

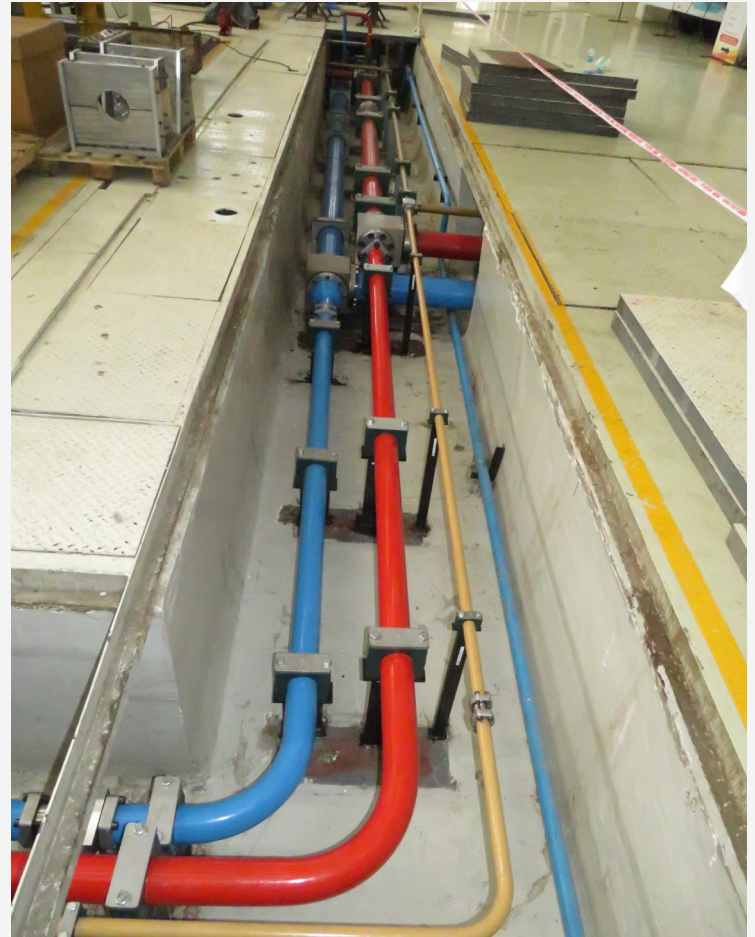
2022, PUNE, INDIA

HARDLINE FOR MATERIAL FATIGUE LAB

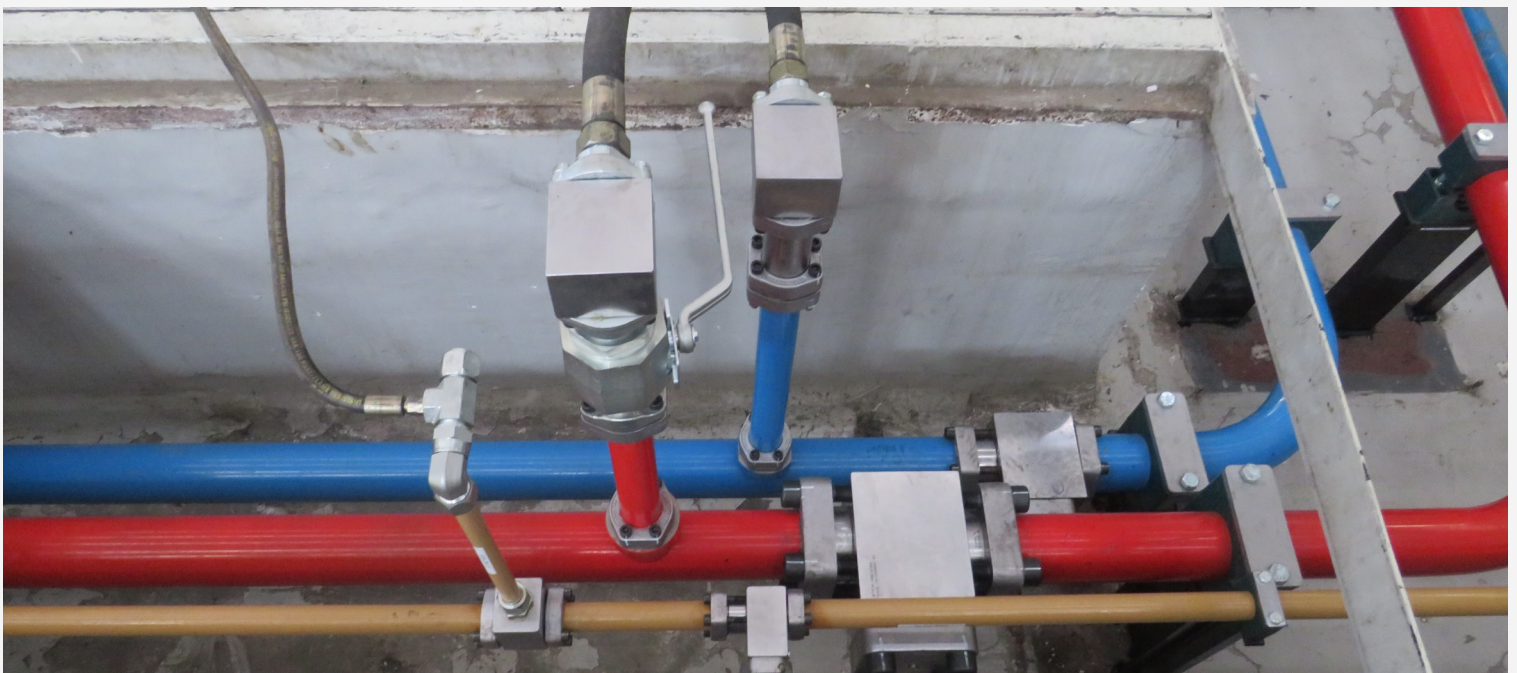
Automotive Research Association of India (ARAI), one of the largest automotive industrial research association in India were looking for a reliable hardline solution for their Material Fatigue Lab. With non-welded piping gaining wider acceptance in India, the organisation awarded Cenergy Offshore (CO) the job based on experience and reputation.

CO did the design, supply and installation and flushing of the piping. The piping was pre-fabricated at Tube-Mac Piping Technologies, Canada (TMI) and shipped to the site for assembly. TMI Flange connections namely Retain Ring Flange and Flare Flange Systems were used to join the connections of the hardline.

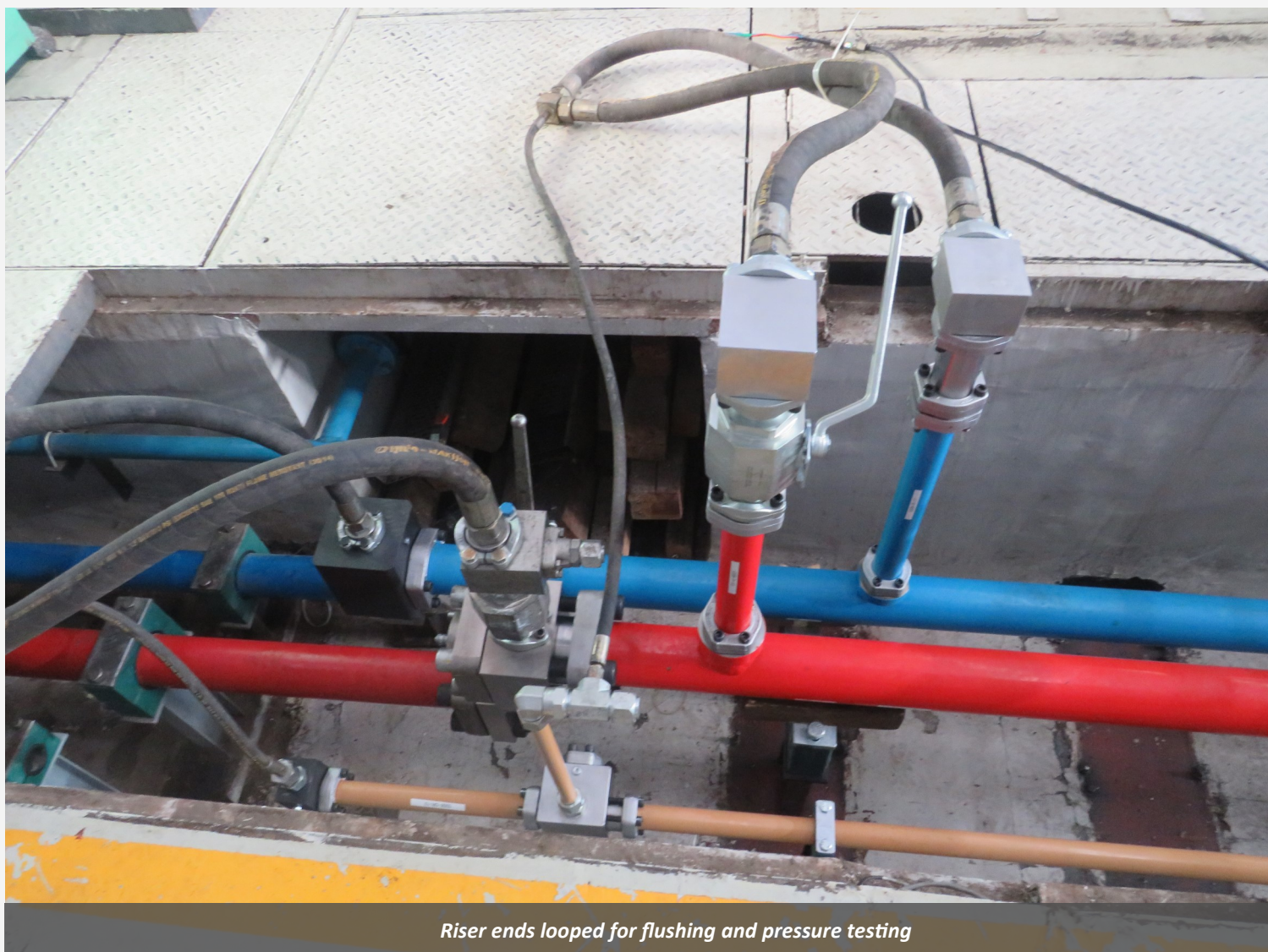
The piping was installed, flushed to the required cleanliness (NAS) value and successfully pressure tested before handing it over to the customer.



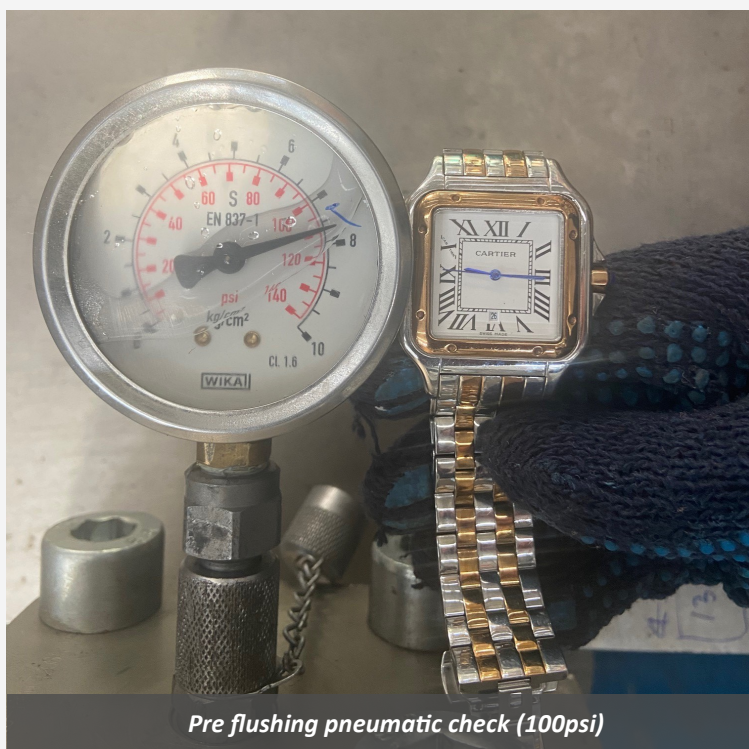
View of the hardline in a ring arrangement



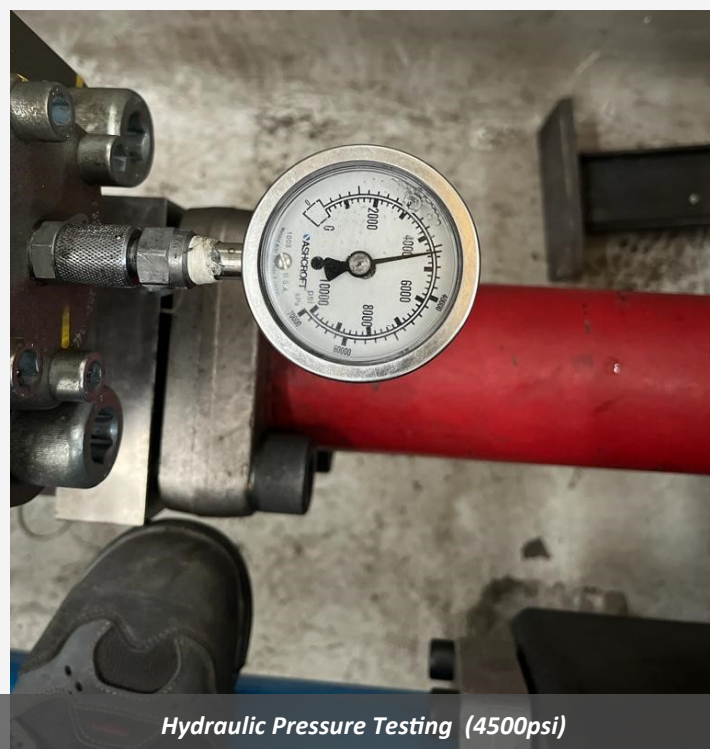
Riser Piping to the actuators



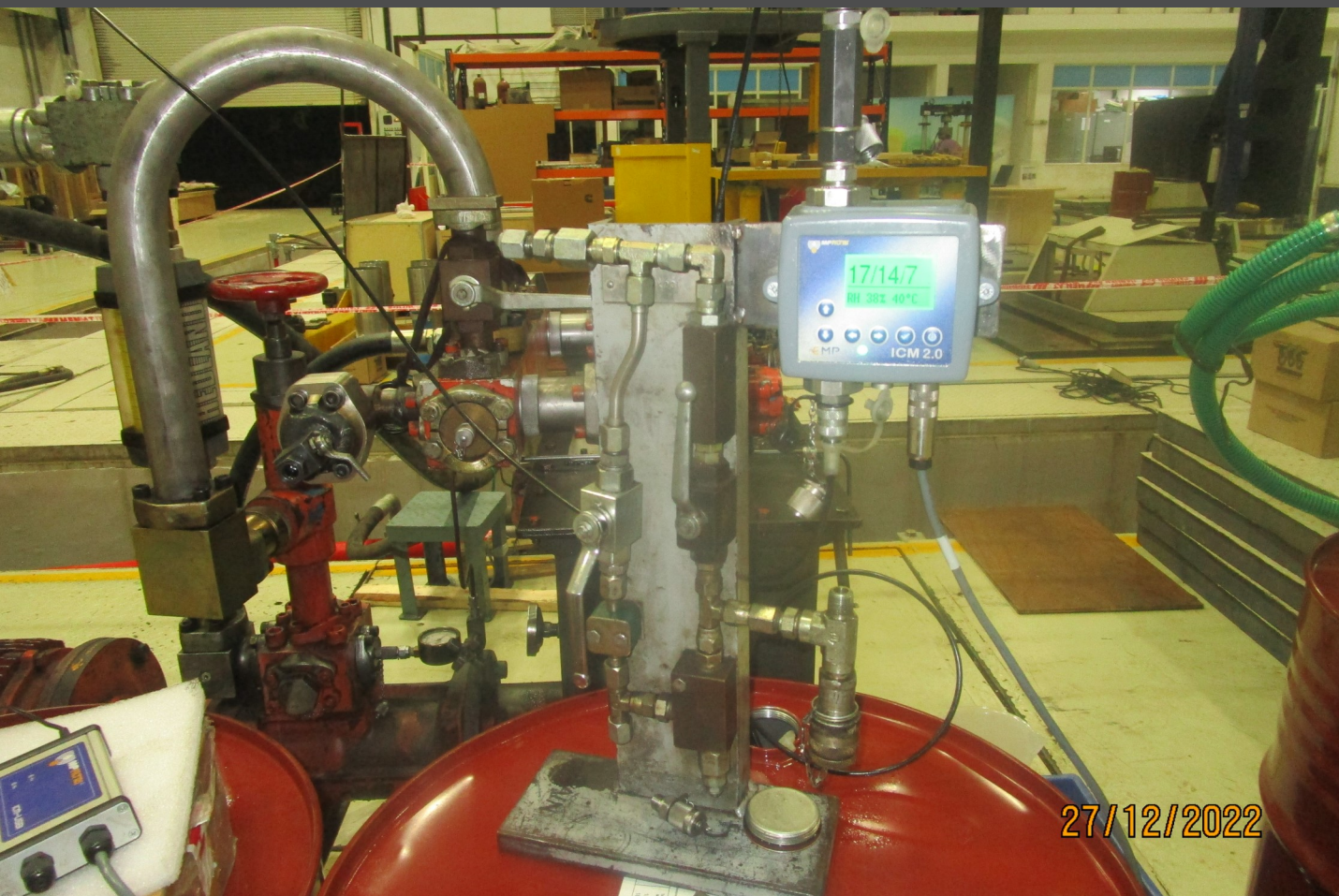
Riser ends looped for flushing and pressure testing



Pre flushing pneumatic check (100psi)



Hydraulic Pressure Testing (4500psi)



Flushing rig performing flushing, online particle counter displaying the cleanliness value

PROJECT SPECIFICATIONS

1	<i>Line Sizes</i>	<i>115 mm x 15 mm, 4" Sch 40, 1-1/4" Sch40</i>
2	<i>Non-Welded Piping Technology Used</i>	<i>37 Degree Flare Flange System, Retain Ring System</i>
3	<i>Scope of Work</i>	<i>GA Drawing, Supply of Pre-Fabricated Piping, Flushing, Pressure Test</i>
4	<i>Pressure Rating</i>	<i>210 Bar</i>
5	<i>Delivered Cleanliness</i>	<i>NAS 6</i>

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