Department : Mechanical

Year : 2014-2015

Group No: 12

Guided By

PROF. M. P. RAJPARA

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

DESIGN AND ANALYSIS OF MULTISTAGE CENTRIFUGAL PUMP

Abstract:

The Flow analysis inside the centrifugal pump is highly complex. Mainly, due to 3D flow structure involving turbulence, secondary flow, cavitations and unsteadiness. The blade number of impeller is important in design parameter of pump which affects the characteristics of pump heavily at present. The investigation focused mostly on the performance characteristics of vertical flow pump. The influence of blade number on inner filed. This experimental CFD research made it possible to undertake an assignment of rotor contribution on the head of centrifugal pump. After modifying the design, the pressure head or flow rate will be increased.

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