



**FABRICATION OF PENDULUM  
BASED WATER PUMPING  
SYSTEM**



**A PROJECT REPORT**

*Submitted By*

<b>GOKUL SHARAMA .S</b>	<b>(621520114302)</b>
<b>THARANIRASAN.P.K</b>	<b>(621520114307)</b>
<b>KALAIARASAN.G</b>	<b>(621520114007)</b>
<b>RAGUL.M</b>	<b>(621520114304)</b>

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CHENNAI MAIN ROAD, MINNAMPALLI,  
SALEM-636 106**

**ANNA UNIVERSITY: CHENNAI – 600 025**

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*N.V.*  
**PRINCIPAL**  
Mahendra College of Engineering  
Mahendra Salem Campus,  
Minnampalli, SALEM 636 106  
TAMILNADU

ANNA UNIVERSITY: CHENNAI-600025

BONAFIDE CERTIFICATE

Certified that this report titled "FABRICATION OF PENDULUM NBASD WATER PUMPING SYSTEM" is the bona fide work done by

GOKUL SHARAMA .S  
THARANARASAN.P.K  
KALAIARASAN.G  
RAGUL.M

(621520114302)  
(621520114307)  
(621520114007)  
(621520114304)

who carried out the work under my supervision.

  
SIGNATURE

DR.S.BALAMURUGAN, M.E., Ph.D.,

Professor and Head,

Department of Mechanical

Engineering,

Mahindra College of Engineering,

Minnampalli, Salem – 636106.

  
SIGNATURE

Mr.P.GOPI, M.E.,

Associate Professor,

Department of Mechanical

Engineering,

Mahindra College of Engineering,

Minnampalli, Salem – 636106.

Submitted for the University Viva – Voce Examination held on 30.12.2023

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



  
PRINCIPAL  
Mahindra College of Engineering  
Mahindra Salem Campus,  
Minnampalli, SALEM 636 106  
TAMILNADU

## ABSTRACT

Our project is entitle as "FABRICATION OF PENDULUM BASED WATER PUMPING SYSTEM". The traditional hand water pump may take more efforts, the man who operates traditional hand water pump has to apply his force continuously on the lever of pump, due to which man who are using this pump get tired immediately.

One important think of a pump with a pendulum is that the work is alleviated or in simple terms it makes work rather easier when is compared with a traditional hand water pump. It is due to this underlined feature which enables the pendulum pump to be used as an efficient mode in the irrigation of smaller lots, water-wells. By the use of pendulum based water pumping system we can increase the efficiency of the plant and reduce the effort, cost of production, production time, and manpower requirement.

The research done fill today is concentrated on the working and effectiveness of the mechanism only. Considering all of the advantages of the mechanism it was decided to use it for lifting water with the help of reciprocating pump such that the input to the mechanism is given by humans which is comparatively less than the effort applied by humans to lift water using hand pumps directly.



*NV*  
PRINCIPAL  
Mahendra College of Engineering  
Mahendra Salem Campus,  
Minnampalli, SALEM 636 106  
TAMILNADU

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### CONCLUSION

We can conclude that the pendulum based motor operated pendulum pump is the pump which can continuously pump the water from desired head by utilizing combined power of pendulum & counter weight.

The swing of pendulum is maintained by using wiper motor. It can continuously work. We have reduced the human effort by providing the pendulum bob which is attached to the end of lever.

While pumping the pendulum oscillates to and fro and provides continuous energy to the lever which pressurizes the water and lifts the water from lower head to higher head and provides the continuous flow of liquid.

This is one of the methods that help the rural people to access liquid easily for spraying pesticides, gardening purpose and for Drip irrigation.



  
PRINCIPAL  
Mahendra College of Engineering  
Mahendra Salem Campus,  
Minnampatti, SALEM 636 108  
TAMILNADU