Department : **Mechanical**

Year : **2016-2017**

Group No: **35**

Guided By

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Project Title

STUDY OF CONTROLLING HOT AIR OUTLET TEMPRATURE OF ONCE THROUGH COOLER

Abstract:

Overall efficiency is one of the main parameters for profitability of power plants. Now a days there are lots of equipment and parts inside machines called heating elements need to be cooled during working process with different devices. Therefore, there is a need of professional components to cool heating elements so that they maintain their appropriate temperature according to their manufacturing and design parameters. Once through cooler is a device or a system which is used as a cooling device of gas turbine. For reasons of cost reduction the classical recirculation evaporators have been replaced by so-called "Once Through cooler" in recent plant projects. It work as a heat exchanger and have no auxiliary equipment. It increase the overall efficiency of plant by producing steam itself and which is used as a fuel in steam turbine.

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