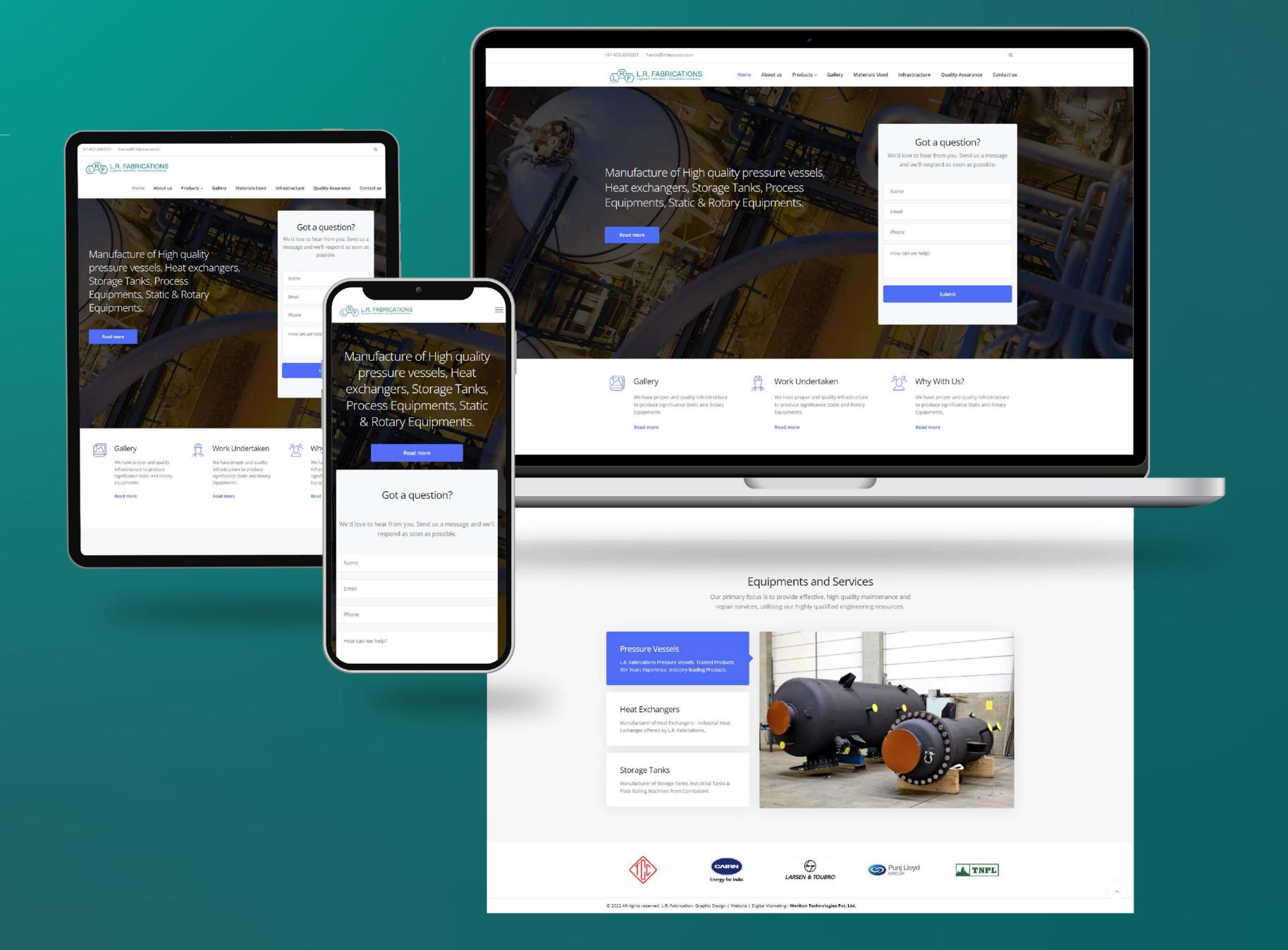
# L.R. FABRICATIONS Engineers, Fabricators, Consultants & Contractors

L.R. Fabrications has been a leading manufacturer of top-tier pressure vessels, heat exchanges, and more, adhering to stringent industry standards for quality and reliability.

## Website Design & Development

A website for a fabrication company serves as a digital storefront, showcasing capabilities, expertise, and services. It enhances visibility, credibility, and accessibility to potential clients and partners.



# Brochure Design

Brochure design showcases products, services, and capabilities, aiding in marketing, brand awareness, and informing potential clients effectively.



## About **Our Company**

L R Fabrications Pvt.Ltd was established Shri. L. Rajan (Late) in 1989 and succeeded by our Managing Director Mr. R. Francis having more than 35 years of experience in the field of fabrication and site erection. We started as a proprietorship concern then migrated to partnership firm in 2012 and at present we have grown as L R FABRICATIONS PRIVATE

We are accompanied by a team of personnel outrivaling in all stages of manufacturing, NDE, testing, documentation. Our facility is equipped with diversified machinery which fulfils the need.

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#### We have More than 25 years of experience in the field of 25 YEARS 33 the fabrication

L R Fabrications Pvt Ltd is a company involved in the manufacture of High-quality Pressure Vessels, Heat Exchangers, Pump Parts, Storage Tanks, Process Equipments, Static & Rotary Equipments as per ASME, ASTM, DIN, IS, TEMA, API 610 standards.

## **Products &** Services

#### Pressure Vessels

A pressure vessel, as a type of unit, is one of the most important components in industrial and petrochemical process plants. In the broad sense, the term pressure vessel encompasses a wide range of unit heat exchangers, reactors, storage vessels, columns, separation vessels, etc. (See also Mechanical Design of Heat Exchangers.) Because of the risks that would be associated with any accidental release of contents, in many countries the production and operation of pressure vessels are controlled by legislation.

This legislation may define the national standard to which the pressure vessel is to be designed, the involvement of independant inspection during construction, and subsequently the regular inspection and testing during operation. Some national pressure vessel standards such as ASME VIII (1993) or BS5500 (1994) have effectively the status of defacto international standards.

### **Operational Requirements**

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The first step in this design procedure is to set down the operational requirements. These are imposed on the vessel as part of the overall plant and include the following:

#### ଲେ **Operating Pressure**

As well as the normal steady operating pressure, the maximum maintained pressure needs to be defined. Regulations and/or standards will define how this maximum pressure is translated into vessel design pressure.

#### ÷ Fluid Conditions

Maximum and minimum fluid temperatures will need to be specified and translated into metal design temperatures. Fluid physical and chemical properties will influence material choice and specific gravity will affect support design.

#### **Operating Pressure**

Loads to be considered include wind, snow, and local loads such as piping reactions and dead weight of equipment supported from the vessel.

### **Transient Conditions**

We have proper and quality Infrastructure to produce

significance product deliverance

Some vessels may require an assessment of cyclic loads resulting from operating pressure, temperature, structural and acoustic vibration loading.



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A heat exchanger is a device used to transfer heat between two or more fluids. The fluids can be single or two phase and, depending on the exchanger type, may be separated or in direct contact. Devices involving energy sources such as nuclear fuel pins or fired heaters are not normally regarded as heat exchangers although many of the principles involved in their design are the same.

In order to discuss heat exchangers it is necessary to provide some form of categorization. There are two approaches that are normally taken. The first considers the flow configuration within the heat exchanger, while the second is based on the classification of equipment type primarily by construction. Both are considered here.

#### Classification of Heat Exchangers by Flow Configuration

- There are four basic flow configurations: Counter Flow
- Cocurrent Flow > Crossflow
- Hybrids such as Cross Counterflow and Multi Pass Flow

### Shell And Tube Heat Exchanger

- Recycle Gas Cooler E324/325 Design Code: TEMA C
- > Shell: 950 ID X 12 THk 6100mm Lg > Tube: 38.1 O.D X 1.626 Thk - 6100mm Lg
- > Shell MOC: SA 516 Gr.70 > Tube MOC: A 213 TP 316L
- > No.of Tubes: 308 Nos Customer: M/s. Kerala Minerals and Metals,
- Kollam

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#### Condensing Column Cooler E204/205

> Design Code: TEMA C Shell: 540 ID X 8 THk - 7633 mm Lg > Tube: 25.4 O.D X 10 BWG- 6900 mm Lg > Shell MOC: SA 516 Gr.70 > Tube MOC: SA 179 > No.of Tubes: 227 Nos Customer: M/s. Kerala Minerals and Metals, Kollam



#### Sulphuric Acid Cooler E315A/B > Design Code: TEMA C > Shell: 838 ID X 10 THk - 4480 mm Lg

> Tube: 25.4 O.D X 12 BWG - 3658 mm Lg > Shell MOC: SA 516 Gr.70 > Tube MOC: SA 179 > No.of Tubes: 932 Nos







Common industries and applications that use storage tanks and process tanks include:

Cosmetics processing processing Oil and fuel processing Paper and pulp processing Plastic processing Power generation Energy processing

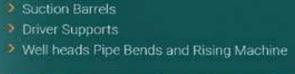
Chemical processing

Water applications



#### The pressure (in pounds per square inch (psi) or kilopascals (kPa)) measured at the centerline of a pump discharge and very close to the discharge flange, converted into feet or meters. The pressure is measured from the centerline of the pump to the hydraulic grade line of the water in the discharge pipe. Discharge Head, ft =

(Discharge Pressure, psi)(2.31 ft/psi) or Discharge Head, m =(Discharge Pressure, kPa) (1 m/9.8 kPa) Discharge Heads











Our Projects









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Well Head







Aluminum Bag Filter



### **Heat Exchangers** > Inconel 600

**Materials For** 

#### > Haste alloy > SA 240 UNS 31803, 32750, 32760

- Duplex & Super Duplex > SA 240 TP 304, 310, 316, 409, 410
- Sheets and Plates. > SA 312 TP 304, 310, 316
- Seamless Pipes

# **Our Infrastructure**

- 70140 Sq ft

**UNIT - 1** Total Handling Capacity Manufacturing capacity / Annum - 1000 Ton

Covered Area Open Area UNIT - 2 Total Handling Capacity - 47 Tons

- 40 Tons Manufacturing Capacity / Annum - 1500 Ton Covered Area - 9650 Sq ft

Open Area



> SA 516 GR.55, 60, 70.

> SA 515 GR. 55, 60,70

> IS 2002 GR.2. > IS 2062 GR. A/B

> Structural Steels

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# Corporate Presentation

Creating Engaging Corporate Presentations for Unforgettable Experiences.



# Objective

Delivering precision-engineered solutions with innovative design and exceptional quality, we aim to redefine industry standards and elevate brand identities.

# Solution

Fulfilling Your Fabrication Needs with Precision and Quality. We Craft Solutions to Elevate Your Brand's Identity and Market Presence.

# meriton

# Thank You!

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