

# MANUAL WATER PUMPING SYSTEM WITH SPEED (r.p.m) SWITCHING DEVICE

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## ABSTRACT

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The abstract of the project is to design a manual water pumping system where the change the pumping power is available. The manual pumping system should be able to pump from lower to higher reservoir with the height difference of 1.5m. Basically, the pumping power is governed by the rotational speed (r.p.m) of the impeller. The requirement is that the water pump is driven by chain drive, and the chain drive allows pinion switching for speed (r.p.m) variation. The challenge of the project is to couple chain drive and pump impeller, which allows the rotational speed variation of pump impeller.

There are few conceptual designs and pictures have been attached to give more idea and to understand easily of the project and the concept of manufactured and works.