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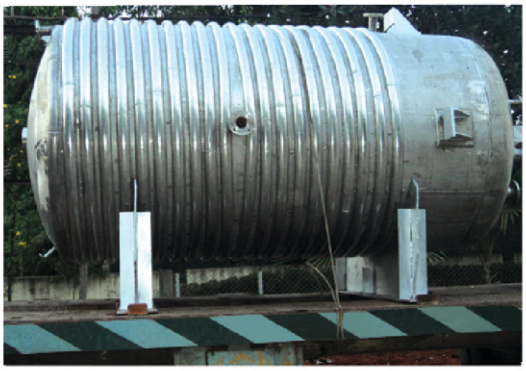

PRESSURE VESSEL DIVISION

THE MEIL GROUP

Megha Engineering & Infrastructures Limited, MEIL, is an emerging player in the global infrastructure scenario. With a marked presence in various infrastructure verticals like Irrigation, Drinking Water, Hydrocarbon, Power Transmission, Transportation, Media, etc., it has a strong pan-India presence. These activities are supported by MEIL's own manufacturing units that produce world class pipes, pressure vessels, and surge control devices.

A BRIEF HISTORY

The Pressure Vessel Division of MEIL was initially started to cater to the needs of all fabrication activities across all the projects of MEIL. We also fabricate surge protective equipment and aid in the process of development activities. The fabrication of pressure vessels is in accordance with ASME standards & the unit achieved the certification of 'U', 'R' & NB stampings. Other important milestones in our journey towards success are:

- By continuous improvement of production processes, the unit has been upgraded to cater to the needs of Oil & Natural gas industry.
- The unit is well equipped and has a great zeal to withstand its position and satisfy customers' needs.
- The unit is committed to enhance customer satisfaction by supplying high quality products, meeting customers' expectations and exceeding their expectations.
- The unit is striving for continuous improvement of the processes and upgrading systems by thorough training.
- The unit is aspiring to achieve the highest quality in accordance with the quality standards, as per the ASME code requirements and other international standards.

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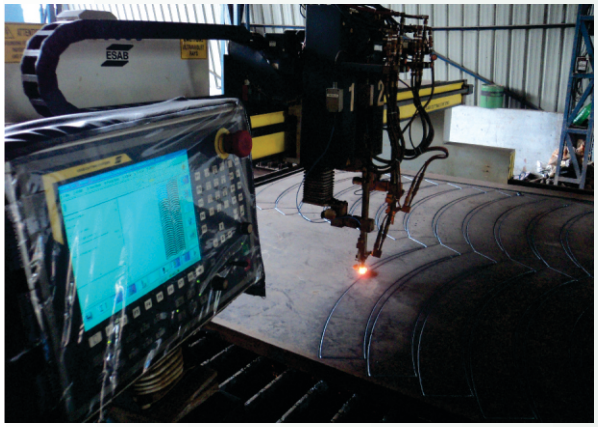


SAMPLE PRODUCTS

- Surge protection vessels
- Separators
- Heater treaters
- Reactors
- Air receivers
- Water bath heaters
- Manifold headers
- Pre-heaters
- Knockout drums
- Water Seal Drums
- CI Vessels
- PPD Vessels
- Closed blowdown tanks
- LP heaters

AIR VESSELS

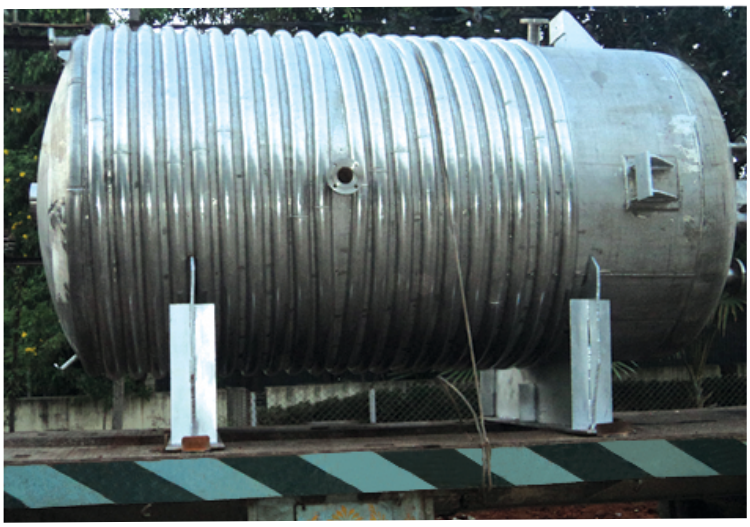
The principal application area of air vessels is the design of surge protection system for cross county pumping mains of water supply schemes and lift irrigation schemes. We manufacture Air Vessels up to the volume of 10m3-148m3.

SEPARATORS

Separators are mechanical devices for removing and collecting liquids from natural gas. A properly designed separator will also provide for the release of entrained gases from the accumulated hydrocarbon liquids.

HEATER TREATERS

Heater treaters are used in the oil and gas production process. They are used to remove water and gas from the produced oil - and to improve its quality for sale into a crude oil pipeline or for other transport.



CHEMICAL REACTORS

The design of a chemical reactor deals with multiple aspects of chemical engineering. Chemical engineers design reactors to maximize net present value for the given reaction and ensure that the reaction proceeds with the highest efficiency.

AIR RECEIVERS

Air receiver is essential to every compressed air system to act as a buffer and a storage medium between the compressor and the consumption system. The unit is equipped with manufacturing of air receivers along with its accessories as per the ASME code varying diameter from 200mm-3200mm. The particular code is ASME section VIII division I. Volume of the air receivers manufactured at the Unit-1 till now is 0.2m3 to 30m3.

MANIFOLD HEADERS

Manifold Headers are an integral part of the air cooled heat exchanger pressure vessel. Headers are used to receive the fluid from the piping and direct the fluid through the tubes. Tubes are connected to the headers via expanding, welding or both. Pipe manifold headers are suitable for all pressures, including full vacuum. Typically this type of header is used for steam coils.

PRE-HEATERS

Pre-Heaters are fabricated by using quality materials and efficient machineries. These heaters are available in various specifications so as to meet the diverse needs of our clients. We provide the best quality tube bundles to our valued clients with our years of industrial experience and expertise. Our range of tube bundles are known for their dimensional accuracy and functionality, and are manufactured in a wide variety of designs and materials of constructions. In addition, we also provide customized ervices as per the client's requirements at most competitive prices.

Tube Size: 9.5 OD to 42mm OD.
Material: S.S. And Carbon Steel
Arrangement: Straight, U Bend Type

KNOCKOUT DRUMS

Whenever a process requires that entrained droplets be removed from a vapor stream, a knockout drum should be integrated into the system. Condensation can occur when hot process gases cool considerably in theflare gas header and riser, and some gases also go to dew point at ambient temperatures and pressures, and can therefore generateliquids. These droplets must be removed in order to avoid the phenomenon known as flaming rain, which occurs when liquid droplets are blown out the top of a flare stack along with ignited process gases. These vessels can be either horizontal or vertical.

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M.S PIPE BENDS AND PPECIAL

Our company is a noted supplier and manufacturer of M.S. Pipelines. We manufacture these pipelines using premium quality mild steel and other allied raw material for ensuring durability and efficient performance. These M.S. pipelines are used extensively in various water supply projects. The products we offer in this category are:

- Bends
- Reducers (eccentric & concentric)
- Cones

STRUCTURAL FABRICATION

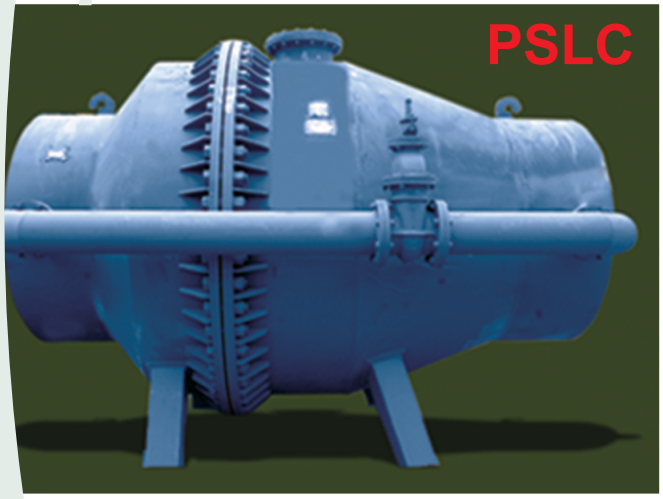
The unit is capable of doing any type of structural fabrication with high quality terms. Some of the structural works carried out are:

- ISRO second launch pad (guide columns)
- Wind mill towers
- Fabrication of sugar plant machinery and structural works.
- Shed Structures for pump houses (approximate height 25mts)
- Stop Lock gates for various projects
- Bridges for pipe crossings
- Gantry cranes
- Electrical sub stations structures
- Structures for transmission lines

WATER HAMMER (SURGE CONTROL) DEVICES

Surge or Water Hammer is a serious cause of damage in pipelines caused by a sudden stoppage of pumps. MEIL has been a technology leader in the design, manufacture and supply of solutions for Surge Control (Water Hammer Control).

MEIL's end-to-end solutions in surge control start with a computerized analysis of the surge in the pipelineusing THOR software developed by an in-house team of experts. Based on this technology, the team recommends the best possible surge control solutions for a project.



MEIL has developed two types of passive Water Hammer Control Devices, i.e., the Proportional Spring Loaded Check (PSLC) Valve and the Quick Release Damped Air (QRDA) Valve which can be supplied in different sizes depending on the requirements of the project.

We manufacture PSLC Valves of Range 300mm Dia to 2350mm Dia and QRDA Valves of Range 100mm Dia t0 400mm Dia.

MS SPECIAL JOINTS

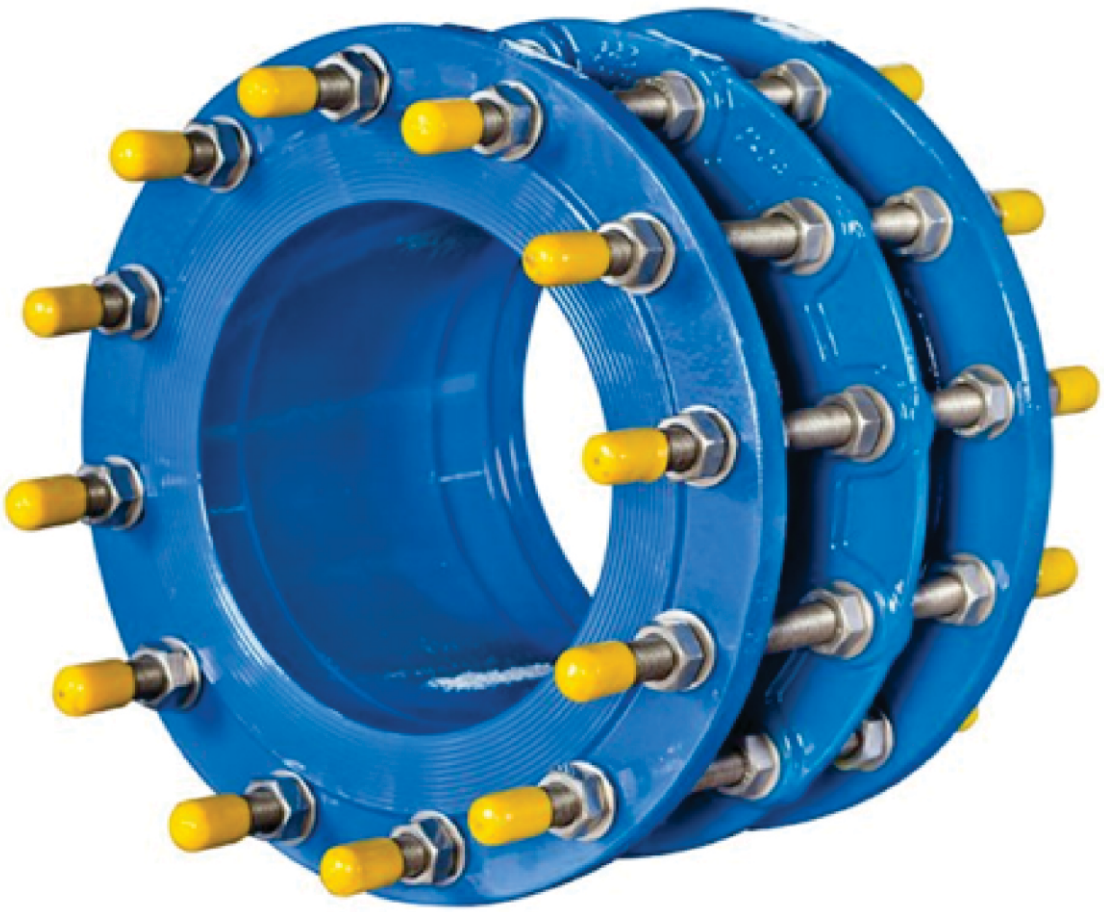
Pipe expansion joints are necessary in systems that convey high temperature commodities such as steam or exhaust gases, or to absorb movement and vibration. A typical type of expansion joint for pipe systems is a bellows which can be manufactured from metal (most commonly stainless steel), plastic (such as PTFE), fabric (such as glass fibre) or an elastometer such as rubber. A bellow is made up of a series of one or more convolutions, with the shape of the convolution designed to withstand the internal pressures of the pipe, but flexible enough to accept the axial, lateral, and/or angular deflections. Expansion joints are also designed for other criteria, such as noise absorption, anti-vibration, earthquake movement, and building settlement

EXPANSION JOINTS

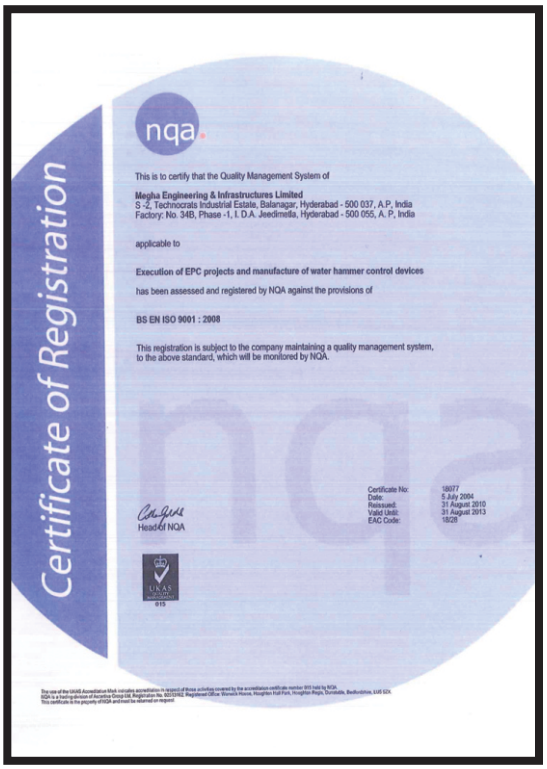
Pressure created by pumps or gravity is used to move fluids through the piping system. Fluids under pressure occupy the volume of their container. The unique concept of pressure-balanced expansion joints is that they are designed to maintain a constant volume.

DISMANTLING JOINTS

Dismantling joints are used for easy dismantle of equipment fitted in the pipe line. They are used before butterfly valves, pumps and other valves. Dismantling joints provide adjustability to your equipment installations by combining a flanged coupling adapter and a flanged spigot into one assembly. Longitudinal adjustment is provided by the telescoping action of the spigot inside the flanged coupling adapter. When final installation position is achieved, the bolting procedure for the flanged coupling adapter and the flanged spigot can be completed. Range: 80 mm to 3000 mm.



OUR CERTIFICATIONS:



Certificate of Registration

nqa

This is to certify that the Quality Management System of

Megha Engineering & Infrastructures Limited
S -2, Technocrats Industrial Estate, Balanagar, Hyderabad - 500 037, A.P, India
Factory: No. 34B, Phase -I, I. D.A. Jeedimetla, Hyderabad - 500 055, A. P, India

applicable to

Execution of EPC projects and manufacture of water hammer control devices

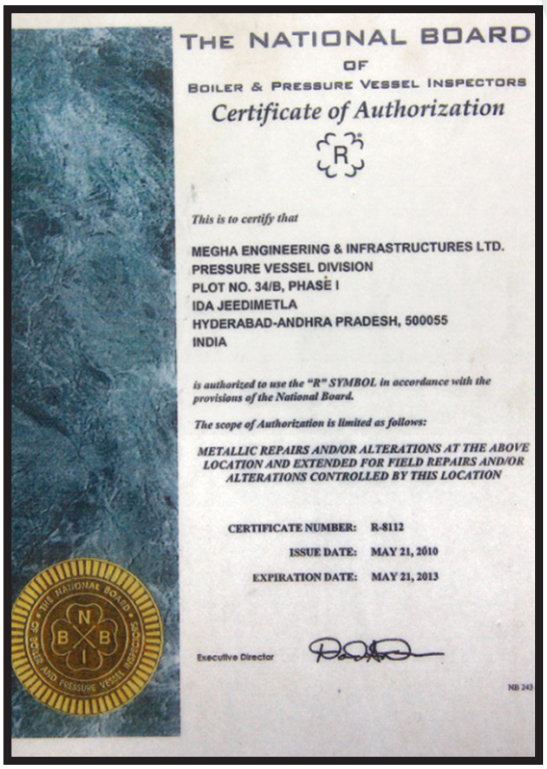
has been assessed and registered by NQA against the provisions of

BS EN ISO 9001 : 2008

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

Certificate No: 18077
Date: 5 July 2004
Reissued: 31 August 2010
Valid Until: 31 August 2013
EAC Code: 18/28

Head of NQA



THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS
Certificate of Authorization

This is to certify that

MEGHA ENGINEERING & INFRASTRUCTURES LTD.
PRESSURE VESSEL DIVISION
PLOT NO. 34/B, PHASE I
IDA JEEDIMETLA
HYDERABAD-ANDHRA PRADESH, 500055
INDIA

is authorized to use the "R" SYMBOL in accordance with the provisions of the National Board.

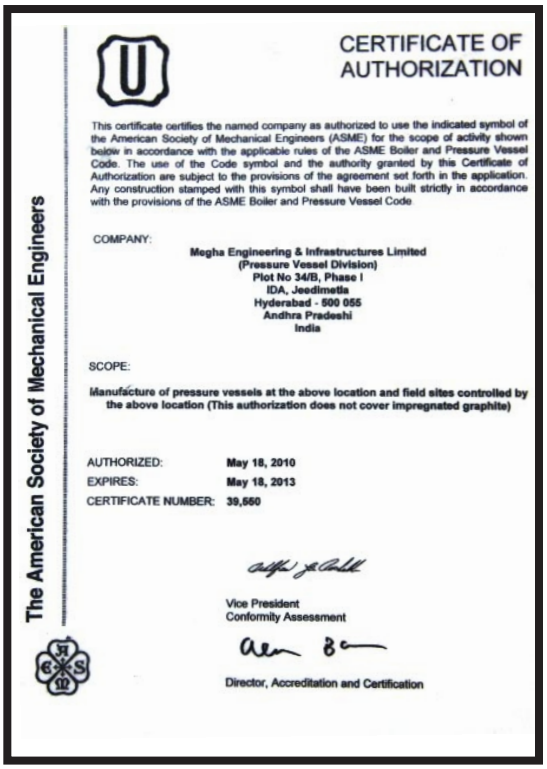
The scope of Authorization is limited as follows:

METALLIC REPAIRS AND/OR ALTERATIONS AT THE ABOVE LOCATION AND EXTENDED FOR FIELD REPAIRS AND/OR ALTERATIONS CONTROLLED BY THIS LOCATION

CERTIFICATE NUMBER: R-8112
ISSUE DATE: MAY 21, 2010
EXPIRATION DATE: MAY 21, 2013

Executive Director

NB 243



The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

This certificate certifies the named company as authorized to use the indicated symbol of the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the Code symbol and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this symbol shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code

COMPANY:

Megha Engineering & Infrastructures Limited
(Pressure Vessel Division)
Plot No 34/B, Phase I
IDA, Jeedimetla
Hyderabad - 500 055
Andhra Pradeshi
India

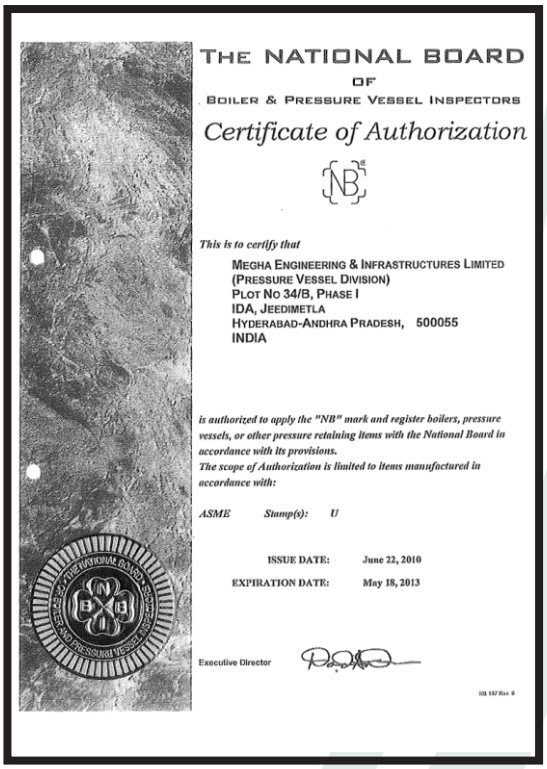
SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **May 18, 2010**
EXPIRES: **May 18, 2013**
CERTIFICATE NUMBER: **39,660**

Vice President
Conformity Assessment

Director, Accreditation and Certification



THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS
Certificate of Authorization

This is to certify that

MEGHA ENGINEERING & INFRASTRUCTURES LIMITED
(PRESSURE VESSEL DIVISION)
PLOT NO 34/B, PHASE I
IDA, JEEDIMETLA
HYDERABAD-ANDHRA PRADESH, 500055
INDIA

is authorized to apply the "NB" mark and register boilers, pressure vessels, or other pressure retaining items with the National Board in accordance with its provisions.
The scope of Authorization is limited to items manufactured in accordance with:

ASME *Stamp(s):* *U*

ISSUE DATE: June 22, 2010
EXPIRATION DATE: May 18, 2013

Executive Director

NB 137 Rev. 0

BUSINESS AND TRADE ENQUIRIES

Please contact us at the following address for enquiry, feedback or suggestions.

Regd. Office: **MEGHA ENGINEERING & INFRASTRUCTURES LTD.**
S-2, T.I.E., Balanagar, Hyderabad -500 037,
Andhra Pradesh, India.

Unit Address : Pressure Vessel Division
Plot No. 34/8, Phase-I, IDA,
Jeedimetla, Hyderabad - 500 055,
Andhra Pradesh, India.

Phone :+91-40-23191570

Phone :+91-40- 23076483/23077041/23075076.

Fax :+91-40-23077502

Email : pvd@meil.in

Website : www.meil.in