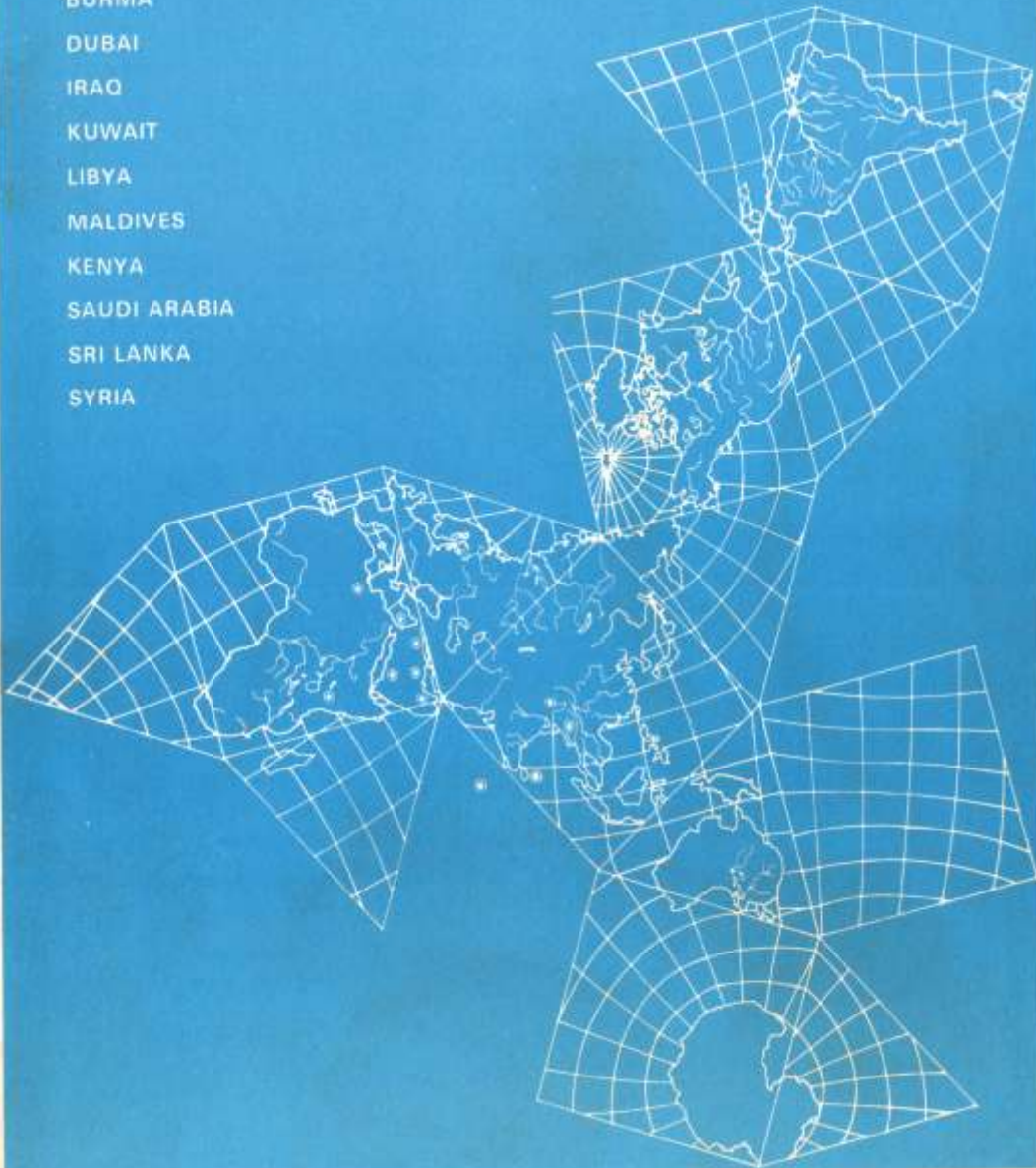


*The various stages of extension of height to Vacuum Pipe Still Column T-1 at a Refinery in Bombay with an especially designed derrick pulley arrangement*



### CENTRES OF EXTERNAL ACTIVITIES

- BANGLADESH
- BURMA
- DUBAI
- IRAQ
- KUWAIT
- LIBYA
- MALDIVES
- KENYA
- SAUDI ARABIA
- SRI LANKA
- SYRIA



### OVERSEAS CLIENTS:

NAIROBI, KENYA .. .. .

#### Kenya Pipeline Company

Tank farm at Nairobi Terminal and Embakasi Airport consisting of 4 Floating roof, 5 Dome roof and 18 Cone roof tanks, including foundations.

KUWAIT .. .. .

#### Kuwait Aviation Fuelling Co. (KSC)

Aviation Fuel Bulk Storage Depot consisting of 6 nos. 4600 M<sup>3</sup> epoxy-lined tanks, 3 nos. 400 M<sup>3</sup> fire water tanks, foundations, dyke walls, roads, pumphouse, installation of product, fire water and foam pumps with civil works, inter-connected piping, installation of fire fighting system, dewatering facilities, electrification including installation of power transformers and instrumentation works.

#### Kuwait National Petroleum Co.

2 nos. 10,000 barrel dome roof tanks and 1 no. 6,000 barrel cone roof tank, including civil works, insulation and instrumentation.

#### Kuwait Oil Company (KSC)

2 nos. 20,000 barrels capacity and 1 no. 10,000 barrel capacity dome roof crude oil storage tanks, with connected piping, civil works and instrumentation.

#### Kuwait Chemical Fertilizer Co.

15,000 barrel sulphuric acid tank including RCC pier foundation.



*Control console installed for automatic monitoring of product movement through the hydrant system at KAFCO, Kuwait*



IRAQ .. .. .

**State Establishment For Oil Refining And Gas Processing**

12 floating roof and 14 cone roof tank materials to Baghdad.

**State Company Of Glass Industries**

9 nos. 50 Tonne LPG storage bullets, 4 nos. 1,000 M<sup>3</sup> and 2 nos. 500 M<sup>3</sup> cone roof tank materials.

**Iraq Public Cement Company**

3 nos. 500 M<sup>3</sup> and 2 nos. 300 M<sup>3</sup> cone roof tank materials.

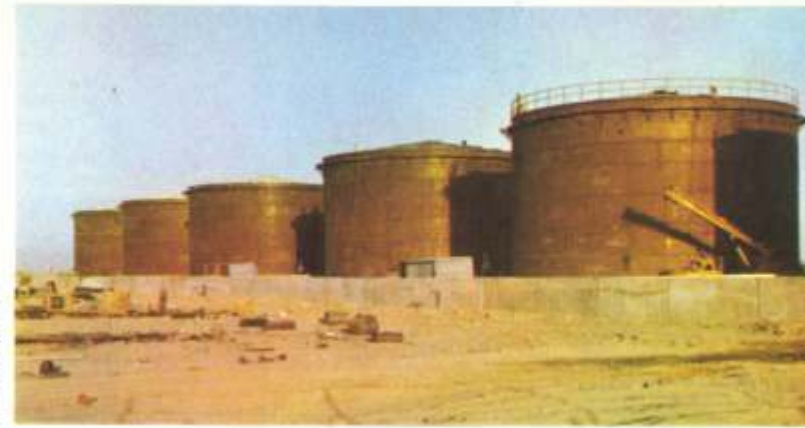
**State Organisation For Oil Projects (SCOP)**

2 nos. of 65,000 M<sup>3</sup> capacity double deck floating roof tanks for gasoline storage,  
2 nos. of 1,000 M<sup>3</sup> capacity propane spheres and  
1 no. 1400 M<sup>3</sup> capacity butane sphere.

*A view of aviation fuelling depot constructed on a turnkey for KAFCO, Kuwait*



*6 nos. 4600 cu. m. epoxy lined tanks for aviation turbine fuel storage under construction for KAFCO at Kuwait International Airport.*



*A view of 3 nos. 400 M<sup>3</sup> Fire Water tanks For KAFCO, at Kuwait Airport.*



*15,000 cu. m. heavy fuel oil storage tank under construction for Brega Petroleum Marketing Co., Tripoli.*

LIBYA .. .. .

**Brega Petroleum Marketing Co., Tripoli**

6 nos. storage tanks and  
4 nos. 1640 M<sup>3</sup> capacity LPG  
storage spheres.

**Secretariat Of Electricity,  
Tripoli**

2 nos. 50,000 M<sup>3</sup> water tanks

**National Oil Corporation,  
Tripoli**

8 nos. petroleum product storage  
tank materials for their West  
Libya Pipeline project.

**Tripoli West Thermal Power  
Station**

23 nos. oil & water storage tanks.

SAUDI ARABIA .. .. .

6 nos. 80,000 M<sup>3</sup> covered  
floating roof tanks for New  
Jeddah Airport Terminal.

SYRIA .. .. .

**Syrian Company For Oil  
Transport**

12 nos. floating roof and 5 cone  
roof tanks for Homs and Banias  
Oil Terminal aggregating 7,000  
MT of steel work.

SRI LANKA .. .. .

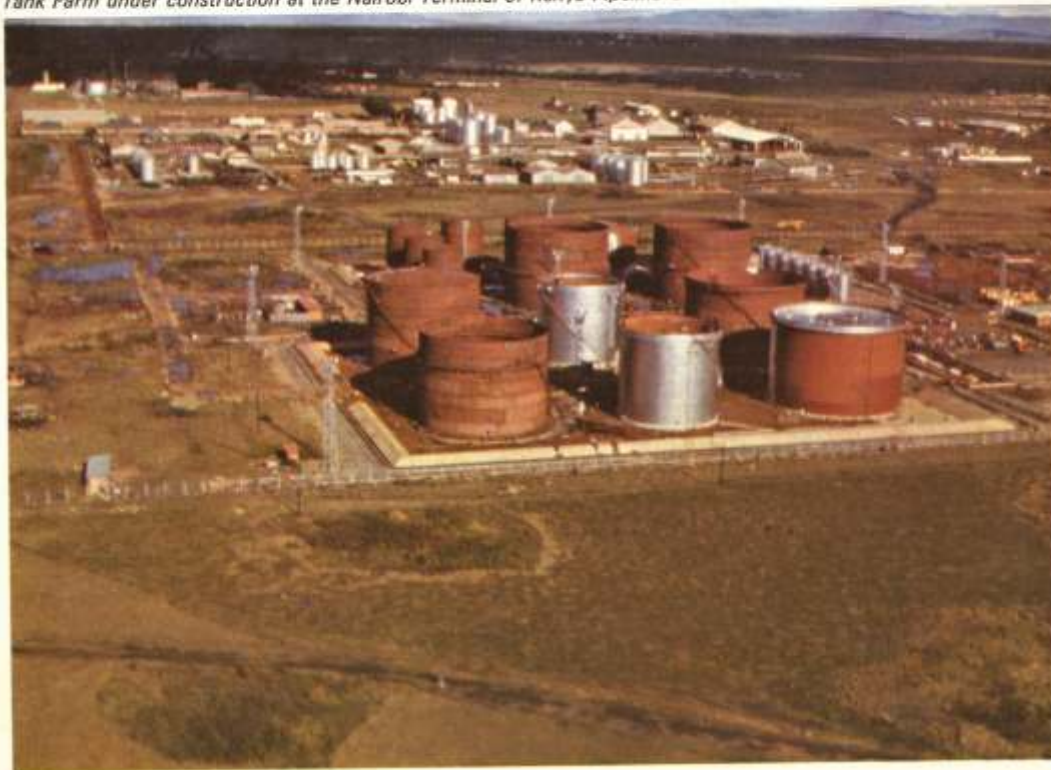
**State Fertilizer Manufacturing  
Corporation**

3000 Tonne double integrity  
ammonia storage tank including  
insulation and 21 nos. pressure  
vessels including clad steel vesse  
for Sri Lanka Fertilizer project.

**Ceylon Petroleum Corporation**

1 no. 40,000 MT capacity crude  
oil storage tank.

*Tank Farm under construction at the Nairobi Terminal of Kenya Pipeline Co. Ltd.*



*Tank Farm for aviation fuel storage at Nairobi Airport, Kenya.*



BANGLADESH .. .. .

**Ashuganj Fertilizer & Chemical Co.**

10,000 tonne double wall liquid ammonia storage tank and pressure vessels for fertilizer complex.

MALDIVES .. .. .

**International Airports Authority Of India**

Aviation fuel storage and handling facility for the Hulule Airport consisting of 3 nos. 1000 M<sup>3</sup> epoxy-lined tanks, foundations, dyke wall, road, pumphouse, control room, installation of pumps, unloading system from oil jetty, interconnected piping, dewatering facilities, connected instrumentation, electrical and civil works.

BURMA .. .. .

**Myanma Oil Corporation, Rangoon**

5 nos. 1 million gallon floating roof tank materials.

*3,000 metric tonne double integrity ammonia storage tank under final assembly at State Fertilizer Mfg. Corp. Sri Lanka.*



## VTV's MAIN WORK CENTRES AND ACTIVITIES

### (I) Pressure Vessel Works at Mulund, Bombay

Total Area 390,000 sq.ft.

Covered Area 100,000 sq.ft.

Maximum thickness of plates which can be rolled : 75 mm

Maximum width of plates which can be rolled : 3 M

(i) Maximum thickness which can be hot dished or formed : 125 mm

(ii) Maximum thickness which can be cold dished or formed : 100 mm

Maximum thickness which can be welded and radiographed : 100 mm

Maximum lifting capacity : 100 MT

Maximum size of vessel which can be stress relieved : 5 M dia x 20 M long

Type of materials which can be welded : Carbon steel, low alloy steel, stainless steel, clad steel, aluminium, aluminium alloy and non-ferrous materials.

Type of welding which can be done .. .. Manual shielded metallic arc welding, gas welding, automatic submerged arc welding, metallic inert gas welding and tungsten inert gas welding.

Codes of construction .. .. ASME Section VIII—  
Division I and II,  
BS 1500, BS 1515, BS 5500  
BS 2594, BS 2654,  
API 620, API 650,  
TEMA, AD Merkblätter and  
IS Codes.

Type of heads manufactured .. .. Elliptical, torispherical and hemispherical. Elliptical heads are hot forged in a single piece in the following sizes:  
1400 mm, 1300 mm  
1200 mm, 1000 mm,  
900 mm, 800 mm,  
700 mm, 650 mm,  
600 mm, 500 mm,  
450 mm, 400 mm,  
300 mm, 200 mm and  
150 mm.

Maximum weight and size of vessel transportable : Maximum weight— 100 tonnes  
Maximum size—  
4.2 M dia x 25 m long  
or 2.7 M dia x 50 m long.



*Filter water separators as part of aviation fuelling facility in Hulule, Maldives.*



*A pump house for an aviation fuelling facility in Hulule, Maldives islands.*

Method of edge preparation .. .. .	Carbon and low alloy steel by oxy-acetylene flame cutting followed by grinding; stainless steel and aluminium by plasma arc/shearing/arc air-cutting followed by grinding.
Testing facilities .. .. .	Gamma-ray, X-ray, magnetic particle/fluorescent magnetic particle, ultrasonic, dye penetrant, impact, hardness, tensile, elongation and bend testing facilities, pneumatic and vacuum testing, high pressure/high speed hydrostatic testing facilities available.
Tube expansion facilities .. .. .	Pneumatic, hand operated and electric torque controlled tube expanders available.
Pickling facility .. .. .	Bath size— 10 M x 3 M x 3 M with 3 compartments.
<b>LIST OF MACHINERY .. .. .</b>	<ol style="list-style-type: none"> <li>1. Plate bending rolls— 75 mm x 3 M</li> <li>2. Hydraulic presses for dishing and flanging dished ends for pressure vessels of <ol style="list-style-type: none"> <li>(i) 1,000 tonnes capacity</li> <li>(ii) 500 tonnes capacity</li> <li>(iii) 300 tonnes capacity</li> <li>(iv) 200 tonnes capacity</li> </ol> </li> <li>3. Forging furnace</li> <li>4. Normalising furnace</li> <li>5. Stress relieving furnace</li> <li>6. Guillotine shear for cutting plates upto 12 mm thick</li> <li>7. Submerged arc welding machines</li> <li>8. Plasma arc cutting machines</li> <li>9. TIG welding machines</li> <li>10. MIG welding machines</li> <li>11. Automatic girth welders for large field erected tanks</li> <li>12. Welding rectifiers</li> <li>13. Motorised positioners</li> <li>14. Lathes—6 Nos. of different sizes</li> <li>15. Radial drilling machines</li> <li>16. Pillar drills</li> <li>17. Air compressors</li> <li>18. Overhead cranes</li> <li>19. Other workshop machinery</li> <li>20. Roof air-lifting apparatus</li> <li>21. Perlite expanders</li> </ol>

<b>ITEMS MANUFACTURED .. .. .</b>	<ol style="list-style-type: none"> <li>1. Refrigerated and Cryogenic storage tanks—Liquid ammonia, Liquid oxygen, LNG, ethylene, etc.</li> <li>2. Floating roof &amp; fixed cone roof/dome roof tanks.</li> <li>3. Pressure spheres for storage of ammonia, LPG, chlorine, etc.</li> <li>4. Pressure vessels.</li> <li>5. Heat exchangers—fixed/floating heads.</li> <li>6. Columns &amp; Towers.</li> <li>7. Gas holders—Dry/Wet Seal.</li> </ol>
<b>(II) Container &amp; Electrical Division at Powai ..</b>	Total Area — 220,000 sq.ft. Covered Area— 25,000 sq.ft.
Facilities available and products handled—	<ol style="list-style-type: none"> <li>1. Complete drum plant for making drums upto 50 kg, bitumen drums upto 180 kg and lube oil barrels upto 205 litres.</li> <li>2. Electrical division manufacturing welding rectifiers, pneumatic tools and construction equipment.</li> <li>3. General steel fabrication jobs.</li> </ol>
<b>(III) Bitumen Drum Plant &amp; Electrical Divisions at Thiruvottiyur Works, Madras.</b>	Total Area — 130,000 sq.ft. Covered Area— 25,000 sq.ft.
Facilities available and products handled—	<ol style="list-style-type: none"> <li>1. Drum plant for making bitumen drums &amp; lube oil barrels.</li> <li>2. Electrical division manufacturing welding rectifiers, pneumatic tools and construction equipment.</li> <li>3. Hatch covers for ships.</li> <li>4. General steel fabrication jobs.</li> </ol>
<b>(IV) Construction Division located at Mulund, Bombay.</b>	Controls erection sites throughout India and overseas manned by a team of experienced management personnel adequately equipped with heavy lift derricks, cranes and other construction equipment.



*A view of the main work-shop of Vijay Tanks at Mulund, Bombay.*