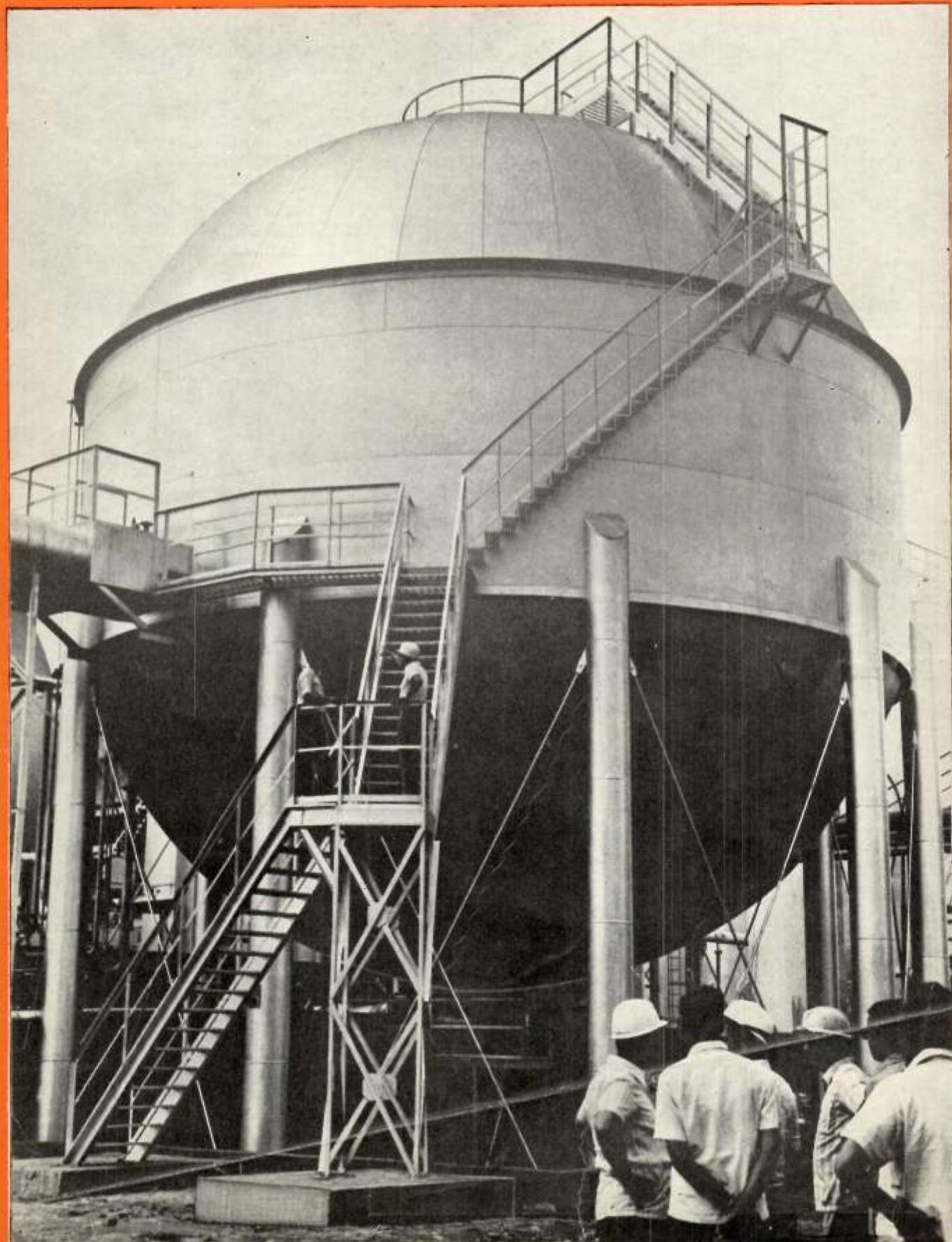


# 1000 tonne Liquid Oxygen Tank successfully commissioned at Rourkela





Vijay Tanks & Vessels gratefully acknowledge the opportunity afforded by Rourkela Steel Plant for carrying out this turn-key project—their maiden effort in the field of cryogenics. The job included design, procurement, fabrication, erection, testing and commissioning of a 1000 tonne Liquid Oxygen Tank, four 100 M<sup>3</sup> Gaseous Oxygen vessels, liquid and gaseous oxygen filling and transfer lines.

Graver Tank & Mfg. Co. of El-monte, California, provided the know-how for the cryogenic tank under the licencing arrangement. VTV's engineers specially trained in Graver's Chicago works, designed the complete facility to international codes and handled the construction and commissioning of this project in a most praise-worthy manner.

The liquid oxygen is stored at  $-183^{\circ}\text{C}$  in a 12 M dia aluminium alloy sphere suspended within a steel container holding expanded perlite

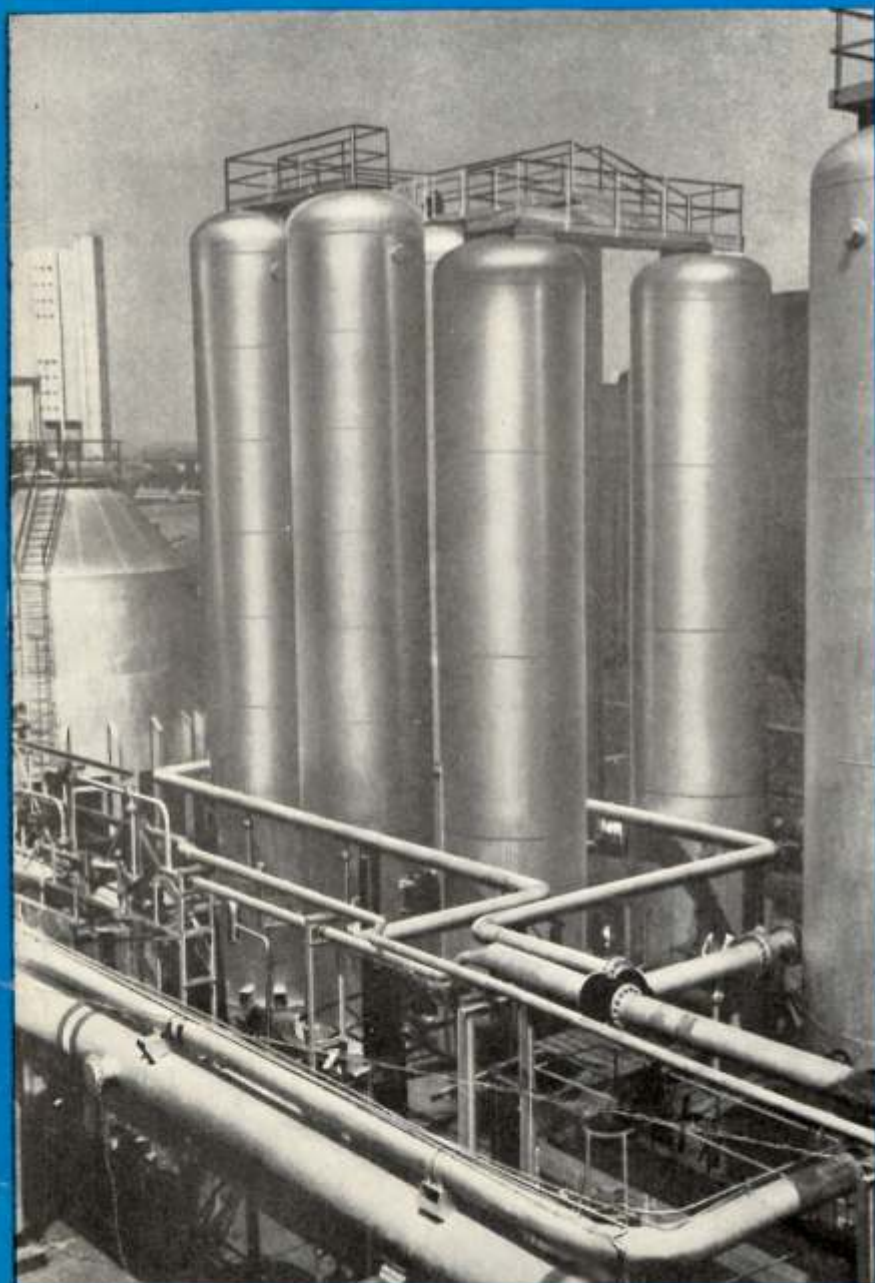
insulation in a dry inert atmosphere. Sophisticated instruments were imported and installed on this tank to ensure safe operation.

VTV's R & D department successfully developed their own MIG welding machines for carrying out aluminium alloy welding on this LOX tank.

Yet another remarkable achievement of VTV's team of engineers is the skillful development of portable field units for expanding the imported perlite mineral ore—35 million cm<sup>3</sup> of ore was expanded to 20 times its volume — for filling the annulus on this tank.

VTV is thus poised with confidence for the next assignment at Bokaro Steel Plant where a 2000 tonne Liquid Oxygen Tank is under construction.

VTV's emergence in the field of cryogenics will contribute to the indigenous development of this industry with substantial savings in foreign exchange.



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