

DEVELOPMENT OF SPEED BASED SYSTEM FOR AVOIDING THE JAMMING OF CONVEYOR IN BLOOMING MILL

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Abstract

The paper describes the development of low cost system for knowing the running of crop conveyor in steel plant. Unnoticed stoppage of conveyor belts for few minutes results into a huge accumulation of crop which forces to stop the rolling. Prior to this new system variation in load current of conveyor drive was tried to know the its movement but could not give reliable results. Two micro tacho generators are installed and electronic logic circuit are developed for knowing the either stoppage of conveyor belt or breakage of associate chain. The techno economic worked out in the tune of Rs 1.7 Cr (\$ 0.34 million) with a pay back period is few hours.

Keywords: Micro tachogenerator Differential amplifier, Safety, Productivity.