ABSTRACT

Loading facility overland conveyor are some equipment system were functions as material remover (coal) from stock pile (field) through to jetty, which in the processed used to induction motor as prime remover.

The induction motor is coupled with a reducer which connected with drum pulley shaft until motor rotation can move belt conveyor.

Loading facility overland conveyor is unpermanent system, so consumption of power demand are supplied by synchronous generation system which jointed with diesel engine as prime mover. Capacity of power generator system in this plant consideration many aspect such as total of power industion motor in use, starting current motor when full load, and supported load like as lighting area.

With consideration and also estimation total of power consumption, so would be obtained total consumption power.

This final project served determination of power motor selection according with close in mechanical determination, and then power motor would be choose according Marelli induction motor catalogue, with consideration safety correction factor. Then with analyse starting current, power demand when motor is loaded, and estimation consumption power when steady state load.
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