

Extension of D Blast Furnace Campaign Life at Tata Steel Ltd

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Abstract : Extension of blast furnace campaign life is highly desired for blast furnace operators mainly because of reduction of operating cost and to avoid capital expenditure cost. Tata Steel Ltd, Jamshedpur plant operates seven blast furnaces with combination of old and new technologies. The focus of Tata Steel Ltd is to push for increasing productivity with good quality product and increasing campaign life. This has been challenging for older furnaces because older furnaces are generally equipped with less automation, old design and old equipment. Good operational practices, appropriate remedial measures, and regular planned maintenance helps to achieve long campaign life of old furnaces. Good operating practices like stable and consistent productivity, control of burden distribution, remedial measures like stack gunning and shotcreting for protection of stack wall, enhanced cooling system, and intermediate stack repair helps to achieve long campaign life of old blast furnaces. This paper describes experiences with the current old equipment and design of Tata Steel's D Blast Furnace for campaign life extension.

Keywords : blast furnace, burden distribution, campaign life, productivity

Conference Title : ICISFT 2017 : International Conference on Iron, Steel and Forming Technologies

Conference Location : London, United Kingdom

Conference Dates : October 19-20, 2017