

IMPLEMENTATION OF LEAN SIX SIGMA PRINCIPLES IN A SAND CASTING FOUNDRY OF GUJARAT

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ABSTRACT

Gujarat is famous for producing cast components using sand casting processes. In Gujarat Rajkot, Bhavnagar, Ankleshwar, Vadodara, Ahmedabad are major districts for sand casting components. Mainly Rajkot is a hub for casting automobile components. In LSS application we tried to improve productivity and waste elimination from the foundry sector. During pouring of liquid metal some portion of metal is solidified before pouring so we design a new ladle system with a locking system. So the author prepared a LSS model to implement LSS in sand casting foundry of Gujarat and improve the ladle capacity.

Keywords: LEAN SIX SIGMA, Foundry, Gujarat.