



*Where Excellence Is  
A Way Of Life*



**Baroda Equipment and Vessels Pvt. Ltd.**

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**Baroda Equipment and Vessels Pvt. Ltd.**





A team of hands-on Indian professionals with many years of experience outside India working in the heavy engineering industry returns to home country in late 2007 with a dream. To create a world class heavy engineering manufacturing company for static process plant equipment in India. A facility that would be on par with the best in the developed world. The team acquires a plot of land in March 2008, acquires all legal approvals and permissions, designs the facility from scratch, constructs it by itself, acquires all the essential accreditations for the management system and product range – all in 15 months. By July 2009, the facility goes into commercial operation. Within a short span of time, the company earns the trust of an impressive list of global and domestic clients. It creates an enviable track record with its passionate commitment to quality, timely delivery and professionalism. Year after year, in excess of 60% of its sales comes from exports to first world countries. And that is the story of Baroda Equipment and Vessels Private Limited. Whether you are a global corporation looking for a reliable partner for your manufacturing needs or a project developer / owner seeking to buy an entire range of equipment for your upcoming project, or a plant operator looking for replacement of some capital equipment ..... we have everything that you are looking for.

Let me take you through it ..... Let us begin the journey together .....



Er. Lekshminarayanan S  
(Leks, for short)

Company Profile ▼

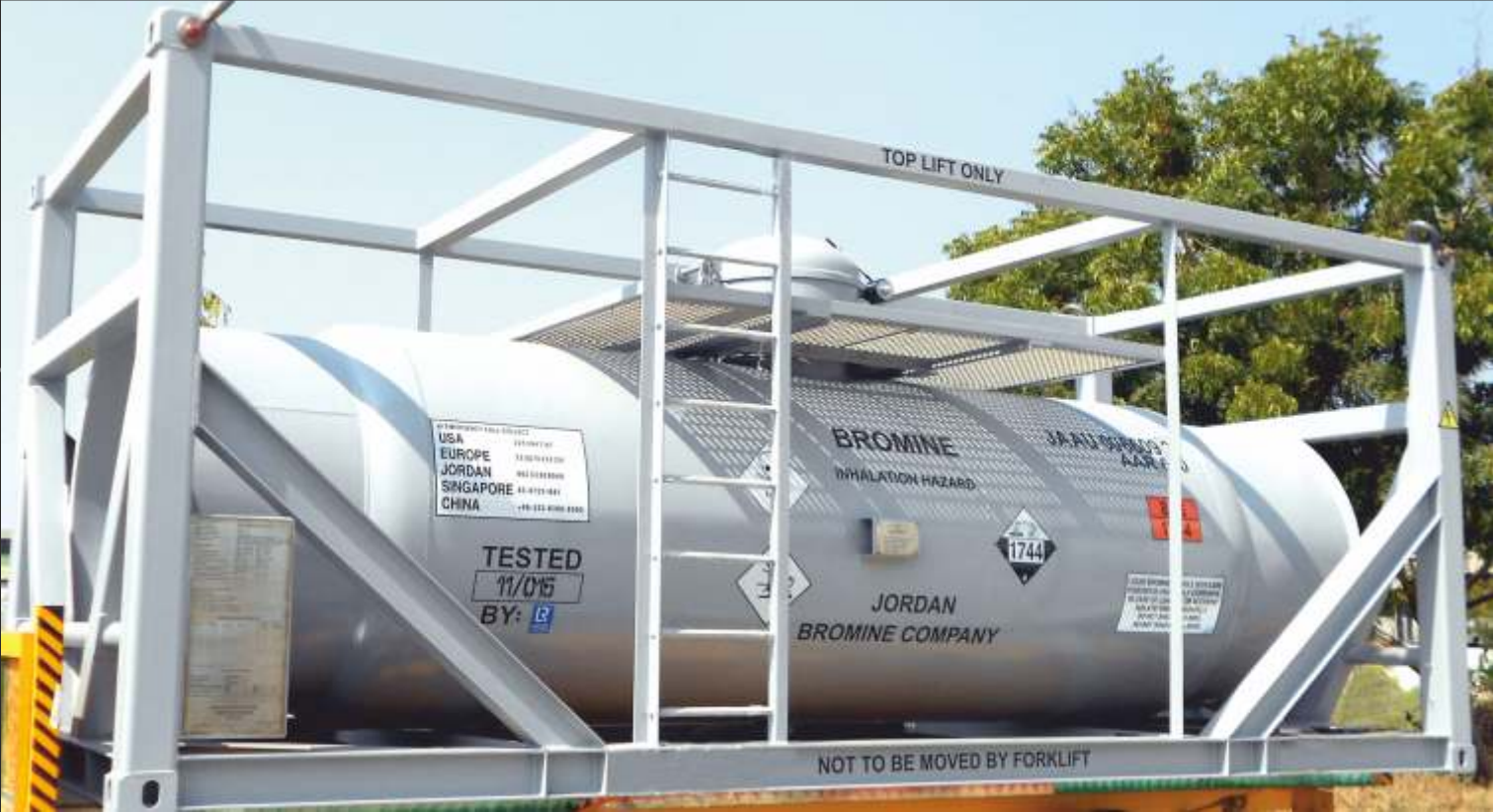
With an investment of Rs 36 Crores (USD 6.7 Million), the plant is spread over 8 acres area and a workshop floor area of 6,500 SqM. The facility is equipped to manufacture static process plant equipment for oil refineries, gas processing plants, offshore oil & gas platforms, petrochemical plants, chemical plants, thermal / nuclear / solar power plants, infrastructure sector etc. and a variety of other industries such as steel, fertilizer, cement etc.

We offer all our clients comprehensive solutions from design and detailed engineering through procurement, manufacturing, in process quality control, testing, certification and delivery. Our core management team has all the competencies necessary for realization of your project.

We have the best infrastructure, machinery and equipment. And a quality management system, occupational health and safety management system and a seamless ERP system to support our business processes. With a team of competent technicians, supervisors and support staff, you can be rest assured of a truly world class service.

Our aim is to become the preferred process plant equipment manufacturer for the industry.

We at BEV believe that excellence is not an attribute or end result, it is the attitude with which our business processes are created and sustained.



Our Product Range ▼

- Pressure vessels to ASME Sec. VIII Div.1, Div.2, AD2000, Merkblatt PD 5500, IS 2825, IBR 1950 with ASME U / U2 or S Stamp and/or CE marking, CUTR 032/2013
- Heat Exchangers to TEMA and client specs with ASME U / U2 Stamp and/or CE marking, CUTR 032/2013
- Storage Tanks to API 650, EN 14015, EN 12285
- Portable tanks for transport of hazardous chemicals with IMDG, US DOT, ADR, RID, UK DFT, CSC certification
- High pressure pipe work under ASME 'S' Stamp or IBR Stamp
- Various pressure parts for high pressure boilers ASME 'S' Stamp or under IBR
- Air cooled Heat Exchangers as per API 661
- Offshore containers to EN 12079 and / or DNV 2.7-1
- Custom designed structures for offshore and onshore applications
- Miscellaneous process plant equipment such as chimney, silo, duct work, rotary and tubular air preheater, static parts of fan, compressor, WHRSG Casing etc.
- Skid mounted assemblies such as metering / proving skids, dosing skids, compressor skids, pig launcher / receiver skids, filtration / pressure reduction / conditioning skids, lub oil skids etc.



**Baroda Equipment and Vessels Pvt.Ltd.**

**Connectivity Advantage**

Baroda Equipment and Vessels Pvt. Ltd. is situated in the Delhi-Mumbai Investment corridor, close to the State Highway SH16 and well connected to major ports and Airports.

Location : Padra Taluk, Vadodara District, Gujarat State, India  
Google Earth Coordinates : 22° 9'57.19"N, 72° 58'2.91"E  
Nearest Airport : Vadodara (domestic) 40 KM, Ahmedabad (International Airport) 120 KM  
Nearest Port : Dahej 60 KM, Hazira 130 KM, Mundra 400 KM, Nhava Sheva 400 KM

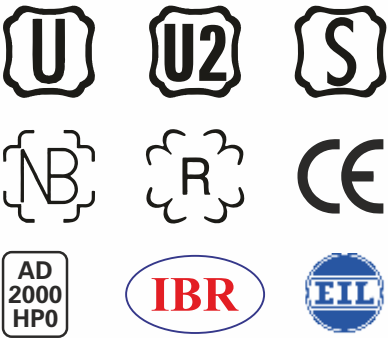




Our Credentials ▼

The facility holds ASME 'U', 'U2', 'S', and National Board USA 'R' and 'NB' Stamps for manufacture and repair of code stamped vessels, boilers and boiler components. The facility is recognized as a manufacturer of pressure vessels and heat exchangers under AD2000 Merkblatt HP0 and Pressure Equipment Directive of the European Union (PED 2014/68/EU Module H1 and H). We are also an approved shop under Indian Boiler Regulations. The shop is also approved by Engineers India Ltd. (EIL) for pressure vessels.

The quality management system is certified to ISO 9001: 2008 under an UKAS accredited system by Bureau Veritas. Occupational Health and Safety management system is certified to OHSAS 18001: 2007 under an UKAS accredited system by Bureau Veritas.



PESO



Our Manufacturing Plant ▼

Purpose built factory building is of size 130 M long x 50 M wide x 12.6 M height at eaves. It consists of two parallel bays, each 25 M wide. Main administrative building is split over two floors, with 540 SqM on each level.

About 22,000 SqM open laydown area is available.

Access road from main gate to factory building is 4.5 M wide and is fully concreted.

Power from the grid: Installed Capacity: 750 KVA, Contracted Demand 330 KVA. Available 24x7

Water for industrial use is available from 75 M deep bore well; and a concrete sump of 70 CuM storage capacity with recycling and filtration system in place

Overhead Cranes: 1 x 32 Tonne, 9.2 M height below the hook  
1 x 10 Tonne & 4 x 5 Tonne, 6.2 M height below the hook

Largest work piece that can be moved through the shop in a single piece: 6.2 M height / 7 M width



Our Machinery and Equipment ▼

For material preparation, we have a CNC profile cutter 14 M long x 3.1 M wide with plasma and oxy fuel torches. We can roll shells up to 85 mm thick and 3.2 M wide. Cold working is maximized with a 300 Tonne Hydraulic Shear (20 mm thick x 3 M wide), CNC Horizontal Band Saw, Universal Steel Worker etc. We have a well equipped machine shop with a with a 3 Axis CNC Vertical Machining Centre Hartford PRO 3210 imported from Taiwan with bed size 3150 mm x 2100 mm with 70 bar through coolant BT50, 6000 rpm spindle, 20 tools ATC, right angle milling head and Fanuc controller. The machine shop also has a radial drill and 3 gap bed lathes.

We have a wide range of welding manipulators such as column and boom 4 M x 7 M, heavy duty rotators up to 100 tonne and positioners up to 3 tonne. We have the entire range of welding gear viz., SAW, SMAW, GTAW and FCAW welding machines. We also have BugO Speed Weaver welding oscillator for GTAW / FCAW and custom developed jigs for tube to tube sheet welding. There are also baking and holding ovens for welding electrodes and flux, apart from portable quivers for welders and. For stainless steel and exotics, there is a purpose built, segregated area.

We carry out post weld heat treatment / stress relieving in temporary purpose built furnaces within our facility or in gas / oil fired furnaces at a specialist subcontractor's premises.

For surface preparation prior to painting, we have a completely enclosed steel grit blasting facility complying with Euro III norms imported from Hodge Clemco, UK. Its size is 16M (L) x 8 M (W) x 5 M (H). It is serviced by 2 x 300 CFM (55 KW) Compressors with Air Receiver and Refrigerant Air Drier. Items bigger than this are blasted under custom built canopies using 200 litres blast pots and copper slag as abrasive medium. Painting facility is fully equipped with Graco 60:1 air less spray painting machine as well as cup guns. Special erosion resistant internal coatings can be applied using Belzona or Ceramkote products. If lead / rubber / PTFE / PPE lining is required for pressure vessels, these could be arranged through specialist subcontractors.

We have a wide range of measuring and testing instruments all with valid calibration certs from NABL approved labs. Non destructive testing such as radiography, ultrasonic, dye penetrant and magnetic particle are available. We have separate film developing room and viewing room for radiography. Pit room for radiography source is also available. Metallurgical, mechanical and chemical testing are done at NABL accredited testing laboratories.



Design and Engineering Capability ▼

BEV has a team of competent design engineers, associates, design checker and CAD draftsmen experienced in this field. Generally PV Elite supplemented with custom developed spread sheets is used for mechanical design. Thermal design and hydro dynamic layout is developed using HTRI / Aspen by our design associates. Finite element analysis and stress analysis etc. can also be carried out at our design associates. In case process design or design of vessel internals is required, we can establish arrangements with well known European engineering companies operating from India or Europe.

Autocad is extensively used for drafting. Cutting / nesting plans are developed using Messer Omniwin software and transmitted to CNC Profile Cutter through dedicated fiber optic network. Machining of complex work pieces is developed using proprietary Hartrol software and transmitted through dedicated fiber optic network.

If structural design and analysis is required, it could be done at our

design associates using Staad Pro (or) Strap. We also have competent electrical / instrumentation engineers and technicians for skid mounted assemblies.

We have the latest version of all necessary codes and standards.





Human Resources ▼

Our core management team itself has an impressive range of personnel qualifications. These include Level III, ASNT in RT, MT, PT and Level II in UT and VT, API 510 Certified Pressure Vessel Inspector, CSWIP 3.1 / 3.2 Welding Inspector, AWS Welding Inspector, Grade 2 BGAS Painting Inspector, BARC Licensed Radiographer, IRCA Certified ISO 9000 Lead Auditor, OHSAS 18001 Lead Auditor etc.

BEV has a highly experienced team of supervisors, foremen and technicians with proven experience in the heavy engineering industry. They are backed by a competent team of design / project / production/ quality engineers and office staff.

We value all our employees and place high emphasis on continual training and skills development. We nurture individuals of highest integrity, professionalism and self esteem and provide an ambience where they are able to realise their fullest potential.



Our valued Clients ▼  
Some of our valued clients are  
(in alphabetical order):

- Air Products, UK
- Albemarle Corp., USA
- Areva Solar Inc, USA
- Bharat Heavy Electricals Ltd., India
- BHP Billiton, Australia
- CIR s.a., Uruguay
- Daniel Measurement Solutions, India
- Department of Atomic Energy, Govt. of India
- FLSmidth Pvt. Ltd., India
- Gulbrandsen Chemicals, India
- Hodge Clemco, UK
- Honeywell, USA & India
- Howden Air and Gas, India
- Howden BC Compressors, France
- Howden Thomassen Compressors, Netherlands
- Jordan Bromine Co.
- Jord International, India
- Larsen & Toubro, India
- L&T ECC-ITER
- L&T Howden, India
- Linde, Germany
- Procter & Gamble India
- Rolls Royce Power Eng Inc, UK
- Siemens Ltd., India
- SRF Ltd., India
- Thermax, India
- Toshiba, India

Inspection and Certification Arrangements ▼

For ASME Code Stamped jobs, we have an Authorised Inspection Services Agreement with Hartford Steam Boiler Inspection and Insurance Company of Connecticut. Hartford Steam Boiler UK Ltd. is the Notified Body for PED certification jobs. For special certification requirements such as IMDG, ADR, RID, US DOT, UK DfT, CSC etc., we engage Lloyds Register Verification Ltd. as the certification body. CUTR 032 / 2013 certification of pressure vessels for Russia, Kazakhstan etc. can also be arranged through duly accredited certification bodies. We are also equipped to fulfill country specific legal requirements e.g., Malaysia, Singapore, Australia, Korea, Mexico, South Africa etc.

All our WPQRs are witnessed and certified by third party inspection agencies such as Bureau Veritas, TUV Nord etc. Welders could also be qualified in presence of third party inspection agencies if it is a requirement.

If Client requires us to appoint an independent third party inspection or certification agency, it could be arranged.

