**Design and Analysis for Horizontal Pressure Vessel**

Abstract:-

A pressure vessel is a container designed to hold gases or liquids at a pressure substantially different from the ambient pressure. Pressure vessels can be dangerous, and fatal accidents have occurred in the history of their development and operation. Consequently, pressure vessel design, manufacture, and operation are regulated by engineering authorities backed by legislation. For these reasons, the definition of a pressure vessel varies from country to country. Design involves parameters such as maximum safe operating pressure and temperature, safety factor, corrosion allowance and minimum design temperature (for brittle fracture, because it is a safer method, as much less energy is released if a fracture occurs during the test (water does not rapidly increase its volume when rapid depressurization occurs, unlike gases like air, which fail explosively). The project is proposed to analyse and design a cylindrical pressure vessel made up of composite material. The new composite material considered is Glass Fibre and Existing used for stainless steel in the market. Now Let’s do for design and analysis of Horizontal pressure vessel for domestic purpose And compared to both materials using with Catia v5 and Ansys. We have getting results of bursting point and safe factor.

Keywords:-Pressure Vessel, Static Structural analysis and steady state thermal analysis

Price: 7500/-