

Department : **Mechanical**

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Group No: **3**

Guided By

**PROF. PRAKASH
MISTRY**

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

TWO STAGE EVAPORATIVE COOLING

Abstract:

Evaporative cooling is a mechanism traditionally used to provide thermal comfort in hot and dry regions. The mechanism involves sensible and latent cooling of air with water. Two stage evaporative cooling system consists of a direct evaporative pre cooler which provides cool and wet air to indirectly cool down the primary air in the tube bundle heat exchanger. The cool and dry air is then passed through a direct evaporative cooler to humidify it. Two stage evaporative cooling systems (direct + indirect) the direct system could be functional during the dry season, when humidification of air is required, and indirect system can be used when air primarily needs to be cooled.

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