

Engineering Services Specialised Lifting Equipment.



OBJECTIVES

- To facilitate the safe removal of the underflow valve assembly of a thickener vessel.
- Designed and manufactured with full engineering certification.
- Possibility of utilising mobile equipment available in the area.
- Allow for lack of level ground in the immediate working area.
- Including facility to swivel the load for bolting alignment on reinstallation.

INTRODUCTION

Control and Thermal was asked to submit design options for the safe removal of a thickener underflow valve assembly. The underflow assembly must be removed periodically for the purpose of cleaning and maintenance.

The area in question is self draining and as such has a sizable gradient. Also a problem, was the low headroom and small working area due to the thickener support columns surrounding the area, there was little room to manoeuvre a vehicle.

CTE devised the concept of a forklift mounted lifting frame. There was only enough room to drive a fork straight in. So the frame was designed with a swivel top section to align with lifting points.

Large threaded adjustments were also incorporated to level the top section of the frame to the underflow, allowing for the sloping terrain.

The frame was designed, manufactured and supplied with full engineering certification and NDT documentation required for lifting equipment of this nature.

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